

CSCE 330 Fall 2009

PROGRAM 6

Assigned Monday 2009-11-23. Due Friday 2007-12-04

Write a Prolog program that describes a family tree. Use the facts and rules of Figure 15.3 [T] and wherabouts. Add facts as needed (at least for male and female) and rules for grandfather, grandmother, grandchild, grandson, granddaughter, uncle, aunt, nephew, niece, and cousin. Test your program using the SWI-Prolog interpreter (“pl”) on the Unix or Linux workstations. (The interpreter is at `/usr/local/bin/pl/` on the Linux workstations.) Your test should include the solution to Exercise 15.4 [T].

Submit your Prolog code (facts and rules) and a script with examples of use. (Use the script command—type “man typescript” at the user prompt for information.)

For example, here is a rule for aunt:

```
aunt(X,Y) :- female(X), sibling(X,Z), parent(Z,Y).
```