Prolog Tutorials

Lab-1

Basic Prolog Commands

A few essential commands:

halt.

exit Prolog (short form: control-d)

consult(filename).

load the file named filename.pl (note the added .pl extension). If you need some more complex name (for example with a path), put it in single quotes, for example consult('/Users/philip/squid.pl').

[filename].

shorthand for consult

ls. - see the directories.

cd. - change directories.

Example 1:

The sky is blue.
The tree is green.
Computer is a machine.
Winter is cold.
Eye is black.

Prolog programs consist of a number of clauses. A clause is always terminated by a full stop. There are two types of clause: facts and rules.

Prolog program:

```
sky(blue).
Tree(green).
computer(machine).
Winter(cold).
Eye(black).
```

Save the file pro1.pl extension.

```
?- consult('ex1.pl').
OR
?- ['Desktop/ex1.pl'].
?- sky(blue).
?- sky(X).
```

Example 2:

Example 3:

```
/* Animals Program 1 */
dog(fido).
cat(mary).
dog(rover).
dog(tom).
cat(harry).
dog(henry).
cat(bill).
cat(steve).
animal(X):-
      dog(X).
?-dog(fido).
yes
?-dog(daisy).
No
?- dog(X).
pauses – user presses;
?- cat(Y).
pauses – user presses;
?- listing(dog).
?- listing(cat).
```

Example 4:

```
result(richard,3.5).
result(florence,3.6).
result(sabbir,3.8).
result(nabil,3.7).
get_result:-
    write("Enter Name"),nl,
    read(X),nl,
    result(X,Y),nl,
    write(Y).
?-get_result.
```