CSCE 580 Fall 2003

PROGRAM 2

Due Friday, 03/2/7

1. Do exercises 2.1 through 2.10 in [B]. For exercise 10, you should find that there are two SWI-Prolog predicates for unification: one that implements sound unification (with the occurs check), and one that implements the usual unsound Prolog unification (without the occurs check). What are the two predicates? Use the SWI-Prolog reference manual for help on this exercise.

2. Load the program of Figure 2.14 (Monkey and Banana) and run the goal of page 49. Change the order of the clauses as discussed in Section 2.6, and show what happens. Does the result support the textbook's contention that the program entered an infinite loop? Make sure to attach a script indicating the result of your queries.

Use SWI Prolog (pl on the rivers and constellations) for this and all other Prolog programming assignments. See the web site for the course for a pointer to the SWI Prolog site for downloadable versions and documentation.