CA208 Logic
Lab 1

Getting Started with Prolog

Aim

The aim of this practical is to show you how to use SWI Prolog system. This will involve becoming familiar with the SWI interpreter, creating and loading your own Prolog scripts and submitting queries to the Prolog run-time system.

The web page (http://www.computing.dcu.ie/~davids/courses/CA208/CA208.html) contains a video tutorial about starting an SWI Prolog session, writing and loading a Prolog program, and executing queries in Prolog.

1. Starting and quitting a Prolog session

To start a SWI Prolog session click
Start → Programs → Programming & Development → SWI Prolog

To exit a SWI Prolog session type **halt.** , remembering to finish the command with a period.

2. Writing and loading a Prolog program

Write a prolog program that models the relationships within a family. You can use the code in the notes as the basis for your program, but add the following additional relationship.

uncle(X,Y)   True if X is the brother of one of Y's parents.
aunt(X,Y)   True if X is the sister of one of Y's parents.
cousin (X,Y)   True if X is a cousin of Y, i.e one of the parents are siblings.

If your Prolog program is called family.pl, then you can load your program into the Prolog environment by typing either **consult('family.pl').** or **['family.pl'].**, remembering to finish the command with a period.