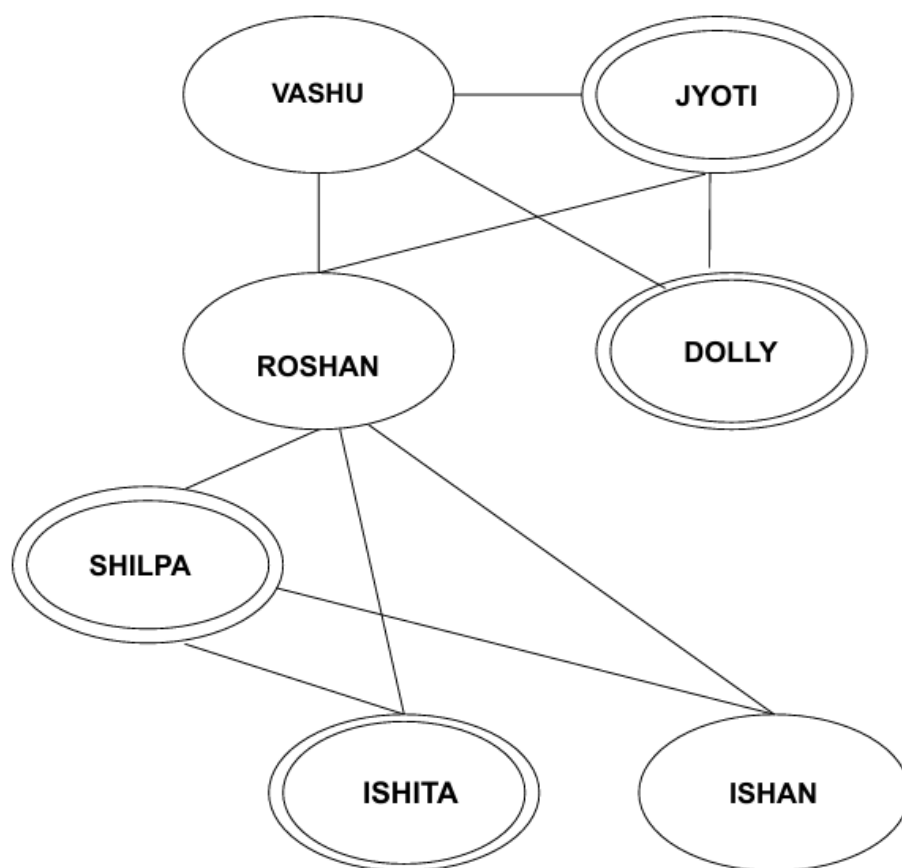


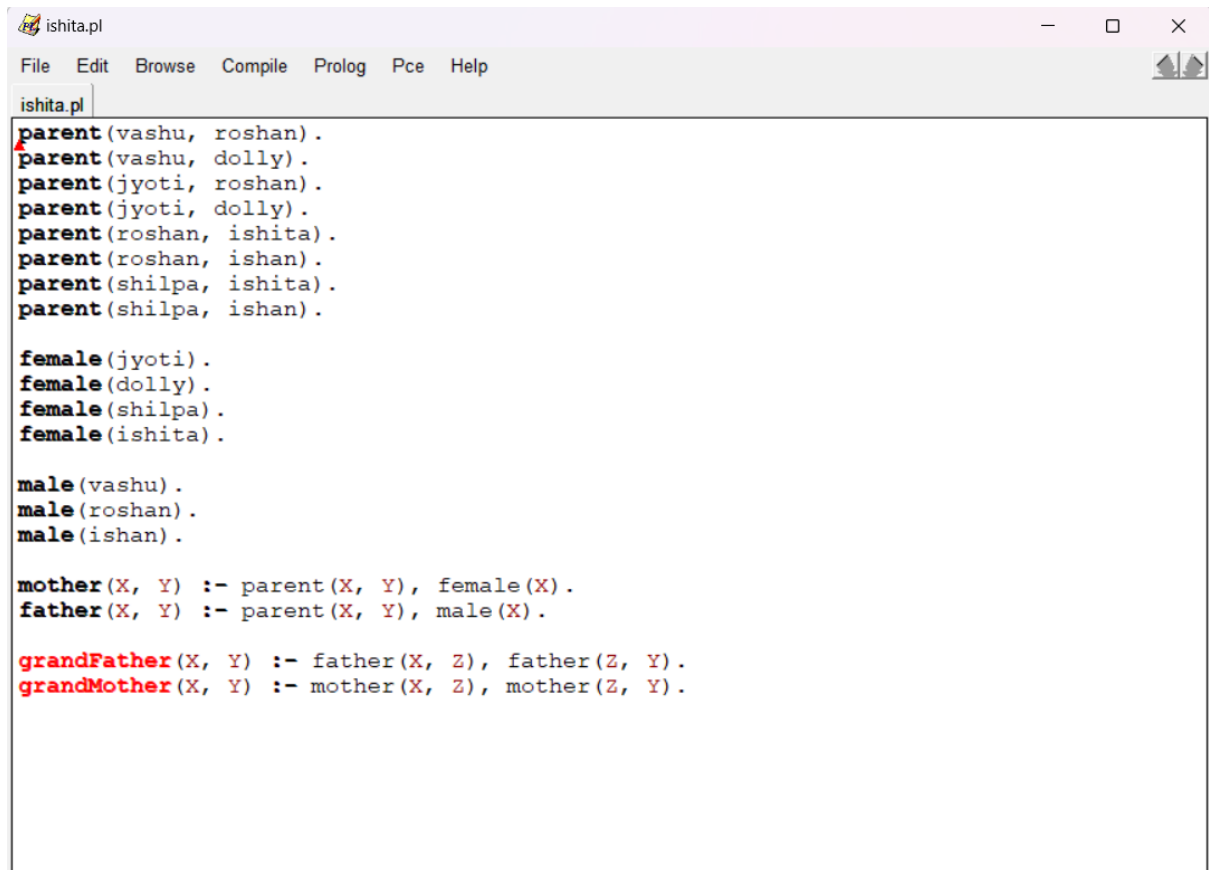
EXPERIMENT NO.8

Aim: Implement family tree using prolog

Implementation:

ishita.pl





```
ishita.pl
File Edit Browse Compile Prolog Pce Help
ishita.pl
parent(vashu, roshan).
parent(vashu, dolly).
parent(jyoti, roshan).
parent(jyoti, dolly).
parent(roshan, ishita).
parent(roshan, ishan).
parent(shilpa, ishita).
parent(shilpa, ishan).

female(jyoti).
female(dolly).
female(shilpa).
female(ishita).

male(vashu).
male(roshan).
male(ishan).

mother(X, Y) :- parent(X, Y), female(X).
father(X, Y) :- parent(X, Y), male(X).

grandFather(X, Y) :- father(X, Z), father(Z, Y).
grandMother(X, Y) :- mother(X, Z), mother(Z, Y).
```

```
?- grandFather(X,ishita).
X = vashu ,

?- mother(X,ishita).
X = shilpa.

?- father(roshan,ishita).
true .
```

smith.pl

```
SWI-Prolog (AMD64, Multi-threaded, version 9.2.2)
File Edit Settings Run Debug Help
Welcome to SWI-Prolog (threaded, 64 bits, version 9.2.2)
SWI-Prolog comes with ABSOLUTELY NO WARRANTY. This is free software.
Please run ?- license. for legal details.

For online help and background, visit https://www.swi-prolog.org
For built-in help, use ?- help(Topic). or ?- apropos(Word).

?-
% c:/users/91992/onedrive/documents/prolog/smith compiled 0.00 sec, -2 clauses
?- parent(john,mike)
| parent(john,mike)
ERROR: Stream user_input:10:16 Syntax error: Unexpected end of file
?- parent(john,mike).
true.
?- parent(mike,ann).
false.
?- parent(mike,X).
X = pat.
?- mother(pat,Y).
Y = ben.
?-

smith.pl
File Edit Browse Compile Prolog Pce Help
smith.pl
parent(john,ann).
parent(john,mike).
parent(mary,mike).
parent(mike,pat).
parent(pat,ben).

female(mary).
female(ann).
female(pat).

male(john).
male(mike).
male(bob).
male(ben).

mother(X,Y) :- parent(X,Y),female(X).
father(X,Y) :- parent(X,Y),male(X).
*
```