

## Experiment 8

**AIM - Implementing Family tree using prolog.**

**Knowledge Base –**

parent(shantaram,siddhartha).

parent(vijaya,siddhartha).

parent(shantaram,joshna).

parent(vijaya,joshna).

parent(manohar,suvarna).

parent(geeta,suvarna).

parent(manohar,satish).

parent(geeta,satish).

parent(joshna,vedika).

parent(satish,taniket).

parent(siddhartha,niyati).

parent(suvarna,niyati).

parent(siddhartha,siya).

parent(suvarna,siya).

female(vijaya).

female(geeta).

female(joshna).

female(suvarna).

female(vedika).

female(niyati).

female(siya).

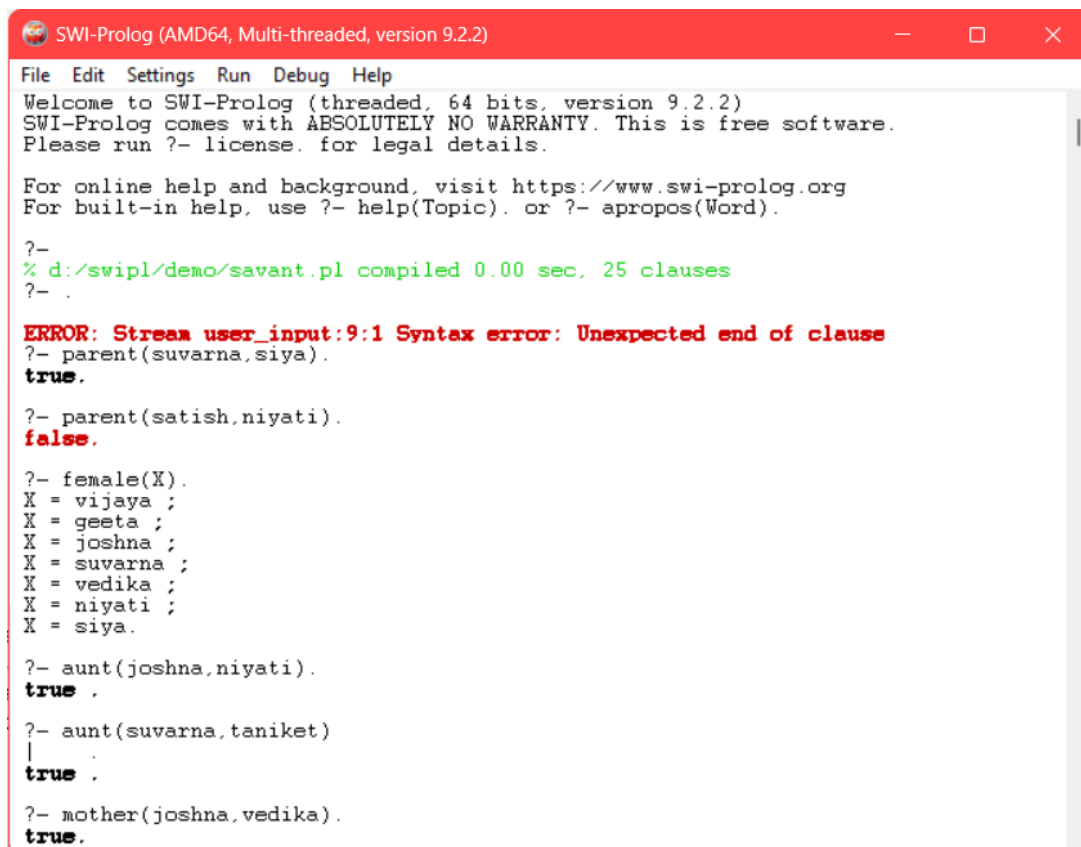
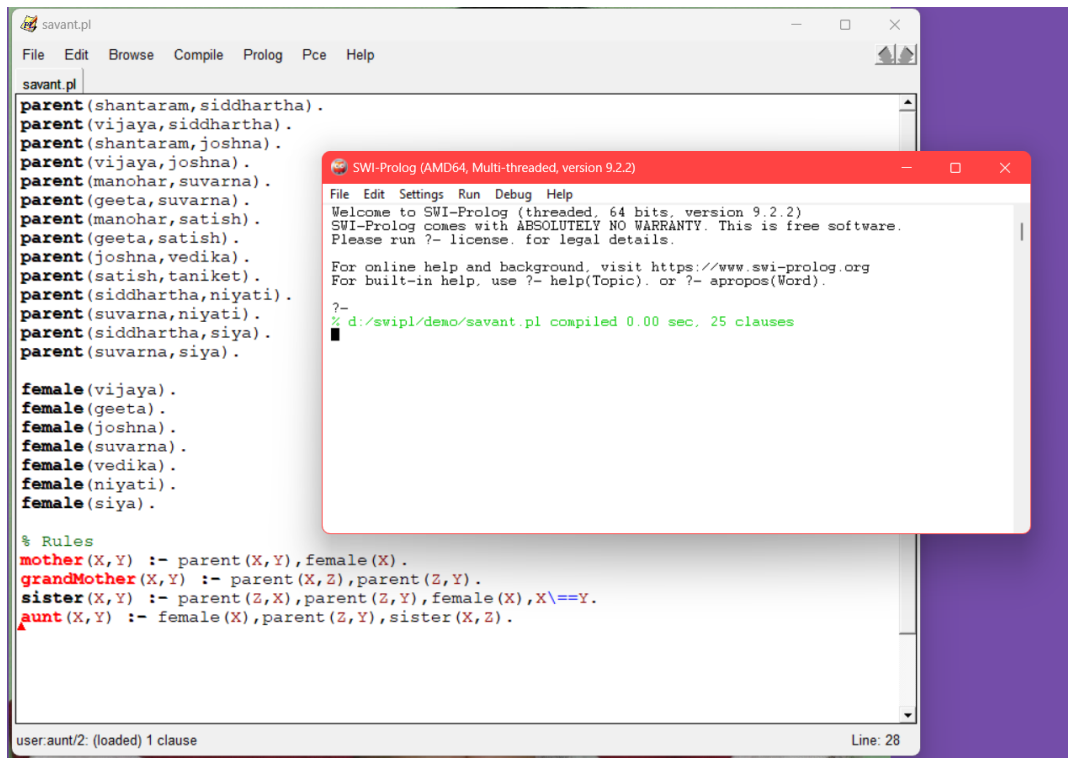
mother(X,Y) :- parent(X,Y),female(X).

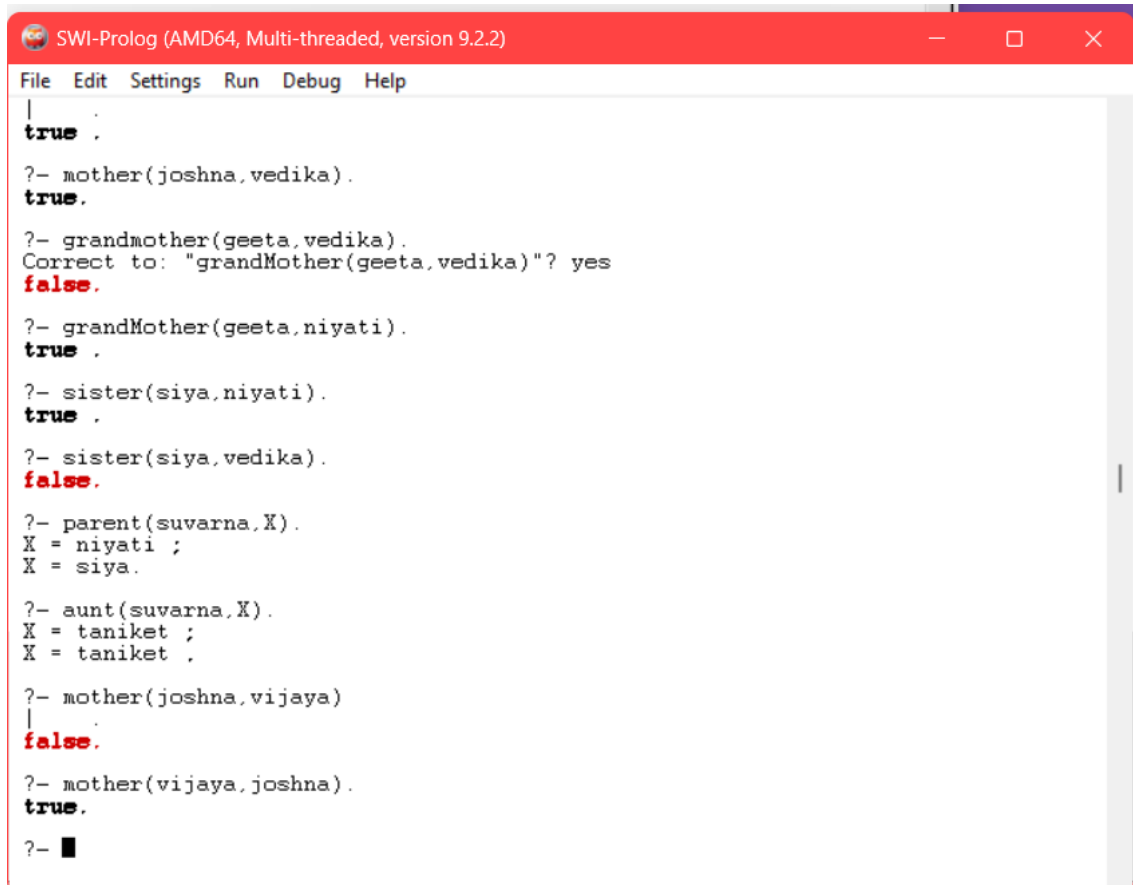
grandMother(X,Y) :- parent(X,Z),parent(Z,Y).

sister(X,Y) :- parent(Z,X),parent(Z,Y),female(X),X\==Y .

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

## Screenshots –





```
SWI-Prolog (AMD64, Multi-threaded, version 9.2.2)
File Edit Settings Run Debug Help
|
true .
?- mother(joshna,vedika).
true.
?- grandmother(geeta,vedika).
Correct to: "grandMother(geeta,vedika)"? yes
false.
?- grandMother(geeta,niyati).
true .
?- sister(siya,niyati).
true .
?- sister(siya,vedika).
false.
?- parent(suvarna,X).
X = niyati ;
X = siya.
?- aunt(suvarna,X).
X = taniket ;
X = taniket ,
?- mother(joshna,vijaya)
|
false.
?- mother(vijaya,joshna).
true.
?- █
```