

Readme File for the PROOF TUTOR Logic Tutoring Programs

There are programs included here for elementary and for advanced symbolic logic. The following is a list of the programs, their executable file name, and their instruction file (in .pdf format, requiring an acrobat reader). These programs run only in the MSDOS operating system, 3.0 or later, or MS Windows, 3.1 or later. They should be unzipped into a single subdirectory on your hard disk, and executed with that directory as the default directory. All these programs and documentation are copyright Thomas Weston (various years) and all rights are reserved.

Elementary Logic

1. Exercise in diagraming complex arguments. Executable: "diagram.exe"
Instructions: "diagram.pdf"
2. Exercises in translation from English to propositional logic, and in constructing truth tables for arguments in propositional logic. Executable: "prop.bat" Instructions: "transtut.pdf" These programs assume that the period symbol '.' will be used to translate "and". In order to use the "&" symbol for this purpose, execute the file "settel.bat" in the same subdirectory where all programs and data files are kept, before running prob.bat. For other symbols, see the transtut.pdf file.

Higher Level Logic

3. Proof construction program for the proof system of Paul Teller, *A Modern Formal Logic Primer*, Vols I. and II, published by Prentice-Hall. Executable for the introductory program: "tutor.exe" Executable for the working program: "proof.exe" Documentation file: "tellrprof.pdf"
4. Predicate calculus semantics tutor. Three different kinds of exercises on truth, interpretations, and validity. Executable: "firstord.exe" Documentation: "semtutor.pdf"
5. Predicate calculus translation tutor. Exercises on translation into predicate calculus. Executable: "predtran.exe" Documentation: "predtran.pdf". Warning: this can run out of memory ungracefully, resulting in "prolog error 1010". In that case, you have to restart. There is to problem set 3, and the last problem in problem set 2 does not work.

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