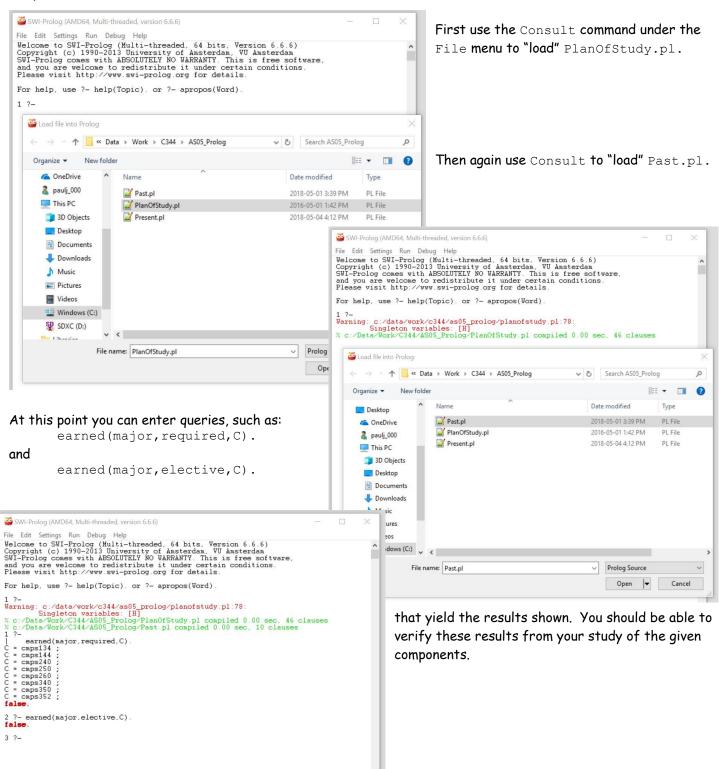
Assignment 05 - Some Prolog (Due: Wednesday May 16, 2018)

For this assignment you are given the Prolog source program components, PlanOfStudy.pl, Past.pl and Present.pl, that together provide relevant rules and facts for the modeling of a CAPP Report (as used for Academic Advising.) Consider the following screen shots that illustrate the use of SWI-Prolog with the given components.

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The additional queries, passed(X). and remainingList(major, required, L). yield the following.

The file, Present.pl, contains additional facts (essentially data indicating that additional courses have been passed) which can be "consulted" so as to update the state of the program and then get updated results through further queries. The following illustrates such.

```
3 ?- passed(X).
X = cmps134;
X = cmps144;
X = cmps240;
X = cmps250;
X = cmps260;
X = cmps360;
X = cmps350;
X = cmps352;
X = cmps362.

4 ?- remainingList(major, required, L).
L = [cmps344, cmps374, cmps490].

5 ?-
```

Your task for this assignment is to do as much of the following as you can:

- 1. Modify the Past.pl file to reflect your CAPP Report as of the start of the Spring 2018 Semester.
- 2. Modify the Present.pl file to reflect your CAPP Report as of the start of the Fall 2018 Semester (assuming that you have passed all of the courses you are currently taking.)
- 3. Use your Past.pl and Present.pl files to test out and shake out the given PlanOfStudy.pl. I am suspicious that the design and implementation of the rules there may not be quite right, nor complete and that they can also be expressed better. Document any issues you encounter and make modifications as appropriate to address these issues.
- 4. Augment PlanOfStudy.pl, Past.pl and Present.pl with the degree requirements pertaining to the Cognate Area and develop an annotated illustration of their operation. These modifications to Past.pl and Present.pl will simply be the addition of those courses, relevant to the Cognate Area, that you have passed. The modifications to PlanOfStudy.pl will require more thought and this is really where the thinking and work of this assignment takes place.

For Items 3 and 4 you are to prepare a MS Word document file (names AS05.docx) to present your results as clearly and completely as you can.

Good luck, P.M.J.

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