Blundeville (J.)

8450 79



THE ART OF

F LOGIKE. Care.

Plainely taught in the English tongue, by M. Blundeuile of Newton Flotman in Norfolke, as of all other moderne and best accounted Authors thereof.

dents in any profession to find out thereby the truth in any doubtfull speech, but specially for such zealous Ministers as have not been brought vp in any Vniversity, and yet are desirous to know how to defend by sound argumentes the true Christian dottrine, against all subtill Sophisters, and cauelling Schimatikes, & how to consute their faise sil.

Jogilmes,& captious arguments.



Inprinted by IohnWindet, and are to be fold at Paules Wharfe, at the figneof the Croffe Keyes. 1599.

The Contents of the Chapters contained in enery one of the fixe Bookes or partes of this Treatife.

The contentes of the first booke, which treating of a question, and of wordes both singular and vinuersall, contayneth 23. Chapters.



N the first Chapter is defined what Logike is, of what partes it confilleth, and whereto fuch partes do ferue. Item, which be the two chiefe offices of Logike, and wherein Logike is chiefly occupied, that is, in discussing ৰী of questions, which is done by Definition, Division, & Argumentation.

The second Chapter the weth what a question is, and that every question is eather simple or compounde, also of what partes a compound: question consisteth (that is to say) of two partes, called the subject ar d the Predicate, and what those tearmes do signifie. Item because all questions doe confist of wordes eyther simple or compound, in this chapter are fet downe three principall diuisions of wordes. First which be simple, and which be compound. Secondly which be of the first intention, and which be of the second intention, and thirdly which bee singular, called in Latine Individua, and which be univerfall.

The third Chapter sneweth what Individuum is, and all the foure kindes thereof, (that is) Individuum determinatum, Individuum de= monstratiuum, Indiuiduum vagu, and Indiuiduum ex hipothesi, (that is to (ay) by supposition.

The fourth chapter treateth of vniuerfall wordes, whereof some are called Predicables, and some Predicaments, and first of the fine predicables, (that is) Genus, Species, Differentia, Proprium, and Accidens, & how every one is divided, and to what vies they ferue, but first of Species and then of the rest.

The fift Chapter treateth of Predication, and of the divers kindes

The fixt Chapter treateth of the ten Predicaments in generall, which be these, Substantia, Quantitas, Qualitas, Relatio, Actio, Passio, Vbi, Quando, Situm elt, & Habere.

The seventh Chapter treateth of the forepredicaments, and, she weth which they be, and to what end they serue.

The Contents of the Booke.

The eight Chapter treateth of the ten Predicamentes in speciall, shew. ing what Substance is, and how many kindes there bee, and what propertyes it hath, whereto is added the Table of Substance.

The ninth Chapter treateth of quantity, both Whole and broken, called in latine quantitas continua, & discreta, and of the diverse kindes of both quantities, and what properties quantitie hath, whereto is ad-

ded a Table of quantitie.

he tenth Chapter treateth of quality, and of the fower kindes thereof & in this Chapter are defined the 5. intellectual habites, that is, Intelligence, Science, Prudence, Art, and Sapience; it sheweth also what properties qualitie hath, and to cuery of the fower kindes of quality is added his proper Table.

The elementh Chapter treateth of Relation and of the kindes thereof. together with a Table shewing euery kinde, and finally what proper-

ties Relation hath.

The twelfth Chapter sheweth what action is, and how it is deuided, & what properties doe belong thereunto.

The thirteenth Chapter showeth what passion is, and What properties doe belong thereunto.

The 14. Chapter sheweth what the Predicament Vbi is, and how it is deuided, and what properties do belong to that Predicament.

The 15. Chapter sheweth what the Predicament Quando is, how it is

deuided, and what properties belong thereunto.

The sixteenth Chapter sheweth what the predicament Stum effe is, what it comprehendeth, also what descriptions are to be setched from this predicament, and what thinges are faid to alter their fituation, and finally what propertie it hatla, to which predicament is added a briefe Table.

The seuenteenth Chapter sheweth the divers significations of the precicament Habere, also what wordes it comprehendeth, with a Table the wing the same, and finally what properties it hath.

The eighteenth Chapter briefly sheweth the manifolde vses of the a-'foresaid ten predicamentes.

The nine centh Chapter treateth of the Postpredicaments, which are in number fine, that is, Oppositio, ante & post, simul, motus, & habere, and first of Opposition, and how many thinges are saide to agree together, to bee divers, or to bee contrarie one to another,

The twentieth Chapter sheweth how many wayes thinges are saide to bee one before or after another, and to what ende that pollpredica-

ment serueth.

The 21, Chapter treateth of the postpredicamente Simul, shewing how many wayes thinges are faid to be together.

The Contents of the Bookes

Thezz. Chapter treateth of the Postpredicament Motus shewing how many kindes of mouinges there be. The 23. Chapter sheweth how many Waies the worde Habere is to

be understood.

question.

The Contents of the second booke, which treating of Definition, and of Division, and of Methode, contayneth five Chapters.

The first Chapter treateth of Definition, and sheweth how many kindes of definitions there be. The second Chapter sheweth how many precepts are to be obferued to make a true definition.

The thirde Chapter treateth of diuision, and of the diuers kindes

thereof. ... The fourth Chapter sheweth how many preceptes are to be observed

to make a true Dinision. The fift Chapter treateth of Methode, and of the three kindes thereof, that is, Compositive, resolutive, and divisive, and what Methode is to bee observed in handling eyther of a simple, or of a Compounde

The Contents of the third Booke, which treating of a Proposition contayneth 11. Chapters.

He first Chapter treateth of a Proposition, shewing of what pares it confilleth, and how many wayes it is divided, and what quell: ons are to be asked of a Categoricall or simple proposition, being deuided according to substance, qualitie, and quantitie.

The second Chapter treateth in general of the three properties belon. ging to a simple Proposition, that is, Opposition, Equivalencie, & conuerfon.

The thirde Chapter treateth of the lawes and conditions belonging to the foure Opposites, and also of the threefold matter of a proposition, that is, naturall, cafuall and remote, and then of Opposition, thewing how many wayes simple propositions are said to bee opposite one

The fourth Chapter treateth of the Equivalencie of simple proposition

The fift Chapter treateth of the conversion of simple propositions, shewing how manifold it is.

The

The

The Comments of this Booke.

The fixt Chapter treateth of a modall proposition, and of the two kindes thereof, that is to fay, Coniunct and Diffunct.

The feuenth Chapter briefly treateth of the Oppolition, Equivalency, and conversion belonging to Modall propositions.

The eight Chapter treateth of Opposition belonging to Modall Pro-

politions.

The ninth Chapter treateth of Equiualency and Conversion of Mo-

dall propositions.

The 10. Chapter treateth of an Hipotheticall or compound Proposition, shewing how it is deuided, that is, into a conditionall, copulatine, and diffunctive, and of what partes it confilleth, and also what thinges are to be considered in a compound proposition.

The it. Chapter treateth of the truth and falshood of all the 3.kindes of compound propositions, still of the conditionall, secondly of Copu-

latine, and thirdly of the Diffunctine.

The contents of the fourth booke, which treating of logicall places contagneth 6. Ghapters.

THe first Chapter sheweth what a place is, and that it is twofold, that is, eyther of persons or of things. Againe the places of things be eyther artificiall or inartificiall, and the artificiall places of thinges are eyther inward, outward or meane: and the inartificiall places of thinges are 6. in number, comprehended under the place of authoritie, as the Table of places set downe in the beginning of this Chapter doth plainely fhere. Also this Chapter sheweth to what end such manifold divisions of the places serueth, & how places are divided according to the schoolmen, that is, into Maxims, and difference of Maxims,

The second Chapter setteth downe examples of all the places belongs

ing to persons.

The third Chapte, treateth of the places of things, and first of artificiall places, whereof some be inward, some outwarde, and some meane: and first of inwarde places, whereof some belong to the substance of things, and some doe accompany the substance, gruing exampless of euery place, together with their proper Maxims or generall rules belonging to the same and how arguments are to bee setched from energy fuch place eyther affirmatiuely or negatively, or both wayes.

The fourth Chapter treateth of outwarde places, shewing how arguments are to be fetcht from enery fuch place, together with the generall

rules or Maxims belonging to the fame.

The fift treateth of meane places, giving examples, and shewing how argumentes are to be fetcht from such places, together with the rules belonging thereunto.

The Contents of the Booke.

The 6. Chapter treateth of the fixe inartificiall places comprehens ded under the place of authority, whereun to is added a table of authoritie. And in this Chapter is not onely declared to what end the knowledge of all the forefaid places do ferue, but also it sheweth by one exa. ample how to vie them when neede is, eyther to proue or to dilate any theame, which example is taken out of Hunneus. The theame whereof is thus: Man ought to embrace vertue.

The Contentes of the fift booke, which treating of argumentatitation, and of demonstration, containeth 32. Chapters.

THe first Chapter treateth of Argumentation, and of the foure kinds, thereof in generall, and also of the first principles of a Sillogisme, afwell materiall as regular.

The fecond Chapter sheweth what a Sillogisme is, how it is divided,

and of what parts it consider (that is) of matter and forms.

The third Chapter sheweth what that matter and forme is, and that the matter confilteth of three tearmes and three propositions, and the forme to confift of figure and Moode. Also by what meanes the meane tearme or poofe is to be found out. And finally it defineth the three propositions, whereof a simple Sillogisme consisteth, shewing how they are named, and how to frame the same to make a true Sillogisme.

The fourth Chapter Theweth what Figure or Moode is, whereof the forme of a Sillogisme confisteth, and how many such figures there bee, and when a Sillogifine is faid to conclude directly or indirectly: it shew. ethalfohow many moodes doe belong to euery figure, and how they are named. And finally what the foure vowels A. e i. o. do fignifie in any fuch moode or vocable of art.

The fift Chapter letteth downe certaine rules aswell general as speci-

all belonging to the three figures.

The fixt Chapter giueth examples of the foure perfect moodes belonging to the first Figure.

The seventh Chapte giveth examples of the five unperfect Moodes,

belonging to the first Figure.

The eyght Chapter giveth examples of foure Moodes belonging to the second Figure.

The 9 Chapter giueth examples of the fixe Moodes belonging to the third Figure.

The 10. Chapter treateth of a Sillogisme expository, shewing why it is so called.

The Contents of this Booke.

The 11. Chapter answereth to an objection concerning the three fi-

gures and Moodes belonging to the fame.

The 12. Chapter treateth of Reduction, and of the kindes thereof, & also of the fignification of certaine Consonants in the wordes of art seruing to Reduction.

The 13. Chapter treateth of Reduction by impelfibilitie, flewing vnto which of the perfect Moodes energy upperfect Moode is to be reduced

by impossibility.

The 14. Chapter treateth of a Sillogisme made in oblique cases, and

of the 6, habilities, and three defects of a Sillogifme.

The 15. Chapter treateth of a compound Sillogisme, shewing that it is threefold, that is, Conditionall, Copulatiue, and Dissurctive, and that the truth of a compound Sillogisme is to bee found out by reducing the same into a simple Sillogisme.

The 16. Chapter treateth of a Consequent, showing what it is, and of how many parts it consistent, and how it is divided, also by what meanes, and by what rules the goodnesse of a Consequent is to bee

knowne.

The 17. Chapter treateth of a Sillogisme demonstrative, shewing what it is, and of what manner of propositions it consistent, which propositions are here defined, it sheweth also the three properties belonging to the predicate and subject of a demonstrative proposition, and also sheweth what definitions Aristotle maketh of demonstration, and it defineth what science is, and thereby giveth example of a Sillogisme demonstrative.

The 18. Chapter treateth of the three things, whereon dependent the certainty of mans knowledge, that is, vniuerfall experience, principles, and mans naturall knowledge in judging of Confequents, shewing how principles are defined by Aristotle, and how they are deuided by the Schoolemen.

The 19. Chapter sheweth that the schoolemen do deuide Demonstration into two kindes, that is, eyther perfect or unperfect, wherein is declared what is to be observed in eyther kind of demonstration.

The 20 Chapter treateth of science, opinion, ignorence, wil and the

foure scientiall questions.

The 21. Chapter treateth of a Sillogisme dialecticall, shewing what it is, and of what kindes of propositions it is made, and what things are said to be probable: Againe it sheweth how the Schoolemen doe make the matter, whereof a Sillogisme consistent to be twofold, that is, Materia remota, and materia propingua, and what each matter containeth. And finally, it sheweth the difference betwixt a dialecticall proposition, a probleme, and a position.

The Contents of this Booke.

The 22. Chapter treateth of a sophistical Sillogisme, shewing what it is, and that it may be false three manner of wayes. Also in this Chapter is declared another kind of false Sillogisme, called Sillogismus falsigra phus.

The 23. Chapter treateth of Induction, shewing what it is; and what is to be observed therein, and that it is twofold, that is, perfect and vn-

perfect.

The 24. Chapter treateth of an Inthimeme, shewing what it is, of what partes it confideth, and from whence that kinde of argument is to be setched.

The 25. Chapter treateth of an example, flewing what it is, & wherein it different from all the other formes of arguments, and to what ende it ferueth, and what is to be observed in reasoning thereby. And finally from what places such argument is to be fetched.

The 26. Chapter treateth of an argument called Sorites, shewing how it proceedeth, and wherein it different from the argument of the Rhe-

toricians called Gradatio.

The 27. Chapter treateth of divers other kinds of captious arguments, and fifth of Dilemma, flewing of what parts it conflicts, and how many kinds of captious arguments it comprehendeth, which are their found, that is, Ceratins or horned arguments, Crocodelites, Affiftatons, and Pfeudomenons, every one of which is here defined, and example given thereof.

The 28. Chapter twateth of an argument called Enumeratio, flower

ing what it is, and how it is to be confuted.

The 29. Chapter treateth of an argument called Simplex conclusio,

shewing what it is.

The 30. Chapter treateth of an argument called Subjectio, flewing what it is, and that it differeth not much from Enumeratio before deferibed.

The 31. Chapter treateth of an argument called Oppositio, made of parts

repugnant,
The 32. Chapter treateth of an argument called Violatio, which is more freete to sonfute then to proue.

The Contents of the 6. Booke, which treating of Confutation contayneth fixe Chapters.

The first Chapter sheweth that Consutation is twofolde, whereof the one belongeth to the person, the other to the matter: and that of matter is deuided into two kindes, that is, generall and special.

The

The Contents of the Booke.

and the generall conflication is done three manner of wayes, that is; eyther by denying the Confequenc, by making diffinction, or els by instance, any of which three wayes, when it is to beyled, is here fee downe.

The second Chapter treateth of speciall consutation, shewing howit is done, and what order Aristotle obserueth in treating of special confutation, whose order is briefly here set downe, and first of an Blench.

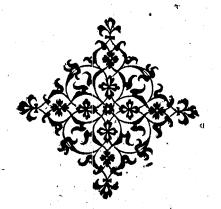
The third Chapter treateth of disputation, and sheweth how manifold it is.

The fourth Chapter theweth the 5. markes of sophistrie, that is, Reprehensio, Absurdum, Paradoxis, Solecismus, and Nugatio, with their examples.

The fift Chapter showeth that there be 13: fallaxes, whereof o do confift in wordes, and 7. in things, and first it treateth of the 6. fallaxes consalting in words, and sheweils how to confute the same.

The fixt Chapter treateth of the 7. fallaxes confifting in things, and sheweth by examples how to confute the same.

The





FIRST BOOKE OF

LOGIKE.

¶ Of the Art of Logike, and of the parts and offices thereof. CHAP. I.

Hat is Logike?

Logike is an Art which teacheth be to Dispute probably on both fibes of any mat-🕏 ter that is propounded.

Of what & how many parts doth it confife: Oftwo: that is, Inuention & Indges

Whereto ferue these parts?

Inucation findeth out meete matter to proue the thing that yee intend, and Judgement examineth the inatter, whether it be god of not:and then frameth, difpofeth, and reduceth the fame into due forme of argument.

What is the chiefe end or office of Logiker

The chiefe end or office of Logine is twofold: the one to diffulle truth from failhood in any manner of speech : the other is to teach a compendious way to attayne to any Art of Science: and therefore it is delyned of fome, to be the Art of arts, and Science of sciences: not for that it teacheth the principles of enery arte Di fcience (for those are to be learned of the Profesiors offuch artes Officiences) but because it theweth the methode, that is to say, the true order and right way that is to be observed in feeking to come to the perfect knowledge of any arce or fcience: of which methodi-

The First Booke of Logike.

call part infine old friend on lacomo Acontio Tridentino bath wife ten in the Latine tongue a berie proper and profitable treatile; and therefore I minde heere to deale onely with the first office, which is to bifeide and to bifcerne tructh from fallhobe in anis weech or question that is propounded.

How is that to be done

By three special instruments, that is, by Definition, Finision and Argumentation: whereof wee thall fpeake bereafter in their proper places:in the income time, because questions are f matter wherm Logike is chiefly occupied, we wil weak firft of a queftio.

Of a question, and of certain divisions of words. Chap.2.

Hat is a Question?

A Quellon is a speech whereof some doubt is made mo verered w fome interrogatogie, as Bow, mhat, oz mbether: and fuchquestion is either fimple of cohonno.

Which call you simple, and which Gompound

It is called fimple, when the Queffion confifteh onelic of one word, as when I albe what Auflice is, or what Fortitude is, and fuch like : and is to be discussed by befining and binibing the Came. It is called compounde, when it conlifteth of manie words toyned together by rnies of Brammer, co make fome perfect fens teceins when I afte whether it be lawfit for y chiffians to make warre bpon the Surkes of not: and fuch like queftion, which is to be discussed by arguing and reasoning on both lides: for Definition, Diufton & Argumentation, as I faid befoje, arcebe 3. efpeciall infiguments whereby Logike findeth out the truth inang boubefull matter.

Of what parts doth a compound question consists Dfewo,that is, the fubiect and the predicate. What meane you by these words subject and predicate?

The subject is the word or sentence, whereof another word or fentence called the predicate is ipoken; as when 3 fag, man is a fentible body: here this word man is finbiect, c fentible body is the predicate to; cathof them may containe manie worde, as this, Lobe learned in the law requirech a long findie, bere to be learned in the law, is the lubiect, and all the reft is the predicate.

How shall I know in long speeches, and specially being preposterouslie set, which is the Subject, and which is the Predicate?

By alking this question who, or what: for that which answer neth to this question is alwayes the Subject: as in this example, In were meete to learne my Brammer perfectle before I entred into my Logiche: heere if you alke what is meete, you thall finde that to learne my Grammer perfectlie, is the Subject, and all the

The First booke of Logicke.

reff to be p predicate. And note that thele two words, lubiect and Debicate, are faid to be p termes, limits, or extregine bounds of a Diopolition, whereof we thall fpeake bereafter.

. Sith everie question doth consist of words, me thinks it were neces-

fary to shew how words are divided.

Of words the Scholemen make divers and manifold bivilis ons, of which I minde heere to recrete but three only, whereof the first is this: Of words some be simple, with they call incomplexa, and some be compounde, which they call complexa. Simple of single words are such as are fole or senered one from another, not making any fentence, as man, horse, wolfe. The compounde are words toyned orderlie together by rules of Brammer, to make Come perfect lentence, as, Man is a lenlible bodie. And hercof the questions are said to be epther simple of compounds, as bath bene faid befoze.

What is the fecond division of words.

Df words some be of the first Intention, & some of the second.

Which are they?

words of the first Intention are those, whereby any thing is lignified or named by the purpole and meaning of the first author of inuctor therof, in any speech or language what sener it be, as ? beat wheron we commolie ryde is called in englift a horse, in latine, Equus, in Italian Canallo, in Frenche Cheual. words of the fecond Intention are termes of Arte, as a Rowne, Pronowne, Werbe, or Participle are termes of Brammer: likewife Genus, Species, Proprium, and such like are termes of Logike.

What is the third diusion of words?

Of wordes some be called individua, that is to say, particular ex rather fingular, and some be called universalia, that is to say, but ucrfall, common or generall.

Offingular & most particular words called Individua. Cap, 3.

THat is Individuum? Individuum is that which fignifyeth but one thing only and can be applied but to one thing only, as this name John, of Robert lignifieth but one certain mair and not manic.

How manie kinde of individuums be there?

Fowze, that is, individuum determinatum, individuum demonstratiuum, indiuiduum vagum, atto indiuiduum ex hypothesi.

What is individuum determinatum?

Individuum determinatum, that is to fay, certain of percemined, is the proper name of fomeone certain thing, whatfocuer it be, as Iohn of Thomas is the proper name of fome of one man: again

The First Booke of Logike.

Bucephalus in the proper name of great Alexander his horset and
London in the proper name of the chiefest cittle in England.

What is individuum demonstratiuum?

Individuum demonstratiuum, which is as much to say, as shews ing of populing, is a common word of name topned with a promoune demonstrative, to significatione one certaine thing onely, as whe we say this man, of that holsened individualments bemonstrative be more readic colignsic particular things, as well in accidents as in substances, then are Individual determinatation. This og That, and substances, then are Individual determinatation. This og That, and substances, when proper names often times do sayle, year the with the singer, when proper names often times do sayle, year the pronowne demonstrative is of such sore, as being sound to the most generall word that is, maketh it Individual, alwell as when it is sound to the most especiall, for this substance of this bodie is Individual, aswell as this man of that hole.

What is Indiuiduum vagum?

Individuum vagum, that is to say, wandering or bneertaine, is a word betokening some one certaine thing, but not certainly, as when I say, there was a certaine man heere to seeke you: by this speeche is meant but one man, a yet uncertaine who it was: and therefore to make the thing more certain, we vie to adde some to lien or mark, as we reade in the Acts of the Apostles, There was a certain man which was half & same from his mothers wombe, whome they saide daylie before the gate of the Temple &c. And note that like as we do vie individua, demostrativa, & determinate, in declaring things either prese, or certainly knowners in speaking of thinges absent or uncertainty knowner, were expressed our inpudes oftentimes by individua vaga.

What is individuum ex hipothesi?

Individuum ex hypothesi, that is to say, by supposition is a word which of his owne natural signification being common and whis mersal, is made notwithstanding by supposition a singular word and to signific but one thing onely: as for example, this word, the Some of Warie is a common terme, and yet by supposition is made to signific none but Chistonlic: likewise when we say the Breeke Boete, we meane none but Bomere.

Of words vniuerfall or generall. Chap.4.

Hat words are faid to be univerfall or generall Those words are faid to be univerfall which are spoken of many things, y is to say, which may be ap plyco

The First booke of Logicke.

plyed to many things, or comprehend many things, as this word animal (which is as much to lay as a forlible body) comprehence the

animal (which is as much to lay as a fonfible boby) comprehendeth both man, brute beath, filly, fowle, birde, and enerie thing els that bath feeling and moung.

How are fuch words divided?

Into Predicables and Predicaments.

Of the fyue Predicables.

Hat call you Predicables?
19 tedicables are certain begrees, or rather petigrees of words that be of one affinitie, the wing which comprehend more, and which comprehend leffe.

How manie such be there?

There befoue, that is to say, denus, Species, differentia, Proprium & Accidens twhich may be englished thus, generall kinde, speciall kinde, difference, propertie and accident. But we thinke it best to begin first with species, because it is next to Individuum.

Of the special kynde called in Latine, Species.

Hat is Species?

Species is a speciall kinde, which is spoken of many things, that is to say, it comprehended manie thinges differing onlie in number in alking the question, what the thing is: as when Aake, what is John? it is rightly answered to say, a man: for this word (man) is an vinice sall word comprehending both John, Thomas, Robert, and all other singular men.

How manifold is species?

Twofold:that is, infima & subalterna: infima, that is to say, the lowest of most especial kynde is that, which comprehended many thinges differing onely in number, and therefore can not be a generall kinde, as man, hoste, and such like special kindes: species subalterna is that which comprehended manie thinges differing in kinde, and in divers respects may be both genus and species, as these words, animal or sensible body, bird, fishifor this word bird, in that it comprehended divers kinds of birdes, as a blacke bird, a Manys, a Goldfynche, and many other kindes of birds, it is a generall kinder but in respect of these wordes, substance, bodie, or animal, it is but species.

How is species called of the Greekes?

It is called Idea, which is almuch to lay, as a common thape concepted in the mynde, through some knowledge had before of B 2

6 The First Booke of Logicke.

one of two individuams having that chaper to as after we have feene one wolfe arewo, we beare the chape thereof continually in our mynds, and thereby are able to know a wolfe whenfoener we finde him, of if needs be to paint him. But genus extendeth two far, a comprehendeth two many special kinds to be safily painted and note that such chapes of idex, are safe also to be perpetual.

Why are they said to be perpetually

Because they continue in the minde, though the things thems scale to have any breing: as the space of ixose continueth in our mindes in the cold have of winter, when there is no Rose in deede. And this is the evue meaning of plato touching Idex, that is, to be perpetuall in the minde, not separate from mans instelligence, as some men sayne: for uninevialities are alwaies to be complehended in mans minde, but not individua: which, hese cause they are infinite, there can not be had of them no certaine science of knowledge.

Of the generall kinde called Genus.

Hat is Genus?
Genus is a generall kind which may be spoken of matic chings differing in speciall kinde, in asking the question, what is the thing is, as if I aske, what is man or hoxe? It is sightly answered to say, animal: for this word animal comprehenders both man, hoxe, lion, a many other special kindes of beauty.

How is it divided?

Into two, that is, Genus moft generall, and genus subalternat.

What is genus most generally

It is that which in no respect can be species, as these, Substace, Quantity, Quality, and al the rest of the ten predicaments, which be the highest kindes comprehending all other kindes, and are comprehended of none.

What is that which you call subalternat?

It is y which in diners respects may be both genus & species, as these, animal of sensible body, some, tree, sithe, bird: which being compared to their superiors, as to substance or bodic, be specially kinders but if to their inferiors, as this word sensible body being compared to man of hode, or this word stone to a sint or Dyamond, or this word tree, of this word fish to a Salmon or Hickerell, or this word bird to a Samuys or Goldsinehe, and such like, then they be generall kyndes. The open of all which kinder, as well generall as subalternat, as also most especiall, you may see here in the table following, taken out of y predicant of Substance; in table, substance is y highest

The First booke of Logicke.

st most general kind, under which are placed the lette generall of the cial kinds, according as they be in degrees high or lowe, night of fave from lubtlance. Oposioner on each fide of the generall kyndes are let downe in this table, the differences whereby the laid generall kyndes are divided every one into those inferious kindes which it comprehendeth, and the like table may be made of all the rest of the species ments.

A Table shewing the order and degrees of generall kindes and especiall kindes, taken out of the predicament of substance.

Difference;	generall & spe ciall kindes,	differences	Examples.
with bodie	Subitance is cyther	or without	an Angell a Spirite. sthe foule of a man
of the 4, ele-	If with body, it is cyther		feparated from the bodie.
ments, as all naturall bo- dies and vns	Body copound	or fimple, as	the 11. heavens. the 4. Elements.
naturall. Lyuing	is eyther. Againe the lis	or valining.	ftones, metalls, liquors,
<i>i</i> 1	,	or vnfenfi. ble as	
	The fenfible body called in Latine Animal, is eyther		shrubbe, Fower footed
	is cyther The reasonable	nable as	bealts, creeping bealts, filh, fowle, or birde.
	bodie is man, called in lating		Sociates,Plato, &
	homo, which is a most especiall	ŀ	euery other fingue arman.

Of difference called of the Latins differentia.

VVHst je difference?
Ant. Bifference is that whereby thinges bot differ one from another, or any thing from it felfe.

How many kindes of differences be there?

According to Porphirius there be three kinds (that is to fay) communipapies; and mok proper or especial, calles of the Latins differentia specifica.

What call you a common difference?

A common difference is some seperable activent, whereby one thing differeth from another, of from it selfer as a hotte Man from a colo, of a man flanding from himself sitting.

What is proper difference?

A proper difference is some inseperable accident, whereby one thing differeth from another or from it selse, as the Swanne by whitenes differeth from the Lrow, the gray eyed man from another man that both blacke eyes, or from himselfe, as having now an dimoncable scarre in his sace, whereas before her had none.

What is the most proper differences

The most proper difference only received and allowed of the Logitians, is that which is spoken of many thinges differing in kinde or number, in asking the question what manner of thing any thing is, as this word reasonable or uncertonable: for if Aske the question what manner of thing any thing is, as this word reasonable or uncertonable: for if Aske the question what manner of thing as John, Chomas, or kichard, at it is rightly answered to say, a reasonable body. Likewise if Aske what manner of thing a horse is, it is truely answered to say an unreasonable body, so these be the most proper and especial differences, whereby men a brute beases doe differ one from another.

How manifold is the office of a Logicall difference?

Exosold, the oneso denibe the generall kinde hat his especial kinds, and the other to constitute of make the selfe same special kinds; wherfore such differences are subth divers respects to be sometimes dividine, and sometime constitutive, yea, a sometime both; as these differences, corporate and bicorporate, liking and billumg, sensible and bille, reasonable, a bineas somable, which in that they doe denibe some generall kinde into other kindses, either more speciall of not so generall, they may be called differences divising; but in that they constitute of make as

The First Booke of Logike.

1. Sup speciall kinde, as this difference reasonable beeing added to a sensible body, maketh the speciall kinde, man: such difference may be well called a difference constitutive, or rather specificative, as the some rable of generall kinds and differences, both plainty show.

What other devision doe the Schoolemen make of this Logicall

difference?

They say that of these differences some do extend surther their some, for some may be applyed to many speciall kinds, as living, and unliving, sensible and unsensible, and also the difference unsersonable, but the difference reasonable can be applied but to one special kinds only, which is man.

Of Propertie called in Latine Proprium.

Hat is propertied
It is a naturall inclination or propertie incident to
one especiall kinde, which is to bee understood source
manner of waics.

Shew how.

firf it is called Proprium, which is proper to one only kind. but not to the whole kind, as to be a poet of Bufftian is proper to man but not to enery man: Secondly, it is called proper that belongeth to al the kind, but not to that kind alone; as to be two= force, belongeth to al mankind, but not to that kind alone for al flying fouls are allo two footed: Thirdly, it is faid to be proper when it belongerh to one only kinde and to all that kind, but yet not alwaies: as to be hore headed or bald, is proper to man ur ald age, but yet not alwaics : Nourthly it is faid to bee proper or rather most proper, which is incident to one kinde alone, to all that kinde and alwaics, as to hauca naturall aptnes to laugh or to speake is properto man only, to enevie man, and alwaics, and therefore this kinde of propertie is faid to be connectible, with the kinge whereunto it belongeth, as whatfocuer hath naturals ly power to fpedke of laugh, the fame is man, and whatfocuer is man, the fame bath power to fpeake or laugh.

Of an accident, called in latine Accidens.

Hat is an accident?
An accident is a voice or worde lights a calual, cleaning to invitances or follows

The First Booke of Logike.

which subicces they have no being acall, and it is thus befined. An accident is that which may beablent or prefent without core Euption of the fubicit whereto it cleaneth, because it is no subflancial part of the subject, and of such accidents some be called fe= parable, and fome unseparable.

What is a separable accident?

A separable accidencie that which may bee casily separated from the subject, as ourward beate of cold from a mans body, Whitenes or blackenes from a wall.

What is an unseparable accident?

An unseparable accident is that which cannot bee separated from his subject in deede, but onely in thought or imagination, as heate from the fire, heanines from lead. And fuch accio dents be eyther incident to certaine lubicets, of lubilances in particular, as some men to be gray eyed, or red headed, or els to some whole kinde in generall, as to all Rauens to bee blacke, and all Swannes to be white.

Of the manifold vses of the aforesaid fine predicables.

TO how many vies doe the predicables ferue? To these foure necessary view: First they shew which words doe comprehend more or extend furtheff, and which comprehend leffe or leaft, and what affinitie is betwirt word and worde, fo as in making any definition, a man may callly perceine how energe word ought to be expounded one by another, (that is to fay) the lede common by that which is more common, as if you would Define a Spaniell you must fay that he is a dogge: for this word Dogge is a more common word then Spaniell, because it conprehendeth both Spaniell, Brayhound, Bound, Cur, Balliffe, and euerie other kinde of dogge : Secondly, they thew the na ture of propolitions which be necessarie, and which bee casuall or accidentall.

Which call you necessarie, and which casuall?

That propolition is laid to be necessarie, whereof the predicat is epther a generall kind, a speciall kinde, a speciall difference or propertie, and is necellarilic coupled to his subject, as when I lav John is a fenfible body, John is a man, John is reasonable, John is apt to fpeake.

When is a proposition said to be accidentall?

when the predicatis an accident, as when I fay John is learned

The First Booke of Logike.

fearned or unlearned, white or blacke : Thirdly, they peeld matter meete to make definitions and biuilions: for Logicall definis tions bee made of the nighest generall kindes loyned together, with their true differences or properties : as in defining a man, wee lay that man is a lensible body endued with reason, and in making divisions we either devide the generall kindes into their especiali kindes, as a sensible body into man and brute bealts, of the specialt kindes into their Induiduums, as man into John, Thomas &c. or els we denide subieces into their accidents, as of men fome be free, and fome be bound and fuch like: Fourthlie, they bely much towards the innention of arguments, for arguments be ferched from the common places as from the generali kinde, the special kinde, the difference, the propertie, and from 0= ther like places of invention, as thall be taught hereafter in his proper place, and note that of thele predicables do lying certaine predications, whereof we come now to speake.

Of Predication and of the divers kindes thereof. Cha.s.

Hat is predication? Diedication is a certaine kinde of phyale of speech, whereby one word is spoken of another, and aprile applied to another, as when we fay, John is a man, for this word man is a generall word, and is spoken of John, Chomas, Richard and enery other fingular man.

How many kinde of predications be there? Dwo, that is effentiall and accidentall.

What is effentiall predication?

At is a naturall & vinall kinde of freech, whereby one thing is naturally approperly spoken of another, or as the Logitians say, whe words imperiorare fpoke of their inferiors being of one felf affinity as when the generall kind is spoken of any his special! kindes, or the speciall kinds of any his Individuums, or when the difference of propertie is spoken of their specials kindes, of of any of the Individuinus comprehended under the faide speciail kinds, as when we say, man is a fentible body, or that John is a man, or John is reasonable, or John is apt to speak, or such like: for fuch speeches are both naturall and of necessitie, because the predicat is aprly applied to his subject. To this kinde of predis eation fome men doe also referre two other kindes of speeches.

Which be they?

Diet fation, 3 Denticall, and vnuluall.

What is Identicall predication?

It is a kinde of speech whereby one selle thing is spoken of the sellent, as when we say, John is John, which though it be essentially et because nothing is expounded, thereby it is not allowed of the Loginans.

What is vnvfuall predication?

At is a kinde of ipeech felbome vled, as when wee read in the boly leriptures. Bod is man, the word was made field, for these be most essential and necessarie speeches, though not visual in as my other sevence then in diminitie.

What is predication accidentally

Pachication accidentall is when an accident is spoken of his lubicer, as wine is fweet of wine is fower, Socrates walketh, for this is a calitall kinde offpeech, imploying no necessity as do the other ellentiall og naturall speeches befoge recyted. To this also may be referred predications by way of fimilitude, as when wee fay, one man is a Bod or dinell to another. A tyrant is a wolfe of Fore (that is to say) like a wolfe of Fore, which are otherwife called figuratine of metaphoricall speeches: But while wee talke bere of accidentall predications , it fhall not bee amiffe to thew you that the Schoolemen the more diffinctly to expresse the nature of accidents doe ble two termes Abstractum & Concretum. Abftractum is the bare thape of any subiccteleperated by Imaginacion from the fame: as the whitenes of blacknes of a wal, or any other things that is eyther white or blacke, which abstract cannot be properly spoken of his subiect, for it were no proper speach to say that this wall is whitenes, wherfore we must vie the adicitine called concretum, lignifying the Chape, together with the lubiect, as when we fay, this wall is white.

Of Predicaments. Chap. 9

Hat are Predicaments?

Desticaments are certaine titles of tables contelling all thinges that be in the world; for enery thing what some it be, is expire a substance of accident, and if it be a substance it is found in the table of substance hereaster following: if it be an accident it belonges beyther to quantity, quality, relation, action, Passon, time, place, to be send of to have. For these be the tables of accidents, in one of the which enery accident is easie to be sound; so that in all there be r. Poedicaments

The First Booke of Logike.

of tables, one of substance and nine of accidences, and these bee called the highest and most generall kindes, albeit there bee others in deede higher then they, called of the Schoolemen Transcendentia, (that is to say) surpassing, as these, Res, ens, vnum, aliquid, verum, bonum; which may be Englished thus, a thing, a being, one, somewhat, true, god: but forsomuch as these bee not spoken of the other higher kindes according to one selfe signification, but may be diversly applied, they are excluded from the other of specialments.

What other words are excluded from the order of Palicam

All compound words, called of the Schoolemen Complexa, as awdinan. Place disputeth; and all doubtfull words having biners fianifications otherwise called Equinokes, and also tearines of Art, as a Boune, a Pronoune, a Merbe, which bee tearmes of Brammer, and as genus, species, differentia, which bec tearmes of Logike and such like: which tearmes of Art are called of the Schoolemen, names of the second intention as hath bin faid before. Rotwithstanding differences constituting electral kinds Doe belong to the Predicament of the same special kindes, " the parts of any whole thing doe belong to the Predicament where in the whole is contayned: and first, principles do belong to the predicament or table of those thinges whereof they be minerales. as a point of pricke belongeth to the predicament of quantity all which thall be plainely declared but o you immediatly after that we have somewhat talked of those things, which the schoolemen sall antepredicamenta (that is to fay) forepredicaments.

Of forepredicaments. Chap. 7.

Hat meane you by forepredicaments?
Forepredicaments be certaine definitions, divisions, and rules taught by Aristotle before the president and therefore are called antepredicamenta (that is to say) fores predicaments.

What, and how many thinges defineth he

Thice, that is, Equinokes, Uninokes, and Denominatines. What call you Equinokes?

Equinokes be fuch things as have one felse name, and yet be bluers in substance or definition, as a naturall dogge, and a certaine flave in the firmament are both called by one name is Latine Canis, yet they be nothing like in substance, kinde or nature,

01

an

a note i the scholemen do call the word or name it self Equivocum Equinocans, and the thing lignifed by the word Equinecum, Equiuocatum. Chey make allo two kindes of Equinokes, that is @= quinokes by chance, and equinokes of purpole. The first is whe one felfe name is ginen to many things by chance, and not for as ny likenesthat is betwirt them, as in English this worde bare fignificth as well the bart of a man or beaft, as a certaine beaft called a Bart in the Porced. The fecond is when one felfe name is given to divers thinges of purpole, for some likenes that is betwirt them, as a painted man is called man as well as the liuing man, for we will commonly fay, here is King Benry the eight, when indeed it is but his picture : but yee minft note that all Equinokes being generally pronounced without addition, ought to be understood according to their chiefe and most princia pall fignification, as this words man being generally spoken, ought to be taken for a liuing man, and not for a painted man: but no equinokes ought to be placed in any predicament, neither can it be defyned bulelle it be firft brought to one certaine fignis fication, and therfore all Equinokes are veterly barred from al manner of Discipline.

What call you Vniuokes?

Eniuokes be those things that have one common name which is spoken of them estentially, or really, as a man, a borte, a Lyon, whole common name is Animal, og lenfible boby, fog in afking what cyther of them is, it is rightly answered to say Animal, And May, here really, because it is not enough for Uninokes to have a common name, bules the same be also reall or essentiall, wherby are excluded all common names or understandings that bee accidentall: for though white or blacke, fwift or flow, or frich like is a common name, and is commonly applied both to man and beatt, perthatis accidentally, and not really or substantially: Moreover the Schoolemen doe call the common word it felfe Vniuocum Vniuocans, and the thing fignified by the word Vniuocum Vniuocatum.

What call ye Denominatives?

Denominatines arc thofe accidents that be of like name, and Differ onely in case or finall termination: as humble, humilitie, Proud, proudnelle: for of humilitie aman is faid to be humble, & of pride to be proud, and according to the Schoolemen, that word whereof the name both fpring, is called Denominator, & the name ie felfe Denominatine, a the thing or perion fo called, the Denos minated, as if I Chould fay, of valiantnelle Peter is faid to be va-Mane: here valiantnes is the Denominator, valiant the Denominatine.

The First Booke of Logike. minatiue, and Peter the Denominated : for Peter is the lubiect whereunto the Denominator Doth cleave. The Brammarians Doe call the Denominator Abstractum, that is a lubstantine , & the Denominatine Concretum, that is an Adiective.

To what end doth Aristotle chiefly vse these definitions?

To thew the differences of predications or kindes of speeches, which are to be allowed, and, which not: againe to know which be predications elentiall, and which bee accidentall: for accorbing to the three definitions before rehearled, there be three predications, that is to lay, predication Equinocal, uninocall, & denominatine.

What is predication equinocally

Predication equinocall is when the equinoke is spoken of as my of the thinges that it lignificth, as to lay , his Letter was a Letter of the matter meaning perhaps a hinderer of the matter, but such kinde of speeches ought to be refected from all good dilcipline, as bath bin lavo before.

What is predication vniuocall?

It is when the generall kinde is spoken of his especiall kinds, or the especiall kinde ofher inferiors, or the speciall difference of that speciall kinde which it maketh, or of the Indiusoums contained bider the fame speciall kinde, as when wee fay, man is a fenlible body, man hath reason, 02 John is a man.

What is predication denominative?

At is when some accident is spoken of his subject, as when we lay, Peter is proud, humble or valiant.

What and how many denisions be there?

Two, the first division is conching worder simple and compound, whereof though we have fair fomewhat before, yet it shall not griene be heere agame to fet it downe in fuch order as the Logitians vie.

Shew how?

Di wordes some be simple, called in latine Incomplexa, and some te compound called Complexa. Simple wordes be diffinct and feuerall words notice together by any rule of Brammer to make any perfectientence, as good, inft, a man, a hogie, to fland, to go: Compound words be words fignificatine, which are toyned together by rules of Brammer to make some perfectientence as John is learned.

What is the second deuision?

The fecond denifion is foure fold as followeth: first of things that be, some be spoken of a subicce, and yet bee in no subicce : as man, bogle, and fuch like universall natures or substances: for they be no accidents: Secondly, some be in alubicet, and yet be

not spoken of any subicce as all particular accidentes, as this or that colour, for these be Andiulbununs, and therefore not predicable: Thirdly some be in a subject, and also be spoken of a subject, as all universal accidents, as Science, Brammer. Logike and such like sor of these some be general, some be special kinds and therefore are said to be predicable accidents: Fourthly, some be neither in a subject nor spoken of a subject, as sohn, Thomas, this man, or that man, this hope or that hopse, for these be fire natures or substances, and therefore are subjectes themselves not predicable.

Whereto serueth this division?

By this division yee may learne the diversitie of these two speeches, to be spoken of a subject and to bee in a subject: for to be spoken of a subject is to be spoken really or essentially of some thing that is part thereof, as this word animal or sensitive body is really spoken of man, horse, a of every other thing that hat life, and feeling, for they be substantiall parts of that general kinds, for if it be demanded what a man or horse is, it is rightly answered that he is a sensible body: but to be in a subject is to bee spoken of another thing accidentally, and not essentially, as this word white or blacke is spoken accidentally of man, or of any determined their and not essentially, and not really and so white, nor white any essentially part of white, nor white any essentially part of man, and therfore cannot be in man or in any other subject but accidentally; and for that cause it is spoken of his subject accidentally, and not reallie.

Now tell how manie, and what those rules be, whereof you spake

before,

There be two rules, the first is thus, when one thing is spoken of another esentially as of his subject then whatsoever may be spoken of that predicat, must needed be also really spoken of the same subject: for as this worde sensible body is spoken of man or horse essentially, as when we say that man is a sensible body; so this word living body, being spoken essentially of a sensible body, as when we say that every sensible body is a single body, as when we say that every sensible body is a single body, is also as really spoken of the social subject man, in saying that man is a living body, so this worde living body is a more generall kinde then sensible body is.

What is the second rule?

The fecond rule is thus, divers generall kindes not contain ned one of another, not both of a third have divers speciall differences which doe make divers speciall kindes, as a sensible body and science, for the special differences of a sensible body are these: reasonable, and unreasonable, making both man a brute beat:

The First Booke of Logike.

17
beall: but the differences of science be these, contemplatine & disputative and such like, wherby are made special kinds of knowiedge: so, the difference contemplative maketh natural philoslophie, and the difference disputative maketh Logike.

To what end ferue thefe rules?

To the end it might be easily knowne what words are of affinity, and which be of one selfe predicament and which not: Thus farre as touching forepredicaments, now to the predicamentes themselves, and first we will speake of substance.

Of Substance. Chapter 8.

Hat is substance, and how manie kindes of Substances bee

Sublance is a thing confiding of it felfe, and nec= beth no bely to fultaine the being thereof: and yet it is clad with activents, for otherwise we could not differne with our outward Unles, whether it were a lubitance or not, for wee cannot fee the liblance of any thing with one bodily eyes, but omely with the eves stout minde and vinderflanding, but we may fee the flave. the quantity, the colour and fuch like accidences cleaning to the substance, without the which those accidents have no being at al. and therefore in feeing fuch accidents, we may affare our felues that there is a substance sustaining those accidences which both alwaies remaine though the accidents doefaile of change neuer looften. As for crample, we fce in water that though it be fome= time hot, and fometime cold, now of one colour, and now of ang. ther, yet the substance of water both still remaine, so as wee may perceive those accidents to be one thing, and the substance of was ter to be another. Row as touching the kindes of substance aca tolding to Arifforle there be two, that is, first and second.

Which call ye first substances?

Firk lubitances be those substances which the Logitians call Individua, as John, Thomas, this man, or that man, this horse or that horse, a by reason of their accidents are to bee discerned with outward lenses.

Which call you fecond substances?

Second lublances are those which they call special kindes, & general kindes, as man, a sensible body, a hung body, and such like, which are to be comprehended only by mans reason: And be not subject to our outward senses as first substances be, & these D second

or watry craine, haile, fnow.

18 The First Booke of Logike. second substances aresorte ruise catted of the Schoolemen but-

How many properties doe belong to substances to Thefe three, firft lubitance is contained in no lubicet, as an accident is, for though the parts of a mans body be contained in the whole, yet enery fuch part is a peculiar body of lubffance, & hath bis proper being of it felf e lo wellas the whole, whereas actibents without lubftance boue no being at all : Decondly , lub-Cances are faid to be Diverle, but not contravie one to another, for neyther is fireas touching his lubffance contravic to water, no? the wolfe contrary to the Lambe, but onely in respect of their quality, whereunto contrariety both property belong : Thirdlie, of lubftances one cannot bee more of leffe then another , for the greatel Biant as touching lubflance is no more a man then the fraft dwarffe that is, neyther is a man full growne moje a man then a chilo newly borne: for more or lette apperrameth broperly to quantity and not to lubitance. But if you will buderfland how far the Pedicament of lubftance both extend, and what it comis prehendeth, confider well this table following, wherby you may learne bow to befre any kind of inbitance whatforter it be , for torte pou hall linde all the kindes both generall and ipeciall toe atther with their Differences moft plainely fet forth. শ্বিতি হৈ সালগতে যা ১ টেগুলার .13:12" D. att "

The Fifft Booke of Logike.

The Table of Substance (without bo can Angell, as Gabriel, Michael, &c. dic as A spirit or soule seperate from the body, as C the spirit or soule of this or that dead man. Celestiall as the cleauen heavens, and all the starres and planets. Simple if it bes 1 fire. fimple aire. it is ei . or elementallas Water. Substance ther l carth. is cyther. Clenfible, Creafo-CSocrates. if it bee a i nable Plato. . fen fible as mã Virgill. body cal= (la bird or foule, as a led in la-4 Larke,&c. tine anior vn a foure footed beaft, mal, it is liuing or with boreafo. as a horfe. cyther. ifit be. dy, if it be (nable) a fish, as a Salmon, living with bodie a creeping beaft, or cos litis ei it is eyther. asa worme, pound | ther. la snake, a viper, if it be or vnlenfible as a Catree an oke an comas Zapplettee &c. pound plane litis ei. S which is ther. cyther. Shrub 2 briers. as broome, &c. or ynliuing, perfect, if corb Thime, Ifope, Marif it be vnlifectitie. uing it (metall / gold and filuer, &c. cither. iscither naturall as a Preci-I stone lous stone, a flint, or which artificialfas a tile or isei. bricke ther 1 1 May 1 Cor liquor as wine, hony, &c. fect as fiery im- Cthunder pressions lightning.

Of Quantitie Chapter 9.

Hat is quantitie, and how is it divided?

Disantity is that which comprehendeth the greatness and individue of thinges, and is beunded into two kinds, that is whole and broken.

What is whole quantitie?

whole quantity called in latine quantities continue, is that whole parts are to predicted with some common bound of liminity which is the ending of one part, and the beginning of another, as the parts of the line here set downs in the margent, marked with the letters a.c. are coupled together with the middle point Cb. which point is the ending of a,b, and the beginning of b,c.

How many kindes of whole quantity be there?

Df whole quantie there be three kindes, that is, linea superficies, and Corpus.

Show how they are defined and deuided?

Linea in English a line, is a length without cyther breadth or thickness, which is eyther right or crooked, right as a yard, au ell or noie, crooked as a hoove or circle.

Superficies (which we may properly interpret to bee the upper face of any thing) is a length and breadth without beuch or thickenes: a that is cycher plaine or bowing, plaine as a plaine or finooth flore, bowing or compatting as a vauk or onen, where of the outward lide is called connect, a the inward lide concane

or hollow.

Corpus, which is as much to lay as a body, is that which hath both length, becabth, and depth, and that is either rounde or with angles, round as a bowle or ball, with angles of counces, as a figurate die, or fulfilike thing. All which three kinds of quantity are to be conflicted only with the minds mathematically as thinges ablitract and leparated from all kinds of matter, (that is to lay) as thinges that have no being at all, but imaginatualle, eyet in necessarile invented by man, as nothing can be measured without them. To these three kinds of whole quantitic may be also added two other kinds (that is to lay) moving, and time being taken for the measure, space, or distance of place or time whereim any thing is moued.

How many kindes of this mouing bee there, and which be they?

wrthis moding there be three kindes, that is right, circular, and mire: The right belongeth to the four elements, and to bodies without life: for their natural moding is exiber right byward, or els right bownward, as the five whole proper most ming is alwaies to aften by high bown paward of a fione, or luch like heavy thing is to fail right downeward according to the rules of ishilosophy all light thinges boe move byward, and all heavy thinges bowneward: Liccular or round moving belongeth to the heavens and celestial bodies, which doe turne round like a Lart wheele: The mire moving (that is to lay) partly right, and partly round, belongeth to all living beastes, that goe sometime sofward, sometime backeward or sociolong, sometime byward, and sometime downes ward.

How is time deuided

Time is decided into three kindes, that is, into time palf, time present, and time to come, and under time are comprehended yeares, monethes, weekes, dayes, howes, and all other wordes signifying distance or discrence of time.

What is broken quantity?

Broken quantitie called of the Latins quantitas discreta, is that whose parts are not sound with any common bounds of liminit, but be soofand several one from another, which quantitie is decided into two kinds, that is number and speech.

What is number, and how is it depided?

Rumber is a multitude of lumme of brities of ones gathered together, and such number is epther simple, respective, or sigurative: Simple, as, two, three, soure, sine, so. Respective as halfe, bouble, treble, quadruble, and such like: Figurative as a three square or soure square number, like to these here sigured. : : and such like.

What thinges are comprehended under broken quantitie?

An name of measures whereby we measure any thing either drie of liquid, as gallon, quart, pint, bullyell, pecke, pound, dram, securite avaine, ac.

How is speech here taken?

Speech is taken here for the measure or quantity of sillables, whereof some beetong, and some be short, and such quantitie is to bee considered cyther in harmonic, in rithme, or verse, of which thinges the generall and special kindes together, with the rest that have but said touching quantitic are orderly set south in the table of quantity here following.

What and how many properties doe belong to quantitie?

D 3

bnequali.

The First Booke of Logike.

- The Table of Quantitie.

(A line Cright as a yard, an ell. which is ei= Or crooked as a Permanent | ther. hoope, or bow, &c. lif it be pera superfia Cplaine as a smooth flourth, &c. manentit cies which for bowing as a vaule swhole if it is cyther, iseither,) or ouen,&c. bee whole it is either. or a bodie Cround as a bowle or ball. which is els or with corners, as a ther. or with corners, as a or mouamotion ble, if it be which is cia Circular, moonable or mixt. ther, it is cyther, Quantitie or time & Stime past, that is eyz time present, is cyther; (ther. or time to come, Number C Simple as euen or od &c. which isci-Respective as double, treble, & ther. Or figurative as three corne. to T'C red, foure cornered, &cc. In composition of sillables, as or broken Dactilus, Spondeus, &c. if it be bro. In harmony, as a third, a fift, &c ken'quans or measure In rithme as charme, of speech tity it is eiharme. which conther. fifteth cyor in verse, as hexamiter, pentas ther. miter, lambicke.

· Beautiful Company

but only by way of comparison: secondly to be greater or lester, but not more or less spoken aductivally, for a little quantitie is a quantity as well as the greatest quantity of all: The third and chiefest propertie of quantity is to be equal.

The transfer of the state of th

4 ...

Of Qualitie. Chapter 10.

Hat is qualitie?
Anality is an affection, thape, or forme of the mind or body, whereof the thing to affected or formed taketh his name t, as of wifeborne a man is faibe to bee wife, and of inflice he is called inft.

How many kinds of quality be there-

De quality there be foure kindes, that is, habit and disposition, naturall power and impotency, passion and passible qualitie, sigure and some.

What is habit, and how is it devided?

Dabit is a conflant and absolute perfection in any thing not given by nature, but gotten by long vie and exercise, and it is ewosolo, that is of the minde and of the bovic: Agapure habit of the minde is ewosolo, whereof the one is called intellectuall belonging to the reason and budersanding of man, and the other motall belonging to the will of man. Of intellectuall has bits according to Aidcole there be fine, that is, Intelligence, Science, Hundence, Arte and Sapitnee.

1 Intelligence is the knowledge of perulative principles, as 2. and 2. make 4 the whole is more then his part, take equal from

equali and equall remaine and fuch like.

2 Science is the kniowledge of true conclusions, consisting of most certaine and infallible propositions as man is a schildle body, man is apt to learne, and winder science are comprehended the sciences varionally as Brainmer, Abetorike, and Logike: Also the science Mathematical, as Arethmetike Browners, Musike, and Astronomic, which are otherwise alled quarry divides that is to applied the science wises of white of individuality Discipline, and finally the science phissall chat is to applied that is to applied the science of Arctical chat is to applied that it is so applied to the science of the scien

3 Pouvence is an habit working with true indgement, and according to right reason in allibinges apperraining to man, bee they good of entil: Pouvence may be deuted into Pouvence montaili, domesticall, and politicall: Monastical teacheth to gourne one sole person: Domestical to governe a boushold of family, and political to governe a common wealth.

Arte

4. Arte is an habite of knowledge confishing of assured and certaine rules, tryed and approved by experience, and learned by exercile, teaching to doe of to make something that is prositable to mans behosse, and Art comprehendeth all arts, both liberall and mechanicall, that is to say, handie crasts. S. Sapience consisting both of intelligence and of science, is the head and chiese of those knowledges that be most honorable in Mature, comprehending two notable Sciences, that is, the Chissian Divinitie, and the Philbiolophers Divinitie, otherwise called Metaphysicall, that is, supernaturall. And all these intellectuall habites are consapred bunder a certaine and most sure knowledge, which is alwayes true, so mectaine knowledge is sometime true, and sometimes salse; where belongeth opinion, suspicion, coniecture, and such like. Thus much of habite intellectuall.

What is morall habite, and how is it divided?

It is a qualitie of the minde gotten by custome and bottrines teaching and inviting mans will to worke, eyther well of ently and is twofold, that is, eyther god of entll: to the god belong at kinde of vertues, as Justice, liberalitie, fortitude, temperance, ac to the entil all kinde of vices, as pride, conecournes, cowardlines and such like. And note that of vertues, some be called morall, and some theologicall, that is to lay, dinine.

Which call you theologicall or divine?

Those that be not gotten by custome or mans industry, but are the meere gifts of Bod, as faith, hope, and perfect chartie, and all other gifts or the holy Book, as the gifts of the rougues, of prophetying, of healing, and such like: which some do attribute to habite insused, making a difference betwire habite insused and habite acquired or gotten, as you may see in the table following.

What is habite of the bodie?

Dabite of the bodie is a certaine aptness and agilitie of boing any thing with the bodie, not given by nature, but gotten by custome any exercise, as to vyde well, to run, to leape, to bannee, to wieffle, to showe? to sence, to barr, to swyin, to write, to paynte, and such like.

The First Booke of Logike. The Table of Habite

To fence, Intelligence. Of the box Grammer. To dare. dic. as ratio-To shoote, Logike, nall, as CRherorike. To wrestle. CFaith. C Arithmetike Infuled Science Hope, Geometrie. mathes which maticall Musike,
Astronomie. Charitie, is Know. ledge cer-C Knowledge of taine, if it Physi.) the secrets of be certain call, as Nature and of the Soule. it contaior of the meth the f mind, if it intelle&u-C Monasticall. be of the Prudence) Domesticall al habites Intellec= mind,itis. Politicall, which are tual, intel before de- l is evither eyther leftual co fined that before defined. prehedeth CHusbandrie, Libeboth rall,as Architecture. Art is Or mes (Taylors craft; eyther chani- Shoomakers craft call, as Ccarpenters craft. and Sapis (Christian Divinitie, and or acquyece which) also philosophers Diuired, if it nitie, Otherwife called contain= beacquist Metaphysicall and fueth both pernaturall wifedome. red it is eyther and knows (Opinion, ledge vncer ? Suspition, taine,as Conjecture. vertue Inflice, CTemperance &c. crashe boldnes, or Morall, by excelle which com Prodigalitic. prehendeth and vice (both which is Cowardlines. Cheper by defeat Conetoulnes.

What is disposition, and how is it divided?

Disposition is an habite begun, but not persited, and it is eyether of the body of of the minde: for to disposition may be referred whatsoever was before attributed to habite (persection in the thing only excepted) in which they differ for lacke of continuance, by reason whereof, Disposition is said to be casily removed, but habite not so, because it is throughly grounded as for example, of the disposition that a man hath to learning, he is said to be studied our between the continual subject of persect habite gotten by continual subject in learning, be is said to be learned, which importeth a persection, which is

The First Booke of Logike.

Of naturall power and impotencie, the fecond kinde of Qualitie.

Hat is naturall power?

It is a naturall habilitie to doe, to luffer, or to relift, not gotten by evercife, but given by nature to the mind or bodie: to the minde, as to have a god witte or memorie, to be apt to learning, and such like: to the bodie, as to be healthful, nim=ble, Arong, and such like.

What is naturall impotencie?

moze then a Disposition.

He is a natural weaknes either of the mynde of body: of the mind, as to be bull of witter to be forgetful of vinapt to be taught, and fuch likerof the bodic, as to be ficklie, to be weake and feeble, and vinapt to luffer any thing that an hable body can do of luffer.

VVhat is comprehended under this second kinde of qualitie? To this kinde may be referred all the naturall powers and impotencies of the soule begetative, sensitive, and intellective: also all naturall powers of between of hearbes and stones, and the naturall influences of the heavens, starres, elements, and of all the superiour of poper bodies. All which thinges you may see playnelle set softh in this Table following.

Of Passion and passible qualitie, the third kinde of qualitie.

T Hat doth the third kinde of qualitie comprehend? Pallion and pallible qualitie. VVhat is Passion?

At 18 a lodaine motion of the minde or bobie that endureth not tong, and therefore calle to be remoued: iallion of the minde is a fodaine feare or toy conceined of some euill or good that is offered: and of the bodie, as palenes of colour, bluthing of trembling of the flesh.

VVhat is passible qualitie? It is an inueterate affection or motion of the minde or bodie not eafie to be remoued: of the minde, as madnes growne of fome continuall forcow or melancholic of the bodie, as blacknes of the

face by continuall boyling hears of the bloud, or valence by continual ficknes of the bodie: and therefore pallible qualitic is contparco and likened to habite, and fodaine pallion to disposition.

What is comprehended under passible qualitie? All the objects of the fine outward lenfes, as colours, light,

brightnes, which be the obicces of the light, founds, boices and novices, the obiects of bearing: lauours the obiccts of talling: 02 pours &fincles the obiects offinelling:tangible qualities, which be the obiects offeeling: of which tangible qualities fome are faid to be firft, and fome lecond: the first betbele, beate, colones, moists nes, dipnes: the fecond be harones, foftnes, heavines, lightnes, roughics, finothnes, and fuch like.

Which be the chiefe passions or affections of the minde? The chiefe affections be thefe fowre, joy, luft, forrow, feare.

How is Ioy defined, and what good or cuil braches do spring therofd Hop is a sweete and velectable motion of the beart, wherewith it is fliered and pelighted whill it enloyeth some good that is prefent, or at the least, seemeth good: and hereof springeth belight, boafting, maleuolence, reiopfing at others mens euill.

What is luft, and what affections doe spring thereof? Luft is a motion of the minde fliered by by thinking of some god in deede, of feening god that is abfent, whereof doc ipinge thefe affecions, bope, defire, toue, anger, wrath and hatred.

VVhat is for ow, and what affections doe arise thereof? At is a greeuous motion of the heart cauling it to flyinke to: gether

C Health. Of the I hardines. body, as Inimblenes, ftrength. principal Nutritiue, Naturall power is eyther Augmentatine Power vegetatine Generatiue. is eyther C Attractive. or adius Immutatiue, Luant, as Retentiue, CExpullinc. Common fenfe. or of the Interi. Phantalie. minde.if Compres or, 85 Memorie. it be of \$ henfine Sight, minde, it Power. which is Hearing, is either fenfitiue. cyther exteri. Smelling, is cyther 01.48 Tafting, Feeling. Concupifcible or i. Appeti= rascible, whercof ormotive tiuewhich | fpringe all the perwhich is is cyther turbations & paffi= eyther ens of the mind, as Lloue, hate, wrath. c to goe, progrefs to flie, (fine,as C to fwym, Speculas Cto contemplate, or power intels tiue, as to vnderstand. lectine, which to will, is eyther costq 10 tonill, tiuc, as to command. (to chuse.

cOf the bosCto be ficke ... Naturall impor dy as to be weake. Cto be feeble. tencie is eyther Or of the to be forgetfull. minde as Ito beynapt to be taught.

Of

The First Booke of Logike. gether whilst it Apeth some present eutil, that is eutil indeede or feemeth cuill: and hereoffpingeth thefe affections, enny, flaundes ring, mercy, agony, lamenting, calamitie, carefulnes, gricfe and deliveration.

What is feare, and what affections doe ryfe thereof?

Feare is a grieuous motion cauling the heart to Quinke toges ther whill it flieth fome euil that is to come: and bereoffpringeth thele affections, beauines, Chame, terroz, fownding and lich like: all which thinges you may fee briefly fet forth in the Table next following.

> The Table of Passion and passible qualitie.

Luft. Ofthe mynde,as Sorrow. C Fearc. Passion is eyther C Sodaine palenes. Sodaine blushing or of the or trembling of bodic, as the flesh. All the inuctorate passions both of minde and body before set down, Passible Colours, qualitie of the fight, Sounds. containeth of hearing, and also all Odours, of fmelling, the objects the objects Sauours, ofrasting. of the fiue Tangible of touching Senfes, as qualities. or feeling.

Why are these objects of the senses called passible qualities? Because they make the fenles to luffer as the colour of any thinge by ftriking into the Eye maketh the fight to fuffer, and equierh eicher plegiure of griele to the light: to littewife the fweet-

The First Booke of Logike. nes of bonie in friking the talle belighteth it: and contraringle the bitternes of gall of fuch like thing endued with a bitter fauor offendeth the tafte.

Of figure and forme, the fourth kinde of qualitie.

Hat difference is betwixt figure and forme? figure according to some, is that which is enclosed with one bound of limite, or with manie, as a circle enuyzoned with one round lyne called the circumference, ozas a triangle or foure-lauare figure, whereof the one is enclosed with 3. lynes, and th'other with foure, and fuch like: but forme is the drawing or describing of the laid figure. Againe, according to the opinion of fome, figure is compared to an image representing fome lively thing: and forme is faid to be the due proportion and feature of the fame. Some againe doe attribute figure to thinges without life, and forme to things that have life, brieffie fet bown in this verse following,

Formam viuentis, pictidic effe figuram: englifted thus, The chapes of painted thinges they figures call,

But living thinges they lay are formed all. What doth this fourth kinde of qualitie comprehend?

Accomprehendeth the accidentall figures and formes, as well of naturall as artificial thinges: of naturall, as the thave of man. beath, or fowler or artificiall, as the frape or figure of a house, temple Chip, or luch like: allo it comprehendeth all Beometricall figures as well perfect as onperfect.

Which call you perfect?

Those that are enclosed within such bounds as nothing can be added of taken away from them, without marring of altering the fame, as a circle, a triangle, a fquare, and fuch like: whereof forme are plaine enclosed only with lines, as circles, triangles, squares, and fuch like: and some are folio or whole bodies enclosed with poper faces cyther one or manie, as round ipheares, farpe py= nacles, cubes, as a dve, and round willers.

Which call you vnperfect>

Those which are not so enclosed with their bounds, but that fome one thing may be added or taken away from the fame without changing or altering of the figure, as the rightnes, roundnes, concaulty of convertey of biperfect figures may be lengthened or Chorened, and per the former Chane thereof Chall Will remaine, and not be altered, but onelie in quantity.

33

The First Booke of Logike.

A Table of figure and forme.

A perfect circle. of Isonleurus Hofceles a trian• gle where | Scalenon Plaine Ambligonius of there be 6. kin- | Oxigonius Perfect is des, Orthogonius. A perfect fauare cyther A long fquare a quadrā A fquarclike to a gle, as Thornbacke, cals Figure and led Rhombus. forme is eyther or having mas Cafigure of c Iny angles, as 36 or 7 angles or more. or folide, (Sphericall which is \ Pyramidicall Cubicke, or piller like, Right Or unperfect, which Circuler is cyther Conuexe or Concaue.

But the true descriptions of all the figures contained in this table are to be learned of the Beometricians, and not of the Localisians.

Of the properties of Qualitie.

HOw manie properties doe belong to Qualitie?
Three. First to be contrarie, as vertue is contrarie to vice, heate to cold, white to blacke: yet such contrarietie belongeth not to enery kynde of Quality, for Triangles be not contrarie to Squares, nor round pillers to sharpe pynacles.

What

What is the second propertie?

Eo be moze of lelle, for one man may be more vertious of lelle vertious, more learned of lelle learned, more healthstall, of lelle healthfull, more of lelle, botte of cold, yet this propertie belongeth not to enery kinde of qualitie, for one triangle is no more a triangle then another: the like may be faid of the rell of the perfect figures, alwell plaine as folide.

What is the third propertie?

To be like of valike, and this is the chiefest propertie belonging to everie kinde of quality, as two Brammarians be like one to another in their profession, two healthfull of vahealthfull, two white of two blacke, two triangles of two squares are said to be like of valike one to another.

How define you likenes or vnlikenes?

Likenelle according to Boetius, is when divers thinges have one felfe qualities bulikenes is when they have divers qualities.

Of Relation, Chapter 11.

Hat is Relation?

It is the referring, comparing or applying of one thing vito another for some respect of affinity or income where wherewith they are unit so together, as the one cannot be well understood without the other: and therefore the things so compared are called Relatives, or rather correlatives, so of thinges some arcsaid to be absolute, and some respective or relative.

Which call you absolute?

Absolute are those which may bee biderstood by themselves, without being applied to any other thing, as substance, quantity, qualitie.

Which are said to be relative or respective?

Those that cannot be well understood of themselves without having relation to some other thing, as the father and the some, the Lord and the bondman, the Master and the Scholler, so. Here note that of the schoolenen the thing strong which the application is made, is called in latine fundamental, in English the solution is made, is called by the recurrence the relation or application is made, is called in latine terminus, in English the bound, end, or tearme, as in these Correlatives, the Father and the Sonne, the

Lorde and the bondman, the Schoolemaster and the Scholler: Bere the Father, the Lord, and Schoolemaster, are called energe of them fundamentum, but the sounce, the bondman and scholler, energe of them is called terminus, that is, the end of tearme, and the application of the one to the other is called relation.

How many kindes of Relatiues bee there?

Ewo: Relatines fecundum effe, that is in beed, and laclatines fecundum dici, which we may call relatines in name.

Which call yee Relatives in deed?

Those which according to their principall signification have relation to some other thing, without which they cannot bee onsection, as a father is not to be understood without there bee a Sonne, not a Sonne untelle there be a father: the like may bee said of a Tutoz and pupil, the Master and his Schotler, and such like.

What call yee Relatives in name?

Those that according to their principal signification may be buberstood, without having Aclation to any other thing, and yet because in some respect they have relation to som other thing, they are called Aclatines, but not properly, for they differ not from the absolute thinges before defined; as berrue, vice, habit, disposition, ac.

What other division is there of Relatives?

Of Relatives some are laid to be of one selse name, and some of divers, of one selse name as like, bulke, equall, bnequall, schooleschow, neighbour, a such like of divers names, as the father the Sonne, the Lothe and bandman, as, And of such some be more worthy, and some be lesse worthe, as the father

is more worthie, the sonne less worthe, the Waister more worthy, the Scholler less worthy; which builtons this table both frew.



The Table of Relation.

A schoole fellow. Like. Vnlike. Equall. of one felfe Vncquall. name as Kiniman. Neighbonr. In deed, if in deed it rs The Mafter. eyther. The Father. The duble. more wer-The cause. or of diners thic as The whole. names The Captaine. whereof fome be The Scholler. Relation The Sonne. is cyther The one halfe, and fome Theeffeet. be leffe The part. worthic as The Souldiour. orin name Quantitie, 3 and fuch like absolutes. Qualitie.

Of the properties of Relation.

I Ow manie properties doe belong to Relation?

Fine: First to have contrariety, as vertue and vice, stipince and ignorance, but this property belongeth not to
all: for duble and the one halfe hath no contrarietie, not
the Father and the Sonne.

What is the second propertie?

The second is to be more or lesse, as to be more tike, or lesse like: or more equall or lesse equall: yet this belongeth not to all: for double hath neither more or lesse: nor one father is saide to be more or lesse then another.

What is the third propertie? EA he third is, that al Relatines (which are Relatines in deed)

4

are convertible: for he is a father that hath a Sonnt, and he is a Soune that hath a father, et.

What is the fourth propertie,

The fourth is that one correlative is not before another, but are both cogether: as the Nather is called no father, butil he hath begotten achilde, and a childe is called no Sounce before he be begotten of the father: for this is a generall rule of Correlatives, if the one be, the other must needs be: if the one be taken away, the other must also be taken away.

What is the fift propertie?

The fift is that whosever assuredly knoweth the one Lorrelastic, must need know the other; so whosever ecctainely knoweth that I am a father, must need also certainely know that I have a childer the like may be said of all that bee Lorrelatines in beed, to whome this property only belongeth, as Arisocle saieth.

Of Action. Chapter 12.

Hat is Action?
Action is some accidental forms or shape where by any thing is said to doe or to worke uppor his subject.

What meane ye here by this word subject?

The ching that luffereth, as the water is the lubiect whereon the fire induceth the shape of heating, for here the water is said to be passing, and the fire active.

How is action deuided?

Auto actions of the louis and of the body: The actions of the foule are those which the soule both, for according to his power wegetative, his actions are to nourily, to increase, and to engenber, and according to his power sensitive to see, to heare, to finell to take, to feele, & according to his power intellective, to understand, to will, to nill, and such like.

The actions of the body are those that doe immediatly belong to some body of composall accident, as to cut, to firske, to brate, to coole, to make blacke, and such

like.

Isthere no other deuision of action?

Pesditters, bus fuch as docrather belong to natural 19his losophers and to Dinines then to Logitians, and therefore we leave

The First Booke of Logike.

What doth this predicament comprehend?

All Pounes and Merbes of the Active lignification, as these Pounes, Generation, Corruption, Augmentation, Diminution, Alteration, moving from place to place and luch like: allo all Merbes active, as to engender, to corrupt, to increase, to diminish, to alser of change, and to move from place to place, and such like Werbes of the Active lignification.

How manie properties doe belong to action?

f Ewo: first to admit contrariety not simply but per accidens, as to kindle and to extinguish: Secondly to be more or lette, & yet accidentally, as one fire to burne more, and another less, one water to coole more, and another less.

Of Passion. Chapter 13

Hat is Passion?

It is the relation of application of the patient to the agent: as for example, whill the water suffereth to be heated by the fire, this sufference is called pal=

fion.

What doth this Predicament comprehend?

All Merbes of the palline lignification, as to bee engendred, corrupted, encrealed, diminished, or altered, and such like.

What properties doe belong to Passion?

The same that have bin said before to belong buto action.

Of the Predicament where, called in latine vbi. Chapter 14.

Vbi is to be in some place, as when a bodie is inclosed within a place, and therefore is defined of some to bee the description of the place wherein any thing is saide to bee, or to be done or made, as in the heavens, in the earth, in the temple, in the house, and such like.

How is this Predicament deuided

Into vbi simplex, and vbi compositum, that is to say, simple and compound.

The First Booke of Logike.

When is it faid to be simple?

sobena ching indivilible is in fome indivilible place: as an Angell in Puncto, Di when a thing indinitible is in a place di-milible, as an Angell in the Comple, for the Bemple may be dinided into many parts though the Angell cannot

When is it faid to be compound?

When some divisible body is contained in a place divisible, as the being of thinges comorall in the water, or in the agre: for corpopulithings beclo divilibly placed in their places, as every parte of the thing placed is aunswerable to enerie parte of the place wherem they are contained, and to contrarily, as to the parts of a mans body environed with the ayre, one part of that agre is autwerable to the beade, another to the feete, and fo confequently of all the reft, and therefore the Schoolemen fap, that Vbi compositum is to be in a place circumscriptively, but Vbi fimplex is to be in a place definitively (that is to lay) in lome certaine place, though not according to the polition or order of plas cing the parts, but when a thing is faire to be in a place circum-(criptively, then fuch place and thing may be both beuided accorbing to the parts of polition or placing, as this part here, and the other part there, whereof fpringeth thele bifferences, abone, beneath, before, behind, on the right libe, on the left libe, and fuch like. And finally this predicament comprehendeth whatfoener answereth to this question, where any thing is said to be 02 to be Done.

What properties doo belong to the predicament where?

Thiee: First to admit no contraviety, for though to be abone and beneath fecme to be contraty, per that is to be underfloode Philically and not Dialectically : Secondly it admitteth neither more nor lede, for to be in the Temple is no more to be in place then to be in the market or in any boule: but the third and thies tell property of vbits to containe.

> Of the predicament When, called in Latine Quando. Chapter 15.

Ow define you this predicament? This is faide to be a relation of application of a thing measured by time, buto time it felfe, and containeth the differences of times, whereby any thing is laide to bee, to have beene, of shall be, to boo, of to suffer and to speake briefly, it comprehenderb

comprehenderhall worden that answere corbin quelique when, as petterday, to morrow, the next day, and fuch like.

How is Quando denided?

Mwo manner of water, for fornetime it is faid to bee definite, that is, certaineas in this or that hower, day, or yeare, which is certaine and formetime indefinite, that is, oncertaine, as to have brene, without any limitation of time, which is buccrtaine: Sea condly Quando may bee benibed into his partes of fuccellion, as into time paft, prefent, and to come.

What properties doo belong to this predicaments First to have no contraricty: Secondly to admit neither moje or left : Thirdy to be alwaies flitting or flurible, and neuer permanent, which property it bath by realon of time which continu-

ally passech away.

Of the predicament to be fituated, called in Latine Situm effe. Chapter 16.

Hat is Situm effe? Quintilian layth, that Situm effets abruich to lay. as to belituated, ordered or placed fome manner of may, and it is a generall word comprehending all names that doo exprede the lite or ordering of the body a parts thereof, as to fland, to lit, to lyc either groueling or right by, 03 on the one fide: And finally it comprehendeth all thole wordes which aufwere to this question, howe any thing is lituated, as when it is required how Rozwich ftanbeth from London, either Rothward, Southward, westward of Canward.

How is fite deuided of the Schoolemens

Antolite naturali and caluali.

Which call you naturall fice What hipercup enery part of the body hard his naturall place, as in mans body the bead to trand aboue, the belly in the midt and the fecre hencath, and fo in a tree the roote to be lowed, the hopp in the miole and the boughes or branches to be bighelt. What call you fire cafuall?

The potenty the polition or ordering of the pares is altered and was my actheric as notic to hande bening nowe to moute;

What

What descriptions are to be setched from this predicament? The deferiorions of places.

What properties doe belong to this predicament?

Dwor first to admit no contrariety, for though upward feemeth to be contrarie to bowneward, yet that is underflod jobis fically and not bialectically: Secondly it bath meyther more not leffe, for to fland is two more a light then to lit, not litting more the Sanding.

Which things doe alter their situation, and which not All thinges without life and feeling doe keepe their lice, if by violence they be not changed: but al thinges hauing life and feeling bo altertheie lice, when and as often as it plealeth them. as a beat to take by or to lie downe, and lo lorch.

The Table of fite.

the head to stand about. naturall as < the bellie to be in the mide. and the feete beneath. Site is dither. Sgoing. flanding. or cafual as lying grouding, or with the face voward.

Of the predicament to have, called in latine habere. Chapter 17.

THat doth this word to have fignifie? It hard 3. special lignifications: First to be tlad with garmeres, armour or briament: Secondly to policie any thing, as co pollelle wite, lands, or goods: Whirbly to containe any thing. as a wellell to containe epiber lightid or orie matter that is power red therefir, and therefore this predicament comprehendeth all fish morges se are derined of the names of garments, no to bee golding tooker of coared . The of Armone affect berentige as offenline : Derentene as co pee Armed mitt a Coufflet " dive

The First booke of Logike. Hacke, of thirt of male, and fuch like. Offenflue, as be armed with alwood, bagger, caltuer, halbert of pike: allo bealls and filles are faid to be armed with nailes, borns, tallons, beaks, icales, lynnes e fuch likerallo it comprehendeth words of ornamet, as to be decked with chaines, Jewels and Tablets: allo words of pollellion. as to have lands or goods: allo words of contayning, as to bee full of wine, oyle or bony, as you may fee in the table following,

The table of the predicament to Haue.

Cwith garments, as to be gowned or cloked. To Hane to be clad with armour, as with a Corfelet or Halbert, Cor with ornaments, as with tablet or chayne. is three fold. to possesse as to possesse lands or goods. that is to containe, as a vessell to be full of liquor. &c.

What properties doe belong to this predicament? Twoifirft to admit more and leffe: for a man at armes is lay & to be more armed, then a light Borleman: and a Bikeman more then a Calpuer of Barquebusier. Again be that is clad with two coates is more clad then he that weareth but one: Secondly, this predicament admitteth in some fort contrarietie: for to be armed and bnarmed, clad and naked are contraries by partiation, but not otherwife.

Chap. 18. Of the vie of the Predicaments.

O what vie or end doe these Predicaments serue? To many good bles: First if you will define any thing you hal be fure in some of these predicaments to finde out the generall kynde thereof, together with al the differences for the most part belonging to the same: which if they be not sec Downe, then they are to be gathered out of the proper accidents incident to the thing which you would befine. Secondly, if you would divide any thing, heere you thall finde both the generall kyndes, speciall kyndes, yea and divers examples of the Indiniduums comprehended under the fame kyndes. Thirdly, out of thele predicaments you may gather matter apt to proue any ques Rion, exther generall or particular.

Of post-predicaments.

Chap. 19.

Hat meane you by Post-predicaments? They be Interpretations of certaine words more plantely expounded after the Predicaments, for the better underftanding of certain of plaid predicamets.

Which are thev?

Theie fine: Oppolitio, prius & pollerius, fimul, motus & habere, that is to lay in Engilly, Oppolition, before and after, together, moning, and to haue: eucry one whereof may be taken and in= terpreted diners waves.

What is Opposition?

Opposition is the repuguancy of contraviery of 2. extreames, which are contrarie one to another, in such fort as none of them is in like manner repugnant to any other thing: as for crample, white and blacke being two extreames are more contrary one to another then eyther of them is to any other colour, as to redde, yealow, ruffet or blem.

Sith some things are said to be agreable one to another, and some contrarie one to another, and some divers one from another: it were not amisse first heere to tell how, and when thinges are said to be agres

able, diverse or repugnant one to another.

Thinges are faid to be agreable one to another 3, manner of wayes: Fird when they agree in generall kynde, as those which are subject to one next generall hynde, as man and hople Doc agree in generali konde, bicaufe this word animal or fenfible body is the nert generall kynde to them both. Secondly thinges are laid to agree in speciall kinde, as Edward and John are both comprehended under this word (man). Thirdly things are layd to agree in number, as words having one felfe lignification, called in Breeke fynonyma, as a blade, a rapier, a curtilas or flucke lignifying a fwood: also things of like substance or defirition, as man, and a fentible bodie indued with reason: and by these three wayes thinges are laid also to differ one from another, for they may differ one from another in generall kynd, in speciall kynd, & in number: in generall kynde, as a lenlible body, and a tree: in speciall kynde, as a hople and an alle: againe they may differ in number, as the Indiuiduums that be comprehended under one special kynde, as John and Edward doe differ onely in number.

Is it all one to be divers and contrarie?

Mo: for those thinges are said to be diners which differ any of

the waves abouclayde, or by any other difference, be it common, proper, or mod proper: yet few ornone of thefe thinges are contrarie one to another, for no lubliance abmitteth contraviety, nor permany accidents, unicite it be by reason ofquality, wherebuto contrarietie doth properly belong.

How may waies are things faid to be contrary one to another?

Cower manner of wates, that is, relative, contrarie, privatine and contradictory, that is to fay, by relation, by contrariety, by plination, and by contradiction.

Which things are faid to be opposite or contrarie by relation?

Those things are opposite by relation, which according to their owne lignifications have mutuall relation one to another. nepther can they be both verified of one felfe thing in one felfe vespect, as the father and the son, the lord and the bondman, for one man can not be both a father and a fon in one respect, but in bis ners respects bemay: for every manthat hath a son is notwithfauding a fon to his owne father, and a father to his owne fon.

Which things are said to be opposite by contrariety?

Those thinges are said to be contrary, which being computa bended bider one lelfe kinde boe mott differ one from another. a ver both may be one after another in one felfe subiect meete to receane the fame, because the one gineth place to th'other, buteffe it be such a thing as is naturally incident to the laid subject: as beat and cold being contayingd binder quality, are most contrary one to another, and yet may be one after another in mans body, or anie other fubiect apt to receive the faine, for many times beat bineth out cold, and cold heat: per in fire it is not fo, for heate is alwaies naturally incident to five, and will never give place to cold, fo long as it is fire and not crtinct.

How are contraries divided?

Of contravies some have a mean called of the schwicmen contraria mediata, and some haue no mean called contraria immediata.

When are they faid to have a meane?

where the two contraries are fuch, as neither of them is of meere necessity, in any subject meete to recease the fame, as white and blacke: for that subject which is apt to recease them both, may be realow or ruffer, and to the fubicit is nerther white noz blacke.

When are they faid to have no meane?

when the one of the two contraries may be alwaies truly affirmed of any subject apt to recease the same, as sicknes & health: for man or beaft is cruly faid to be eyther ficke or whole: also vice and bertue have no meane, for a man is faid to be either good or

Which are opposites by privation?

Oppolites by prination are two contraries belonging to one felf lubicer apt to receine the fame, in the which lubiect, when the one is wanting at fuch tyme as nature both appoput, the other mut needes be,astight and blindnes in the cyc, hearing & bealnes in the earc, light and darknes in the thre, or in any other thing meete to receive both. (appoint)

Wherefore doe you adde this clause, at such time as nature doth Because it is not needfull that one of these opposites be in the subject in all times: as for example, the whelve which is not nyne dayes old, though as pet be feeth not, pet is be not faid to be blind, because Mature bath appointed him no sooner to see.

Which be opposite by contradiction?

They be two contraries, having no meane, and doe confid in contradiction, that is to lay, in denying the one th'other, and luch contradiction conlineth eyther in propolitions, or els in limple of lingle terines.

Giue examples of both.

30 Propolitions thus, John is honell, John is not honell: Plato disputeth, plato bisputeth not, in which kind of propolitios there is no meane of truth or fallhode: for of necellity the one of them muß alwaies be eyther true of falle in fuch fort, as both can not be true together, nor both falle together: In fimple termes thus, a man, no maito know, not to knowito be, e not to beiand therefore oppolites by contradiction be most contrary, and doe differ from all the reft, for in all the other oppolites it is ealie to finde out some meane subiect, whereof neyther of them can bee trulie (poken or affirmed.

Of Before and After, called in latine Prius & Posterius, Chap. 20.

Owmany waies is a thing faid to be before and after? Mine manner of wates, that is, by time, nature, older, hono; and caule, contained in thele 2. latine veries.

Tempore, natura, prius ordine, die & honore: Et caussa effectis dicitur esse prior.

Giue examples of enery one.

Aira by time, Cicero is faid to be befoze Quintilian, and Socrates befoge Arifforic, and fuch like: Secondite by unture, that thing to faid to be first or before, from which the Confequent cannot returne backwardiby which way all generall kynds are laid

The First booke of Logike.

to be beforetheir fpeciali kyndes, and fpeciali kyndes before their Indiniduumsitor & man be, then fentible body (which is the general kynd)muft needs be, but not contrarily: lo likewile if John be, man muit needs bee, but not contrarily, for it followerb not of necedity, Becaule it is a lenlible body, Ergo it is a man, or becaule it is a man, Ergo it is John. Thirdly by older one thing is faid to be before another, as 1. before 2. and 2. before 3: letters before fyllables, and fyliables before words, and words before freeche: To this also appertayneth that which is said to be before by litu= ation, as in going from Morwich to London, Thetford is before Dewmarket, and Demmarket before mare, and fo foorth. Fourthly by honor or bignity: An Emperor is laid to be before a King, a Ring before a Duke, a Duke before an Barle, an Barle befoge a Baron .ec. Fiftly the caufe is faio to be befoge his effect, as the riling of the Sun is faid to be before day, to the difference is faid to be before his specialityno, and the specialitynd before his property: And thefe be connectible, foi if it be day, the Sun muft needs be bp: and if the speciall difference be, the speciall kynde muft needs be, and fo contravily.

To what end serueth this manifold way of Before and After?

To th'entent that we may the better binderfland what hath bene faid before touching oppolites by relation, that is to fay, that Relatines are alwaies together by order of nature, and not one before another, but only by their fourth way, that is to lay, bu henor or worthines, which way, as Ariftotle fayeth, of all the other wayes is most bupjoper and least to the purpose.

Of the word Together called in latine Simul. Chap. 21.

TOw many waies are things faid to be Together? Two wates: that is, by order of time, and by order of Anature: First by order of time the heate and thining of the Summe arelaid to bein the Sunne together , that is, at one time: also the angels were created altogether, and at one time Secondly thole things are faid to be together by order of nature. which have nacural relation one to another, & be connertible, neither is the one cause of the other, as the father & the sonne, single and bouble, and fuch like: and many bo add herevnto diners fue= cial kinds & differences lubiert to one lelf generall kinde, as man and brute beaff, reasonable and burcasonable are subject to the generall kynd fenfible body or animal.

Of Mouing or Motion, called in latine Motus,

and of the kindes thereof. Chap. 22. "Herefore is mention made heere of Mouing? Forthe better understanding of the Predicament Action, where water Moung belongeth. How

The First Booke of Logiker

How manie kindes of motion or moung be there? Dir,briefly touched before in the predicament of Action, that is to lay, Beneration, Corruption, Augmentation, Diminution, Alteration and Moning from place to place. Define these kindes.

1. Beneration is a proceeding from the not being of a lubffance 2. to the being of the lame, as from an acome to an Dhe. 2. Coj-

suprion contraviwile is a proceeding from a being to a not 3. being, as from an Dke to chippes of allies. 3. Augmentatis tion is the encrealing of a greater quantity in the whole; as

4. from a child to a man. 4. Duninution is contrariwife a Decreling of diminishing of quarity in the whole, as a body that

5. confumeth of pyneth by difeate of otherwife. 5. Alteration is a proceeding or changing from one quality into another, as s, from bote to colo. s. Mouing from place to place is, as the

mouing of the bun out of the Walk into the well.

Of the word Habere, that is, to haue, and how manie waies it is to be vnderstoode. Chap. 23.

Ow manie fignifications hath this word to Haue? 1. Eight: Firit, to haue a quality, as leience, vice or ber-1. Leight: Prouse vance a quantity, as co'de by, bij. at blij. lote 3. long. 3. tobe cladias to have a cloke of coate. 4. to 4. hanelome part of the body clab o; beckeb with fome thing, as s. the finger with a Ring, the necke with a chayne. s. to have a 6. part of member, as a hand, a bead of fote. 6, to containe, as ahogibead that hath therin beere of wine. 7. to pollelle, as to hane lands, tenemets of gods. s. to haue a wife: which accorbing to Ariffotle is buppoperly faib, because nothing can be properly faid to have which is bab it felfe of the faine, for the wife bath the man alwell as the man the wife; and therefore this way of haning ferneth to little purpofe.

Here endeth the first Booke of Logike.

THE

SECOND BOOKE

OF LOGIKE.

Of Definition. Chap. I.

Auing hitherto sufficientlie

fpoken of the Predicables and Predicaments, and of all things belonging vnto them, with-out the knowledge whereof, no true Definition nor good Diussion can be well made: me thinks it were meete now to treate of Definition and Division.

What is Definition, and how manifold is it? Definition is a speech whereby eyeher fome name or thing is declared: and it is twofold, that is, of a name and of a thing.

What is definition of a name, and how manifold is it?

Definition of a name is a speech whereby the signification of 1. fome word is beclared:and it is ten-folde. 1. Definition berbal, de whena word lette knowne is declared by a word more knowne, as thus, to imitate, is as much to fay as to follow or

2. to counterfaite: againe, to accomplith is to fulfill. 2. Definis tion by difference, as he is a king which ruleth by law: but he 3. that mileth by force is a tyrant, 3. Definition metaphorical or

by figure, as Abolefcency is the flower ofmans age: good preas 4. chers are the falt of the carth. 4. Definition by contrary, as

5. vertue is to flee vice. 5. Definition by circumlocution, as the

6, waiter of the Erojan warre, that is to lay, Bomer, 6. Drfi=

The fecond Booke of Logike

tion by crample, as to lay, that this word reasonable or bureas 7. Somable is a special difference. 7. Pefinition by want or descent, as that is 4 quarters which latters a finance of a yard

s. erany luch like thing. 8. Definition by braile or bilipraile; hy praile, as Logike is an Arte of Artes and Science of Sciences: Autre is the Queene of all vertues: By biliprayle, as

9. Intenes is the corruption or deliguetion of youth. 9. Definistion by limitiude, as the Summe is the eye of the world: a Citie without a Gagiffrate is as a Chippe without a Gouernor.

10. Definition by Etymology, as he is rightly called goodman, because he is a good man in beebe and full of good works.

When is definition of the name needfull to be vied? When some Doubtfull word is cause of the controperty.

Of the definition of a thing.

Hat is the definition of a thing?

It is a speech which declareth briefly, playnely and aprily the very Mature and substance of the thing which is defined.

How is the definition of athing divided?

Into thele lie kyndes, that is to lay, into definition estentiall, causall, by the Relative, by the effects and offices, by numbering up of the parts, and by heaping up of accidents.

What is definition effentiall?

At is that which consider of the next generall kynde to pred with some special difference of property belonging to the same kynde: as when I define a man to be a sensible body endued with reason, or apt to speake: and this is the Logical definition most sure of all others, but not easy to be made of every thing, so, lacke of special differences and natural properties.

When is it said to be a causall definition?

when it is made of the generall kynde and of the proper tanks of the thing befined.

How manie chiefe kyndes of causes be there?

Fowje, that is, matter, forme, cause efficient, and end.

How define you Matter?

Matter is that wherefany thing is made, as cloth is p matter wherefa cleke or coate is made, a woll is the matter of cloth.

What is forme?

Forme is the Chape whereof any thing taketh both his being and his name: and therefore the Schoolemen doe define forme to be that which gweth a being to any thing, be it naturall or artific

The Second Booke of Logike. 49 ciall, as in the examples before recycen, the coare of cloake bath both his being and name of the Gape which it bath, and not of the matter.

What is the Cause efficient?

That which maketh or worketh anything, and is the author thereof, as the Carpenter is Cause efficient of the house, and the Shipwright of the thippe.

What is the End or finall cause?

It is that for whole take any thing is bone, as the end of warre is to have peace, the end of Audie is to get learning and knowledge.

... Give examples of definitions made of every one of these causes.

Of exacted tee this be your example: Beere is a drinke made of maile, water and hoppes: Of Formethus, man is a lentible body indued with a fould intellective or coalonable, which is the true pape of man: Of the cause efficient thus, that is a decree of the Senate which the senate commandeth and ordaineth, for the Senate is the cause efficient of the decree: Anger or wrath is the boyling of the blond about the heart through the difficing up of choler: Of the end thus, A bouse is a building made to be senate one bodies from the infurces of the agre and weather.

May not a good definition be made of many of these causes ioyned

sogether?

yes indecde.

Giue example.

Loe here the example of Demothenes in defining what law is, Law (laith he) is the invention and gift of Bod, and the decree of wife men, the correction of crymes eyther rathlie or advicable committed, and a common concurant or confent of the Littic, according to the which all men ought to live. In this definition the title and chiefed cause efficient is Bod, the second canse efficient is the country of the wise, the matter is the decree of the wise, the end is the correction of crymes and the keeping of the Littizens in good order of life.

When is a definition faid to be made by the Relative?

anden affentatine is interpreted by another, as thus, he is a father which bath a forme, and he is a matter which bath a fernac.

When is a definition faid to be made by the effects, vertues, or of-

fices of the thing defined?

the factor of the change of the ching is plainlie declared by the wing the fair exercise of offices, as thus an Abamant flour is that which be fair entire in the factor of the factor o

п

When it a definition did to be trade by numbering youf the pass a when it continueth cychet the chiefe or all the pass of fone whole thing, or els all the speciall kyndes of some generall kynd.

Give examples of both thefe wayes.

Pfebe firit this, a boute ig a building baning a foundation, walls and couceing : of the fecond way thus, a fentible boute is that which comprehendeth both man gho haute beath was IW

When is a definition faid to be made by heaping up of accidenter when a thing is rather delecibed then beffined by fuch commo and proper accidents as doe belong to the fame, as five is an element that is bote and bie, and exceebeth all geber Blements in to pe lung a be the think then a permittion mpich et pfriell to the fluctures aup perfetore tore fait phase of perimition on the principal to the Potts Dintoll ail Billvitogtaphers, in Deteribing epther perfon fact or thing alle to the tobglittans, in peleribing thein line pite as roces, plante, be arbs, and fuch like.

là giệt guburan cại tuyungi chund girənədə dəcəid ədə in ya

Oxide precepts a beoblemed in Definition. Chap. 2.

TOw manie precepts are to be observed in making a true desix nition?

These three: first that it briefly eppresse the whole power and nature ofthe thing befined: Secondly that there be nochtag chereinfagentindus, folige thing wanting: Thirdie, that the definition bottoe common to many things, but properto that thing onely which is befined, to as y it may make it to biffer

Contail other things (122 22 211)

How Marded dethis to be differed in making a did thicklick dethnition? * Fich for minitality in what is represent the thing is consained which you wolllo define, to the intent that in obscending from the fholl generall kinde bowne towardes the molt speciall kinde of the same 191edicament, yee may find out by the way that which is next generall llynoe to the thing that is to be defined: which new generall kind being fourh dur, pe mind then trepe one che spetial bittereure of propertie, f ploper caule, effect, or confinit atcidents belonging to the fame : as for example, if yee would befine what bereite is, yee muft refort to the wiehltamenf of Duas My, wherein vertile is contained; then in delcending from Duatry proceeds to Babits from Babits to habits of the Mind which is twofold, that is to lat intellectual and indfall, and hor finding

The Second Booke of Logike. it bilder habite intellectual proceed to habite moral, for that is the 'tiert generall kinde to vereuer that done, feeke out the difference or propertie, true cause or effect: the difference is to be good, wherin it differeth from vice, for vice is also a mozall habite aswell as vertue: the effect of vertue is to incline mans will to doe alwaies according to right reason or true subgement, so shall you make a true definition of vettue, in laying that vertile is a good mozall habite inclyning mans will to doe alwayes according to true sudgementiand after this fort pe may learne to befine any other thing.

Of Division, Chap. 3.

"Hat is Division? Duisson is the parting or diniding of a word ex thing that is more generall unto other wordes or things leffe generall: for Duttion is twofold, that is, Dfa name, and ofa thing.

When is it said to be the division of a name?

when some Equivoke or doubtfull word is divided into his manifold fignifications, as this word wolfe into a man baning that name, into a fowic fored bealt, into an vicerous foze, and into a certain fifth each one called by the name of wolfe: which kind of billinction or dimilion is very necessary to anovo ambiguity of weech, which ambiguity cauleth many times great erroz.

How manifold is the division of a thing?

Ir is threefold, that is, subfantiall, partible and accidentall. When is it properly faid to be substantiall?

when any generall kynd is divided by his speciall differences into his vioner fucciall kynds, as thus, of fensible bodies one is reasonable, as man, a another is bureasonable, as a bute beaft.

When is this kinde of division to be ysed?

when the frecial kinds lacke proper names, as most commoly the fucciali kynds subalternate doe, which may be divided againe as generall kyndes into more speciall kindes: as for example, of burealonable bealts foine be terreffriall, some be aquaticall, and fome averie: agains enerie one of their may be dinided into their speciall kindes, ruen untill yee come to the lowest of all, and unto the Individuums compichended under the fame: and that not only of things contained in the predicament of inbitance, but al= foin any other predicaments of accidents, as of magnitudes one is long, as alyne, another is broad, as a superficies, and another

The Second Booke of Logike

is thicke, as a body: this division though it be of accidents contained in the production of advantity, yet it is called a substantial division, because the general kinds beere is bintoed by his specifical difference into his proper special kyndes.

VVhat call you a partible division?

A call that a partible division which divideth some whols thing into his parts, which is called of the Latines partitio, as if yee would divide the Komane common wealth into Senators, knights and Commons: you may also divide a house into his principall parts, as into the foundation, walls and vooffe theres of: but the better to buderstand this kynde of Division, it shall not be amisse to shew you here what kyndes of whole a what kynds of parts there better there is whole substantial a whole integral: agains of parts there are called substantial and one integral; and of parts integrals some are called similer of like, and some distincted, and some distincted, and some distincted, and some distincted, and some distincted of all which thinges I myude here briefly to speake.

First T pray you tell what you meane by whole substantiall, and

whole integrall.

whole lubitantial is that which conditeth of lubitantial parts cleaning wholly together, and not lenerally diffinct in number, as whole man conditing of louis and body: but whole integrall is that which conditieth of integrall parts, which though they clean together, yet they are diffinct and lenerall in number, as mans body conditing of head, by east, belly, legges, et.

How define you substantial parts?

Subfantiall parts are the first and chiefe parts whereof anie thing is compounded, of which parts if any be wanting, the whole must needes perish, and loveth his name, as the matter and some of any compound thing, be it naturally of artificiall, as the body and soule are the first and chiefe parts of man; the metall and falhion of a since cuppe are the first and chiefe parts of the cuppe, whereof neyther can be wanting, so the soule without the body is a spirite and not man, and the body without the soule is but a dead earcaste; agains the suppe without matter of shape is no cuppe at all

Which be called integrall parts?

Certaine lecondary parts, which being all gathered together doe make the whole perfect, as the head, break, belly, armes, hand bes, thighes, legges and feete are the integrall parts of mans bory; and of these integrall parts, flome are called limiter, and some difficulter (that is to lay) like and white.

Which are similer and which dissimiler?

Similet

The Second Booke of Logike.

Similer or like are these that be of one kynd and of one selle name, and being divided into pares, energ such pare, be it never so small, beareth also the name of the whole, as sieth, hone, sinew, whin, and such like: for every little part of the stelly is called selled, and everie part of Bone is called Bone: and so of all the rest: hitherto also may be referred water, fire, Bold, Aron, or any other simple mettall, wone, wood, kone, and such like, so every droppe of water is called water, and so of the rest.

Which call you dissimiler or vnlike?

Those parts that differ both in kinde and name, as the head, bead, belly, armes, and legges are the parts diffimiler of a mans body: likewise a house, a suppre, and many other thinges have also such parts, of any one of which parts the whole cannot bee suppressed in an and of suppressed in the head of a man, ergo heere is a man. Agains of these distiniler parts, some are called principal, where is not be wanting, the whole must needs perish: as without the head, belly, heart, lyner or guttes, mans body cannot be. The not principal are those parts be wanting, yet which the body may be: for though those parts be wanting, yet the body is counted a whole thing, though not perfect in eneric point, as without armes, handes, legges, or seete the body may line: that building also that bath a foundation, walls and roosse, its counted to be a whole house, though it hath neither dozes nor windowes, yet not perfect in energy respect.

Wherein doth partition and division differ?

In divers points, for in division any generali kynd may bee rightly spoken of every speciali kynde contained under the same: as this word (sensible body.) which is spoken both of man and beast, but in partition the whole cannot be spoken of every part: so, you cannot say that the soule of body of mais whole mainor be bead of four is his whole body: again division bewieth universal things into their particulers, a partition divideth particulers into their parts, and most commonly followeth division helping to make subdivisions: as for example, when division hath divided a sensible body into man and beast, then followeth partition and differth man into soule and body, and the body into his integrall parts, as head, break, belly, legges, and such like.

How manifold is division accidentall?

Threefold, for by that we cycher dinte come auticit into his accidents, or some accident into his subject, or some accident into his accidents.

Give examples of all these three wayes.

Of the first let this be poil example to finen some be free, and some be bond, some be bernous and some be victous: and after

this fort you may binibe the 19 jedicament of Substance into as many accidents as you will, running throughout all the o. lotedicaments of Actionits. Of the fecond way thus: of good foine are faid to be of the mind, fome of the bodie, and fome of fortune. of the thirde thus : of good thinges tome are faid to be honell, forme profitable, and some pleasant or belectable : which hynde of Bittilion is much pled of the Platole:to this allo may be reformed the foinmon orper of binibing any speech or Dration into his parts, which the Dators call Partition of Diffribution, where= by is fee bowne in what order enerie thing thall be verered aud declared, which first and which last, and to forth.

Of the precepts to be observed in Division. Chap. 4.

Ow manie precepts are to bee observed in making a true Diuifion? Wheee: First chat the generall kynd be dinided into his nere special kyndes, by such speciali differences as are incerely repugnant one to another, and doe comprehend the whole nature of the thing binibed : as thus, oftentible bodyes fome be reasonable and some be vircasonable, for it wereno god binifion to fay, of fentible bodies one is reasonable and another is twofmted.

What is the second precept?

That the parts being toyned together may be equall to the whole, and may comprehend neither moze nor lelle then p thing which is dinibed, as reasonable soute and carnall body being the chiefe parts of man boe comprehend negrher more nor leffe then

What is the third precept?

That no part of speciall kynd be vied as a generall kynd, not the generall kond as a part of fpeciall kond; as in this biuilion which Cicero reproneth, I will thew that through the concupilcence, bolones, and conetonines of our aductiaries all milchiefes have chanced to the common wealth: heere conetoulnes is mingled with concupifcence, whereof it is a partifor concupifcente is the generall bynd of all luftes or beffres but this precept feemeth rather to appertaine to a 1x herozical partition then a Wialceticall

To what end ferueth Division?

To diverte good ends, first (as Cicero sayeth) it helpeth greatly to teach playnely to befine, and to make thinges that be compound intricate of confuled, to appears limple, playme and certapne\

The Second Booke of Logike, certaine: fecondly by dividing thinges orderly into their pates it areacy belooth incinozie : And thirdly it belnoth to amplify any kynde of fpeech, and to make it more copious.

Of Methode. Chap. s.

Auing hitherto sufficiently spoken of words, both singular and vniuerfall, and also of Definition and Division, which are the 2. chiefe instruments whereby all simple questions are discussed, I minde heere to shew with what order or methode enerie such question is to be handled. or not favor House

What is Methode?

enethode is a compendious way of learning orteaching a= my thing : and it is threefold, that is to fay, Compositive, Beiolutine, and Dinfine or befinitine.

What is Methode compositive?

It is that whereby we compound the whole of his parts, bedinning at the fmalleft, and lo proceede from greater to greater, Sutil we come to f chief end whereo we tend, which kind of order or Methode we observe heere in writing this Logikersor first we treate of words or tearmes, then of a propolition, and last of al of a Syllogiline: lo like wife be that will teach the rughen way from Morwich to London by order compositivite will biode him first goeto windham, from windham to Aflebozough, from Atlebo= rough to Thefford, from Thetford to Dewmarket, from few= market to Barkway, fro barkway to ware, fro ware to Londo.

What is Methode resolutive?

It is y wherhy any whole thing is refolited into his parts:02 when we proceede from the end to the next and immediate cause thereof, and from that to the next cante of that, and fo from one to another mitill we come to the firft cause of all, and most remote and furtheft off, as when we refolue a Syllogifme into his 1920= politious: & a propolition into his viterinoft bounds of termes, which are the indiect and the predicate and this way is builthe to th other befoge recyced, because it goeth backward, as in the fozmer example. If ye will teach the way from Rotwich to Loudon by Wethode resolutine, ye mult say that there is a cown called ware twenty myles from London: next to that is a Towne called Barkway, and so till yee come to that which was first in methode compositine. To these two methodes Balenaddiththe third methode, that is, agethode dinifine or definitine,

What is that Methodof would a qualitative of

It is when invelining and deviding wer descende otherly from a most generall kind to all the fociall kinds contayned buber the same, and so to the lowest of all: as having to speake of quality, we define it and denide it into his foure speciall kindes, and every fuch special kind into his parts and members, even til we come to the lowest pfall, as you let in the table of quality bea tore described. Which kind of enethade is morefully handled by ing frend Accontio in his little Treatife which he whote in Latin de Methodo, the effect of which booke I thinke it not out of purpole to let downe euen bere.

The effect of Accontius his booke de Methodo, which heaffirmeth to be the second part or Office of Logike.

Do the first office of Logicke teacheth howe to finde out the cruth hi any lucech, but eacthode teacheth how to attaine to the Art of knowledge of any thing. In which spethode three things, as he laith, are to be conlibered. First what egethode is: Deconoly what is the effect or become there of: Thirdly what be the causes of that end of effect.

methode is a certaine raide way whereby we may learch out the knowledge of any thing and baning attained it bow to teach the lame commodionaly to any other without gramining when ther it be true of faile, for that belongeth to the first part of Loaiche.

The effect of breemall ends of Methade is the knowledge of any thing.

The caules of that ende are thelethice , forme , matter , and caufe efficient.

Forme here sceniethed be that which is knowne by al p parts of fuch knowledge being gathered together, as it were into one felle body, which parts are theferfird what the thing is, secondly what he the causes thereof, and also what be the causes of those caules, even to the last of beterinal caule: Chiroly what he the effects and allo what be the effects of thole effects as well when the thing is taken generally as for fome whole thing, or as when the whole is deulded into all his parts, even buto the parts inThe second Booke of Logike.

magatter here is generally taken, and not for the matter of as my beterminate or certaine kinde, buto which matter boo appertaine all things that be finite, perpetuall and immutable, that is

to lay all vniuerfals.

The causes efficient are partly those thinges that are more knowne , asfrell to know what the thing is by Definition confis fing of the generall kinde and of the differences thereto belonging : lecondly what is the effect of ende of the thing as in thole things which doo not depend voon our will : and thirdly what be the causes of that end of effect, the consideration of which endebelongeth to thole things which boo bepend bpon our will, and partly the cause efficient is the right applying or ordering of the inoze knowne thinges : which ofder containeth two partes, for first we must proceede alwayes from the most generall kinds to the nert generall kindes, as hauing to begin with the definition of the thing which you fecke to know when need requireth, you must proceede from the most generall kinde of all, that is to lay, from the highest generall kinde and so bescend Downewarde bus till you come to the thing that is to be defined , but if you haue to begin from the vitermoit end of the thing, then nept of all confi= ner that, from whence the end both immediatly fpzing, and what Doth follow next to that, and to proceede from one to another till you come to the first cause of all . finally if you have to beginne from the first causes, than you must orderly proceede from that which is first buto the fecond, and so to the third, & so forth butil you come to the betermost effect or last enb.

Mowe as conching the leconde part of applying of offering the more knowne thinges, you muft bane conlideration of cuery whole thing and of all his parts, wherefore if you have to befine any thing, art, or fegence: whereof you treate, you muft Define the wholeand then enery part thereof butill you come to the lowell pare thereof, and yet enery one in his proper place, and if you cannot comprehend in one definition all thole thinges that are to bee referred to one head, then vic dinilion in deniding the whole into his parts, and befine enery fuch part in order. But if all the parts which the thing containeth haue not one felfe ende, but dis uers, then beuide it by fuch differences as every part may have

his proper end.

Moreoner if the forme, matter, or cause efficient haue dincrs respetts and confiderations, then according to that dinerlity make divers devilions, and firth declare what is common to all the partes in generall, and what is proper to enery one in particuler.

The Second Booke of Logike.

Finally if some one whole ching lieth hidde, their is to be found out by looking into some of the particuler parts thereof. And thefe are all the chiefest poynts contaqued in the Latine treatile which my freend Acontius wrote de Methodo: and though that Petrus Ramus maketh but one kynd of Methode, that is to lay, to proceede from the first principles or elements : yet I am sure be will not beny but that to goe forwarde and backward be two diners things, though not contrary, as both well appeare by the Compositive and Accountine Methode before Defined.

I doe not yet perfectlie understande by all this, with what Me= thode a simple question is to be handled: therefore I pray you show the

true way and order thereof.

The Methode or way in handling a limple queftion dependeth vpon thefe 9. Interzogatines, that is to fay. 1. Firft what fignifications the name or word hath, whereof the question is made, and how it is to be taken. 2. Secondly whether there be any fuch thing, og not. 3. Thirdly what it is. 4. Fourths ly what bethe parts of fpeciall kyndes thereof. 5. Fiftly what be the caules. 6. Sixtly what be the effects. 7. Senenths ly what things be incident of appurtenant unto it. 8. Eight= be whatthings are like vnto it. . And ninthly what thinges bee contrary to it . All which questions Arithotle reduceth into thefe fowje, that is to fay, whether it be? what it is? what manner of thing it is and why it is?

Giue example of a simple question handled according to the nyne

auchions before recyted.

As for example, if we have to treate of vertue, first we must thew the diners fignifications of vertue, for vertue fignifyeth fometime power and ability, as when we fay, vertue attractiue, vertue digeffine of vertue expulline: but bere vertue is to be taken for a morall habite bringing forth good and commendable actions. Secondly whether vertue be of not it playnly appeareth by the diners doings of men, whereof fome be good, fome be bad. Thirdly what vertue is we know by the belinition thereof, in faying that vertue is a mozall habite enclyning mans will to Do that which is alwayes good and agreableto true judgement. Nourthly the kyndes of vertue be divers, as Pandence, Juffice, Temperance, fortitude, modelly and luch like. filely the caules, of vertue be also divers, for the cause efficient thereof is awd, and mans will obedient to true reason and to true indgement, the matter or lubiect of vertue is the mind or heart of man, the linall cause is biellednes. Sirrly the effect of vertue is tranquilitie of the mind and many prosperous successes, and also publike veili=

The Third Booke of Logike.

tie and peace. Senenthly things incident to bertue are thefe, the honour, paile, and commendation of god men. Eightly things of affinitie of like to vertue be all good inclinations, dispositions, or good naturall affections, as to be louing, kind, and mercifull. Minthly, things contrarie to bertue, be all manner of vices, as pride, couetonines, hipoculte, diffimulation. &c.

What methode is to be observed in handling a compound question? A compound question is to be handled by arguing and realos ning on both libes, whereof we thall treat hereafter: In the meane time we have to speake of a Proposition, without the which no argument can be made, for all arguments do coulit of propolitions.

The end of the second booke.



THE

THIRD BOOKE

 $OFLOGIK \mathcal{E}.$

Of a Proposition. Chap. 1.



It is a perfect speech whereby somes thing is manifellly declared to be true of failc.

Whereof is such speech specially compounded ?

of Roune and Werbe, which Roune would bee of the Rominatine cale, and the merbe of the Indicatine mode, as

when I fap, man is a fentible bodie, for the Logitians do feldome allow any fuch speeches as are exther of the Pratine, Impera-

tille

The third Booke of Logike. 60

tine, Interrogatine, or Mocatine mode, as I would to Bod I had a good boile, this speech is not accounted to be so true or certeine, as to fay, I baue a good boile.

Of how many parts doth a Proposition consist?

Ofthree, that is to lay, the Subicct, Predicat, and Copulat.

What is the Copulat?

It is the Merbe lubftantine called in Latine, Sum, es, fui, that is, to be, which both couple or joyne the predicat with his fubicet, as when we fay, man is a fenfible bodie: here in this propolition the word man is the subject, and the word sculible bo-Die is the predicat, and the Aerbe is, is the copulat: which copulat is not alwaics incident to enerie Propolition, and specially when the predicat is some other Werbe, and not the Werbe sub-Cantine, as Plato disputeth, Socrates walketh, which is as much to fay, as Plato is disputing, Socrates is walking.

How many wayes is a Proposition divided?

Three manner of wates, that is according to fubffance, qualilie, and quantitie. According to lubitance thus: of Propolitions fome are faid to be categozicall, that is limple, and fome hipothes ticall that is compound, of which compounde propolitions wee mind not to speake before we have treated of all things belonging to a categoricali and limple 19 topolition, which is twofold, that is to lay, absolute and modall.

What is an absolute categoricall proposition? It is a speech which affirmeth of denyeth something absolutely without any respectias when we say, Bod is erne, of enery man is a iver: and this is otherwife called of the Logicians, Propositio categorica de inesse.

How is a fimple Proposition deuided according to qualitie?

Into an affirmative and negative Propolition. When is it said to be affirmative, and when negative?

It is faide to bee affirmative when the predicat is affirmed of the subject: as when I say, that John is learned: And that is negative when the predicat is denyed of the subiect, as John is not learned. And note that in Inch kind of fpeech the negative is alwaics to yned to the Werbe.

How many waies is a simple proposition divided according to quan-

tity ?

Foure manner of wates, that is to lay, into an universall, page ticular, indefinite, and fingular 1920polition,

When is it sayd to be vniuerfall?

when some uninerfall ligne is aboed to the subject. Which words are faid to be wninerfall figues?

Thefe:

The third Booke of Logike.

Thefe: all, cuevie, whatfoeuer, whofoeuer, none, no body, not one, none at all, every where, no where, and such like, as cuery manisalper, no manis truc.

When is it said to be a particular Proposition?

when some particular signe is added to the subject.

Which call you particular fignes.

Thele: fome, any, many, few, and fuch like, as some man is wife, few are wife.

When is it said to be indefinite?

when the subject is a common word having negther buinerfall not particular ligne added buto it, as when we lay, men in these dayes be given to great follies.

When is it said to be fingular?

when the subicct is some Individum, as when we say, that Cicero is eloquent.

What and how many questions do rise of these 3. divisions.

Thefe three: that is, of what kind? of what qualitie? of what quantitie ? in latine thus, qua? qualis? & quanta? for if it be alked what kind of propolition it is, then you muft antwere that it is either Categorical or Bypothetical, that is, lumple or compound. And if it be demanded of what qualitie it be, then you muft aus fwere, that it is eyther Affirmatine og Regatine : if it be afked of what quantity, then you mult auswere that it is eyther Uniuer= fall, particular, indefinite or Singular.

Of the three properties belonging to a simple Proposition. Chap 2.

7 Hich are those? Thele: Oppolition, Equivalency, and Conuers What is Opposition?

It is the repugnancie of two funple Popolitions, hauing one felfe lubiect, and one felfe Bredicat.

How many kinds of opposite Propositions be there?

Koure: Contrarie, Subcontrarie, Contradictorie, and Subalternat.

Which are said to be Contrarie?

A Universall affirmative, and a Universall negative, as energ man is inft: no man is inft.

Which

Which are faid to be Subcontrarie?

A particular affirmatine e a particular negative, as fome man inft : fome man is not juft.

Which are said to be Contradictorie?

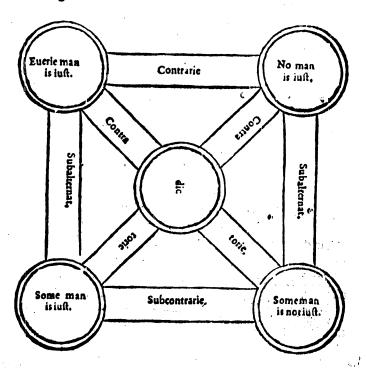
Eyther an untuerfal affirmative, and a particular negative, or els a buineriali negacine and a particular affirmatine, as enerie manis iult, and some man is not fult; of no manis fult: some man is iuft.

Which are faid to be Subalternat >

Byther a vninerfall affirmatine and a particular affirmatine, of els a buinerfall negative and a particular negative : as euery man is inft, and fome man is inft: no man is inft, & fome man is not just.

All which kind of oppolites you may the better remember by confidering with what order they are placed in this Figure fol-

lowing.



Of the lawes and conditions belonging to these source kindes of opposites before recited: and of the diuers matter of a Proposition.

Chap. 3.

Di the better binder Canding of the lawes belonging to the oppolites, it that bee necessary to speake some what of the matter of a Propolition, whereupon the laide lawes doe partly depend.

How manifold is that matter?

Thieefold: (that is to fay) naturall, cafual, and remote of bnnaturall.

When is a Proposition said to consist of matter naturals?

when the wiedicat agreeth with his subiect effentially, or at the leaft necestarily: as when the generall kind is spoken of his fpeciall kind, and the fpeciall kinde of his Indiuiduums, or the difference of his speciali kinde, orthe propertie of his subject : as enery man is alenlible bodier lohn is a man: enery man is reasonable: enery man is apt to speake.

When is a Proposition said to consist of matter Contingent?

when the Predicatagreeth with his lubicet accidentally, lo as it may eyther be, or not be, as John is learned.

When is a Proposition said to consist of matter remote or vnnatural? when the piedicat agreeth no manner of way with the Sub=

tect, as a man is a boile : a man is a fone, et. What are the lawes of contrary Propositions?

Contrarie propolitions can bee true no way both together: as enery man is a fentible body, no man is a fentible body: but they may be both falle, and specially consisting of matter contingent: ab when I fay, enery man is inft: no man is inft: which are both falle.

What are the lawes of Subcontrary Propositions,

Subcontrarie Propolitions conlifting of matter naturall. cannor be both falle at once, as fome man is a fentible body:fome man is not a leulible body: but confiding of matter coutingent, both may be sometime true, as some man is inft: some man is

What be the lawes of contradictorie Propositions?

Those can neyther beetrue not falle both at once, fot if one

be true, the other must needes bee falle, whether the matter bee naturall of contingent, as enevie man is inft, some man is not inft: no man is inft: fome man is inft.

What be the lawes of Subalternat Propositions?

If the universall be true, the particular must needes be true: as enery manis inft, ergo some manis inft, but not contravily: Againe, if the particular be falle, the vinuerfall also must needes be falle, as some man is a flone: cuevie man is a flone.

What good is to be reaped by the knowledge of these opposites? It teacheth to know what speeches be repugnant one to another, and thereby to differne truth from fallhood.

Of the equivalencie of simple Propositions. Chap. 4.

Hat is equivalency? It is the reconciling or agreeing of two poropolitions, hauing one felfe lubiect, and one felfe predicat, in such logic that though they bee diners in wordes, yet they are made to be all one in signification.

How is fuch reconciliation made ?

By the helpe of lignes eyther universall or particular, that are oflike value, and equall one to another, and thereby make the speeches equall.

Giue example.

As thus: who knoweth not this to be true: enery man knows eth this to be true: there is none but that knoweth this to bee truc: all thefe are of like value, and doe fignifie one felfe thing. Againe, some men are wife, fewe men are wife, all men are not wile, normany are wile, are also equivalent specches. The schoolemen doe gine divers rules touching the equivalencie of speeches; but such as in mine opinion ave neyther necessarie nor profitable, for that they cause many times barbarous, buulu= all, and intricat speeches. And therefore I thinke good here to palle them ouer with lilence, withing all men to indge the equiualencie of speeches, rather by the eare and by custome of speaking, and by bluall manner of taking the fame in everie feverall tongue of language, then by any rules, which perhaps will forue in one tongue, but not in another.

Of conversion of simple Propositions. Chap. 5.

Hat is Connersion? At is the changing or turning of the lubiect and predicate, the one into the others place. How manifold is fuch Conversion?

At is threefold, thatis, limple, by accident, & by contrapolition.

What is simple Conversion?

At is that whereby the terms are only changed the one into the others place, the felt fame quantitie & qualitie being ftil referue b. VVhat Propositions are converted by this manner of conversion?

An pnineriall negative and particular affirmative.

Giue examples of both.

Dethe tielt thus: Ro bertue is discommendable. Ergo no bilcommendable thing is bertue: of the fecond thus, Some man is a 19hidolopher, and some 19hilolopher is a man. And by this way To metime uninerlat affirmatines may be alfo connerted, as thole whole termes are convertible, as the fpecial kinde and his Difference of propertie as cuerie man is reasonable, and enerie reaso= nable thing is man: of enery man is apt to fpeak, and enery thing that is apt to ipcake is man.

What is conversion by accident? It is that wherby the cearmes are changed, and also the qua-

eie of the Propolitions, but not the qualitie.

What Propositions are converted this way? An univerlall affirmative into a particular affirmative, and a bninerfall negative into a particular negative.

Giue examples. Bucrie patience is fortitude: Ergo fome fortitude is patience. againe, no vertue is vice: Ergo fome vice is not vertuc.

What is conversion by contrapolition?

It ie that whereby neither quantitie not qualitie is changed. but onely tearnes finite into tearmes infinite, that is to fay: cearmes limitted into tearmes bulimitted.

Which call you tearmes infinite?

Al Rownes hauing a negatite let befoge them, as not man, not beaft.

What Propositions are converted this manner of way? an buinerfall affirmatine into an buinerfal affirmatine, and a cular negatine into a particular negatine. Giue Giue examples.

Pf the first thus: Eurry man is a sensible bodie, and energe thing that is not a sensible body is not man. Of the second thus, some vertue is not Judice: Ergo some thing that is not Judice is not vertue. These speeches in English banesome sanour, but to be spoken in latine after the school manner, are very barbarous or rather monstrous, as valerius tearmeth them, as to say, Quzdam non sufficience stood virtus.

Of a Modall Proposition. Chap. 6.

Hat is a Modall Proposition?

It is that which affirmeth or denyeth some thing not absolutely, but in accreain respect, lost or mode, which moode is commonly the speciate in this kinde of sproposition, and all the rest of the subject. called of the Logicians, Dictum.

What is a moode?

Moode is a word determining and limiting the lignification of some other words whereunto it is toyned, as a wife man, a white horse this word wise being about to man, both limit a restraine the generall signification of the word man, which otherwise of it self comprehended both wise and soolist; and the like is to be said of any other generall ward, whereunto any such addition is put; but of moodes making modall propositions, there are but these sower, that is, possible, Contingent, Impossible and necessarie.

How manifold is a Modall Proposition?

Ewofeld, that is, Confunct and Diffunct.

When is it said to be Conjunct?

when the moode is placed either in the beginning or ending of a propolition as It is impossible that John is licker or thus, That John is licke it is possible.

When is it said to be Dissunct?

when the moode is placed to, as it divided the one part of the Subject from the other: as, for John it is pollible to be licke: and the Williams is faid manie tymes to be true, when the Loniums is falle, being both made of felfs tearmes: as for example, the Logitians affirme this to be true. A white man it is pollible to bee blacke: but this other. A white man to be blacke is pollible, they

affirmeto be faile.

What maketh them so to doe, sith by construction these two spee-

ches in sense doe seeme to be all one?

Becaule the mode is the dilunct, which by parting and fe ties ring the Subject, maketh the Propolition to feeme spoken in discribe tespects, as man to be white in one respect, and blacke in another: and so the speech to be true.

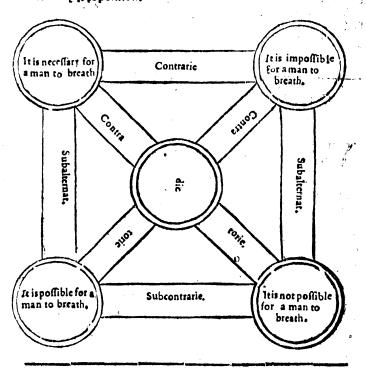
Of the Proposition, Equivalencie, and conversion of modall Propositions. Chap. 7.

E tolde you be fore that of modall Propositions, some were called Conjunct, and some Dissunct: and as for the modals dissunct, they differ but little from absolute Propositions before declared. And therefore wee have here chiefly to deale with Opposition, Equivalency & Conversion belonging to modall coniunct, the matter whereof being not altogether so necessarie, as some men affirme, I minde to make no long speeche thereof. But for the better understanding of Opposition, Equivalency & Conversion thereofit is needfull first to danare the quantitie and qualitie of a modal pro. position: of both which chinges, though Aristotle maketh no mention, but only a little of qualitie : yet the latter writers doe necessarily suppose modall Propositions to be indued with quantitie and qualitie: for they say that the moode necessarie, is much like to a signe vniuerfall affirmatiue : the moode impossible to a signe vniuerfall negatiue : the moodes Possible and Contingent, which are both of one value are like to fignes particular affirmative. Now as touching the qualitie, which is to be either affirmatine or negative, like as the negative in absolute propositions is wont to be added to the verbe, even so in modall propositions it is added to the moode, as by the examples set downe in the figure of Opposition hereafter following ye may casilie perceiue.

Of the opposition of Modals. Chap, 8.

Ow manie wayes are modall Propositions said to be opposite?

They are said to be opposite some manner of wates, eiten as absointe propositions are, that is to say, contraristy, subcontravity, corradictority, a subcontravity, as you for



Of the Equivalency and conversion of Modall Propositions. Chap.9.

He Schoolemen doe affirme that Modall Propositions are easilie made equivalent: by reason that they may be vetered fowere manner of waies, that is to fay, two manner of wayes affirmatively, and two manner of wayes negatively: the first way affirmatively

The Third Booke of Logike. is, when no negative is added either to the Subiect or to the moode, as for a man to be just it is possible, contingent, impossible or necessary: the second way affirmatively is, whe the negative is added to the verbe of the Subject, the mood remayning stil affirmative, as for a ma not to be iust it is possible, contingét, &c. The first way negatively is who the negatiue is only added to the moode, as a man to be just it is not possible, contingent, &c. The second way negatively is, whe the negative is both added to the verb of the Subiect and also to the mood, as a man not to be iust it is not possible, contingent, &c. which is all one and equiua= lent to this affirmative Proposition saying, that for a man to be full it is possible, contingent, Sec. for two negatives, as well in the Latine tongue as in ours doe alwaies make an affirmative Again as touching the Conuersion of modall Propositions, they say that the distunct being like to an absolute or simple Proposition, may be converted both simplie and per accidens, but the Coniunct suffereth no conversion; and though the Schoolemen doe fet down diuers and manifold rules, and haue inuented these fower words of art, that is, PVRPVREA, ILIACE, AMABIMVS, EDENTVLI, attributing as well to the Vowels as to the Confonants thereof certaine fignifications for the better vnderstanding and bearing in memorie the equivalencies and conversions of the said modall Propositions : yet because in mine opinion they are more meete to breed preposterous, intricate and barbarous speeches, then to letue to any cther good purpose, I thinke it better to passe them ouer with silence, then to trouble your memorie therewith: wherefore leaving them as things superfluous, I mind now to treate of an Hypotheticall or compoud proposition, & of all the necessary accidents therunto belonging,

Of a Compound or Hypotheticall Proposition. Chap.10.

7 Hat is a compounde Proposition? At is that which conflitteth of two or more fimple Diopolitions coupled together with tome contine-How manifold is it? (non.

Whreefold: Conditional, Copulative, & Diliunctive.

When is it said to be conditionall?

when the Confunction (Af) is fet before any limple topopolis tion, as thus. If it be a man it is a fensible bodic.

When is it said to be Copulative? when two simple Piopolitious are forned together with a Con= K 3

The Thirde Booke of Logike. Continuction Copulatine, as Bod is true, and man is a lyer.

When is it faide to be diffunctive?

when two linule propolitions are toyned together with a continuction Diffinectine as thus : cyther it is day or night.

Ofhow many parts, doth a compound proposition consist: Df two, that is of the antecedent, and o the Confequent,

Which call you the antecedent?

That which followeth next after the Continuction, as thus : if it be iuffice, it is vertuerbere this speech, if it be iuffice is the antecebent, e the reft of the fpeech, that is to fay, it is a bertue is the the Confequent, and fo et Could be though the words were contrarily placed, as thus it is a verrue, ifit be Juffice.

What thinges are to be confidered in Hypotheticall propositions? Thele : fiell whetherthey haue any quantitie, or qualitie, then whether any opposition, equinalence, or connection do belong to them or not: Thirdly bow to know the truth or fallhoode of enery fuch propolition, beicondicional, copulatine, or biliunctine, & firft as touching quantitie they have none at al, for quautitic is to bee measured by signes butuerfall, or particular, which are onely incident to the lubiectes of categozical propolitions:but qualitie they have, in that they affirm or beny fome thing, by reafon whereof there may be contradiction in hypotheticall plopo= ficions, but it cannot be properlie faid, that they be eyther courtas ry, lubcontrarie, or lubalternat, for that they are without quantitie, for want whereof they neither do aprily admit opposition, es quiualence, or connection, but onely contradiction.

How is that Contradiction to be understoode?

By reason of afficination or negation, which as in simple profitions is to betaken on the behalfe of the verbe copulative, and not of the Subiect of picoicate, fo in compound propolitions it is to be taken on the behalfof the confunction, hauing a negative fer before it, and yet not of energy contametion, but onely of y conaunction conductionall if, whereof I tannot aprly give you any erample in our native tongue, because it is contrary to out naturall and bluall (peech to put a negative before the confunction, if, and therefore I leave to freake thereof any further, and to fay the truti, it maketh but a Grange kind offpeech in the latinetongue, and I beleene is feldome vied in any disputation as to fay thus: non fi animal eft, homo eft, 02 non fi lux eft, dies eft, both which are laioc to be negatine feeches, according to the rule befote giuen: breause the negatine is fee before the confunction fi, and by vertue thereof (as the Schoolmen lay) maketh the whole propolitiOf the truth and falshoode of Hypotheticall propositions, and first of the conditionall. Chap. 11.

Hat is to be confidered to know the truth or fallhoods of Conditionall Propositions? First whether they be affirmatine or negative. for in the affirmatives it sufficety that the one part doth necessarily follow of the other, as thus: If it be a man, it is a fenfible body: and it maketh no matter though the varis scuerally taken be both falle, so as the Consequent be good: as, If a tree be aman, a tree is a lenlible body: for though both thele parts bee faile, pet the Confequent conditionally is true : for a conditionall Proposition bath no regard to the truth of the parts, but onelic that the Confequent may necellarily follow of the Antecedent.

How is the truth of the negative Proposition to be knowned

By the Confequent: for if the Confequent bee not rightlie inferred of the antecedent, then the negatine is true, as thus: it fole loweth not that because a Lyon is alensible body, that therefore a Lyon is a man.

Of the truth and faishoode of propositions copulative.

THen is a copulative Proposition said to be true or false? At is faid to be true, when both the parts be true as when I fay. Bod is true, and man is a lyar: againe it is Caid to be falle, whe eyther one part of both parts be falle: as whe A lay, man is a lenlible body, and Bod is not alpirit. Dere because the first part is true and the second part falle, the whole 1910 uofition is faid to betalle. It is faid alfo to be faile, when both parts are falle, ag thus, Man is true, and Bod is a lyar. Beere both parts be falle.

Whatkind of propositions are wont to be referred to this copulative? Those which they call Temporall, Local, by limititude and cause falleas of time thus, when a penitent finner praveth, then Bod heareth bin. Of place thus, where two or three are nathered together in the name of the Lord, be is in the midft of them. By limilitude thus, As a man dealeth with his neighbour, fo wil Bod beale with him. Of the cause thus, Because the Sunne Chineth, it

The Thirde Booke of Logike.

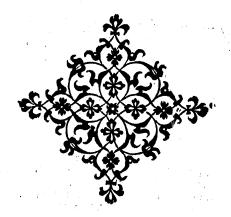
18 day. And therefore certaine Adverbes as these, when, where, etnetil, so long as, as, so as, for therefore, because and such like, have the signification sometime of the Loniunction (And), and sometime of the Loniunction (And), and sometime of the Loniunction (As).

Of the truth and falshoode of dissunctives.

Hat belongeth properly to diffunctive Propositions?

To could of repugnant parts, according to the fignification of Continuctions diffunctive, such as these bee, velor eyther, or else, and such like: as eyther it is day or it is night, whereof the one bestroyeth the other: for if the one be, the other can not bee: and therefore they can not be both true, but they may be both falle, if there be any mean betwiet the two contraries: as when we say, This woman is eyiher white or blacke, both these are falle if the belowne, which is a meaner colour betwiet white and blacke. But the later writers affirmed the diffunctine to be true, if any one or both of the parts betrue, as thus, Eyther a man is a sensible body, or else a tree is a Substance; and to be false when both parts be false, as Eyther a man is true, or God is a lyar.

The end of the third Booke of Logike.





THE FOVRTH BOOKE of Logike.

Of Places. Chap.r.



Hough immediatly after the treatife of a Proposition, the olde men are wont to deale with the order of reasoning called Argumentation, and with the formes thereof: yet sith by order of Nature it is meete to find out matter before wego about to form, frame or order the same, and that the matter of prouing any Question is to be setched from certaine common Places, I thought it best to

treat first of those Places, and then to shewe the order of reasoning.

What is a Place?

A place is a marke or token thewing from whence any Argument apt to proue the Duckion propounded, is to be taken.

What difference is betwixt Argument and Argumentation?

Argument is the bare proofe of meane tearine which is innenseted by him that disputeth to proue the truth of the Duckion: bus Argumentation is the whole reasoning it selfe, of what some so energy be, comprehending both the Duckion, and also the proofe thereof: whereof weathall speaks hereafter in his proper place, and give you eran. plea of both.

How manifold is Place?

Twofold, the one of persons, the other of thinges: the order & distribution of both which you may plaintly see in this Table following.

Hereafter followes the Table of Places.

74 The Fourth Booke of Logike.

To what end ferueth this manifold divisions

That the Dilputers may the more perfectly know the power and proper nature of enery Argument, according to the great or little force of the Place, from whence such Arguments are fetched.

How is Place divided according to the Shoolemen?

Into 2. kindes, the one called Maxim, and the other difference of Maxim.

What is Maxim

It is a generall rule approued and received of all Logitians, in such lost as no man will beny the same, as of contrarie things there must need be contrarie consequents. Againe, what so ever agreeth with the thing defined, agreeth also with the Definition of the same and such like.

What is the difference of Maxims?

At is the proper name of enery Place whereby one Maxim is knowne from another, and to what place enery Maxim belongeth, as from the Contrary, from the Wefinition, from the thinge befined for by these names and such like, we know to what Place enery Maxim belongeth.

To what end serueth this division?

The Marins scrue as shoote ankers and as places of resuge when the adversary shall beny our Conclusion: againe the descretees being sew in number doc cause the multitude of Marins to be the more easily kept in memorie.

Of the Places of persons. Chap. 2.

Though the Places of persons may be very well applyed to the place of common Accidents hereaster following, because they exther goe before, accompany or follow the subjects whereaster they doe belong: yes because there is a difference betwire persons and things, and that the places before mentioned in the Table of persons doe more properly belong to persons then to things, I thought it best to give you examples of every Place belonging to the person, before I come to create of the Places of things, and such of the name, then of the stocke and samily, and so forth.

Of the name.

The Fourth Booke of Logike. more probably then truly, as to fay thus: his name in &moman, auche to be a good man, for that name importeth good. I name merty, could. : 1R0= phina ne for riuco ents. ruaile cisa glut= uffed: fage, cuitt Of Place lome be 1 moccs. ious. วในบะ rgo be is more meete to be tent as Benevall of the warre against Mythri-

L:

01

dates.

Of this Place you may reason eyther in plaise of displaise

	lett of thinges done or written, and kinde of Funerals thew 1				The Definition and the thing defined, The Description and the thing described, The Interpretation and the thing Inters
·	•		Inward Places be either	Of the substance it selfe which be these.	preted. The matter and the thing made. The Formeand the thing formed. The generall kinde and his special kinde. The difference and his propertie. The whole and his partes sutegral. Principall and not principal.
	and some				Generation and the thing ingendred. Corruption and the thing Corrupted, Vic, Abuse. Subjectes.
		Artifi-	iall laces recy-	Or of thinges accompanying Substance as these	Adiacentes, and Actions, Apposition. Common Accidentes. Signesand Circumstances, as time plantand meane, &c.
		ciall Places are cy- ther		The Cause Efficient and his Effect, The End, and the thing ended. The sower Opposite as	Relatives. Contraries, Privatives, Contradictories,
				Thinges divers in kinde: called in latine Comparison, as more or lesse. Like or Vulike. Example and Comparison, Also to Comparison may be added these places. Proportion, Changed proportion.	From the Comparative to the Superlastive.
15 / 15 / da	thinges, which bee cyther			Disproportion, Changed Disproportion, Translation or Figurative speech.	
East of A		or In= artifi= ciall	Or meane (places bee c these three	Coniuga tes, Cafes. Dimilion. All mhigh fix places are co	

The Fourth Booke of Logike.

The beath of Scipio was much lamented of the Romaines, ergo be was dearely beloned of the Romanes . Such a one Rufferen beath most constantly for Christs take, ergo bee was a good Chris Cian.

Of things chancing after death.

Bonogable monuments were fet bp by the people of Rome itt the honour of fulias Cafar after his death, ergo her was honozen and beloned of all the people of Rome in his life time. There were great carrhquakes, and bead bodies did arife immediatly after the death of Chailt, ergo be was the fonne of Bod, and was buinflip condemned.

Of the Places of things, and first of artificiall Places. Chap 3.

That be artificiall Places ? Artificiall Places are those wherein are contapued. such Arguments as of their owne force and nature are able to prone or diffrone: which are dinided (as I faid before) into inward, outward and meane wlaces.

What are inward Places?

Inward places are those which peeld Arguments cyther appertaining to the nature and lubflauce of the matter in queftion, orels to fuch things as doe accompany the fubffance and nature of the thing.

Which be the Places of Substance

Thele, Definition and the thing defined, together with the reft rebearled before in the Table.

Of definition and the thing defined.

TTTHat is Definition?

At is that which briefly, plainly and (properly declarech the nature of any thing, by thewing the fubffantial parts thereof.

How may a nian reason from this Place?

Both affirmatively and negatively, aswel from the Bubicct as the predicate of the Queftion Affirmatively thus, Euery refonable body is apt to learn letters, ergo man is apt to learne letters. Regatively thus, tho bureasonable body is apt to icarne letters, ergo no brute beaft is apt to learne letters.

What be the Maxims or generall rules of this Place?

The Maxims be thefe, what forner agreeth with the befinition, agreeth with the thing defined: and contrariwife what foence aareeth

The Fourth Booke of Logikc. agreeth not with the definition, agreeth not with f thing befined.

What is the thing defined?

That whole nature and property is beclared in the definition.

How may a man reason from this Place? Both affirmatiucly and negatiuely:affirmatinely, as Peter is a man, ergo be is a realonable body. Regatiuely, as an Apc is no man, ergo an Ape is no reasonable body.

What be the Maxims of this Place? what focuer agreeth with the thing befined, agreeth allo with the definition thereof: and what foeuer agreeth not with f thinge befined, agreeth not with the Definition of the fame.

Of Description, and the thing described.

THat is Description? It is a fpecch beclaving what a thing is, by thewing the properties and accidents whereby it bifferethiron. other thinas.

How may a man reason from this Place? Both affirmatiuely and negatively: affirmatively thus, Euery

laudable habite adorneth his pollellot, ergo vertne adorneth his policiozinegatiucly thus, no laudable habite Chameth his owner or pollellor, ergo no vertue thameth his owner or pollellor.

What is the thing described? He is that whole properties eyther naturall of accidentall are

declared in the description.

Howare Arguments to be fetched from this Place?

Both affirmatiuely and negatively: affirmatiuely thus, This beaft is fower force, having long eares and whole feete, ergo it is an Alle: negatiuely thus: This fower footed beat hath no long eares not whole fecte, ergo it is no Alle.

When are arguments to be confuted, being fetched from these Places? when the pelinition of pelcription is not true of biober to the

thing defined oydefcribed.

Of Intespretation and the thing interpreted.

THat is Interpretation? It is the declaring of a name leffe knowne by an other that is more knowne, as thus, Achts is as much to lay as a fautour, a philosopher is a louer of wischome.

That which is declared by the Anterpretation, as this word What is the thing interpreted?

The Fourth Book of Logike, Helus word famiour, or this word philolopher to been toner of Wischame.

How may a man reason from this Place?

Borb laffirmatincly and Becatively, if the tearmes be connerrible. Affirmatucly thus; Dec is a louer of wiledome, Ergo'a 19 bilolopher. Regatively thus: We is no louer of wiscome, Ergo no 19 bilosopher.

What be the maxims of these two Places?

The Maxims of these places are like, for what societ acreeth with the one, agreeth with the other, and contrariwife.

Of the Place of Matter and of the thing made.

Hat is Matter? That whereof any thing is made, as Silver is the matter of a filuer Lup, & the Lup is the thing made. called of the Logitians materiatum.

How is Matter divided?

Anto Matter permanent and Matter transient.

What is Matter permanent

At is that which remaineth in the thing made, retaining fill both nature e name, as fone e timber is the matter of an boule.

What is Matter transient?

It is that which being chaunged both not returne againe into his firft nature: as flower and water beeing made bread will nener be flower and water againe.

How are arguments to be fetched from Matter permanent?

Both affirmatinely and negatiucly: affirmatiucly thus, Beere is comber lyme and frone ergo here may be an house: negatively thus, Becre is neyther tymber, Lyme not ftone, Ergo becre is no bouse.

How are arguments to be fetched from Matter transient?

Affirmatiucly, but not negatively, as here is water and meale, ergo here may be bread: but you can not fay, here is no meale, ergo here is no bread: for the matter permanent being taken away, the effect thereof is also taken away: but this Maxim taketh no place in matter transient, bulede the Argument be made by the picter= feet Wenle or time patt, as thus: Were was no meale, ergo bere is no bread.

What be the Maxims of this Place?

The matter being for downe, the effect allo may be according to the difference of the matter.

The Fourth Booke of Logike.

How may we reason from the thing made to the matter? In matter permanent you may reason from the pielent Wense to the prefent Tenle, thus: Beere are you weapons, ergo here is yon. But in matter transient wee mult realon from the prefent time to the time paft, thus: here is bread, ergo bere hath bin meale.

What be the Maxims of this Place? The thing made of matter permanent being fet bowne, the matter allo muft neede be; and the thing made of matter tranlis ent being let Downe, the matter thereof mult necos haue beene.

How may you els reason from these two Places?

By adding thele two adicctues (good oreuil) as thus: The house is good, Ergo the tymber and Rone was good for the goods neg or befect of the matter permanent theweth the prefent goobs nes of defect of the thing made: and any good of euill thing made of Matter transient, proucth the Matter to haue beene good of euill.

Of the Places of Forme and shape.

THat is Forme? Forme is that which giueth thave and being to the thingformed, whereof also the thing taketh his name, as the foule of man is the forme, and man is thething formed. How is Forme divided?

Forme substantiall which is the Mortall, as the soule of a firtt beeing or shape of anie brute beaft, orimmortall, as the foule thing, and that is eyther lato And into Forme accidentall, which is a meere accident, called of the Logitians Abstractum, as whitenes or blacknes.

Howe are 'arguments to bee fetched from the Forme and the thing formed>

Two wayes, affirmatively from the lubitantiall forme, thus: Bere is the foule of a beaft, Ergo here is a beaft: from the accident al form thus : Beere is whitenes, Ergo beere is some white thing: from the lubftantiall thinge formed thus: The beaft is here, Ergo his foule is bere: of the accidentall thing formed thus : Becre is fome white thing, Ergo heere is whitenes: Regatinely from the Substantiall forme thus: Bere is no Coule of a beatt, Ergo here is

The Fourth Book of Logike.

no beaff: of the accidencall forme thus: Were is no whitenes. Ergo bere is no white thing: of the fubstantial thing formed thus. The beatt is not bere, Ergo his fonle is not beretof the accidental thing formed thus: here is no whitething, Ergo here is no whitenes.

Rehearse the Maxims wherevoon these arguments are grounded.

The Maxims bee thefe, where foune is epther prefent or wanting, the thinge formed allo muft needes bee epiber prefent or wanting, and contraviwile. Pet this Maxim fayleth in the forme of man, for the foule intellective may be, and yet no man, valette you reason from the inbeing of the Forme in the Subject. as in the body is a reasonable soule, Ergo it is a man: for cueric Subject bath his name and beeing in his Chape or forme, as bath beene laid before.

Of the generall kinde.

THat is generall kinde? At is that which comprehendeth manie things differing in focciall kinde, as bath beene faid before.

Howe are Arguments to bee fetched from the generall kinde to the

foeciall kinde?

Both affirmatiuely and negatiuely: affirmatiuely thus. Euerv bertue is to be defired, Ergo Huftice is to be defired. Megatiuelie thus, Ro vice is to bee prayled, Ergo brunkennes is not to bee prayled.

Rehearse the Maxims belonging to the generall kinde?

To what kinde loeuer agreeth the general kinde being bniner= fally taken (that is to fay) pronounced with fome vninerfal figue. as All, eneric or none, to the fame the special kinde doth allo agree: and what focuer agreeth not with the generall kinde bninerfally taken, agreeth not with the speciali kynde: for if no but= nerfall ligne bee aboed to the generall kynde, you cannot reafon affirmatiucly, but oncly negatively, thus: It is no lenfible bodie. Ergo it is no man : but you cannot reason to afferm anucly, as to fay thus, It is a fentible body, ergo ic is a man: because the bni= nerfall figne All or enerie is wanting.

How manie Places doth this Place of generall kinde comprehende? Fower, (that is to lay) All or enery in quantity, All or enery in

respect, All or enery in place, All or enerie in time.

What is All or every in quantitie?

The Fourth Booke of Logike.

Me is when an vnineriali figne is added tolthe generalt kynd, as every plant liveth, therefore every tree liveth.

When is it all or every in respect?

when any generall kinde is underthoode in fome respect, and that the gennerall lignification thereof is restrayned by some worde added buto it, or by some fecret meaning lymitting the fame, as a white beaft, a goodinan : for this worde white reftray = neth the generall lignification of beatt, and this word good the generall lignification of man.

Giue examples of this place?

Bod gauc his holy fpicite to all faithfull men, ergo to his Apoliles.

What is all or enery in place?

It is when the generall kynde is an aduerbe of place, fignis wing enery where of no where, as Juffice is no where trucky er= ecuted, ergo neither in France not in England.

What is all or every in time? Atiswhenthe generall konde is an aduerbe of time, fignity= ing ener or neuer, as Bod is alwaies with vs, ergo now at this

pzelent. What maximes do belong to these blaces?

The fame that voe belong to the generall kynde buinerfally taken befoge mentioned, by bertue whereof you may reason both affirmatively and negatively, as A faid before.

Of the speciall kynde.

How are argumentes to be fetched from the speciall kinde to the generall kinde?

Affirmatiucly, but negatively thus, it is a man, ergo it is fa feus lible body. Butnow you cannot lay, it is no man, ergo it is no fensible body:for it may be a horse or some other sensible thing.

What be the maximes belonging to the speciall kind?

where the speciall kinde is, there the generall kinde must also needes bee : againe all the special kindes being taken away, the generali kinde is also taken away.

Of the place of Difference:

This place is comprehended under the place of definition, for different eight a good part of the definition and we for order take. I have rence is a good part of the definition, and yet for order take Thane thought

The Fourth Booke of Logike. thought good to place it next to the generall kynde and speciall kinde before taught.

How may a man reason from this places

Both affirmatinely and negatinely, as an Dyffer hath feeling, ergo it is a lenlible body, a horle bath no realon, ergo hee is no man.

What be the maxims in this place? "

whatforner agreeth with the speciall difference agreeth with the thing that hath that difference, and whatfoeuer difagreeth with the specials difference, disagreeth with the thing that hath that difference, for they be connectible?

Of the place of Propertie.

Ow may a man reason from this place? This place is contayned buder the place of Description bea fore thewed: And from hence you may reason both aftirmatively and negatively as thus : hee is apt to fpeake, ergo bee is a man : be is not apt to speaker ergo be is no man.

What be the maxims of this place?

whatfocueragreeth with the propertie, agreeth also with the thing that bath that propertie. And whatloeuer bilagreeth with the propertie, difagreeth allo with the thing whereto fuch property belongeth, for they be convertible.

Of the place of whole Integrall.

17 17 Hat is whole Integrall?

That which confifteth of partes having quantitie. How may wee reason from the whole to every particular part?

Affirmatively, but not negatively, thus : it is abquie, ergo if bath foundation, walles and roofe; but you cannot reason fo negatively from the whole to every particular part, as to say thus: Here is an house, ergo here is no foundation of walles. What be the maxims of this place?

If the whole be, enery principall part must needes bee: but if the whole be wanting, fome principall part muft needes be wanting though not all : for the houle might be wanting, and yet the walles and foundation may fill remaine. Of The Fourth Booke of Logike.

Of the place of Integrall partes.

THat is an Integrall part and how is it deuided? At is that which certains other partes maketh bp the whole, and luch Integrall part is cyther puncipal or not principall.

Define these two partes:

The principall is that without the which the whole cannot be, as the head or belly of a liuing body, or as the foundation, walles or couering of an houle. The part not principall is that without the which the whole may fland, as a houle without dozes or winbowes: of the body may line without hands or feete.

How may we reason from the principall part to the whole? Regatively thus : here is no foundation not walles, ergo here is no house but you cannot reason so of the part not principall, but onely inhaning respect to the perfection of the whole, as thus, here is neither boges not windowes, ergo the houle is not pers

What bee the maxims of this place? If any principall part be wanting, the whole cannot bec. If any part not principall be wanting, the whole is unperfect,

Of the places of thinges accompanying Substance.

TTHat is the place of thinges accompanying Substance? It is that which comprehendeth fuch argumentes as are not fetched from the fubltance of the thing it leffe, but from that which accompanieth the lubitance thereof.

Which be those places? Theie: generation, the thing ingendzed, Cozruption, the thing corrupted, vie, fwbiect, adiacentes, actions, oppolition, common Accidences, and Circumftances and fuch like.

> Of the place of Generation, and of the thing engendred.

7 Hat is Generation? At is the firt being oglpzinging of anything.

How

Affirmatincly thus: it was good that Chiff was borne, ergo Chiff was good, it was entil for Rome that Caraline was toull to Rome.

What be the Maxims of this place?

Those things whose generation is good, must needes be good, and those thinges whose generation is cuill must needes bee exail.

How may we reason from the thing engendred to the Generation? Affirmatiucly thus: Cataline was cuill to Rome, ergo the birth of Cataline was cuill to Rome.

What be the maxims of this place?

Af the thing engendred be cycher good or earl, the generation thereof must needed be also eyther good or earll.

Of Corruption and the thing Corrupted.

THat is Corruption?

Corruption is contrary to Beneration, and is the deaftruction of the thingengendred, and the thing bestroyed is saide to be corrupted,

How may were a fon from Corruption to the thing Corrupted? Thus, to execute Thecues and Murberers, is profitable to the common welth, ergo Theenes and Murberers are hurtfull to the common welth. The death of virgil was a great loss to learning, ergo Virgill was a great furtherance to learning.

How may we reason from the thing corrupted to the Corruption? Affirmatincly thus: Virgil was a great furtherance to learning,

ergo the beath of Virgill was a great loffe to learning.

Vyhat be the maxims of these two places?
Those thinges whereof the ende and destruction is laudable, must necess of themselves be pernitious and hursfull: And constraints those thinges whose and destruction is hursfull, must needes of themselves decegood and prostable: Againe of good thinges the loss exuall, and of cuil thinges the loss is good; but in reasoning from these places you must take heede that aswell the Corruption, as the thing corrupted be absolutely good or emil of it selse and not by Accident, for it were no good argument to reason thus, the death of Christ was good; ergo

Ch218

The Fourth Booke of Logike.

Chiff was emil, for his death was good by accident, for our falvation, and not for any cryme that was in him: moreover you must beware that you vie not one felfe predicate both in your antecedent, and in your consequent, for if good bee the predicate in the antecedent, cuill must bee the predicate in the consequent, and if entil be the predicate in the antecedent, good must bee the predicate in the consequent; for this kinde of reasoning consistent of contraries.

Of Vic.

What is vie? Mic is the apt applying of energy thing to hisproper end, as the vie of wine to coinfort the flomathe, and to revoyed the hart of man.

How may we reason from this place?
Affirmatiuely thus: the vie of wine is good; ergo wine is good?

the vie of art Magiche is cuill, ergo the act it felfe is emil.

What be the maxims of this place?
That thing is good or entil, whereof the vic is good or entil.
What is to bee observed in this kinde of reasoning?

What is to bee observed in this kinds of reading;

wo things: sivil that the thing whereof we speake, have some good of each view of it solicated, and not by accident-seconds by that we take not the abuse in sead of the right vie, as to say, wine will make men drunke, ergo wine is not good.

Whereto serue most chiesly these three places last mentioned (tha:

is to fay) the place of Generation, of Corruption, and of Viet and beyone the natural goodnes of entires of any thing.

Of the Subject.

Elow is this worde Subiect here taken?
Lingfor that whereinto accidents and actions doe belong: and having to theake here of common accidentes, I thought it good to theake first of the Subicces, because all manner of Accidents milkneedes cleave to one Subject of other.

How may we reason from this place? Affirmatinely thus, it is five. Affirmatinely, and Arganinely: Affirmatinely thus, it is five. Ergo it is hot and api to burne, her is a man, ergo apt to laugh of to vicepe. Regarinely thus, deade men have no being at all.

M 2

The Fourth Booke of Logike. 86 ergo bead onen are not milerable, be bath no gall. ergo bee cane. not tecangrie, there be no Digmenns, ergo they fight not with Crancs.

Which be the Mixims of this place?

If the & ubicct be, the naturall accidentes and actions belones ing to the Subject mult alfo necdes beerand the Subject beina raken away, all the accidentes and actions thereof mut also bee taken away.

How may such argumentes as are fetched out of this place bee cons

futed?

when the Accidentes doe not of necellitie belong to the Subicct, as thus, becis a man, ergo bec is a good Hoet, for this accident belongeth not of necessitie to enery man.

Of A diacentes and Actions.

For so much as Adjacentes, otherwise called perpetuall Accidentes,& also naturall and proper Actions belonging to any Subject bee eyther contayned vinder the place of Property, of Difference, or els of common Accidentes and have like kinde of reasoning, I thought good therefore to refer you to those places, whereof some are taught before, and some do follow hereafter.

Of Appolition.

TATHat is Apposition? Appolition is when athing Cheweth what his ownequas lity of operation is by being put of added to another thing. as, while Chalke being put to a wall will make the wall whyte, and thereby Chaike freweth it felfe to be whyte, fo like wife Inke being put to paper, or fuch like thing will make it blacke.

How may a man reason from this place?

Affirmatiuely thus: Chalke being put to a wall will make it white, ergo Chalke is white, fire being put bnoer a Cauldzon of water, will make the water hotte, ergofire is hot. By this place allo a man may proue connectation or company with others to be good or entil in this fort. This youg man keeping company with that oldeman is made vertuous, ergo the olde man is hertuous, he is become a theefe by keeping Company with fuch a perion, ergo that perion is a theefe. And therefore the Scripture layeth, cum bonis bonus eris, & cum peruerlis peruerteris (that is to

The Fourth Booke of Logike. 87 fay) with the good thou thate be good, and with the froward thou Walt learne frowardnes.

What be the maxims of this place? If one thing being put to another, endueth the fame with any gnality, that thing mul needes haue the lame quality it felle, 3 Do place this place next to action because it feemeth to me that it appertuencth to action.

Ofcommon Accidentes.

TTHat call yee common Accidentes? A call thole common Accidents, luch thinges as are cy= ther alwayes or for the most part lo unit together as the one goe eth before or after the other, or els accompany each one the other: whereoflome are necedarie, and some probable.

How may we reason from the Neccsarie? Both affirmatiuely and negatiuely, & first affirmatiuely, by the

fatter part thus. This Applettee hath flowers, ergo it hath bud= Ded, it hath fruite, ergo it hath both budded and flowicd. Chis woman is brought to bed of achilde, ergo thee bath conceined.

Regattuely by the former part thus. This woman neuer conceined, ergo thee can bring forth no child. This man neuer findi-

ed, ergo bee is not learned.

What bee the maxims of this place? Afthe latter bee,the former muft needes goe before, and if the former were nor, the latter cannot bee.

Of Probable Accidentes, Coniectures, Presumptions, Sygnes, and Circumstances.

How may we reason from Probable Accidentes? From Brobable Accidentes you may reason Affirmatiuely. thus: The feaft of Bacchus is this day celebrated, ergo there will be many dunkenthis bay. The generall Seffions are holden this day, ergo there will be fome hanged.

What be the maxims of this place? Afthe latter be, it is likely that the former went before, and if the former bee, it is like enough the latter may follow: but you mult beware in reasoning from this place, that you ferch notyour argument from fuch Accidentes as chance but feldome, or be inbifferent, for fuch be neither necessarie not probable, but lophis Bicall and fallible, as to reason thus. Shee is a fagie woman, ergo thee is vnchaft. V Vhereto.

Wheretakruchithe place of common Acaldense chan with the Inche Indicate the belief greatly to maye the fact. In the Demonstrative kinde to praise of displace. In the Deliverative kinde to praise of displace. In the Deliverative kinde to perivade of displace, and the concernes necessary the purpose, and therefore this place is much bled of natural sphilosophers to prove thinges by inaqual signes, of by sphilosophers to prove thinges by inaqual signes, of by sphilosophers and monsters, as by blaining starres, and such like, by wonders, and monsters, as by blaining starres, and such like impressions. Also it is much bled of Educaments, Southlayers, and such as ble to image by Lonzottures, and therefore this place extendeth very fir, and seneth to many bles. Dethero also are referred the places of circumstant ces, and chiefly of time and place, from whence good arguments, may be fetched.

OfTyme

How are argumentes fetched from time?
Aegatiuely thus: Pythagoras was not boine in Numa
Pompilius time, ergo Numa was not Pythagoras scholler. The ceremontal lawes of Moses were made but so, a certaine time, ergo
after that time they do not binde.

VVhat be the maxims of this place?

Bothing can bee without time, for if time bee taken away, the thing also mult needes fayle.

of one of the OfPlace.

How are argumentes fetched from place? Regatuely thus: Cicero was not at Rome, when Iulius Ces far was flaine, ergo Cicero flew him not.

What is the maxime of this place?
130 certaine body of thing is without a place, neither is one body at one time in divers places; and thus much touching insward places:

Of Outward Places and first of Causes.

VV Hich be outward Places? Durward places be thote which apperram to the thing, and

The Fourth Booke of Logike. 19 89 and per do not cleanethereunto: of swhich places the siest is of Lantes, and Effectes.

Wyhaeira Caulet A Caule is that by vertue whereof another thing followeth.

How many chiefe kindes of Caufes be there?
Fewer, (that is to fay) the Caufe Efficient, the ende, matter, fower, of the two last whereof we have spoken befoze, becaufe they be inward places, and no belong to the Substance of the thing, and therefore we have to deale onely here, with the cause Efficient and end.

Of the Cause Efficient.

WHat is that cause Efficient, and how is it deuided? Caufe Efficient is that from whence proceedeth the firth Deginning of any thing that is made of bone, and is the maker thereof: As for example the Carpenter is the Caule Efficient of the house which he maketh, and to is enery Artificer of his own worke. Caules Efficient are beuided into two kindes (that is to fay) Caufe Abfolute, and Caufe Abiumant. Caufe Abfolute wogbeth by his own force and vertue, as the fire that burneth . Caule Abinuant workerh not by himfelfe, but is a helper and luch caufe is fometime principall, as vertue is a Principall Caufe of bleffed life, and fometime nor principall, as the giftes of the body and of fortune be helpers to the happy life :but not paincipall Caufes thereof. Againte of Caules, tome are of Decemity, without which the thing cannot be mabe, as the Inftrument of matter, and fome are faibe not to bee of Receffity, as when wee fay, the fpeaking of cruth caufeth hatred, and yet not of Accelitic. Alio of Caules Efficient, fome be Ininerlall, and fome Particular, as the Ecliple or cuill Confunction of certaine planctes is the Cla minerfall caufe of potitionce : but the cournption of humous in mans body is the particular cause thereof, Againe of causes some be called of the Antines Propinque (that is to lay) nigh buto the Effect, as the father and mother be the nigheft Caufes of Benevation of Children. And fome be called Remore, (that is to fay) res moued caules, which be further of, as the Brandlirs, and Brans Dames ofthe laide children. Moreoner of Caules Efficient fome worke by a certaine naturall Mecellitic, as thele that lacke choile and indgement,as fire that burneth, and the Sumie that thineth. and all other naturall thinges that bor worke by their own force and bertue. Some againe Do worke by Councell, realou, and free will, as men, Angels, and most chiefly Bod hunfelfe. H ove

How may we reason from the Efficient Cause to the Effect?

From the necellary Efficient Caule you may reason both Affice marinely and Accarinely. Affirmatinely thus. The Sunne is lately done downe, ergo it is twilight. Regatively thus, The Sunne was not by when Troy was delitoped, ergo Troy was not bestroped in & day time : but from the Efficient not Recenque you can reason but onely Afternaturely thus : hee is Claine, lergo hee is bead : but you cannot fay, bee is not flaine, ergo bee is not bead.

VVhat be the maxims of this Place?

The Accellarie Caule Efficient not letted, the Effect muß needes follow : as if he bath dunken poilon, he must needes dye. But if fuch Canfe fayleth, the Effect also muft necdes fayle : as the Sunne is not op, ergo it is not day thee never fludied, ergo be is not learned, to which place may be referred the places of occas lion, Infrimient, Meane, and Beneration.

How may we reason from the Effect, to the Cause Efficient?

From the Mecellarie Effect, both Affirmatively and Megatively thus it is day, ergo the Sun is bu, it is not day ergo the Sun is not bp. From the Effect not Mecestarie you may onely reason Megatiucly thus: beis not bead, ergo be is not llain, but you canot reason so Affirmatiuci y as to lay, he is dead, ergo he is Caine.

VVhat be the maxims of this place?

The Effect being put, the necellarie Caule mult needes bee, and. the Effect being taken away, the necessary Cause is also taken as way.

VVhen do Argumentes fetched from this place fayle? When the Laule is not necellarie or proper.

Of the End.

TT THat is End and how is it deuided?

The End is that for whose sake any thing is Done, and of ender some be chiefe and last, and some not chiefe but helping: The chiefe is that which is delived for it felfe lake, and fuch is the belt flate of cuerie thing in his kinde, as bleffed life to manicous rage, and hercenes to a boile of leruice: beat & divnes to fire, colde nes and moilines to water ec. The beining end is that which is belired not for it felf lake, but for that it belpeth to attain the chief eftend, and of such belying endes one may be better then another as when we defire money to buy a houle, and the houle to dwell

How may we reasen from this place?

The Fourth Booke of Logike. Both Affirmatiuely and negatiuely, affirmatiuely thus, bertue is good becaufe bleded life is good, negativelythus:if adulterie be not good to allure another mans wife, to break wedlocke is not

gooō. What be the maxims of this place?

That thing whereof the end is good or enill, is also of it felle good or enill.

Tell the vie of these places of Causes, and whereto they serue?

The vie thereof is diners and manyfolde, for fith that inthe De= liberative kinde two principall queftions are to bee bifcuffed, firft whether the thing bee profitable, and fecondly whether it may be polible and conneniently bone ornot. Argumentes to proue che firth, are to be fetched out of the end and effect. And to proue the fecoud out of the Caule Efficient, Alfo in the kind Demonfra tine to praife or bifpraife. Arguinents are to be fetched out of the End and Effect. Thiroly in the Judiciall kinde, wherein boubt vileth of the fact , and will of the boer, Argumentes are to be fct: thed from the end to proue or dilproue the fame. Finally thefe places together with the other two Caules, Matter and Foime before taught, Doe ferne to make thole kindes of Definitions which we call Causall.

Of Oppolites.

VV Hat be Opposites? Thinges contrary one to another. How many kindes of Opposites be there? Fower (that is to lay) ixelatives, Contraries, Prinatiucs, and Contradictories.

And first of Relatiues.

THen are thinges faide to be Opposites by Relation? when according to their owne lignifications they have mutuall Relation one to another, as the Father and the Sounc.

How may we reason from this place? you may reason from the Affirmation of the one to the benyali of the other, thus: Augustus was Octavius his sonne, ergo her was

not his Father.

What be the maxims of this place.

Syth Melatines be alwayes together by nature if the one be, the other

The Fourth Booke of Logike. other mit needes bes, and if the one bee saken away the other is also taken away.

What is to bee obscrued in setching Argumentes from this place? You muft beware that you have one felf respect, and not binevie. for to reason thus is no good Consequent, This man is a father. ergo bre is no fonnt, or thus, This man is his Superior, ergo not bis Inferior, for in Dinerfe respectes be may be botha father and a Sonne, a Superior and Inferior, a Superior in one refuce. Inferior in another.

Of Contraries.

Hat be Continuies and how are they deuided? They bee two Extreames Repugnant one to a nother. whereof fome are called Bochiate, (that is to fay) having a mean. and fome Immediate bauing no meanc at all.

How may we reason from these two kindes?

From the first king von may conclude negatinely thus, he is no bigali, ergo bee is not couetous: from the fecond kinde von may reason both Affirmatiuely and Acgatinely thus : This man is whole, ergo be is not licke, This man is not whole, ergo het is ficke.

VVhat be the maxims of this place?

The Maxime of the affirmative to the negative is the general Marin to all Oppolites thus : whatloeuer agreeth with the one Popolite, muft needes bilagree with the other Dppolite: but the Barime of the Immediate is thus:if one of the Contravies Immediate be not, the other mult necbes bee, as the former crame ples do plainely wew.

Of Prinatines.

Hatbe Prinatives, Bunatiucs are two Contraries belonging to one felfe Subject apt to receive the same, in the which Subject, when the one is wanting (at fuch time as nature both appoint) the other anust needes bee.

How may we reason from this place?

Two waves : first from affirmation of the one to the desiral of the other, which is common to al popolites, as thus, he is blind, ergo bet feeth not. Secondly you may reason from the beny-

The Fourth Booke of Logike. all of the one to the affirmation of the other; thus : hee cannot fprake, ergo bee is bumbe. But this kinde of argumentisnot throng, buiene chothing required bee applied to his proper Bubiect, and in luch time as nature hath appointed, for it were no good argument to lay thus: a lucking chi lbe cannot fpcake, ergo hee is dumbe, or thus, a whelpe of two dayes olde cannot fee, ergo bee is blinde : for nature commonly suffereth not the childe to speake before it bee two yeares olde, northe whelpe to fee before it be nine bayes oibe.

VV hat be the maxims of this place? If the one bee not in the Subiect apt to receine the fame at fuch time as nature hath appointed, the other mult needes bec.

Of Contradictories.

VV Hat be Contradictories? They bee Contraties having no meane, whereof the one denyeth the other.

How may we reason from this place? Both Affirmatiuely and negatively thus: hee is wife ergo hee

is no foole:hee is a foole, ergo hee is not wife.

What is the maxim of this place? Afthe one be the other cannot beeifor two Contradictories cannot be together at one felte time, in one felle Subicct, and in one felfe refpect.

Of thinges differing in kynde called of the Latines Disparata.

V Hat be they? They are those thinges that do differ in nature and kind, as a man, a boile, aftone, actee, whereof enery one biffereth from another in killbe and nature.

How may we reason from this place? From the Affirmation of the one to the benyall of the other, as

thus, Peter is a man, ergo het is no hogle.

What be the maxims of this place? Whatfoener agrerth with the one, agreeth not with the other. What is to be observed in reasoning from al these kinds of Opposites; That the Repugnancie confift in the Prodicate, and not in the

The Fourth Booke of Logike.
Subject: for it were no good Consequent to say thus: whatlose ever sect is a senting book, ergothat which is him is no sential book, so for here the Contracted considers in the Subject, a not in the speciate.

Of Comparison.

How may we reason from the place of Comparison?
Chiece manner of wayes, that is, extres from the More to the Lelle, or from the Lelle to the More, or from Like to Like.

Of the More.

These two wordes More or Lesse, how are they to be taken?
were understand here by More, that which hath more probabilitie, and by the Lesse, that which hath lesse probabilitie.

How may we reason from the More to the Lesse. Ducly Regatinely, and that three manner of wayes: first from § Subject, as thus: Ciceró was not able to befend this cause, much lesse any other continuen Diatog: secondly from the Potentia cate thus: if this man bee not able to beare one hundred weight; much lesse two hundred weight: thirdly from the Subject, and Potentiate both together thus: a trong man is not able to beare a hundred weight, ergo much lesse a weake thiste, is able to beare two hundred weight.

VVhat is the maxim of this place? If it prevaileth not in the more it cannot prevaile in the Leffe.

Of the Lesse.

Afficinatively, three manner of waies, as before from the Subject thus :a little childe was able to beare tentie pound waight, ergo much more a from gman: From the Predictive thus: if Marryres were ready to look their lives for Christs lake, much more their temporall goodss: From the Subject, and the Predicate both together thus: Christ luffered more greuous tormentes for our sakes: ergo were ought to luster a little paine for bis lake.

What is the maxim of this place?
If the Lette prenatie, the More mult needes anaile.

The Fourth Booke of Logike.

Vyhat is to be observed in reasoning from these two places? You must beware that you take not the Moze so, the Less, nor the Less so, the Moze, for many times that which seemeth to be the Moze in number or quantitie, is the Less in purpose, and contrary wise, as so example: to beare a hundred weight is moze in quantitic then to beare halfe a hundred weight, and yet in purpose it is less, so, it is less probable, aless likely to beare a hundred weight, then to beare halfe a hundred weight.

Of Like and Vnlike.

How may we reason from Like to Like? when the thing which wer bring to proue is like or equall to the thing that is to be proued: from which place we may reason both Affirmatively and Regatively, thus: Peter is mortal, ergo Paule is mortall. The day Labourer is worthy of his byer, ergo the ideacher or Teacher: A man ought to be drowned in the sea so, killing his father, ergo her ought to be executed with the like death so, killing his mother.

Vyhat is the maxim of this place? Of thinges like, like iungement is to bee made: but note that this kinde of reasoning of like is more apt to teach and to print in the heavers minde a finely representation of the thing, then to bree him by any necessitie of dew proofe to beleeve the same, because it is buppossed, that the two thinges which are to bee compared can be like in all pointes, and therefore this is the weakest hypose of argument that is, and yet necessarie to such one as is before declared, and specially so, Lawyers, to prove one ruled case, of solvingement by another like. To this place also is referered the place of Example.

Of Example.

How may wee reason from this place? Afficinatively thus: Peter flew Annanias for lying, ergo without al doubt Bod wil punish those that vie to be: the maxime whereof is all one, with that of Like before set downc.

Of Vnlike.

Megatinely thus: Bod is not as man is, for man is a ly-

The Fourth Booke of Logike.

96 triergo Bod'is trut and no lyente the trans and entiry for What is the maxim of this place? 11 11 11 11 11

Of thinges bulike, bulike indgement is to bee made.

Of the degrees of Comparison.

TO the place of Comparison, me thinkes it; were not amisse to referre all those places which Aristotle reciteth, and are taken out of the three degrees of Comparison, which children learne in their Accidentes, (that is to fay) the Positive, the Comparative, and the Superlatiue.

From the Comparative to the Politiues.

How may we reason from the Comparative to the Positive? Affirmatuely thus : Virgill was a more learned Poete them Horace,ergo Virgill was a learned Pocte: hony is sweeter then milke, ergo bony is fweete.

What is the maxime of this place?

If the Comparative degree betruely and properly applyed to any thing, the Politice must needes bee allowightly applyed to she same. I say, here properly to anoide Ambiguitic, for it were no good Confequent to fay thus : the fea of Caipia is moze fwecte then any other lea, ergo it is sweete and not falt: for this worde freete hath not in this freach his proper lignification, but is the ther taken, for that which is lelle butter or falt.

From the Positive to the Comparative.

LJOw may wee reason from the Positive to the Comparative? Onely Regatiuely thus : Zoilus was no learned Boete, ergo bec was not better learned then Homer.

What is the maxim of this place? Af the politime be denied the Comparatine also mult needes be benved.

From two Politiues to two Comparatives and two Superlatives.

HOw may we reason from two Positives to two Comparatives and

The Fourth Booke of Logike.

to two Superlatives at once, and contrarily? In this manner:that which is good beferueth fuffly to bee belaued, ergo that which is bester ought more iuftly to be beloned. and that which is beft, ought moft juftly to bee beloued. And muchafter this manner you may reasonfrom a bouble Comparatiue to a bouble politine thus : that which is more houed : is more laudable, ergo that which is honett is laudable.

What is to be observed in reasoning from these degrees of Compa-

you must take heede that the Predicate bee spoken of the Sub= tect naturally and necessarily, and not by Accident, fog it were no good Confequent to reason thus : bee that is learned is honell, therefore he that is more tearned is more honeft : for a man map have much learning, and yet finall honefty.

Of Proportion.

Hen are we faide to reason from the place of Proportion? when two like proportions being compared together. we conclude in this or luch like manner : looke what proportion is betwirt 6, and 4, the fame proportion is betwirt 12, and 8. but betwirt 6. and 4. is proportio Sesquialtera, ergo betwirt 12. and 8, the like proportion is: for when one number or mealure both comprehend another carce and one half thereof, that is called proportio fesquialtera, as 12. and 8. and if it contayne it once and one third partthereof, then it is called proportio felquitertia, as 8. and 6. for 8. contagneth 6. once and two ouer, which is the third part Df 6.

What is the Maxim of this 'place? Ofthinges hauing like proportion, like indgement is to bee

made. Whereto ferueth this place?

This place is necellarie for Judges and Magiftrates that haue to confidere of equitie in caules of inflice, and in remarbing verene, of in punishing byce, in which the Beometricall proportion would be alwaies bled . Some bo gine fuch crams ples of this place as in my opinion do rather belong to the place of Like thento this place, for the argumentes of this place ought properlie to be fetched out of the Predicament of quantitie, and not out of qualitie, of out of any other predicament. Of

Of Changed Proportion.

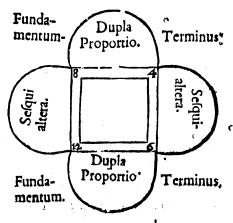
TTTTHat is changed Proportion? Changed proportion is when the Foundations, and Terines of two like proportions are answerable in proportion afwell amongst themse hies as one to another.

Whit meane ye by these two wordes foundations and termes?

The foundation is that from whence the Comparison first proceedeth, as the Kather, and the Tearme, Bownde or end is that whereunto the faide Comparison is applyed, and endeth in the fame, as the Son, atherefore the Son is called the term, bownd or ende : whereof wee hand funken before in the peredicament of 18 clation.

Give Examples of reasoning from this place?

Looke as 8, is to 4, lois 12, to 6. (that is to fay) in double proportion one to another, ergo as 12. is to 8. fo is 6, to 4. for each one contagneth the other once and a halfe, which is called proportio fesquialtera. The manifelt Demonstration whereof you may fee in this figure here following.



Why

The Fourth Booke of Logike. Why is this Proportion saide to be changed or transposed?, Because the order of numbers that are compared, is altered in the conclusion: for in the Antecedent the firft is compared to the fecond, and the thirde to the fourth : but in the Conclusion the third is compared to the first, and the fourth to the second.

Of Difproportion,

Ow may we reason from this place? Regatiuely thus: 12.15 not to 6, as 8. to 6, but 12. to 6. is Double in proportion, ergo 8, to 6, is not double in proportion. What is the maxim of this place? Of thinges having valike proportion, valike indgement is to be made.

From Disproportion changed or transposed.

How may we reason from this place? Megatiucly thus: 12 is notto 6, as 4, to 3, for terwirt the two first is a double proportion, and betwirt the two last fefquirertia, ergo 12. is upt to 4. as 6, to 3, for the one is a tripla, and the other bouble.

What be the maxims of this place? If the first be not to the second, as the thirde to the fourth, then the firt Chall not be to the third, as the fecond is to the fourth.

To whome are these places most familiar? To those that are exercised in the Mathematical sevences.

Of Translation.

Evanslation, otherwife called a Betaphor, is a figure THat is Translation? ofspeech, whereby the proper signification of a worde is chaitged into an other unp joper, for fome likenes that is betwirt the thing lignified, and being generally taken it is rather a Erope, of figure of inheroricke, more meet to adorn fpeech then to prone any thing thereby :norwithftanding being taken here an a place of Logike, you may reaton both Affirmatinely and Begatinelic, in this folt, a roaving Lyon that leckethto deuouve, is to beclea-

The Fourth Booke of Logike. red, ergothe Denill is to bee feared: Loue is blind, ergo they that be in lone are not able rightly to judge.

What be the maxims of this place?

mbatforner agreeth with the Metaphoxicall name, agreeth alto with the proper name, and contrariwile.

Of Meane Places.

TTT Hat be meane Places? Meane Places are those from whence such Arguments are to be fetched, as do partly agree with the nature of the things to bee proned, and do partly differ from the fame.

How are Meane places deuided?

Into Confugates, Cales, and Diuffon.

And first of Conjugates and Cases.

TTTHat be Conjugates or Cales? Conjugates of Cales be like words deriued all of one felfe word, differing onely in termination or ende, as wildome, wife, and wifely: notwithstanding some vie Confugates and cales as leucrail places.

Why, wherein do they differ ?

Their Difference is very final lauing that in Arguments fetcha ed from Confugates, the Abstract is mentioned, but not in those that are fetched from Cafes.

How may we reason from these two places?

Both Affirmatiucly & Megatinely, from the Confugates thus: A infiman is to be prailed, ergo Auflice is to be prailed: a vicious man is not to be prailed, ergo vitioulnes is not to be prailed. Fro cales thus: Be doth all things wilely, Ergo he is wile: Be both nothing wifely, ergo bec is not wife: for in thefe two last examples the abstract which is wisedome, is not once mentioned: what abstract is, looke before in the Chapter of predication lib. r. cap. s. but you must beware in reasoning from this place that vour phale of speech bee naturall and proper, anonot onproper: for it were no good argument to lay thus: white is lweete, ergo whitenelle is fweetnelle.

What is the of maxim these two places?

Whatloener agreeth with one of the Coningates or cales, must needes also agree with the other. O£ Of Division.

what Diulion is, and how many kindes there bee, THat is Division ? and what is to be observed in enery kinde hath beene declared before, Lib. 2. Chap. 4. when we thewed the order of deffening and deuiding.

How may we reason from Division?

Two manner of wates: fielt from the denying of one part of more of the divition, to affirme another parte thereof, as thus: Queric fentible bodie is whole og ficke, but Peter is a fentible body and not licke, ergo be is whole : or thus. Of fenfible bodies there bee some whole, some siche, Peter is a sensible bodie and not licke, ergo he is whole. In these two kindes of examples the dis uilion confisteth onely of two partes, wherein it sufficeth to deny the one for the affirming of the other. But if the division confift of many partes, then you must beny all the partes fauing that which you would affirme, as in this crample following: Plate bilputeth, is a propolition, but it is neyther uninerlal, particular, not indefinite, ergo it is a lingular propolition : in which kind of reasoning it you leane out of omit any parte that is to be dented, then the conclusion is naught, for it is no good consequent to lay thus: this propolition Plato disputeth, is neyther brinerfall not particular, ergo it is indefinite. Poiwithfianding if you toyn y part omitted in your Antecedent with a confunctio biliunceine, pargument may bee made good, as to lay thus : this propolition Plato difputeth, is neither vinnerfal noz particular, ergo it is either indefinite or lingular.

What is the maxim of this first way of reasoning? The Marin is thus: whatfoeuer agreeth with the thing biuided, muft needes agree with fome one of the partes thereof.

VVhat is the second way of reasoning from Diuision?

The second way is to proceede from the affirming of one of the partes to the denying of the other, if it confift but of two, or to the benging of all the reft, if it confift of many. Of two parts let this be your crample : De sensible bodies some be whole, some ficke, but this sensible bodie is whole, ergo hee is not siche. Di many partes thus: of propolitions one is buinerfall, another particular, one indefinite, another lingular: but this propolition Plato Disputeth, is lingular, ergo itis neither vniuerfall, particular, noz indelinite. **£D** 3

102

What is the maxim of this way of reasoning?

whatfocuer agreeth with one of the parts, must needes difagree with all the reft, for every good division would bee made of partes meere repugnant, or at the least diners in kinde one from another: for it is a principal condition requilite to divilion, wherboon the fecond way of reasoning is grounded even as the first way is grounded byon another good condition belonging affa to dimition, which is that the thing dimided may not contain more or lesse then his proper partes.

Of inartificiall places.

Hauing lufficiently spoken of places, inward, outwarde, and meane, which as I faio befoje are places artificiall, it is incet now that we speake of the places inarrificiall, which according to Quintilian be thefe fir, foreindgements, Rumors, Worture, mis tings of Enidences, Dath, and withelles: All which are briefly and plainely fer forth in the table of authoritic here following, be= taufe they are all contained under the place of authoritie.

Of Authoritie.

Ow is Authoritie here to be taken ! Authoritie is here to be taken forany tellimonie worthy of credite.

How may we reason from this place?

Affirmatively this: the learned Philosophers say that there be foure elements, whereofall other thinges are mixt and compounded, ergo it is true. Chaift faith that wholoeuer is baptiled, and beleeueth in bim thall be faued, ergo it is true.

VVhat be the Maxims of this place?

Whatfocuer is allowed by the most part of the wife and learned, is to be belieued as a thing probable, neyther ought we rallly to diffent from their opinion and indgement. Againe, enery man is to be believed in his owne art, but for lo much as Auchoritic is two fold (that is to fay) dinine and humaine, and that all argumenus fetched from this place bee not of like value, for some vee true and infallible, some probable, and some sophisticall: this table therefore here following apall plainely fet forth enery kinde by it felfe, whereby you half eafily discerne the one from the other.

The Table of Authority here following.

Dinine which is twofolde. Written.

Of the written which we call holy Scriptures, sounde arguments are made so long as the words are truely expoun ded according to the meaning of the holy Ghost. But they be weake and captious if the authority be corrupted eyther by addition, subtraction, or alteration of any worde, fillable, or letter, or by wrefting the fense others Lwise then the holy Ghost meant it.

vnwritten tras

'As fortradition or enwritten retily of what valewitis and what credit it hath, I leave to the judgement of the learned divines amongst whome is no small strife and contention in these dayes for the same. The Paynims wete wont to referre to divine authority the Oracles & answeres of their falle Gods, Priestes, Prophetes, and Southlayers, which true Chriftians ought vtterly to res icet, and to abhorre: notwithstanding Lactantius letteth not to proue the birth, death and pallion of Christagainst the Panimes by Sybels propheties, because he knew the y would give more credit to them then to the holy (crip:

or Humaine which ist hrefolde

Authority is twofolde

Hyfories, Lawes, Statutes, Decrees, Judgements, ruled Cases, Maxims, Prouerbes, General | rules, Patentes, Warrants, Lycenses, Commissions from the Prince, Charters, Deedes, Releates, Court Rolles, Extentes, Accountes, Obligations, Indentures, wils and Testamentes, and fuch like.

thinges vttered by mouth

tures.

wrytings

If it be by mouth, it is eyther free and voluntarie, as voluntaric Confession, or Testimony, Rumor, Opinion, and the speech of the wise.

Or else forced by oath or torture.

And the thirde kinds of humaine Authority is that which is allowed by vie and custome of the people,

CLS

104 The Fourth Booke of Logike.

As for fuch Argumentes as are fetched from humaine Authoristy, the lawes do teach at large, which be sound a which be weaker notwithkanding forsomuch as Quincilia affirmeth, that the inaraticial places, are the six places about mentioned. I have thought god to let downe according to Valerius, the definition of energy place, and briefly to shew how energ such place may bee consisted or impugned.

And first of Foreiudgements or Ruled Cases.

Hat call you Foreiudgementes or Ruled Cases. Shey bee indgementes or sentences beretosor pronounced, whereby Judges take example to gine like indgement in like cases.

How may a man confirme or impugne Foreiudgementes?

You hall confirme them by aggrauating the authority of those that first pronounced them, and by the likenes of the Cases: but you shall impugn or consute them by extenuating or diminishing the authority of the first pronouncers, and by the unlikenes of the Cases.

Of Rumor and Fame.

What Difference is betwire Rumor and Fame?
Rumor is a particular affection of affirmation proceeding of some sulpition, without any certaine author. But Hame is a common affirmation having some certaine author reyther of which whosener will impugne, must call it an uncertaine brite of clamor, taking his beginning first of malice, and his encrease through credulity and lightness of beliefe, and that the same may chance to the most innocent man, that is through the Fraude of his enemies, publishing abroad fallesurmices against him. Contrary he that will defend Hame of Rumor must say that it rises in the same as publike Testimony according to the olde that it is accounted as a publike Testimony according to the olde that it is the voice of Bod.

Of Torture.

VV Hat is Torture? Togiture is a painefull kinde of punishment, innented for the

The Fourth Booke of Logike. 205 the inquisition of truth, and violently to wrett or wring the same out of such as would not otherwise consesses.

How is this place to be confirmed or impugned?

At is to bee confirmed by aggrauating the necessarie ble of tozeure so, the sinding out of the truth; but who so will impugne it must say, that such to trute causeth many times more lies then true tales to be told, so, those that bee strong and able to endure paine, and of a resolute mind, will never yeeld so, any tornient to say otherwise then they list themselves. Againe, if they be weake and not able to suffer paine, it maketh them to say whatsomer you will have them, be it never so false.

Of Writings and Euidences.

Hat is meant by Writings?
Deedes, Andentures, Releales, Obligations, and fuch like other Euidences before rehearled.

How is this place to be impugned?

You may impugne Enidences of writings, if ye can prove them to be unperfect any manner of way, as to be forged, to bee made by some collusion of traude, of to bee extorted by soccession some that was put in scare, and such like.

Of Oathes,

WHAT is an Oath?
It is a religious affirming or denying some thing, by calling Bod to wirnelle, which is the Arongell bond that may be to bind mans faith and confidence.

How is this place to be confirmed or impugned?

De that will prove by this place must aggranate the integritie, honestie and holinesse of the parties that are swove, saying, that the oath of an honest, holy, and religious man is of great impostance: And hee that will impugne it must be cleane contrary: saying, that they are naughtie ment hat are swove, and common Aurors, which by reason of wicked custome of swearing will easily bee followine: or he must say that the partie swearch to teare, some, harred, so, hope of game, rewarde, and such like,

Of Witnesses.

What be Witnesses? Witnesses be proofes of things done or not done, whose office is to speake what they have heard or knowne: the construction of consutation of which proofe dependent upon the goodnesses or cultural of the persons.

To what end serueth the knowledge of places?

De that will write or speake of any matter probably, wisely, or copionly: or will understand the effect, tenor, argumentes, and proofes of other mens speeches, and writings, hath as much need to be practifed in these places as a Huntinan is in knowing the baunts of his game which he hunteth, for without that he Mall wander long time in vaine, and hardly find that which hee lecketh: neyther is it enough to know the places, wnielle you can aprily them and ble them when occasion shall seene, in difputations made eyther by mouth or pen, which requireth a continuall exercise of such as will be perfect therein. And therefore to the intent you might the better learne how to exercise your felf in the forefaid places. I have thought good here to give you at the leaft one crample fet downe by Hunneus in his Logicke: the theame of which example is thus: Man ought to embrace vertuc: which theame be both not onely handle after the Logicall manner with fhort speech, but also after the Ahetoricalimanner with copious speach, bling therein this threefold order: For first hee bringeth in such profes as are to be gathered in respect of the subject of the Theame. Secondly those that are to be gathered in respect of the 19 zedicat of the fame: and thirdly those that are to bee had in rea focce of both.

The Theame or Proposition.

From the definition of the sub-

Man ought to embrace vertue.
What arguments are to be gathered on the behalfe of the subied of this Proposition?

These that follow, and sirst from the definition thus: Sith of all sensible creatures man is the most noble and most worthy creature, for that he is endued with reason and counsell, and was created like to the image of Bod: it is most meete therefore that

The Fourth Booke of Logike.

The Fourth Booke

From the Etimologie.

The becommeth energe executive firmade of the flime of fearth to be voide of all arrogancie and pilot, to be lowlie, bumble, and obedient to his execut, and to embiace vertice in oblevating the law of God denoutly and religiously, wherefore man called in latine home, of this word humo (that is to say) earth, or rather slyine of the earth, taking his original from so base and vile a thing ought to bee humble and voide of all pride and arrogancie, and to some vertice about all thinges, being alwayes obestent to God his exease, and readie to bo his most holy precepts and commandements.

Logically thus.

Eucry sensible creature that is created of the signe of earth ought to be obedient to his Creator and to embrace bettue, thereforeman ought to bee obedient to his creator, and to embrace bettue.

From the matter.

Man is made of the felfe same matter of which all other wishining, dumbe and volensible creatures are made, (that is to say) of the sower elementes whereby he is subject to alteration and corruption: wherefore man ought not to be proude or arrogant, but modes, humble, lowly and obedient, shewing in all the actious of his life, that he is not vounded of his base estate and condition, nor ignorantivous whence he came, and what he is, we here no better then earth and dust.

Logically thus.

Egan is made of a base matter as all other things are, theretope man ought not to be ploude, but to love the vertue of humiticic and obedience.

From the forme or shape of man.

Thath beene alwaics most strinely and with one whole cous I fent agreed and believed even from the beginning of the world. that the true flape of man is a reasonable soule, immortal and capable of enerlatting bleffedneffe, which soule Bob of his amonesse did breath into man to the intent that he frould continually ferue, bonour, and over him during this mortall life, and after deathenioy eternall life: what great madnelle were it then to think that man having obtained at Bods hands fo noble a Chape ought not to embiace all noble vertues, and to gouerne all his actions in such godly and vertuous manner as he may at length attaine to the enerlaiting toy wherebuto be was first created and formed.

Logically thus: Man confisteth of a foule capable of eternall felicitie, ergo man ought to loue vertue, whereby he may attaine to that felicitie.

From the generall kind.

SIth it is given by nature to every fensible bodie to seeke his owne fafery, and to be belt affected (that is) to have bis full perfection according to his kind: the love of vertue therefore where by man is made not onely perfect in this life, but also attaineth. thereby enerlafting toy in the life to come muft needes bee to bin most naturall.

Logically thus. Buery leulible bodie willingly Defireth that which is agreeas ble to his nature and kind , therefore man muft needes loue vers tue, as a thing moft fit for bis kinde.

From the speciall kind.

Both men and women, rich and poore, young and olf, of what face of calling foener they be, if they intend to leade a good and godly life haue neche of vertue : wherefoze all men that will line weil ought to embrace vertue.

Logically thus, Both rich and pope, young and old ought to love berine, ergo enery man aught to love pertue.

From the common Accidents.

F Merie man after that hee hath ended this Most course of life, mult appeare at the last bay before the terrible indgement leat

The Fourth Booke of Logike. of Bod, there to render account of all his deeds and whids both good and bad, whereas every man that bath done well thall recepue for bis good deedes amoft glorious reward, euen life euer= lafting: but the wicked for his euill beebes fhall be condeinned to hell tyre, that neuer chalbe quenched, a cult reward for his des ferts: wherefore all men ought in this life to flie bice, and to ema brace vertue, from whence all good actions doe lyzing.

Logically thus. Euery man thall render account at the last day, of all his ocedes both good and badde, and thatt receive a tuft rewarde aca cording to the fame : ergo euery man whiled bee lineth in this morlo ought to flic vice, and to embrace vertue.

From the cause efficient.

CIth man was created by Bod the creator of all things, and au-Sthorofall goodnelle, excellencie, and vertue, and was formed according to the very image & likeneffe of Bod: it behoneth man therefore to imitate his creator, and by leading a godly and vertuous life, to thew that he is somewhat like him, though notable in all thinges to attaine to the perfection of so perfect a patterne. Logically thus.

Bod the cause efficient is god, therefore man being the effect auabt to be good.

From the end.

The Prophetes and Apolics inspired with the Boly Bhoff. author of all truth, by many their writings do tellify that the greatnelle and excellencic of that blellednelle whereunto man is created, is such as no man is able to expresse with tongue, nor in bis beart or minde to concepue the faine: wherefore fith man is created to fuch exceeding great bleffednesse, it behooneth him to embrace vertue, which is the very meane and way to bring him to that blellednelle.

Logically thus: Sith most glozious blescones is the ende ofman, manthere= toje ought to embrace vertue that bee may attaine to that end.

What argumentes are to bee gathered on the behalfe of the Predicate, and from what places?

Thefe that follow and fuch like, and first from the definition

10 3

From

From the definition of the Predicate.

SIth vertue is a mozall habite, whereby mans will and all his actions are alwaies directed to God, and governed according to true indgement, and thereby are made most acceptable both to God and man: Wan therefore ought to embrace vertue, from whence such noble fruites do spring.

Logically thus.

Man ought to love that habite from whence all honoffactions doe spring: therefore man ought to love vertue.

From the Description.

Man ought with all endenozed follow that thing whereby he may attayment a vaine and transitozic glozy, but a true and encreasing glozy, and thereby to be made acceptable both to God and man: wherefore man ought to embrace verme from whence such glozic springeth.

Logically thus.

That thing is worthy to be beloned of man which getteth him enerialing glorie: therefore vertue is worthy to be beloned.

From the Etimologie."

SIch vertue if you diligently confloer and waigh the fignification of the word, is none other thing but a noble affection of the mind, of great excellencie, and most meete for man; it is not to be doubted but that those (which leaving so precious a thing do set their whole delight in seeking after worldly riches and bodily pleasure) are much deceyned and do greatly offend.

Logically thus.
Such excellence as is most meet for man becommeth him best therefore vertue becommeth him best.

From the generall kind.

SIth it is well knowne that manought with all diligence to fecke after those habites whereby humaine nature is best aborned and made most perfect. And that bettue amongs such habites is the chiefe, because that thereby the milde of man is taught to know what truth is, and his will thereby is alwaies inclined so bottles.

The Fourth Booke of Logike.

The Fourth Booke of Logike.

bones and laudable actions, man therefore ought with all his power and endeuous to embrace vertue.

Logically thus.

Man ought chickly to love those habites whereby his nature is made perfect: thereofe man ought to love bertue.

From the special kind.

This most meete, yearnost necessaries for all men to lone fortistude and temperance: for by temperance mans will is by deled and kept from all cuill instead affections, and by fortitude being made free from seare of death: and as without remperance mans life cannot be honest so without fortitude his death cannot be commendable: wherefore it plaintly appeareth how necessary a thing it is sor a man to embrace vertue, as that which chiefly maketh his life honest and landable, and his death glorious and honorable.

Logically thus.

A man ought to loue fostitude and temperance, Ergo he ought to loue bertue.

From the corruption of the subject.

The destruction of vertue is the cause of most greenous emis, for the light of vertue being extinct, the minde is unmediately wapped in such darkenesses it cannot see nor discerne what is honest, what is prositable, or what is hurtfull; by meanes wherof man falleth into most filthy vices, which doe so miset and corrupt the life of man, as it becommeth most descable bother God man; whereby it playnely appeared how noble a thing vertue is, and with what lone and diligence it ought to be embraced of all mey.

Logically thus.

The destruction of vertue is early, therefore vertue is good & worthy to be beloued.

From the vse of the Subject.

The vie of vertue maketh mans life commendable, holy, glorious, and acceptable both to Bod and man: then which nothing can be in this world more to be delived of maniwheriors it manifelly appeareth, that vertue is so noble a thing as all menThe Fourth Books of Logike.

ought to bellow all their Aubie, labour and care in obtaining the laine.

Logically thus: Who vie of vertue is good, therefore vertue is good.

From common Accidents.

SIth all men do greatly defire to have their confeiences quieted, and their munds free from all cuill lufts, affectes and passions, which with continual strife do moles the same: and thereby doe cause man to leade a miserable life: man therefore ought to refuse no paine not labour, so as he may attaine to bectue, which is alwaies accompanied with that tranquilitie of minde & conscience that is so much desired.

Logically thus:

The tranquilitie of the mind and confcience is to bee defired, ergo vertue which is alwaies accompanied with that tranquility is to be defired.

From the cause efficient.

SIch true vertue is not to be gotten by any mans labour, exercicle of inductic, without the great grace of Bod, who is chiefe author and giner of all good gifts: it well appeareth that vertue is a most excellent thing and most worthy to be had in admiration, and therefore with feruent love and diligence to bee embraced of all men.

Logically thus.

Bod the chiefe author of all good is the cause efficient of vertue, therefore vertue proceeding of so worthy a cause must needes bee an excellent thing, and worthy of all men to be embraced.

From the effect.

Ikue hono; and glozie hath beene alwaies had amongst all men in great admiration: because it seemeth not onely by mans indgement, but also by the dinine indgement of Bad to be alwaies attributed to bertue, wherefore sith vertue doeth yeeld such noble struites and effects, vertue must needes be a noble thing it selse, and worthy of all men to be embraced.

Logically:

The Fourth Booke of Logike.

Logically thus.

The Effect of vertue, which is true honorand glorie; is good and to be delived, ergo vertue is to bee belived.

From the End.

Sith enerlating blestednesse is of such excellencie, as neither tongue is able to expecte the loves thereof, nor minde to conceive the same, and therefore ought to bee desired about althings as the suff rewards of all goodness, and sinall end of all cuill, and that bertue is the onely meane to hing man to that blested either who then will once thinke that vertue is not to bee esteemed as bout all thinges, and worthy of all men to be embraced.

Logically thus.

The end of vertue which is everlatting felicity is to be delived: ergo vertue is to bee delived.

Hetherto you have shewed how the aforesaide Theame is to be proued with argumentes fetched aswel from the Subject as the Predicate, now shew what arguments are to be fetched fro both joyned to gether? These that follow and such like, and sirt by Comparison, from the Lelleto the More.

From the Lesse to the More.

If men wil not let to bellow any paine, labor or coll to preferre their bodies, from death, licknelle, or any other hurr, how much more then ought they to endeuor themselves to obtain vertice, which will preferre their soules from all corrupt affections and entil vices, and thereby deliner them from death enertalling.

Logically thus.

Man ought to bee carefull of his bodily health, ergo much more of his soules health, which is chiefly preferued by vertue.

»From Similitude or Likenesse.

As the beautic of the bodie is pleasant to mans eyes; euen so the beautic of the mind or soule is as acceptable to Bod: an detectore as man wilbe diligent and carefull in decking and addressing his body to please the eyes of mencenen so he ought to be most carefull to beeke his soule and minde, with such vertues as do make the same in Bods light most acceptable.

Logically thus.
As the decking of the body is pleasant to mens eyes: so the deca

The Fourth Booke of Logike. hing of the loude, is pleasing to Sod.

.From Authority.

Danid the Prophet in the 34. Plalme layeth thus: Aurne from enill, & bo that which is good. The Prophet Micheasallo agreeth beceunto in laying thus: deale mily with all men, love mercy, and walke diligently in the way of Bod, by which wordes thele two godly Prophetes bo teach no other thing, then that man folialing all kynde of vice, thoulde with all diligence embrace bettue.

Logically thus:

Sob tracheth by his 1920phet Dauid, and also by Micheas, that man thoulde flie vice, and sone vertue: orgo man ought to love vertue. By dayly exercising your selfe in such cramples as this is, you shall in thost time scarne the right vie of the places, and be able thereby readily to apply them to enerie good purpose.

Here endeth the Fourth Booke of Logike.

Of





THE FIFT BOOKE OF Logike.

Of Argumentation, and of the Fower kindes thereof in generall, and also of the first Principles of a Syllogisme.

Chap. 1.



Auing hitherto suffficiently spoken of words both simple and compound, whereof al questions do consist, also of definition and division, of Method, of Propositions, and of the places: It resteth now that I declare vnto you the formes and kindes of reasoning called Argumentation, which be the meanes whereby in al compound questions the truth may be discerned from falshoode, wherein consistent and the reservoir shall ynderstand.

steth the chiefest fruite of Logike: and therefore you shall vnderstand that there bee foure principal kindes or formes of Argumentation (that is) a Syllogisme, an Induction, an Enthymeme, and Example, I say here principal, because there be divers other formes, which though they be not so necessarie, yet I will briefly treat of them hereafter: But for somuch as the Syllogisme is the chiefest, where unto all others are referred as thinges ynpersect, vnto a thing persect, I will first speake of a Syllogisme, and of all the partes thereof: but yet before I define or deuide a syllogisme, I thinke it very necessarie to declare vnto you the first Principles as well Materiall, as Regular, of a simple Syllogisme conssiling of simple Propositions.

Which callyou material! Principles?

material Dinciples are three fimple Propositions, and three tearmes, (that is to say) the Subject, the Predicate, and the Predicate tearm bereafter defined, whereof the Subject and the Predicate

The Fourth Booke of Logike.

The Fourth Booke of Logike. 112 ought to bellow all their Audie, labour and care in obtaining the laine.

Logically thus: The vie of vertue is good, therefore bertue is god.

From common Accidents.

SIthall men do greatly desire to have their consciences quieted, and their minds free from all entil lufts, affectes and paffions, which with continuall strife do molest the same : and thereby doe caufe man to leade a miserable life: man therefore ought to refuse no paine not labour, fo as he may attaine to bertue, which is als waics accompanied with that tranquilitie of minde & conscience that is fo much befireb.

Logically thus:

The tranquilitie of the mind and conscience is to bec desired, ergo vertue which is almaics accompanied with that tranquility ts to be belireb.

From the cause efficient.

SIth true bertue is not to be gotten by any mans labour, epercife of industric, without the great grace of Bod, who is chiefe author and giner of all good gifts: it well appeareth that bertue is a most excellent thing and most worthy to be had in admiration, and therefore with feruent love and diligence to becembraced ofall men.

Logically thus.

Bod the chiefe author of all good is the cause efficient of vertue. therefore bertue proceeding of to worthy a cause must needes bee an excellent thing, and worthy of allinen to be embraced.

From the effect.

"Ruchono, and gloric bath beene alwaies had amongit all I men in great admiration: because it seemeth not onely by mans indgement, but also by the dinine indgement of Bod to be alwaies attributes to bertue, wherefore fith bertue doeth peeld fuch noble fruites and effects, vertue muft needes be a noble thing it felle, and worthy of all men to be embraced.

Logically:

Logically thus.

The Effect of vertue, which is true honozand glozie,is good and to be delired, ergo bertue is to bee belired.

From the End.

Cith enerlatting bleffednesse is of fuch excellencie, as neyther Drongue is able to exprelle the loves thereof, nor minde to conceine the lame, and therefore ought to bee belired aboue al things as the full rewarde of all goodnes, and finall end of all cuill, and that bertue is the onely meane to bying man to that bledeb enbe: who then will once thinke that vertue is not to bec effcemed a= bone all thinges, and worthy of all men to be embraced.

Logically thus. The end of vertue which is everlatting felicity is to be defired:

ergo vertue is to bee delired. Hetherto you have shewed how the aforesaide Theame is to be proued with argumentes fetched aswel from the Subject as the Predicate, now shew what arguments are to be fetched fro both iouned to gether? Thefe that follow and fuch like, and firft by Comparison, troiu the Lelle to the More.

From the Lesse to the More.

Then wil not let to hellow any paine, labor or coff to preferue I their bodies, from death, ficknelle, or any other hurt, how much more then ought they to endeuor themselues to obtain vertue, which will preferue their foules from all corrupt affections and euill vices, and thereby beliner them from beath enerlafting. Logically thus.

Man ought to bee carefull of his bodily health, ergo much more of his foules health, which is chiefly preferued by bertue.

»From Similitude or Likenesse.

As the beautie of the bodie is pleasant to mans eyes : cuen for the beautie of the mind of foule is as acceptable to Bod : an B therefore as man wilbe biligent and carefull in decking and as Dozning his body to please the eyes of men: enen so be ought to be most carefull to becke his foule and minde, with fuch verines as Do make the lame in Bobs light moft acceptable .

Logically thus. As the becking of the body is pleasant to mens eyes: fo the beca

The Fourth Booke of Logike. 114 king of the loule, is plealing to Bod.

From Authority.

Danid the Prophet in the 34. Plaine layeth thus: Turne from enill. a bo that which is good. The 1910phet Micheasallo agreeth bereunco in faying thus: deale milly with all men, love mercy, and walke diligently in the way of Bod, by which wordes thele two godly prophetes bo teach no other thing, then that man forfalting all kynde of vice, Choulde with all biligence embrace pertue.

Logically thus: Bod teacheth by his 1920phet David, and also by Micheas, that man Coulde flie vice, and lone vertue: ergo man ought to loue vertue. By dayly exercising your selfe in such cramples as this is, you hall in thost time learne the right ble of the places, and be able thereby readily to apply them to eneric goed purpole.

> Here endeth the Fourth Booke of Logike.

> > Of





THE FIFT BOOKE OF Logike.

Of Argumentation, and of the Fower kindes thereof in generall, and also of the first Principles of a Syllogisme.

Chap. I.



Auing hitherto suffficiently spoken of words both simple and compound, whereof al questions do consist, also of definition and divifion, of Method, of Propositions, and of the places: It resteth now that I declare voto you the formes and kindes of reasoning called Argumentation, which be the meanes whereby in al compound questions the truth may Lbe discerned from falthoode, wherein confi-

fteth the chiefest fruite of Logike : and therefore you shall vinderstan ! that there beefoure principal kindes or formes of Argumentation (that is) a Syllogisme, an Induction, an Enthymeme, and Example, I say here principal, because there be divers other formes, which though they be not so necessarie, yet I will briefly treat of them hereafter ! But for fomuch & the Syllogisme is the chiefest, whereunto all others are referred as thinges vnperfect, vnto a thing perfect, I will first speake of a Syllogisme, and of all the partes thereof: but yet before I define or deuide a syllogisme, I thinke it very necessarie to declare voto you the first Principles aswell Materiall, as Regular, of a simple Syllogisme confifting of simple Propositions.

v vhich callyou material! Principles?

Material forinciples are three fimple propolitions, and three tearmes, (that is to fay)the Subicct, the Predicate, and the mean tearm bereafter befined, whereof the Bubiect and the Predicate

proposition.

Why are they called tearmes or limites?

Because they lyminet a proposition, enen as dole-stones of meares do limmer a peece of ground in the fielde, and bee the verermost partes or bondes whereunto any proposition is to bee resolued, as for crample in this proposition, every mail is a fensible bodie : these two wordes, man and sensible bodie, are the tearmes, limmetes, ex boundes, whereof as the faide proposition is compounded, so into the same it is to be resolved, as into his veccimos paris that have any signification: for letters & sillables of themselves be without fignification, and therefore can limmet no fuerch, to that y termes of propolitions mult be exther normes or verbes, which be onely voices lignificative, as have been laide before.

VVhich be the principles regulative?

The principles regulative of a Syllogitme be thefe, two phrales offpeech, to be fpoken of all, and to be fpoken of none.

VVhatis to be spoken of all?

That is when the predicate being truly fpoten of the Subicct, must needes be also spoken of all that is comprehended under the faid Subject: as when I fay eucry manis a fentible bodie: here this worde fentible bodie, is not onely fpoken of man in general, but also of Peter and John, and of curry other man in particular comprehended under the forefaide fubiectinan.

VVhat is to be spoken of none? It is when the predicate being denied to be fpoken of the fubicct, is denied also to be spoken of any thing contayned in the subicce, as when I lay, no man is a flone, here like as this word flone is denyed to be spoken of man, so it is also denyed to be spoken of Peter, of lohn, and of euerie other lingular man, out of which Des finitions are gathered two necessarie rules.

V Vhich be they?

The first rule is whatfoener is truely affirmed of his haturall and proper Subject is also affirmed of all those thinges which are contagned under the faide fubiect, the fecond rule is thus, whatfoener is denyed to be spoken of any indicet is also denyed to be spoken of enery thing contained under the saide subject. VVhereto serue these rules?

The first rule confirmeth all Syllogismes affirmatine, and the iccond confirmeth all Syllogimes negative,

Ofa Syllogisme, what it is, how it is deuided, and of what partes it consisteth.

Chap. 2.

THat is a Syllogisme? A Syllogiline is a kind of argument contayning three propolitions, whereof the two first commonly called the premittes being bispoled according to moode, and figure, and granted, the third propolition otherwile called the conclusion differing from the other two, followeth of neceditie, by vertue of the premilles : how thele three propolitions are called, and what moode and figure is, fhaibe beclared heres after, In the meane time marke wel the two other points touchs ing this Definition : firt that the Conclusion mut not be al one but differing from the premiffes, fecondly that the faide Conclufion bee necessarily inferred of the premittes as in this example : enery lensible bodie is a substance : cuery man is a sensible bodie : ergo cuerie manis a lubitance; for if the Conclusion were thus, ergo enery fentible bodie is alubitance, or enery man is a lentible bodic, the argument Could not be good, becanfe the Conclusion should be all one with one of the premises, the reason why the Conclusion mut needes beinferred of the premiffes, and fo confequently follow of the fame, shall bee declared buto you bere-

after. How is a Syllogisme deuided according to the Schoolemen?

first they deuide it according to the dinerline of the propolitis ons, whereof it confifteth into two kindes, by. Categogicall, and Bypotheticall(that is to lay) fumple and compound, calling that fimple, which is made of limple propolitions : & that compound, which ig made of compound propolitions, what fimple & com= 1.15. pound propolitions arc, bath beene before befined. Againe they cap. 1 benibe the limple Syllogiline, thice manner of wayes, first accor-Ding to the directitie of the termes into a common and into a line guler Syllogilme, for if the termes whereof the Syllogilme confifteth, becommon, or generall, and specially the meane cearme, or proofe, then that Syllogilme is talled a common Syllogiline: but if the meane terine of proofe be Individuum, then that Syllo= giffine is faide to be a lingular Syllogifine, called of them, Syllo= gilinus expolitorius, whereof we mail fpeake hercafter, fecondic, they denide alimple Syllogiline, according to the dinerlitic of the

figure into a perfect, and buperfect Syllogiling,

When isit faide to be perfect? when it needeth not to bee altered any manner of way, othera

wife then it is, that the Confequent may manifelly appeare.

VVhen is it saide to be vnperfect &

When the Consequent dord not mansfellig appeare, buleffe the Syllogitue be altered eyther by convertion, or transpoling of the premiles, whereof we chall fpeake hereafter tehicoly they of nide a limple Syllogiune, according to the matter of the 19 ropofitions, whereofit is made into three kindes, that is into a dyle logilme Demonstrative, Dialecticall, and Sophisticall : of which three kinds we chal fpeaks bereafter, and in their proper places. fo as in all the Schoolemen make foure feuerall binifions of a Syllogilm, the firth according to the divertity of the propolitions. the fecond according to the divertitie of the cearmes, the third acs cording to the divertitie of the figure, and the fourth according to the divertitie of the matter of the propolitions, whereof we have Spoken before, and thewed bow manifolde fuch matter is : but in the meanetime, wee will frew pon of what partes a limple common Syllogilme confidetb.

Of how many partes doth a simple Syllogisme consist? Di two that is Matter, and Foune.

> Of the Matter, and Forme of a simple common Syllogisme.

> > Chap. 3.

"Hat thinges are saide to be the matter of a Syllogisme? The matter whereof a Syllogifine is made, are three cearmes, and three Propositions, which wee called before materiall Principles, and the forme confisteth of figure and moode, whereof wee thall speake in the nert Chapter.

Define what these three tearmes be?

The one is called the Maior terme, or maior extreamitie, which is the Predicate of the question that is to bec proued, the other is called the edinor tearms arminor extremitie, which is the fublect of the question, and these two termes are knit together in the Conclusion, and made to agree by helpe of a third rearme called The Fift Booke of Logike.

the meane tearme of proofe,

What is the meane terme? It is the proofe of the quellion, which is twice repeated before the conclution, and not once mentioned in the fame.

How is such proofe to bee found out?

Hower manner of wayes (that is to fay) by experience, by quicnes of wit, by erubition, and by fearthing the common places.

Giue examples of all these fower wayes? 1 By experience, as when we affirm that intemperance is to bee fled, because we know by experience, that it consumeth both bo= by and goodes in vaine plealures. 2 By wit as to prooue that the couctoulnes of wicked men is infinite : because witte and reason teacheth be that if conctous men did eyther care for the law of Bod, or for reason, they woulde not exceede so farre the bownds thereof, 3 by erubicion as to proue that riches are not to bee belieed ouer greedily, but to ferue necessiene : because it ap= peareth by the doctrine of s. Paule that luch as greedily lecke to be rich, Do fall into temptation, and into the mares of the Deuill.

4 By fearching the common places, as when the proofe of any queftion is fetched from any of the common places before taught, as from the generall kinde, from the speciali kind, from the diffe= rence, of property, and such like whereof you have had examples

Which be the three propositions whereof 2 Syllogisme doth consist? before. Thefe three, the Maior, the Minor, and the Conclusion.

Which call you the Maior? * That which confideth of the predicate of the quellion otherwife called the Maior tearme, and of the meane or proofe, being both topned together in one felle propolition, which propolition is the whole frengeh of y fillogifine, foz it is the caufe and proofe of the Conclusion.

VVhich call youthe Minor?

That which confideth of the Subiect of the question called the Minor tearme, and of themeane or proofe toyned together, which two propolitions are called by one general name, premities because they goe before the Conclusion.

What is Conclusion?

It is that which confideth of the Predicate, and of the Subiect, and is the question it selfe concluded.

Giue example.

For example let this bee your queftion: whether man bee a lubfance or not, bere pou baue two extreames or termes, whereof Cubftance being the Predicate is the maior terine, and man being 120

bere the fubicet is the minor terme: now to proone that this word hystance is properly and naturally spoken of man as of bis sub-

tect, and that you may truly knit their two extreames, or termes conceher, you must feeke out some cause of proofe otherwise calico the meane terme, which being once found out, the fillouisme 15 Coonsmade: let the meane terme therefore be this worde fenlible body, for enerie fensible bodie is a substance, which proofe is ferched from the general kind, then forme your Syllogilme thus, eucrie leulible bodie is a lublance:but man is a leulible bodie,ergo man is a substance; bere you see that the meane terme of profe is twice repeated before the Conclusion: (that is to say) in the major propolition together with the predicate of the question called the major terme, audallo in the minor propolition together with the lubicit of the question called the minor terme, and not once mencioned in the conclusion. Thus i much touching themat ter whereof a fillogifine confisteth, now of the forme thereof.

Of the Forme of a Syllogisme.

Chap. 4

TOu side before that the Forme of a syllogisme comprehended Figure, and moode, now therefore tell what figure and mood is, and how many of them there be?

Figure is no other thing, but the dinerte placing, or dispos fing of the meane terme in the premilles : which figure is threefolde, that is first, lecond, and third, for if the mean tearin, be the subject in the maioz proposition, and predicate in the minoz, as in the crample aboue, then it maketh a Sillogisme of the first figure, and if it chance to be predicatein both propolitions, then it mas keth a Sillogiline of the fecond figure as thus, no fone is afenlible body:but man is a lenlible body, ergo no man is a ftone: for bere the meane tearine, fenfible body, is predicate in both propolitions:but if the meane be lubiteetin both propolitions, then it maketh a Sillogifine of the third figure as thus: cuery man is a liibitance: cuery man is a lensible body, ergo some sensible body is a substance, so, here the meane terme that is man, is subject in both the first propositions, and to these three sigures doe belong certaine moodes. ef en eillouomeco aut ee

What is a moode?

A mood, called in latine modus, among the Logicians, is none other but the true ordering alwell of the plemilles as of the conclusion The Fift Booke of Logike.

clulion in a fillogitme according to due quantitye qualitie : what the quantitie and qualitie of appopolition is, hath beene tanght befoze.lib.z.Chap.1.

How many moodes do belong to the first Figure?

To the first figure do belong 9. Modes, thus named :

Barbara: Celarent: Darii: Ferio: Baralipton: Celantes: Dabitis: Fapelmo: Frisesomorum.

whereof the first foure because they conclude directly, are called perfect modes, making perfect fillogifines : and the other s. becaufe they conclude bnowectly, are called buperfect Modes, making biperfect Sillogifines.

What is to couclude directly or indirectly?

That mod is faid to conclude directly whe the Maior tearing is made the Predicate, and the Minor tearme the fubicet in the conclusion: But if in y conclusion the Binor tearme be y Decoicate, and the Maio: tearme the fubicet, then that Moode is faid to conclube directly: as for example: Euery Centible bodie is a fubfance: Manis a lenfible bodie, Ergo manis a fubifance. Ehis fillogitme concludeth directly, becaute y Maior tearme lubitance is the predicate in the conclusion: but if the conclusion were thus, Ergo fome substance is a man: then it should conclude indirectly because this word man which was the subject of the question in this conclusion is made the Picoicate.

How many Moodes do belong to the second Figure? Their foure, Cziare, Camestres, Festino, Baroco. How many moods do belong to the third Figure?

Thefe fire: Darapti, Felapton, Difamis, Datifi, Bocardo, and Ferifon: which words being other wife called cearings of Art, and enery one confifting of three fillables, were purpolely muented by the schwlemen, to signific the quantity and qualitie of enery propolition contayned in a Sillogilme, and are briefly fer downe in thefe foure veries following.

Barbara, Celarent, Darij, Ferio, Baralipton: Celantes, Dabitis, Fapelmo, Frisesomorum: Cæsare, Camestres, Festino, Baroco, Darapti: Felapton, Difamis, Datisi, Bocardo, Ferison.

It feemeth to me that these names do not eatienly consist each one of three fillables, for in the two first verses there be two moodes or names, whereof the one called Baralipton, contayneth foure fillables, & the other called Frisesomorum, contagneth fine fillables.

you fay true, but thefe fillables are no part of thefe two mods, but ferue onely to fill up the verfe: for this fillable ton, is no part of the moode Baralip: not the two fillables morum, are any part of

the Magde Friselo.

What is to be considered in these words of Art or Moodes.

Two things, (that is to lay) the vowels and the confonants contayned in enery Moode, and what they signific.

Which are those vowels and what do they fignifie ?

The powelles be thefe foure, a.c.i.o. whereof a, fianifveth an buincefall Affirmatine, c. an buinerfall Regattuc : i. a narticular Affirmatine, o. a particular Megatine; of all which you that bane cramples in the fire chapter of this booke here following.

Which he the Contonants and what do they fignifie?

mee finali have cause to speake of them bereafter in afitter place.

In the meane time then give examples of the Moodes belonging to

all the figures?

Before we give cramples it hall not bee amille to let downe certaine rules requilite to all the three figures alwell in generall. as in particular.

Of certaine rules as well generall as speciali belonging to the three Figures.

Chap. s.

Ow many generall rules be there, which are common to all the three Figures?

Hower: two of quantitie, and two of qualitie. Which is the first of those that belong to quantity?

In enery Sillogisme it behough eyther one or both of the viemisses to be bniuerfall.

Why fo?

Because that of two meere particular propositions nothing by order of Logicke can consequently follow: As for example, this Sillogilme is not good: Some lenlible bodic is a man but fome holle is a lenlible body, Ergo a bolle is man. The like realon is alfo to be understood when the premisses are indefinite propositie ous, yea or fingular, propolitions, if the meane teatine bee not likewile lingular, for then it maketh a Billogiline expolitorie. wherereof we Chall (peake hereafter.

Which is the fecond rule that belongeth to quantity.

If any of the premisses be particular, then the conclusion also must be particular.

Why fo?

Becaule

The Fift Booke of Logike.

Because the conclusion being implyed of the premises ought alwaics to follow the weaker part of the same premites, but the particular is alwaies accounted weaker then the vuiverlail, and the negative weaker then the affirmative.

What is the first rule belonging to qualitie?

In enery Billogilme it behooneth either one or both of the pic miles to be Affirmatine....

Why fo?

Because that of two pure negatine propositions nothing can be orderly concluded, as in this example: Mo manis a tree, but no Deare tree is a man: Ergo no peare tree is a tree: which Sil= logilme cannot be good, for the premiles are both true, and the conclusion is falle.

Which is the fecond rule belonging to qualitie?

If any of the premiles be Regatine, then the conclusion muß alfo be Regatine.

VVhy fo?

Becaufe (as it hath beene faid before) the conclusion must follow the weaker part.

Which be the speciall rules belonging to the three Figures?

In the fielt fower moodes of the fielt figure Directly couclus ding the Minormay not be a Regatine, nor the Maior particus lar but bninerfall.

Anthe fecond Figure the Maior muft not be particular, and

one of the pre milles nilit be a Megatine.

In the third figure the Minor must not be a negatine, nor the conclution univerfall: but as for the quantitic and qualitie of enc= rie propolition in cuery kind of lillogiline, of what figure forner it be, it thall plainely appeare by the bowels, or rather fillables of the Moodes, otherwife called words of art, annexed to the examples hereafter following.

First giue examples of Sillogismes of the first figure, and of his foure

perfect moodes directly concluding.

Examples of the foure perfect Moodes belonging to the first Figure.

Chap. 6.

Befirft Moode of the first Rigure is when three termes being given, a Sillogifme is made of 2, brinerfall affirmatines directly cocluding a uninertal affirmatine, as this lillogitime here Tollowing

Bar, Euery sensible bodie is a substance. But every man is a sensible body, Ergo enery man is a substance.

The name of this moode is called Barbara, Dinibed into three fa. tables, placed in the margent right against the Sillogisme, to thew the quantitie and qualitic of enery propolition, according to the figuifications of the vowels contayned in enery fillable: and to are all the other names of the Moodes hereafter following. The second Wood ie, when three tearmes being given, a silloatime is made of an uninerfall negative Maioz, and of an uninerfall affirmative Minoz, directly concluding an universall Regatiuc : As for example, for the tearmes bee thele: fenfible hopy. aman, a ftone, and the fillogifmethus,

Ce. No fensible body is a stone, But every man is a sensible body, la. rent. Ergo no man is a stone.

The name of this Mode is Celarent.

The third Moode is, when three tearmes being ginen, a lillo= giline is made of an uninerial affirmatine Maior, and of a partie cular Affirmative Minoz, directly concluding a particular Afa tirmative: As for example let thele be the tearmes: sensible bo= by, lubifance, and man, and the fillogifine thus:

Da. Euery sensible body is a substance, But some man is a sensible bodie, Ergo some man is a substance.

The name of this Boode is Darii. The fourth Mode is, when three tearmes being ginen, a fillo= gilme is made of an bniverlall Regative Maioz and a particular affirmatine Bunoz, directly concluding a particular Acqueine: As for example, let thefe be the tearmes, fenfible body, man, and Conc: and the Sillogilme thus.

No sensible bodie is a storre. But some man is a sensible bodie, Ergo some man is a stone. The name of this Moode is Ferio.

Examples

Examples of the five vnperfect Moodes of the first Figure.

Chap. 7.

Iueexamples of the fine Moodes of the first Figure indirectly concluding ? The first imperfect Moode of the first Figure indirectly concluding, is when the Maior and Minor, being buth bnineriali affirmatines, do conclude indirectly a particular Affirmatine, as thus:

Euery sensible body is a substance Ba. Euery man is a fenfible body, Ergo some substance is a man.

The name of this Moode is Baralipton, whereof the latt fillable ton is onely to fill by the verle, as hath beene faid before.

The fecond imperfect Moode is when a Sillogilme is made of an bniuerlall Regariue Maioz, an bniuerlall Affirmatiue Minot, indirectly concluding an butuerfal Regative, as thus.

Ce No sensible body is a tree, lan Fuery man is a sensible bodie, tis. Ergo no tree is a man.

The name of this moode is Celantes. The third imperfect Moode is when a Sillogisme is made of an bniuerlalt Affirmatine Maior, and of a particular Affirmatine Minoz, indirectly concluding a particular Affirmatine, as thus.

Euery senfible body is a substance,_ Da. Some man is a sensible bodie, bi. Ergo some substance is a man.

The name of this Mood is Dabitis. The fourth imperfect Mood is when a Sillogifine is made of an bninerial Affirmative Maioz, and of an bnineriall Regatine Minor, indirectly concluding a particular Regative, as thus. Eucry

Ergo some substance is not a tree.

The name of this Moode is Frisesomora, whereof the two late fillables (as bath beene laide befoze) are only put to make by the verse.

Of the foure Moodes belonging to the second Figure.

Chap. 8.

Nue examples of the four Moods belonging to the fecond figure? The first Moode of the second Figure is when a Sillo= gilme is made of an buinerlall Regatine Maiot, and ofa bniuerfall Affirmatine Minoz, directly concluding a bninerfall Regatine thus:

Ce No stone is a sensible body Euery man is a sensible bodie, > Ergo no man is a stone.

The name of this Mood is Cafare. The feconde Moode is when a billogilme is made of an buis nerfall Affirmative Maioz, and of an univerfall Affirmative Minot, directly concluding an universal Regative, as thus.

Ca Euery man is a fensible bodie, mes But no itone is a sensible body, tres Ergo no stone is a man.

The name of this Moode is Camelires! The third Moode is when a billogisme is made of an bniucriali

127 nerfall Regariue Maioz, and of a particular Affirmative Minoz, directly concluding a particular Regatine : as thus.

The fourth Mod is when a Sillogiline is made of an buiner= fall Affirmative Maior, and of a particular Minor, directly con-

Ergo some stone is not a man.

The name of this Monde is Baroco.

Of the fixe Moods belonging to the 3. Figure.

Chap. 9.

Nue examples of the fixe Moodes belonging to the third Figure ? The first is when a Sillogilme is made of an bniuerfall Affirmative Maioz, and of an buiverlait Affirmative Mi= noz, directly concluding a particular Affirmatine, as thus.

Da. Euery man is a substance, rap. But euery man is a sensible body. Ergo some sensible bodie is a substance. S

The name of this Moode is Darapti.

The lecond Moode is when a Sillogiline is made of an bitnerfall Pagatine Maioz, & ofan vninerfall Affirmatine Minoz, directly concluding a particular Aegative as thus?

No man is a stone. Fe. But every man is a substance. lap. Ergo some substance is not a stone.

The name of this Moode is Felapton. The third Mode is when a billogilme is made of a particular Affirmative Maior, and of an Universall Affirmative Minor, di= rectly concluding a particular Affirmative, as thus.

€ome

Di. Some man is a substance, But enery man is a fenfible bodie, ú. mis. Ergo some sensible body is a substance.

The name of this Moode is Difamis.

The fourth Moode is when a Sillogisme is made of an uniz uerfall Affirmatine Maioz, and of a particular Affirmatine Mi= 1102, concluding a particular Affirmatine: as thus.

Da. Euery man is a substance. But some man is a sensible bodie, Ergo some sensible body is a substance.

The name of this Moode is Datifi. The fift By nd is when a Sillogiline is made of a particular negatine Maioz, and of an vninerfall Affirmatine Minoz, directly concluding a particular negative, as thus.

Some man is not a stone. Bo.

But euery man is a sensible bodie. Ergo some sensible bodie is not a stone.

The name of this Moode is Bocardo. The firt Moode is when a Sillogisme is made of an universal Regative Maioz, and of a particular Afficinative Minoz, direct= ly concluding a particular Regative as thus.

No man is a stone, Fe. But some man is a sensible body.

Ergo some sensible body is not a stone.

The name of this Moode is Ferison.

Thus you have all the three figures, together with their modes vlamely let forth with examples.

Of a Sillogisme expositorie.

Chap. 10.

Mo now because a Sillouisme expositorie is saide to bee a Sillogiline of the third figure: I thinke it molt meet to Igine you an example thereof encubere: for I have alrea-Die defined the fame before.

Yea I remember yee said it was expositorie when the proofe or mean cerme is an Indiuiduum: but if yee giue example, I shal the better vndete. fand it?

Letthis then bee your crample, to prooue fome mento beboth Diators & Philosophers by a fillogiline expositoric thus: Cicero was an Diator: but Cicero was a Whilolopher, ergo tomemen are both Diatois and ishilolophers : again to proone that fome rich men are not wife, thus : Craffus was not wife, but Craffus was rich, ergo fome rich men are not wife : thus you fee that this kind of lillogitine ferneth to proque both affirmarinely and negal tinely, as it were by way of example.

An Obicction concerning the three figures, and moodes belonging to the same.

Chap. II.

10 what purposesserue so many figures and moodes, sich the first figure, and the fower first moodes belonging to the fame are onely perfect, yea and so perfect indeede, as the Mathematicians in feeking out the truth of any probleme will vie none other, because the first figure alone doth suffice to conclude all kindes of problemes whatfoeuer they be, whereby it shoulde seeme that the two

other figures with their moodes be superfluous?

They be not altogether fuperfinous, for as thefirst figure ferueth chiedy and onely to conclude an universall affirmatine : to the te cond figure lerueth to conclude an buincrfail negatine, and the third figure to conclude both a particular affirmatine, and alie a particular negatine, as you may perceine very well by the cramples before rehearled, neither be the 15. onperfect moodes to bus perfect, bist that they may eafily be reduced onto the 4. perfect, by one of thele waves here following, (that is to lay) eather by connerfion, or by transpoling of the premilles : or els by a fillogulaic leading tollinpollibilitie, of which thice wayes of Echuction we come now to lucake : by which thinges it doth plainely appeace what Difference there is betwirt a perfect & unperfect illogitme, for the perfect Allogismehath no necde of thele helpes to maise the Conclusion manifett, as bath beene laide befoge. Of Di. Some man is a substance,

ú. But every man is a fenfible bodie, mis. Ergo some sensible body is a substance.

The name of this Moode is Difamis.

The fourth Moode is when a Billogilme is made of an bniz uerfall Affirmatine Maioz, and of a particular Affirmatine Mi= 1101, concluding a particular Affirmatine: as thus.

Da. Euery man is a substance,

But some man is a sensible bodie,

Ergo some sensible body is a substance.

The name of this Moode is Datifi.

The fift By no is when a Sillogitime is made of a particular negatine Maioz, and of an vninerfall Affirmatine Minoz, directly concluding a particular negative, as thus.

Some man is not a stone. Bo.

car. But euery man is a sensible bodie,

Ergo some sensible bodie is not attone. 5

The name of this Moode is Bocardo.

The lift Moode is when a billogisme is made of an universal Regatiue Maioz, and of a particular Affirmatiue Minoz, direct= ly concluding a particular Regative as thus.

No man is a stone, Fe.

But some man is a sensible body. ri.

Ergo some sensible body is not a stone.

The name of this Moode is Ferifon.

Thus you have all the three figures, together with their mones plainely fet forth with examples.

Of a Sillogisme expositorie.

Chap. 10.

Ad now because a Siliogisme expositorie is saide to bee a Billogiline of the third Figure : I thinke it moft meet to Anine you an example thereof encuthere: for I have alreas Die defined the fame before.

The Fift Booke of Logike.

Yea I remember yee said it was expositorie when the proofe or mean cerme is an Indiuiduum: but if yee giue example, I shal the better vindete. fand it?

Letthis then bee your crample, to prooue fome mento be both Prators & Philosophers by a fillogiline expositorie thus: Cicero was an Diatoi: but Cicero was a Philosopher, ergo tomemen are both Drators and whitolophers : again to producthat fome rich men are not wife, thus : Craffus was not wife, but Craffus was rich, ergo fome rich men are not wife : thus you fee that this kind of fillogiline ferneth to proque both affirmatinely and negatinely, as it were by way of example.

An Objection concerning the three figures, and moodes belonging to the same.

Chap. 11.

O what purpole serue so many figures and moodes, with the first figure, and the fower first moodes belonging to the fame are onely pertect, yea and so perfect indeede, as the Mathematicians in feeking out the truth of any probleme will vie none other, because the first figure alone doth suffice to conclude all kindes of problemes whatfocuer they be, whereby it shoulde seeme that the two

other figures with their moodes be superfluous?

They be not altogether fuperfluous, for as thefirst figure ferneth chielly and onely to conclude an univerfall affirmatine : to the te cond figure ferueth to conclude an buincrfall negatine, and the third figure to conclude both a particular affirmatine, and affe a particular negatine, as you may perceine very well by the came ples before rehearled, neither be the 15. buperfect moodes to bus perfect, bist that they may fallly be reduced buto the 4. perfect, by one of thele wayed here following, (that is to lay) eyther by connerlion, or by transposing of the premiles : or els by a filloguine leading tollinpollibilitie, of which thice wayes of Reduction we come now to tpeake : by which thinges it both plainely appeare what difference there is betwirt a perfect & virperfect illogifine, for the perfect Allogilinchath no necde of thele helpes to maire the Conclution manifelt, as bath beene laide befoge. Οť

Pea,

ficions.

Of Reduction, and of the kindes thereof, and also of the (ignification of certain consonants in the wordes of Art seruing to Reduction.

Chap. 12.

Hat is Reduction?
Reduction here is none other thing but a declaration, produing of thewing the goodness of an unperstentiallogisme, by a fillogisme of a perfect moode.

How manyfold is such Reduction?

Twofolde for it is cyther offenline, or els by impossibilitie.

What is Reduction offenfine?

Reduction offensive is when a fillogisme is reduced to his perefection, epiber by connection, or by transposing the premises, or els by both at once.

What meane yee by transposing of the premisses, for as touching

conversion you have spoken thereof before, bb.3.cap.6.

The premisses are said to be transposed, when the Maior is put in the Minors place, or contravioise the minor into the Maiors place.

What is Reduction by impossibilitie?

Reduction by impossibilities when the goodnes of the sillogistic is so product, as the adversarie denying the same, must needed be brought to some adversaries denying the same, must needed be both true at once, of some proposition, to be faile, which be both consessed before to be true, of is manifefly true of it selse. But first were will speake of Reduction, offensine, and then of Reduction by impossibilities, and because that Reduction offensive some some sometime by connextion, and sometime by transposition, and sometime by oth at meets, and agains that sometime one of the premissed, sometime both, and sometime in more but the Londinson onely is connected, and sometime to more with Londinson, and sometime by connected, and concerning to such sometimes become for extensive by sometime for easiement of the memorie, have made eight of the Londonautes besides the bowels in the wordes of art before mentioned, to be significative, and to declare how energippope.

The Fift Booke of Logike.

lition ought to bee reduced.

For first these foure consonants, b.c.d.f. (with one of the which for first these foure consonants, b.c.d.f. (with one of the which enery unperfect moode both beginne) do show that such unperfect moodes aught to be reduced into those perfect moodes, which do beginne with the like letter, as,

Baralipton, Baroco, Bocardo, into Barbara, Celantes. C. fare, Camellres, into Celarent: Dabitis, Darapti, Disamis, Datisi, into Darij, Fapesmo, Frisesomorti, Felapton, Ferison, Festino into Darii.

Which be the other foure Consonantes, and what do they signise: The other source Consonantes put between the vowels, we these so newhereost signifies simple connection (that is to say that the vowell, which goeth next vesses this consonant, is to become ply connected, p. signifies connection per accidens, m. betakeneth transposition of the premises, c. in the latter ende of miost of the moode, betakeneth reduction by impossibilitie as in Baroco, and Bocardo.

Give examples and thew how fuch reduction is to be made.

First astouching reduction by connection, Cefare is reduced insto Cefarenchy simple connection of the Maio: as this fillogisme in Cefare.

Ce. No tree is a sensible body

Sut euery man is a sensible body:

Superit thus.

re Ergo no man is a tree. Slarent thu

Ce. No fensible body is a tree,
la. But euery man is a fensible body,
tent. Ergo no man is a tree.

And Cameftres is reduced into Celarent by simple connecting the Conclusion, and also by transposing the premises, as this fillogisme in Cameftres.

Ca. Euery man is a fentible body,
mes,
But no tree is a fentible body:
tree, Ergo no tree is a man.

Swhich is reduced into Celarent thus,

Ce. No sensible body is a tree, But euery man is a sensible body

ren Ergo no man is a tree.

Felline

Fes. No stone is a sensible body.

But some man is a sensible body? Ergo some man is not aftone.

Zwhich is reduced into Serio thus

No sensible bodie is a stone,

But some man is a sensible bodie: ri.

Ergo some man is not astone. ٥.

Darapti is reduced from Darii by connerting the minoz per accidens, as this fillouifine in Darapti.

Eucrieman is a substance.

But euery man is a sensible body: Zwhich is reduced in-

Ergosome sensible body is a substance. Sto Darii thus.

Da. Euery man is a substance.

But some sensible bodie is a man: Ergo some sensible body is a substance

Ferifon is reduced into Ferio, by limple conucriton of the Minor, as this Sillogifmein Ferifon.

Fe. No man is a stone,

But some man is a sensible body : (which is reduced intoson. Ergo some sensible body is not a ston (Ferio thus.

Fe. No man is a flone.

But some sensible body is a man: ri.

Ergo some sensible body is not a stone

And to forth in all the reft, according as the fignificative Confonances do direct you.

Of Reduction by Impossibility. Chap. 13.

Ow is Reduction by impossibility made?" By toyning the Contradictorie of the conclusion to one A of the premilles, and to dispose the same according to some one The Fift Booke of Logike.

one of the perfect moodes of the first figure, in luch fort as you may thereby make your conclution contradictorie to the premitte which you left out, and was granted by your aduerlarie, whereby your aduerlavic is brought into an ablurditie to confelle two Contradictories, to be irne both at once.

Giuc Examples?

As for crample, if your aductfaric, would deny this Sillogifme in Baroco, enevie man is a fenfible bodie: but fome tree is not a fensible bobie, ergo some tree is not a man: then you may reonce itto the first moode of the first figure, which ig Barbara, by making the Contradictoric of your Conclusion to bee the inino? of pour Sillogiline in this fort, enery man is a fentible body : but euery tree is a man, ergo enery tree is a fenfible body, which are gument be cannot beny, because he hath granted the mino, to be true, tog tithis proposition, feme tree is not a man, bee falle, then this propolition, enery tree is a man, muft needes bee true, fortwo Contradictoriescannot be both true at once, & two true premilles muft needes inferre a true Conclusion, and note that according to the Dinerlitic of the figures, the Contradictone of the conclusion is dinertly disposed (that is to say) made cycher mator or minor accordingly, for in al the moodes of the fecous figure it mult be made the minor, the former Maior being fill referued and in the third figure it must be the maioz, the former minor be= ing fill referued.

To which of the perfect moodes is every vnperfect moode to bee re-

duced by impossibilitie?

To know this it analbe needefull to learne, first the vic ofcertaine wordes compounded of directe fillables, and invented by the Schoolemen for this purpole?

Which be those wordes?

The wordes be thefe contayned in this verfe following, neiceebatis : odiebam: letare Romanis: whereofthe firft nesciebatis, contayning fine fillables representeth the fine unperfect moodes of the firtefigureiodiebam hauing foure fillables betokeneth the fower unperfelt moodes of the fecond figure : letare Romanis, coa tayning fir fillables,fignifierh the fir onperfect moodes of the third figure: in all which wordes the foure vowels,'a ei o do ftill recaine their olde lignifications before taught, feruing here thief= ty to thew the quantitic and quality of enery conclusion, for enery buperfect moode muft be reduced to that perfect moode of the first figure, which hath such conclusion as y vowel of the filiable representing youperfect mod both significias for cramy im this word nesciebatis, here you fee that in the sillable nes representing

The Fift Booke of Logike. the first unverfeet moode called before Baralipton the bowell e.fignifyma air vinicefall negative, both frew that this moode is to be reduced into Celarene, whole Conclusion is an buinerfall negatine, fo as the order of the fillables in the worde nefciebatis th acther with the lignification of the bowels contayned in the faire fillables, you may plainely perceine that Baralipton is to be reduced into Celarent; Celantes into Darii, Dabitis into Celarent, Fapelino mto Barbara, Frifelon mto Darii. The like obsernation and confi= deration is to be bad in the other wordes, reprefenting the reft of the imperfecte moodes of the fecond and thirde figure: for odis ebam appointeth Cefa e to be reduced into Ferio, Cameftres to Darii, Fellino, to Celarent, Baroco to Barbara, againte letare Romanis qu= pointeth Darapti to C. larent. Felapton to Barbara, Disamis to Celarent, Datifi to Ferio, Bocardo to Barbara, and Ferifon to Datii, whereof I gine pou no cramples, because I would have you to exercise pour felle in cramining the former examples of the three figures, and to fee how you can reduce each onperfect moode, to his perfect moode by impossibilitie, according to these Chore rules here fer downe.

The Schoolemen after they have caught the ble of the moodes, and of reduction, do immediately ereat of a fillogifm, made in oblique cales, and also of the fix habilities, and three defectes of a Sillogifine:all which I willingly paffe oner with filence, as things more curious then profitable, for eruely I know nor wher to the fillogilme made in oblique Cales, Doo levue moze then for varietie fake.

Of Syllogismes made in Oblique Cases, and of the lix Habilities, and three defectes of a Sillogisme. Chap. 14.

Hat meane yee by oblique Cases? You learned in your accidents that enery noune bath fix cases (y is to say) the nominative, the gene= tine, the Datine, the acculatine, the bocatine, and the Ablatine, whereof the nomnatine is onely right, and all the rell ave called oblique: as this is a sillogummabe in oblique cales, enery drawing benft belongeth to man, or is the beatt of man : but an ore is a drawing beaft, ergo an ore belongeth to ma or is the beatt of man, as for the fir habilities called fex potellates Sillogismi, they are but meanes to proue the goodnes of one fillogifme by another, or to thew which is more bniuerfall, or comprehendeth moze then another, or to conclude a truth of falle premilles, which Bob wot is a feely kind of Conclusion, the belt partes of which habilities are more calify learned by the rules & examples before ginen, then by thole that they let downe in their treatiles touching the laine. Likewile the three Defectes are none other but Bleuches og Fallares whereof there be thirteene kinds fet bowne by Ariftotle himseife, whereof we fhal speake hereaster, in their place, to as they might lay that there are thirteen defectes afwell as thice, and therefore leauing to trouble you with thefe thinges, I minde here to treate of a compounde Sillogilme.

Ofa Compound Syllogisme, and of the diuerskindesthereof.

Chap. 15.

THat is a compound Sillogisme, and how many kindes thereof be there? A compound Sillogime is that which is made ofcopound propolitions, whereof as there be three losts, lo they make three kindes of compound fillogifmes (that is to fay) condicional, Difinnctine, and copulatine.

Of how many partes doth a compound fillogisme confist?

Of three alwel, as a limple liliogilme, that is of the Maior contayning two limple propolitions, and of the minor repeating the one part of the maio, and of the Conclusion, concluding the other part of the Baaiot, as in this crample : if this woman hath had a childe the bathlaine with a manibut thee hath had a childe, ergo Mee bath laine with a man.

How is the truth of a compound Sillogisme to be found out? By reducing the same into a simple Sillogisme thus, enerie woman that hath had a childe hath laine with a main : but this woman hath had a chife, ergo thee hath laine with a man.

And there we dider the offer of concluding, there we but three kindes of wates (that is to lay) concluding, there we but three kindes of wates (that is to lay) concluding hillimeting, but if you confider the varietic in vicering such sillogulars, you may make feauen lostes of wayes, whereof three appertains to the conditionall, two to the distunctine, and two to the confidence.

Which is the first way?

The first way is of the antecedent, which being granted the confequence must necess follow, both assistantially, and negatively: Assistantially thus is her be godly, here is blessoive is godlic, therefore blesses inegatively thus, if here beener godly, her that not be blessed, but her is not godly, ergo her is not blessed.

What is the second way?

The iccomd way is of the Confequent, which fayling, the anteces bent must also needes fayle, as thus, if he be wife, he is free, but he is not free, ergo not wife?

Which is the thirde way?

The thirds way, is when by granting the antecedent the consequent fayleth as thus, if he be not wife he is wittched; but her is wife, ergo not wietched.

Which is the fourth wav?

The fourth way is when the former part of the maior proposition diffunctive being put, the latter parer is cleane taken as way, as thus, he is cyther good or cuill; but he is good ergo not cuill

Which is the fife way?

The lift way is when the former part of the distinctive being taken away, the latter part must needed stande, as thus: her is evider good of entil: but her is not good, ergo her is cuill, for all Sylingismes distinctive are made for the most part of partes repugnant, whereof there can bee no more, but one true part.

Which is the fixt way?

Thelicetway is by putting a Regartue, before the confunction copulative, lo as it maketh the autecedent to flavoe, and taketh away the Confequent, as thus, he is not both wife and wretched; but he is wife ergo not wretched.

Which is the feuenth way?

The featienth way is when the negative is placed in like manner befoze the confunction copulatine, but yet so as the Antecebenf

The Fift Booke of Logike.

137

Antecedent being taken away, the Consequent doeth frande as thus: De is not both wise and wierched, but he is not wife, Ergo wietched.

Of a consequent, and by what meanes and rules the goodnessethereof is to be knowne.

Chap. 16.

But lith the goodnesse of an hipothetical sillogisms bependeth upon the goodnesse of the consequent, it that not be amille to create here of a consequent, and first to define what it is, & to show how it is divided.

What is a consequent?

A consequent is a speech consisting of such parts as doe follow one another, and are toyined together with some rationall, (that is to say) an inserving or imploying consunction, as kego, then, therefore, and such like.

How many partes are requisite in a Consequent?

Three, that is, the Antecedent, the Conlequent, and the infereing ligne of note, for owhele three parts every consequent consliketh.

How is it divided?

Into two, that is, good and enill, agains the good is divided into two, that is, formall and material.

When is it said to be formall?

when the Antecedent being true, the consequent doth necessarile follow thereof, as when I say, This woman hath had a child, Ergo she hath laine with a man.

When is st faid to be Materiall?

when the Lousequent both not of necessitie, but casually follow, the Antecebent being true, as Socrates walkethabload, ergo it is faire weather.

Wherevon doeth the goodnesse of a Consequent chiefly depend?
It bependeth not so much of the truth of the Antecedent and of the Consequent, as of the necessary connexion, or knitting of the together; and if the same be insounce of a Sillogisme, it requires also the precepts of Moode and Figure before taught to bee observed.

How els shall a man know whether a Consequent be good or not ? ! 18y cramining the same with the Maxims of generall rules of the places: whereof some doe peeld proofes or causes necessary. some probable, and some onely confecturall.

What rules doe the schoolemen set downe to know a good Conz

lequent.

They let downe lome more, some leffe, but Cafarius onely recyreth two, which are thele: The first is, if a Consequent docth necessarily follow of his Antecedent, then the contrary of the Anrecedent must needed necessarily follow the contrary of the Confequent: As for crample, because this is a good Consequent to fay, it is a man, Ergo it is a sensible body: it is a good Consequent to lay, it is no fensible body, Ergo it is no man: the reason thereof, is because the contrarie of the Consequent a the Antece= bent cannot be both true together, but one of them must needs be falle. The lecond rule is that whatfocuer followeth buom a mod Confequent mult needes also follow boon the Antecedent thereof: As for crample, if it be a good Confequent to fay, it is a man Ergo it is a lenfible body ve may alwel fay, if it be a lenfible body, Ergo it is a lubstance: a lith y a lensible body is a lubstance, voi may therefore as well conclude that man is a substance. To these rules you may adde also the third, which is, that of true thinges nothing can follow but truth: but of faile things, sometime that which is falle, and sometime that which is true, as bath beene faid before: and ver such truth followeth not by vertue of the faile premiles, but because the conclusion or Consequent is a true propolition of it selfe: As in this example, Enery sensible body is a tree, but enery pearetree is a lensible body, Ergo enery peare trecis a tree.

Ofa Sillogisme Demonstratiue.

Chap: 17.

I Itherto we have treated of a Sillogisme according to the first three of the foure divisions thereof, before mentioned: A for if ye remember wel, we faid that according to y first dia uilion, a Sillogilme is eyther Categoricall or Bipothetis call, according to the fecond divilion eyther common or expolitorie, according to the third divilion epther perfect or unperfect, and according to the fourth division, either demonstratue, dialectical, The Fift Booke of Logike.

or lopbifficall, whereof we come now to fpeake, e fir to of a silo= gilme demonstratiue:

What is a Sillogisme demonstratiue?

A Sillogilme bemonttratiue is y which is made of necedary, immediate, true, certaine, and infallible propolitions, being firft and so knowne, as they neede none other proofe.

What meane ye by necessary and immediate Propositions?

Recellary piopolitions be those which cannot be otherwise, as those which do consist of the generall kind, of the speciali kind, of the difference, or of the propertie, as bath beene faibe before: and therefore Aritorle maketha difference betwirt a bemonftratiuc @ a bialecticali propolition, for a bemonftratine propolition confifling of matter naturall is necessarily true, and cannot bee otherwife, but a dialecticall propolition, confifting of matter contina gent, or caluall, is onely probable, and may be otherwile.

What be immediate propositions?

Immediate propolitions are those which are first, and haue none before them, whereby they can be proued: as every fenfible body endued with reason is apt to tearne. Aristotle also fetteth bowne three properties or conditions belonging to the lubicet & predicate of a demonstratine proposition.

Which be those properties?

Thele, to be spoken of all, by it selfe, and bumerfally.

What is to be spoken of all?

It is when the predicate is knowne to bee altogether and alwater in the lubicet, eyther as a part of the lubitance thereof, as when it is a generall kind, the special kind, the difference, or the propertie, as some inseparable accident alwaics incident to the laid lubicet, as when I lay: Bueryman is a fenfible body : or eucry man is endued with realon: or enery man is apt to Tpeake: or enery Swanne is white : or enery fire is hot.

What is to be spoken by it selfe? That ig when the predicate is either the definitio of the fublect, as a man'is a lenfible body endued in reason: or els some part of & definition, as man is a lenlible body, or man is endued to realon.

What is to be spoken vniuersasly ?

It is when the predicate is in the subiect, and in enery such fubicet by it felfe, and firft, as when I fay, a man is a fenfible bo= Die endued with reason: here this predicate lensible body endued with realon is not onely spoken of man, but of cuery man in genevall by it felfe, and firit: for if ye fouid fay, Peter of Socrates is a sensible body endued w reason: here the predicate is not spoke ofany of their, as first, but in the fecond place, because they are compiccomprehended under the word man. For generall kinds are fain to be before speciali kindes, and speciali kindes before Individua ums as bath beene faid before.

How doth Aristotle define Demonstration ?

In this fort: Demonstration is a Sillogisme made of fuch mas politions as are true: lirft immediat, and manifeltly knowne, and be the caules of the conclusion: first and immediat here is all one. fignifping fuch propolitions as need not to bee proned or made more embent by any other former Propolitions. Againe the premiles must be more knowne then the conclusion, for otherwise it frouid nepther be demonstration not pet good fillogifine. fis nally the Piemiles must render the very cause of the conclusion: and therefore Arithode in another place faith, that bemonstration ts a billogisme causing knowledge and science.

What is science ?

It is a firme and affired knowledge of any thing.

What is to know ?

we are faid to know athing, when weeknow the true canfes thereof, and that it cannot be otherwife: for to make a perfect de= monstration we must not onely shew that there is such athing as we go about to prone, but also we must frew the cause why it is fo: for (as Aristocle saith) enery discipline and doctrine intellectine dependeth bypon a former knowledge which is twofolde. whereof the one is to know that the principles (that is to fay)the premiles of the demonfration be true, and the other is to know the true fignification of the subject and predicate of the question: for buleffe a man knowe what the name of the subject significth. whereof the question rifeth, and also the proper qualities of the same, how shall he bee able to inoge whether the proofe which is brought in to proue the question withall be to the purpose or not. Againe vilelle he know the premiles to be true, the demonftration fhall breede no certaine knowledge in him.

Giue example of a Sillogisme demonstratiue?

Act this be your crample: Enery sensible body endued with reason is apt to learne, but every man is a sensible body endned with realon: Ergo enery man is apt to learne. Bere you fee that in this Sillogifme the premiles being true and firft, doc render the cause of the conclusion: and therby do imply a most true conlequent: for who to would go about to demonstrate any of the premiles by some other former, or more knowne propositions, thould look his labour, lith there is none before them more certaine not more knowne to proue this conclusion withall then they: for to buderstand the truth of these premiles, it sufficeth one-

The Fift Booke of Logike. ly to know the lignification of the tearmes, and to hause fome erperience of the thing called man : and therefore this kinde of de= monstration is calico of the schwlemen Sillogismus scientificus, because it yee loeth the perfect knowledge and science of the thing in auestion.

Of the certainty of mans knowledge.

Chap. 18.

THereof dependent the certainety of mans knowledge? Dithice things, that is, of uniuerfall experience, of principles, & of naturall knowledge that a man hath in indging of Confequents: for thefe be three infallible rules of certifude of truth in all kinds of doctrine.

What is vniuerfall experience ?

Univertall experience is the common judgement of men in fuch things as are to be percequed and knowne by the outwarde fences: as fyze to be bot, the heanens to turne round about, wine and pepper to be hot in operation, women to bring forth children and not men: which things all men (buleffe they be mad and out oftheir wittes) multineeds confesse to be true.

What be principles?

Painciples be certaine generall conceptions & naturall knowlebges graftedin mans minde of Bod, to the intent that by the helpe thereof be might innent luch artes as are necellarie in this life for mans behoofe, for by the naturali knowledge of the mind we birderftand, number, order, proportion, and all other necessary artes and fciences.

How doth Aristotle define principles?

In this manner:principles be true propolitions having credite oftheinselucs, and need nojother proofe.

How many divisions do the schoolemen make principles ?

Diuerle.

Rehearse those Divisions ?

The fire is, of principles some bee called speculatine and some practine: Che ipeculatine be thole naturali knowledges of propolitions whereof naturall philosophie or the Mathematicall leiences be grounded, as thele: The whole is more then his part: Those things which are equal to a third, are equal among themselucs.

feines : ofone fimple body there is but one naturall moning, and fuch like. The principles practine, be those natural knowledges. whereby mens manners are gouerned; for by this naturall light we know the difference betwirt good and entil: As for example: thefe be principles practive : Bod is to be honozed and obeyed : Juffice is to be embraced : cinell focictie is to be maintained and the diffurbers thereof to be punified; thefe & fuch like propositis ons are naturally received of all menas infallible verities, Again of punciples some be called generall and some proper. The generall be those that may be applyed to many sciences, as these: the whole is more then any of his parts, if equall bee taken from equall, equall doe remaine and such like. The proper principles be those that are properly belonging to some one certaine science, as a line to be a length without breadth, is a principle of Beome= trie: Againe this propolition, euery thing is, or is not, is a principle of Logicke, and to be Choit, enery leience hath his proper principles. Of which some be called dignities or Maxinis, and tome politions.

Wherefore are they called dignities or Maxims?

For that they are worthy to be credited for their felfe fake, for fo foone as we heare them in fuch freech as wee vederfand, wee naturally know them to be true without any further proofe, as thefe. Take equal from equal, and equall wil remain: the whole is more then any ofhis partes, &c.

What be Positions?

Politions be thole principles which although they neede no 0= ther proofe, yet they be not so castly understoode of all men at the first vecering as maxims be : for in these belides the knowledge of the tearmes it is needfull to have also some experience, as in these principles, Euery thing that is compounded of matter and forme is moneable: whatfoeuer is beaute tendeth naturally bowneward, and whatfoeuer is light tendeth beward. Againe of Politions, some are called Definitions, and some Suppolitie ons, and of improfitions some are called petitions, called in Latine Poftulata, and fome Suppolitions allumpted.

Define these kinds !

1 Definition fheweth what the thing is.

2 Suppolition is that which suppolith a thing to be, or not to be, as the Beometricians doe suppose that there is Punctum: (that is to fay) a pricke or a thing individible, having neyther length, breadth, nor depth.

a Petition is a Propolition alked and granted to be true: as this is a peticion in Beometrie, that a manmay diawe a right line from one point to another.

4. Suppolition allumpted is when a manifelt luppolition is allumpted to proue another thing withall, as to proue that Demonfiration confifteth of true propolitions, the disputer will affumpt this affertion, which layth, that offalle thinges there is no certaine knowledge: and that truth is not knowne but of true thinas.

What is the third thing whereof the certainety of mans knowledge

dependeth?

It is the knowledge that man hath in indging of confequents, which is not altogether artificiall, but partly naturall, for Bob thought it not lufficient for mans behofe to know limple propos litions as principles of common conceptions gotten by experience, onlette bee could allo compare them together, and toyne thinges like : and agreeable together, and feuer things bulike, and bilagreeing one from another, and by luch comparison and composition to finde out thinges before not knowne, and to the intent we fould not erre or wander out of the right way, Bod hath thewed us an order, and preferibed certaine boundes and limites of necessitie to bee observed in such composition, which boundes are Sillogilmes rightly made: for fo boe the Confequentes plainely appeare: And because that proportions are knowne by nature, it thall not be amille to give you an example in numbers; for thice knowne numbers being placed in true ogder of a Sillogifine, 'a fourth number buknowne of necellitie booth follow, as inthis queftion: Mone pounde of ware bee worth a groate, what is tenne pounde of ware worth? Marry ten groates: which is produce by a Sillogifine in this manner: Buery pounde of ware is worth a groate, but here is ten pound of ware, Ergo they are worth tenne groates; and like as in thefe kindes of Billogilines Arithmeticall, the proportion which is to be judged by mans naturall knowledge doth thew the confe-

quent to be infallible, euen lo the Consequentes in os ther Sillogilines are thewed to be infallible by inch demonstrations as are not farre fetched or doubtfull, but are manifelt, plaine and cuident.

Of the two kinds of Demonstration.

Chap. 19.

Ow do the schoolemen deuide demonstration. Into two, that is perfect & buperfect: and they call the perfect, demonstratio propter quid: and the unperfect, demonstratio quia est.

It is perfect when it proceedeth from the proper caule to the effect, called of the schoolemen a priore, for in that demonstration the Antecedent contamneth the proper and true cause of the consequent, as when we lay, the funne is by, Ergo it is day.

What is to be observed in a perfect demonstration?

That the predicate of the conclusion, which is also predicate in the Maior be first, properly alwaies, and that really and accidens tally, incident to the subject of the Maio, and to every thing concained under the laine, which subject must be some generall kind. and the very incane of proofe of your conclution: As for example, if you would prone a cocke to be a feathered fowle, it were not a fufficient demonstration to lay, that enery flying beaft is a feather red fowle, for some beatter Av that have no feathers, as Backer that fie in the night featon. But if you lay foat enery birde is a feathered fowle, and enery Cocke is a birde, ergo enery Cocke is a frathered fowie: you wall make a perfect demonstration, bes cause the subject and predicate of the egaior have such conditions as are before required, for this Maior Cheweth the thing to bee, and also wherefore it is, which is done to often as the Bredicate is the true definition of the subject, as when I say: Euery man is a sensible body endued with reason, or cla some chiefe parte of the definition, as whe I lay, Euery man is endued with reason, as hath beene laid before: for enery good demonstration's cither made of a true definition, or taken from the generall kind, specie all kind, or els from the special difference, of property, yea and fometime they may be taken out of the whole and of the partes. of the proper caules and effects, of perpetual adiacents, other wife called common accidents, of proper acts, of contraricties, and of vinine authoritie, whereof you have had examples before in the treatife of places and feates of arguments.

VVhen is it said to be an unperfect demonstration?

when the premiles are true, implying a true confequent, but

The Fift Booke of Logike. per are not firth, nepther doe they thew the original cause of the louclution, as in this example: Euery fentible body is nourily= able, but enery mante afentible body, Ergo enery man is nouris Chable: here though the premiles be tene propolitions, yet they be not first, negther one they thew the originali cause of the conclusion: for the Maior of this lillogisme may be proued by a for= mer and more knowne propolition, for that which is more generall is more knowne then that which is leffe generall, as thus : Buery lining body is nouvilhable, but enery fenfible body is a liuing body, ergo enery fentible body is nourilhable. Agame it is laid to bee vinpertect when wee proceede from the effect to the caufe, as when we lay, it is day, Ergothe Sunne is pp. Burthat demonstration which proceedeth from the cause to & effect is the more worthier, because we vie therein discourse of reason and but berflanding: and in the other we onely moge by the ourward fences, whereoffpringeth two principall kindes of methode, (that is tolay)compendious and Choit orders or waves of teaching in all manner of iciences, whereof the one is called composition proceebing forwarde from the first to the last, and the other is called re= folicion, proceeding backeward from the last to the first, as bath beene faid before in the Chapter of Bethode, Lib. 2. Chap. 5.

> Ofscience, opinion, ignorance, wit, and of the fower sciential questions.

> > Chap. 20.

Hat other things are wont to be treated of by the schoolemen in demonstration ? Dinerle things, as what difference is betwiet feis encoand opinion: also they wear of the dineric binds ofignozance, of prompt witte: and of the foure leientiall queliong.

What difference is betwixt science and opinion?

Science as hath beene faid before, is that which confifteth of necellary, certaine, and infallible propolitions, and of luch thinges as cannot be otherwife. Opinion is the knowledge of thinges caluall, which may be sometime faile and sometime true.

Howmany kindes of ignorance do the Schoolemen make?

Two

Two: that is to lay, ablolute, which of the schoolemen is cal led Ignorantia negationis, & ignorance by faile conception, which they call Ignorantia affectionis. The first is, when we beterb Deny to baue any knowledge of a thing at all: The other is, when wee thinke to know that which we know not, being deceived by fome falle perswasion, whereunto we are affected, whereof it is called Ignorantia affectionis.

How doeth Arithotle define prompt witte, called of the Latines So-

lert a?

De defineth it to bee a promptnede or readinede in quickely finding out the proofe or cause of any thing that is in question without any fludic.

Which be the foure scientiall questions?

Thele, whether the thing be, what it is, how it is, and wherefore it is: wherof the first enquireth of the subicat whether it bee : the fecond of the predicate, as what it is: the third how it is, (that is to lay) how the predicate is spoken of the subject? And the fourth askerb the cause why it is spoken of the subject. And thus much of a Sillogisme demonstratue, now of a Sillogisme Dialectical or probable.

Of a Sillogisme Dialecticall.

Chap. 21.

THat is a Dialecticall Sillogifine? A Dialecticall Sillogilmeis that which is made of probable and credible propolitions.

What things are faid to be probable?

Things probable according to Arifforle, are thefe that feeme true to all men, or to the most part of men, or to all wife meneor to the moft parte of wife men, or els to the most approued wife men : whereby it appeareth that things probable may be faid fine manner of waics.

Shew how.

First those thinges are probable, which but all men aswell learned as unlearned being in their right wittes do feeme to bee true, as thefe: Euery mother loueth her child: we loue them that lone bs: we must do good to them y do good to bs. Secondly those things y feeme true to most men, as thefee it is better for a comunaity

The Fift Booke of Logike. caltie to be ruled by one prince then by many: It is not good to ferue many Maisters at once. Thirdly, those thinges that

feeme true to all wife men, as thefe: what thing focuer is honet, the fame is also profitable: Wertue is better then riches. Fourthly those that leeme true to the most part of the wife and learned, as thus: the foule of manis immortall : the Sunne is greater then the earth. Killy those thinges that seeme true to the most approued wife men, as these. The worlde had a beginning: it is better fog a prince to bee loued then feared of his lub= tects. And generally buder things probable are contained all true propolitions that be calitall, and not implying any necellitie. 3 lay here true propolitions to exclude falle propolitions, whereof lophisticall Sillogismes are made, and not those which we cal probable or logicall Sillogifines, and yet fuch propolitions bec not fo true in Decde, as thole that be required in a Sillogilme Demonstratiue, but onely bo fceme true engendzing a certaine opinion inmans mind, boubting notwithstanding the contraric: for it breedeth not a perfect knowledge ag fcience both, whereby the mind is of all doubtes throughly refolued. And note here that the schoolemen do make the matter (wherof a Dialecticall Sillogifine both confift) to be twofold, that is, Materia remota, in Englift farre of: and Materia propinqua (that is to lay)nigh og neere

at hand. What doth Materia remota containe ?

Thefe fower Diaketticali Predicates, (that is) Definition, called of the Schoolemen Terminus, property, generall umb, and Accident : All which predicates are before befined, and are called predientes, because they are common wordes spoken of others. But trucky I fee no caufe why thefe foure Predicates fhould bee attributed to a dialecticali Sillogilme, more then to a Sillogilme Demonstratine: for fure Ham, that as good demonstrations may be made of thefe as of any other predicates.

What is contained under Materia propinqua?

Theld: a dialecticall propolition, Probleme, and Polition. What difference is betwirt these three wordes, dialecticall proposi-

tion, Probleme, and Polition.

A Wialectiall propolition is a probable question becered with a timple Antercogatorie, as whether the mother loueth her childe? Which is no question in beebe, but to bien that als ketb.

A ispobleme is a doubtfull queffion breeved with a double Ins terrogatorie, as whether the leaft fired flavre in the firmament be greater then the Moone of not? of whether that the Summe bee

bigger

bigger then the earth or not. Polition is a wonderfull opinion maintained by some excellent Clearke, as to say, that all thinges are but one ellence or being, as Meliss affirmed, or that all thinges bo continually flowe and change as Heraclius helde, or that the earth moneth and not the heavens, as Copernicus supposeth, one-iy to sind out thereby the true motions of the planets, and not for that he thought so in deede.

Of a sophisticall Sillogisme.

Chap. 22.

Hat is a sophisticall or falle sillogisme?
A falle Sillogisme is y which is either made of falle propositions, or els of such as iceme probable, and be not in deede, or els of probable premises not rightly concluding, and of such Sillogismes there be three sorts, the one sayling in matter, the other in some, the third in both.

When is it faid to faile in matter ?

It faileth in matter when the Sillogisme having true forme is made of such Propositions as seems probable, and bee not probable in deeds, as thus: no opposites are both true at once, but subcontraises are opposites, Ergo they are not true. Dere though this Maior seemst probable, because many opposites as contravies, and contradictories be never both true at once, yet it is not probable in deeds: for those opposites which be called subcontrary and subalternate may be both true at once as hath beene before.

When is it said to faile in forme?

It fayleth in forme when it is made of probable premifes not rightly concluding because they be not orderly disposed according to moode and Figure, as thus: Some opposites are both true at once, but Contradictories are opposites, Ergo Contradictories are both true at once. Here the premises be probable, but the stillogisme halteth in forme, because that of meere particulars no good conclusion can follow.

When is it said to fayle both in matter and forme?

It fayieth both in matter and forme, when the premiles are neistler probable not yet doe conclude rightly according to the rules of Logicke, as thus: No opposites are both true at once, but subscontinues are opposites, Ergo no subcontravies are both true at once once

The Fift Booke of Logike.

149

nce. Bere first it faileth in matter, because the Waioz (as bath beene said before) is not probable in deeds. Agains it sayleth in some, because that contravie to the rules of a Sillogisme a uniquesall conclusion is implyed, one of the premises being particus

lar which should not be.

Is there no other kinds of false Sillogismes?

yes, there is another kind of falle Sillogisme called of Aristotle Sillogismus falsgraphus, which proceedeth of the proper principles of some discipline, misconstrued of not rightly understod, as thus: All lines drawne from one selse point to another sels point, bee equall, a right line, and a crooked line bee drawne from one selse point to another selse point. Ergo a right line and a crooked line be equall, as you see in the figure a. b. in the margent: here a the Maior being a principle in Beometrie is not rightly understoods, so the right meaning of the principle is that the lines should be also drawne in one sels space, and then they must need be equall (that is to say) all of one length? but as touching salse Sillogismes we shalt reate of them hereafter more at large in the Elenches: in the meane time were mind to speake of the other kinds of arguments before mentioned, and sirt of Induction.

Of Induction.

Chap. 23.

Hat is Induction?
Induction is a kind of argument wherein were proceed from many particulars to a universal conclusion, comprehending all the said particulars: and by the particulars here I means not onely singularities, called in Latine Individua, but also such things as being common then y universall which is concluded, as when were proceed from many special kinds to some generall kinds comprehending the same, or from things less common to more common.

What is to be observed in this kind of reasoning?

That the particulars be all of line nature, for if there bee any one contrary or bulike to the reaction the induction is not good.

How manifold is Induction?

Awofold: perfect, and unperfect: it is called perfect when all the lingularities are rehsarled; and unperfect when but some certaine partes are onely recyted.

Giue example of Induction ?

Of an Induction, proceeding from mecre fingularities buto buincifall, let this be your example : Malmelie is bot, Bafcon wine is bot, Romney wine is botte, Sache is bot, Renift wine is hor, french wine is botte, & fie de fingulis: Ergo enery wine is botte: which may be brought into a Sillogilme thus: Eucry thing that is wine be it eyther of Greece, Spaine, Italy, Germany, Fraunce, or of any other country is bot, but enery wine is one of thefe, Ergo enery wineis hot.

Giue example of an Induction proceeding from the speciall kindes

to their generall kinds?

Of an Induction proceeding from the special kindes to the generall kind, let this be your crample: Buery man bath moos ming, enery horse bath moning, enery Dre bath moning, & sic de fingulis: Ergo enery fensible body bath mouting. In which ers ample you fee that to enery special kinde is abord a buincesall ligue to make your Induction good, which would not bee to, if you should vie a particular ligue, in laying, some man, some boile, some Ope, and to forth.

Which of these two kindes of reasoning, eyther an Induction or a

Sillogime is most familiar and easie to man?

Induction is more familiar to man then a billogilme, for & fillogiline proceedeth from vniuerfalities vnto particularities. which vinicefalites be mozeknowne to nature, (that is to fav) to the discourse of reason, and less known to our outwarde sens ces. But Induction proceedeth from particularities buto buis nerfalities, which particularities are more knowne buto be (that is to lay) to our outward lences, and telle knowne to nature. Againe by Induction wee are able to proue the principles of demonstration, which are not otherwise to be proued, as this principle: Enery whole is more then his part, may be proued by Induction in this fort: This whole is more then his part, and that whole is more then his part, neither is there to be found any whole, but that is more then his part : Ergo enery whole is more then his part. Allo this principle, Guery fentible body endued with reason is aut to learne, may be proned thus: this man

is aut to learne; and that man is aut to learne, and fo of the reft, ergo enery fensible body endued with. reason is aut to learne.

ិនា**យាស្**រូវ។ ១១៩៦ ត

Of an Enthimeme. Chap. 24.

WHat is an Enthimeme ? An Enthimeme is an onperfect Sillogiline made for halte or fpeed of two propolitions onely, (that is of one of the premiles called in this kind of argument the Antecedent, and of the conclusion called here the Consequent, for the other of the premises being supposed to be true and well knowne, is left out of purpose as a thing superfluous and not needeful to be recyted, and somes time the Maioris left out as thus : Wolnptuoulnelle is not perpetuall not proper, it is not therefore the chiefe felicitie: & foine= time the Minor is left out, as here, enery good thing maketh his pollellog the better, therefoze voluptuouliielle is not good.

How shall a man knowe when the Maior or Minor is lest out?

It is calle to know which of the premiles is left out by this meanes, for if the lubicet of the Antecedent and of the Conlequent be allone, then the Maioz is left out, but if they be not allone but divers, then the Minor is left out, as you may fee in the two laft examples, and the part lacking being reduced together with the rest into a Sillogiline, will quickly thew the truth of fally od of the argument.

From whence are such kinds of arguments gathered?

They are gathered for the most part from lignes, which if they be necessary, then the Enthimeme also is necessary, as thus: Ehe woman gineth milke, ergo the bath had a child, og is with childe: if the lignes be probable, then the Enthuneme is also probable, as thus: This man is a night gadder, ergo be is a thiefe.

Of an Example.

Chap. 25.

THat is an example? An Erample is a kinde of argument, wherein wee proceed from one particular to proue another partis cular, by reason of some likenelle that is berwirt them, as thus: Bod did not punil) the Miniuites because they repented, ergo be will not punish vs if wee repent. Bod did not letto plague king Dauid for adulterie, ergo be will not let to plague any other king for committing the same offence. Wherein

Wherein differeth this kind of argument from the rest ?

This kind of argument differeth in forme from all the reft bea fore taught, for a Silligilime proceedeth from the generall kinde to the speciali kind or otherwise. An enthineme limitating alif logifine reciecth in his antecedent the cause of the conclusion. A game an Juduction out of many particularities gathereth a buinerfalitie, none of which things is to be found in an example procceding onely from one particular to another like particular. Morwithstanding Aristotle faith, that it may be reduced partly to an Induction, and partly to a Sillogiline : for in taking the firth particular you may by an onperfect Anduction imply an oniners fall propolition. And to from that bunnerfall propolition to proceede by order of Sillogifine buto the other particular implied in the conclusion of the example, as in this example: Iudas Died cuill, Etgo Pylate allo dyed eufil: it may be firft reduced into an buperfect Induction thus: Indas bied euill because bee was the author of Christes death, and did not revent, Ergo cuery man that was author of Chriftes beath and bio not repent byed euill. Juto a Sillogisme thus: Query man that was author of Christis death and did not repent dyed entil, but Pilace was author of Christes beath, and bid not repent, Ergo Pilate Dich emil.

Whereto serues this kind of reasoning by example?

Examples are very good in all maiall matters to perimade or Dillwade.

What is to be observed in reasoning by way of example?

You must in any wife bee fure that the fimilitude of likenesse of the particulars doe make to the purpose which you intende, a that it be the very cause why the predicate of antecedent pro= perly belongeth unto the subject, for otherwise the argument is not good: for if you flould reason thus: Iudas dyed enil, ergo Peter dyed enill: because they were both sinners: for their likenesse in this behalfe is not the cause that Iudas dyed entil, but the cause befoze alleadaed.

From whence is this kind of argument fetched?

·神文《胡文·《郑钦·李·明》(宋,《《《》)

From the places of comparison, as from the like, from the more, and from the leffe, of all which the generall rule of Manim is thus : In thinges like is like judgement of reason, as bath beene laid before in the treatile of places. Thus farre of the

foure principall kindes of reasoning, now of the rest and first. and a monthly of the many of

Of the Argument called Sorites.

Chap. 26.

THat is Sorites? Source is a kinde of argument proceeding as it were by certaure degrees unto the Conclusion, which is gathered offinang propolitions necellarily following one another, and are mut together, lo as the Pocht cate of the fielt propolition, is the subiect of the second, and the predicate of the fecond the fubicet of the thirde, and fo forth enen to the last proposition, whose predicate being joyned to the subrect ofthe firft propolition, both make the Conclusion as thus : The foule of man doth moone it felfe : whatfoeuer moucth it felfe is the beginning of mouning : the beginning of moning bath no end, Wharloener hath no end is immortall, ergo the louic of man is immortall.

When is this kinde of argument faid to be offorce?

when it is made of affirmative propolitions, wherein wordes of affinitic are necessarily topned together, as when kindes general, differences, or properties, are ioined with thole (pecial kinds of whome they are fpoken, or when proper effectes are toyned with their proper caules, for if the propolitions be cyther negasine, or do not necellarily hang together, then it is no good argument, as in negatines let this be your crample : A man is not a Lyon, a Lyon is a fentible beatt, ergo man is not a fentible beatt. Prow of propolitions not hanging necellarily together, becaule that proper effectes are not toyned with their proper caules, let chis cominguieft be your evample.

mbo fo brinketh well, acepeth well, mho to deepeth well finneth not. mbo fo finneth not fhalbe bicfled, Eggo who fa drinketh well, halbe blelled.

which is no good conduttion, for much brinke is not alwaies the saule of Acque, not accrime the cause of not limited. The

1:54 The Isberogicians ble another kinde of argument, called Gras datio, which is much like to Sorites, lauing that the lubiect of the fielt propolition is not rebearled in the Conclusion, for they bie it rather as an omament offpeech, then as a profe, as the bertue ofscipio wanne bim fame, fame got bim enemies, and bis enes mics procured his death.

Of divers other kindes of argumentes, and first of a Dilemma, and what kindes it comprehendeth.

Chap. 27.

Here be also other formes of argumentes, whereof some be Palilaxes, and some are good conclusions, and they be the le, Dilemma, Enumeratio, simplex Conclusio, Subiectio, Oppositio, Violatio.

What is Dilemmar:

Dilemmais an argument made of two members, repnanant one to another, whereof whichfocuer thou grantelt, thou are bo and by taken, as thus, it is not good to marrie a wife, for if the be fayze thee wil be common, if fowle then loathfome: notwithfians bing, this is but allipperic kind of argument, buleffe both the repugnant partes be luch, as neyther of them can bee turneb a gain bpon the maker of the argument, for then by connection, the Dilemma, is foon confuced, as for example, you may conuert both partes of the argument latt recited thus : it is good to marrie a wife, for if the be fagre, the thall not be loathforne, if fowle then not common, much like to this is that captious argument, which Protagoras the lawyer made against his scholler Eugihles, who had conenanted to pay his maifter a certainclumme of money at the firft luite of action that bee fould winne by pleading at; the faw, whereupon his mailter bis afterwards commence an action againft him, and in reasoning with him of the marter made him this Dilemma : cyther (laieth bee) 'ludgement finibe ginen as gainst thee, or with thee, is against thee, then thou must pay mee by vertue of the subgement, if indicting the given with thee, then thou must also pay mee by concuant, which the schooles immedia ateip

The Pift Booke of Logike.

mile confuted by convertion in this fort, eyeher layeth hee indge= ment hathe giuen with mee, or againft me, if with mie toen 3 halbe quit by law, if againft mee, then I ought to pay nothing by couenant.

What other intricate kindes of reasoning are said to bee comprehens

ded under Dilemma?

Dinerle, whereof fome be called Ceratinsothogned argunents, Come Crocodolites, lome Allitatons, foine pleudomenons.

Define all these kindes, and give examples?

E The horned argument is when by fome lubtile and craftie manner of questioning, wee fecke to have such an answere as we enay take vantage thereof, as the pharifes bib when they quefti= oned with Chrifftouching the payment of tribute to Celar.

. The Crocodolite is when being deceined by loine crafty man= ner of questioning, we bo admit that which our aduerlarie turneth again upon us to our own hinderance, as in the faule of p Crocodile, whereof this name Crocodolice proceedeth, for it is laid that the Crocodile hauing taken away a childe from his mother, reasoned with her in this fort: I will veliuer thee thy chilo againe, if thou wilt lay a troth, whether therefore that! I beliner him or not, the mother answered, thou thalt nut Deliuer him, and therefore of right thou oughtelt to belier him, no layeth be, 3 will not beliuer him, to the entent it may feeme that thou half faid troth, and though thou habbel faibe that I fhoulde beliner hun, yet 3 woulde nor peliner him in deede, for making thee a iver.

3 Aniffatonisa kinde of caucling not confifting of any fure ground, as if a man bid fay, that hee both hold his peace, or lyeth, or throwerh nothing another by and by might cauill thereof in this lost, ergo her that bolocth bis peace fpeakerh, hee that lyety fageth truth, bee that knoweth nothing knoweth fomething.

4 pleudomenon is afalle orlying kinde of caucling as thus: the heavens concreth all thinges, ergo it conereth it felfe, Epimenedes, bring a Candiot buntelfe laide, that the Candiotes were lyers, the questimires whether he faibetrue or nor, tor though be laibe truc, and that the Candiotes were lyars, vetit is falle, becaufe a Candiore fath it : againe if the Candiates bec no lyers, to Epimenides is a lyer, then he is to be beltened.

How are the Fallaxes of these captions argumentes to bee founde

out

The Fallares of all thefe kindes of captions argumentes are foone found out, if we confider met the rules before mught fouch ingthe repugnances of Propolitions, as imbether there we any ambignitic in the termes, and whether the felfe fame termes in the repulguant partes have respect to one felfe thing, time, or viace or not, it is good allo to confider the substance, quantitie and qualitic of the propolitions : for in the laft example this fay ing Candiotes belyers, is a propolition indefinite, and thevelore is not of fuch force as to fay, all Candiotes be ivers, which is an uninerfall proposition, for of particular premistes nothing raches ly followeth: In the other cramples you Chall fmoe that there is some doubtfulnes in the cermes haung respect epther to bis uces thinges, to dincre times, or diners places, as to lav, he hole orth his peace when her spoaketh: Bere is boubtfulnes in the termes having respect to biners thinges, that is to say aswell to those thinges, which he meaneth to beepe in silence, as to those wordes which he attereth by mouth, fo in this word fuite in the

example of Protagoras was doubtfuines, for that Protagoras nient

Of Enumeration.

fome other fuite, andnot that which he himfelfe commenced.

Chap. 28.

"Hat is Enumeration? Enumeration is a kinde of atyument, wherein mas nythinges being reckned by and denged, onething onely of neceditie remaineth to be affirmed, as thus : Sith thou haft this hogle, epther thou dioff buy him, of he came to thee by inheritance, or he was genen thee, or bred at home with thec, or cle thou dioft take him from thine encine in time of war, ogifnone of thele were, then thou muft needes fteale him : but thou neither boughtst him, noz hee fell not buto thee by inheria tance, nor was genen thee, nor bred by at home with thee, nor yet taken by thee from the enemic, it followeth therefore of need ceditiethat thou hait staine bun.

When is this kinde of argument to be confuted? when your aductiarie can ploue any necessarie part to be left out.

Of a simple Conclusion Chap. 29. Matica simple Conclusion? A funple Conclusion is no other thing, but a neces

The Fift Booke of Logike. farie Enthymeme, in the which the Confequent doth necellarilie follow the antecedent, as thus, thee hath had a childe, ergo thee bath layne with a man.

Of Subjection.

Chap. 30.

THat is subjection? Subiection is a queffioning kinde'of argument, inthe which wee confute each queffion with a reas fon immediately following the lame, as thus: how is this fellow become fo wel monied, had he any great patrimonye left him ? no : for albis Rathers landes were folbe, came there any inheritance to him by difcent any other wife? no, for hee was difinherited of al men, came there any goodes winto bun by Executorthippe &c. if then hee hathnot beene enriched by any of thele honed wayes, eyther hee bath a golden myne at home, of elle be is come to thele riches by lome bulawful meanes. E bis argumentfayleth when any principall part is left out, and theres fore differeth not much from Bnumeration befoge recited.

> Of Opposition. Chap. 31.

VVHatis Opposition: Oppolition is a kind of Argument made of Repugnant partes, wherein we renert from the oppolit of the firft propolis tion, buto the same proposition againe, as thus :if 3 were in the citie at furt time, as this man was flaine in the countrie, then A dew him not, this propolition is now alimple conclusion, and may be made an Oppolition in this manner, if I had been in the countrie at fuch time as you fay this man was flaine, then you might well fulpect mee to haueflaine bim : but fith I was not there at that time, there is no cause therefore why yee Mouloc suspect mee.

Of Violation.

Chap. 22.

THat is Violation? Thiolation is a kinde of Concluding, more meete to confute then to prone, whereby we hew the reason of our adnersary, to make for vo, and not for him, as thus : et is not good to marie a wife, because that of marriage many times commeth the loss of children to our greatforrow, year rather it is good therefore to marica wife to get other children for our comfort. This muth conching the dincree kindes of reasoning, now we will treat of Fallaces, orfalle Conclusions, and thew how to confuce them.

Here endeth the fift Booke of Logike.



THE SIXT BOOKE OF Logike.

Of Confutation.

Chap. 1.



Here be some that make two kindes of Confutation, the one belonging to person, the other to matter, confutation of person is done eyther by taunting, rayling, rendring checke for checke, or by scorning, and that eather by wordes, or else by countenance, gesture and action, which kind of Consutation because it belongeth rather to coffing then to true order of reasoning, I will leave to speake thereof,

dealing

The Sixt Booke of Logike.

dealing onely with that confutation that belongeth to matter, which is twofolde, the one generall, the other speciall, it is generall When wee affirme that the argument fayleth eyther in forme, in matter, or in both, againe the generall confutation is done three manner of wayes, that is eyther by denying the consequent, by making distinction, or by instance

(that is to fay) by bringing in a Contrary example. Shew when these three waies are to be vied ?

Af the argument tayle in forme, then wee muft benie the Confeauent.

Giue examples?

Discipline is necessarie, but the ceremonics of Moles are Disci= pline, therefore the ceremonics of Moles are necessarie : here you mult beny the Confequent , because that of meere particulars no= thing followeth, and to be thost, when any argument is made cotrary to therules offigure and moode before taught, the Confes quent is not good, and therefore to be benged, as here : cuery couctous man both violate the lawes of liberalitie, but euery pios Digall man both violate the lawes of liberalitie, therefore cuery prodigall man is a concrous man : this fillogisme being of the legond figure is made in Barbara, which moode belongeth not to thatfigure :but ifthe argumentfayle in matter, that is, when epther one of the premiffes or both are falle, then it may be confuted afwell by denying the falle part, be it major or minor, as by be fing biffinction, and to finde out the fallenes of the matter, it is necellarie alwaies to hane respect to the marms of the places, from whence the proofe is fetched, for they do fiew which propos litions are true, and which are not, as for example in this argus ment:no painted fpecch becometh fohilolophers, but eloquence is painted fpecch, ergo eloquence becomineth no 19hilosophers, bere the maior is to be benged becaufe it is a falle befinition : for the true definition of eloquence is todpeake wifely, aprily, abountaly, and to the purpole, and not to ble painted wordes vainely: again who to worthippeth Bod the creator, worthippeth the true Bod, the Turkes worthip Goothe Creator, ergo the Turkes worthip the true Bod, this argument is to bee benped, because the mino; ... is falle, for no man can truely worthin Bod the Creator, bullelle he worthip also Jesus Christ his sonne, which the Turkes doe nor, and therefore they worthip a fained Hooll, and not the true Mod.

When is distinction to be vied? when eyther the wordes or matter is doubtfull.

Give examples of both

All verbs active do lighilie actio, but Bod pled this verb active

Indurabo, in faying 3 will harden Pharaes hatt, ergo wood be barden Pharaces bart, bere diffinction is to bee made, for berbes actine hane diners lignifications according to the dinerfities of the congues wherein they are bereved : for in the Bebrew tonge berbes actine do lignific permission of sufferance, alwell as action as thele wordes I will harden Pharaces bearte (is almuch to lay) as I will fuffer Pharaces beareto bee hardened, tikewife whereas we fay in the Lowes player, lead be not into temptatis on, is as much to lay, as, luffer be not to bec led into temptation agame ambiguitic may be inthe matter, asthus : no finnes are beard of Bod : but all men are finners, therefore no men are beard of Bod, bere diffinction is to be made betwirt venitent finners, and impenient : for Bod will heare the penicent finner, al-

though hee will not heare the impendent littner. When is confutation by instance yied?

when the argument though it fayle, neither in forme nor mate ter, yet perhappes it is neither fo frong, not fo probable, but that a ftronger and more probable may bee made againft it. Giue example?

who fo killeth any Amballadors in their formying, both violate the lawes of armes ; but the Frenchmenkilled our Amballader cournying to Spaine, ergo the Arench menting doing did violate the lawes of Armes: hererothe andioxeman may answere by instance thus : the Athenians killed the Ambasadors of the Lacedemonians iomeying to the king of Polia, because they went to procure his aide to bestroy the cittle of Athens, so likewise the Romaines of intercept the Legates of Hanibal going to the hiner of the Maccoonians for the like intent, and yet neither of thefe people of chinks to breake the lawes of Armes by doing that which floored preferne their flate and common weale.

Of special confutation.

Hat is speciall Confutation? Speciall Confutation is when we confute any faife argument, by detecting and Gewing the Mallar thereof naming the Fallar by his proper name. \mathcal{A}_{i} by \mathcal{A}_{i}

What order doth Arittotle observe in treating of special Confuracions

Aristotle

The Sixt Booke of Logike. ArHode firt treateth in generali of all those thinges that commonly apperraine to the disputations of learned men, as first hee treateth of an Blench, which is almuch to lay as reprehention, then of Syllogilmes, and of disputation, and allo of the markes and endes of Sophistry, and whereto they tend.

How defideth he an Elench or Reprehension? Reprehension or Blench (layeither) is a Syllogisme which ga= thereth a conclusion contrary to the affertion of the respondent, as if a man would befend Medea; not to loue her child because the killed it, another might reason against him in this manuce : euc= ry mother loueth her childe: but Medea is a mother, ergo Medea loueth ber childe: the Conclution of this Billogiline is contravic to the first affereion : and note here by the way that there beetwo Cortes of Elenches, the one true and the other falle, it is faire to be true when it rightly gatheretha contratie conclusion to freipenbentes affertion And falle, when it fayleth in any parte requitie to a true Blench : of which partes we thall speake hercafter whe we come to treate of the Failar called Agnozance of the Biench, which is one of the fine endes or markes whereunto Sophiftere tendeth, for a true Bleuch leemeth to belong buto Dialecticall disputation, rather then to Sophisticall disputation. But now leauing to befine a Syllogilme because it hath beene befined be= fore, and therefore not needfull here againe to be rehearled, 3 wil proceede to Disputation

Of Disputation, and how manifolde it is. Chap. 3.

Albutation is a contention about some question taken in band, either for finding out of truth, or ellfor exercise fake, and there be foure kindes of disputation, whereof the first is called doctrinall, because it appertaymeth to science. The second in called Dialecticall, which belongeth to proba-

The third is called Tentatine, which ferneth to trie another ble ovinion.

mans knowledge, in any kinde of feyence. The fourth is called Sophisticall, which rendeth onely to de-

teiue. Giue examples of all these foure kindes?

The Pottrinall Diputation, pleth no other but Sillogilmes Danen:

Demonstratificab this is, whatsoener hard reason is capable of learning, but Ichn bath reason, ergo John is capable of learning, Dialectical Disputation vieth anely probable lyllogilines, as the former example of Medeas, enery mother loueth her childe, but Medea is a mother, enge Medea toueth her chilbe: agains shis a nother probable arguinent may be made thus , wholoeuer kils lech ber chiloe, loueth not berchilo, but Medea killed ber chiloe, ergo fisce loued not ber childe. Tentatine Disputation weeth fuch argumences as are made of the firft common principles of anie frience, in which principles who to is ignozant, cannot be failful in that feyence, as if a man would profelle Beometrie, and know nor the definitions of a point, or pricke of a lyne, or superficies, or of fuch commo marinis, as there are, the whole is more then his parte : take equall from equall, and equall remaine ac. Moulbe anicklie bewiay his owne ignorance.

Sophisticali disputation, bleth nothing but Deceiptfull argumentes, og fallages, whereof there be thirteene kindes bereafter fer downe, but first 3 wil thew you which be the fine markes and endes of Sophiffrie.

Of the five Markes and Endes of Sophistrie.

Chap.

Riftotle layeth, that the fraudu'ent disputation of the Sophiller ledeth alwayes to one of thele fine ends of marks, A that is, cyther by force of argument, to bring you into fome ablurditie which he calleth Glench, that is to lay, arcpres bention of reproofe, of els to make you to confelle that which is manifefly faile, of to grant fome parador, which is almuch to tay as an opinion contrary to all mens opinions to, to allow of incongrue speech contravie to the rules of Brakamar called in latine, Solecismus, 02 to admit some baine repetition called in la-

Giue example of all these fiue markes? Df che first marke let this bee pour example, if indisputing of vertue pou haue perhappes granted that the meditation of dertue both make a man fab, the Sophifter will force you by argumene co deny againe that which you before granted thus : all thinaes

The Sixt Booke of Logike. thinges that be contrarie haue contrarie effectes : but it is pro= per to vice to make the mind of man lad, ergo bertue maketh his mind glad: this kind of reasoning is more plainely taught before when we talked of Azeduction by imposibility. Mothe lecoud marke let this be your example : euery dog hath power to barke : but there is a certaine farre called the bogge,

ergo that flarre hath power to barke: the Fallar of this argue ment conlifteth onely in the word bogge, which is equinoke, as Chalbe declared moze at large hereafter, when we come to fpeake of that Elench or Fallar .

of the parador which is the thirde marke act this bee your example, the Sophifter will make pou to grant that a rich and happy king is wietched, by foice of argument thus : wholoener is lubicet to finne to wietebed ; but all rich and happy kinges are subject to sinne, ergo all rich and happy kinges are weetched and milerable, in this is also a Fallar, because that happines is spoken bere in two respectes, for there is worldly happines and

Pf the fourth marke called incongruity offpeech, Fran bardbeauenlic happines. Ly gine you any fitte example in our natine tongue, because that our englilly adiectines do not viffer in cale, gendet, or number, and therefore I pray you content your felle with this latine crample, for it is an ealier matter for an engliffman to i peake falle latine then talle engliff, the Sophifter wil make you to allow of this falle latine, mulier eft candidus, by force of argument thus : omnis homo est candidus, at mulier est homo, ergo mulier est candidus, engiell whereof is thus : enery man is white, but womanis man, ergo a woman is whitehere this worde white in the latine is of the malculine gender contearie, to the rules of Brammar, but this may be very well referred to the Fallar called forme of speech beneatter Declared.

Dethe tift marke called Rugation, let this be your example: the Sophifier will make you to allow of this vaine repetition, Plato is learned, a man learned, by force of argument thus, Plato is leached, but Plato is a man learned, ergo Plato is learned, a man learned, here the premilles and the conclusion are al one thing, therefore contrarie to the rules of Logike. But leaning thefe thinges as Superfluous, and in my indgement ferning to fingit purpole, if I may to tay without offence, I minde therfore it w to ceturne to my matter fira intended. 101.

But How

How to confute all manner of Elenches, or Fallaxes what focuer they bee.

Chap. 4.

Clevic Fallax conlisteth eyeher in wordes or in thinges : - and of those that constit in wordes there are in number fir. and of others confifting in thinges, there are feauen, fo as in all there be thirteene as I faide before.

Which be those fix that confist in wordes?

Equinocation, Amphibologie, or doubtfull speech, Contince tion, Dinilion, Accent, and fignre, og forme offprech.

Shew what these Fallaxes be, and give examples? Boninocation is, when the deceipt confifteth in the doubtfulnes offome one word, baulig diners lignifications, as for epants ple, euery dagge is a letilible bodic, there is a certaine ftarte rals led a Dogge, ergo that flarre is a lentible bodie: here the conclus from is co, be depyed, because this worde bogge bath diverse significations, another example, the prophet fayeth that there is no earli in the Citie, but Bop both it, but there bee horrible ently in the Citie, erga Bod is the author of cuill, the Conclusion is to bee denged because with major this worde end signified puntific ment, and in the mino; it lightly eth finne; another example, whofocuer loueth Chair, observeth his worde, and is beloned of the Facher: but no bodic that bleaketh the law observeth the word of Chailt, therefore no body is beloued of the Nather, here the maior is goubefull, because this poice worde, may bee taken epther for the worde of the law or els, for the worne of the Bolpell, which the Apolics Did citer keepe, as Ethilt hinlette layeth and oberefore they were beloned of the Father, and to confequently es mery true chailtian that doth keepe the pure doctrine of Chailtis beloved of the Father: but the worde of the law layeth that cuc= rhane is curles that abidethnot in all.

Amphibo.= logia, z.

Equiuoca.

tio, 1.

L'amphibologia or doubtful weeth is when forme whole sentence is doubtfull, and may be interpreted Directle wayes as the macle of Apollain laying that Creffus palling the riverof Halis that onemplowa great Empire, by which oracle was meant that bee Mould

The Sixt Booke of Logike.

Chould onerthiow his owne empire, and not the Perlian empire, which by wrong confirming that Dracle he hoped to lubone.

Composition of confunction is the toyning together of things composition of confunction is the toyning together of things composition of the confunction is the toyning together of things composition of the confunction is the toyning together of things composition of the confunction is the toyning together of things composition of the confunction is the confunction of the that are to bee fenered. . As for crample, two and three bee canen and odde, but fine makerhewo and three, therefore fine is both euch and odde: which kind of argument is to bee benged, because those thinges are toyned together which ought to be se=

Diullion is when things are fenered which flould be founed Divisio. uered. together, as, all the wife inen of Breece are feuen, Solon and Periander are wife men of Brecce, therefore Solon and Periander are feauen, here the Confequent is to be Denyed, because Solon and Periander are leuered from the reft whereunto they shoulde bee

The fallar of accent is when wordes are not rightly and lim= Accentu ioynco. ply pronounced, as whe we do adde to, or take from a word, any afpiration, letter, or fillable, and thereby alter the true lignificatis on therof, as this latine word Hara fignifying a fwines cote, being pronounced without H. Doth lignifie an altar. In English let this be your example, Euery Bare is lwift on foote, but this is a hayer, (that is to lay) a cloth to dry Walt, therefore it is lwift on fort. Of like fort is this old ieft of a mailler that faid to his fernant: Bo heat this Capons legge, who immediately did cat it: then his maifter being angry faib, I badde thee heat it, with an h. no fir (faid the femant) I did cat it with bread. Likewise this fallar may chance by not observing the right quantitie of sillas bles, in any word, as Populus haufingo. long is a Bopple tree, but hauinglo thort, it lignifyerb a people. Di when a word bled interrogatiuely is made to haue an affirmatiue fignificatis on, as for example: Caiphas faid to Chrift art thou a king ? Ergo he confested Christ to be a king. Dr when a worde pronounced frontoutly is turned to good carnett, in fpeaking one thing and meaning another, as thus : My mailter faibe, come hither you honell'inan, ergo be faid that I was an houeft man, when in decd be called hiff knaue.

The fallar of forme or manner of fpeach may be diners wayes, Form as firt when words are fallely suppoled to be like either in fignta tionis, fication, in cale, of in gender, of to be of one felfe predicament, becaufethep are like intermination, as Poeta in Englift a poet, and Poemain Englith a Baclic by poeticall worke: thele two wordes because they end both in a ergo they are both of the mass culine gender. Allo coloured and numbred are like in terininatis

tion, ergothep are of one felte predicament, and yet the first belom: greb to the predicament of qualitie, and the other to quantity. Secondly, when a word is vied in one felfe argument fometime according to his proper lignification, and fometime as a rearme of arte: as for crample, Bob is enery where : rucry where is an Aduerbe, therefore Bod is an Abuerbe. A Moule eareth'cheele, but a Moule is a fillable, ergo a fillable cateth checle. Bere moule in the Maior hath his proper lignification, and in the Minoris pled as a cearme of art: and the like is to be faid of the word cues ry where in the first example. Thirdly when a worde hath not bis proper lignification, or is not bled according to the true phale of lpeach wherein it is betered, as thus: whatfocuer thou ball not loft, thou halt fill, but thou ball loft no hornes : ergo thou half homes. Dere this word to tole hath not his proper limitication, for we are faid to lote properly that which we had, and not y which we neuer had. And finally this fallar is called the common refuge and receptacle of all fuch kind of fopbiffrie. Ditherto of the fallaces in words, now of the fallaces in thinges.

Of the Fallaxes in things.

Chap. 6.

If thefe fallaces there be feuen kinds (that is to fay) fallacia Accidentis, 'a dicto secundum quid ad dictum Simpliciter, Ignoratio Elenchi, Petitio principii, Fallacia Consequentis, Caula pro no caula Plura interrogata pro vno responsu: which may be englished thus : the fallar of the Accident, the fallar of speach respective in steads of speach absolute, ignorance of the Etench, petition of principle, a cause that is not the cause in deed, and many questions comprehended in one.

Define what these be, and give examples?

Fallacia Accidentis may bee Diners wayes, as first when any thing belonging onely to f lubliance of fome thing, is attributed allo to forme accident of the faid substance, and contraviorite, as thus: whatfoeuer thou half bought, thou half caten, but thou half bought rawe flesh, ergo thou half eaten raw flesh: here the Confequent is to bee denged, because the Maioz hath respect to

The Sixt Booke of Logike. the lubitance, and the Conclusion to the qualitie : Another example, what I am, thou art not, but I am a man, ergo thou art none. Bere in this the Maior bath respect to the qualitie, and the conclus fion to the invitance. Secondly when Accidentes are not rightly topued together, as when the qualities of the bodie are toyned with the qualities of the inind: as Homer is a Poet, and Homer is blind, ergo Homer is a blind Boet: here the conclusion is to be benged, betaule to bee blind and to bee a Boet are Diners qualiz ties, whereof the one belongeth to the mind, and the other to the bodie, and therefore are not rightly loyned together. Thirdly, as (Melancthon faith) when an accidentail caufe is made appincipali caufe, as thus : Elias was an holy prophete, but Elias was cladde with Cainelles haire, ergo I being cladde with Camelles haire am an holy prophet. Bere the Conclusion is to bee benied, because to bee cladde with Camelies haire, was not the cause of Elias holinelle. But me thinkes that this and fuch like cramples Doe belong rather to the fallar of causa pro non causa (whereof we Mallipeane hercafter) then to the fallar of the Accident.

The fallar ad dicto secundum quid ad dictum Simpliciter thanceth Dictum when we go about to make a thing to feeme abfointe, that is fpo= cundun ken in some respect, or to bee in all, when it is but in part, as a quid. Moore hath white teeth, ergo a Moore is white: Againe, it may be in refpect, by reason of time, place, person, comparison, and fuchlike. Of time as thus: I law John yefferday, but I law him not to bay, ergo I bit lee him and not lee him. . Df place thus : it is not good to buy and fell in the church, ergo it is not good to buy and fell. Di perfonthus: A Magiftrate may kill a thiefe, ergo enery man may bill a thiefe. Dfcoinpartion thus: Riches are not good to him that cannot ble them, ergo riches are not good.

Bauting now to speake of the fallar, called the ignozance of the Blenth, I thinke good to call agayne to your remembrance the definition of an Elench before briedly fet downe, which is a Sillogiline wehtly gathering a Conclusion contrary to the af-Tertion of the respondent, which contrarietie consideth of foure principallyointes of respectes, whereof itany be wanting, then the contrarietie is not perfett.

Which be those foure poynts?

First that it beeto one selfe thing: lecondly in one felfe refpect, Thirdly, in one felfe manner: And fourthly in ug at one scite

Elench

felfe time: top if you bee becepted at any time by tome falle 111 lench, in thinking that it tightly gatheteth a conclusion meete contravic to your allertion, when it is not fo in deede, by reafon that it faileth in fome parte requifite and incidented arrive Blench: then it may be rightly faid that you are deceyued by ianorance of the Blench, which fallar as Ariftorle faith, comprebendeth almost all others, and therefore hee maketh along and obscure definition of an Elench, rehearling all the particularities thereof nothing apt to be bitered in our Englich tongue.

Yet I pray you to give examples of the foure chiefe pointes before

mentioned?

Petitio

Di the first let this be your example: foure is double to two but not to three, Ergo foure is double and not bonble: this is not to one felfe thing. Of the fecond thus: this peece of timber is double in length to that pecce, but it is not double to the same in breadth, Ergo it it is to one felfe thing both double, and not double to one lelfe thing, but not in one felle respect. Of the third thus: This prince ruleth mightily, but not mercifully. Ergo hee ruleth and not ruleth: this is not in like manner. Ditthe fourth thus I laws John yealterday, but not this day, Ergo I faw bim and law him not, this is not in one selfe time. And all these source waves in mine opinion are comprehended in the feconde point: which is when any thing is spoken not absolutely but in diners respects: wherefore it differeth not much from the fallar of speach respectine before declared saving that this fallar is more general, and comprehended more kinds of fallages then that both.

Petition of the principle is, when the Antecedent both not proue the Confequent, which channeeth most commonly three manner of waves: that is, eyther when the profe is as little knowne as the thing that is to be proued. Secondly when the proofe is leffe knownothen the thing to be proued. Thirdly, when the viole and the thing to be proued do not differ, but is all one fpcech, lig-

mifving one felfe thing, called of the Breekes Tautologia.

Giue example of these three wayes?

Of the first thus: the Sunne mooueth not. but flandeth fill in the middest of heaven, giving light to all the worlde, Ergo the earth is moueable: 02 thus: The beauens are not made of elementail matter subject to corruption, Ergo the beanens are incorruprible. Dere in both thefe examples the Antecedent is as boubtful as the Confequent, and therefore proueth nothing. Of the fe= cond way thus: Every fentible body lometime Geepeth, Ergo man fometime fleepeth. Bere it is more to bee doubted whether all sensible

The Sixt Booke of Logike. tentible bodies, all beattes, fowles, and fithes bo fometime tleche of not, then whether man both fometime fleep: for it is an eafice. snatter to know the nature and propertie of one speciali kind then of all, or many kindes. Of the third way thus : John is learned, Ergo John is learned. The foule both line eucr, Ergo it is immoztail.

The fallar of the Consequent chanceth two manner of waics, that is eyther when we thinke the Confequent to be connertible with the Antecedent, butitis not lo in becbe, of els when wie thinke that bpon the contrarie of the Antrecedent, the contrarie

of the Consequent must needes also follow.

Giue examples of both these waies ?

This is a man, Ergo it is a fentible body: now if I woulde bereof by connection conclude thus: it is a fentible body, Ergo it is a man. This were no good confequent, for eneryfeulible bo-Die is not a man. Likewife when it rayneth, the ground is wet, Ergo when the ground is wet it rayneth, for thefe speaches are not conuertible. Dithe lecond way thus: it is a man, Ergo it is a sensible body. It is no man, ergo it is no sensible body : Dere ou fee that this propolition, it is no man, is the contravie of the fu pft Antecedent, which faith it is a man. De which contrary, the co intrary of the confequent both not necessarily follow: for though it be no man, yet it may be some other sensible body. This failar ct imprebendeth all luch falle argumentes as doe not oblerne the riules of right and true Conlequents befoze ginen.

A he fallar of non caufa pro caufa is, when that thing is made to be the caule of the Conclusion, which is not the cause in deede, as wine is nought, because it will make a man drunke. Of which Drunkennes wine is not the caufe, but the intemperance of y man and his immoderate ble thereof, for many thinges that bee good of themselues may be abused, yea euen the libertie of the Bospell, eyet the ooctrue of p Bolpell is noscanle thereof, but the malice

of man abuling the fame. Theleauenth and laft Fallar, is when buaduiledlie, and with= plura inout bling any diffinction , you make an answere to manie terrogata questions as though they were but one, as for crample, the \$0 = pro vno phifter leeing two men fanding together whereat one is blind, responsit. and the other hath his light, will aske you perhappes whether they fee of not, whereunto if you aufwere directly eyther yea of no, you are by and by token, for if you fay that they fee, then you grant that the blinde man alto feeth, and if you fay that they doe

not

The Sixt Booke of Logike.

not see, then you grant that her which seeth is blinde, but if you answere that the one seeth and the other not, you shall by such distinction cally anothe the Sophisters camilation: for diners questions bioled by mone, do alwaies require diners answeres.

And thus I ende with the other of consuming all falle the lenches, and fallaces, the knowledge whereof is very necessarie, for the maintenance of the truth, which Bod lougth, who is the fountaine of all truth, yea and very truth it selfe, to whome be allonor, gloric, and praise worlde

FINIS.

Amen.

30 JY 57

