EX.NO: 06

PROLOG - FAMILY TREE

AIM :

To develop a family tree program using PROLOG with all possible facts, rules, and queries.

CODE :

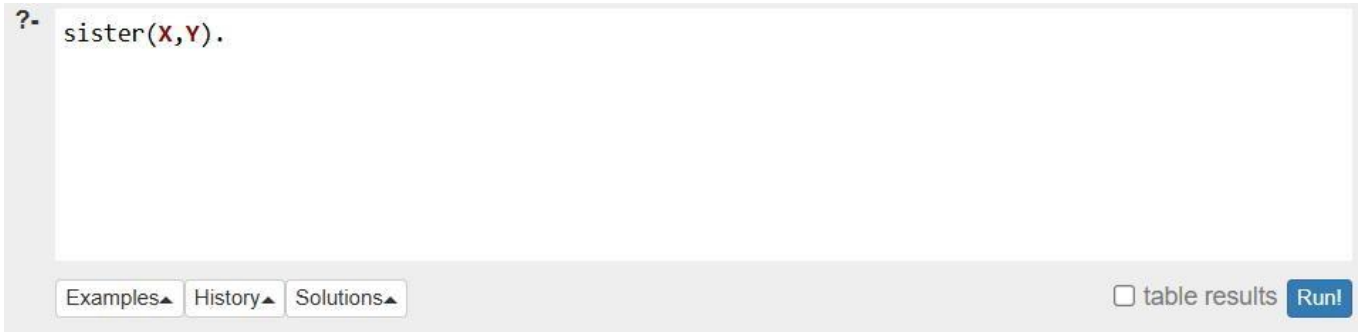
SWISH File Edit Examples Help

Program

```
male(peter).
male(john).
male(chris).
male(kevin).

female(betty).
female(jeny).
female(lisa).
female(helen).

parentOf(chris,peter).
parentOf(chris,betty).
parentOf(helen,peter).
parentOf(helen,betty).
parentOf(kevin,chris).
parentOf(kevin,lisa).
parentOf(jeny,john).
parentOf(jeny,helen).

father(X,Y):- male(Y), parentOf(X,Y).
mother(X,Y):- female(Y), parentOf(X,Y).
grandfather(X,Y):- male(Y),parentOf(X,Z),parentOf(Z,Y).
grandmother(X,Y):- female(Y),parentOf(X,Z),parentOf(Z,Y).
brother(X,Y):- male(Y), father(X,Z), father(Y,W),Z==W.
sister(X,Y):- female(Y), father(X,Z),father(Y,W),Z==W.

```

OUTPUT :

GIVING QUERY:



RESULT :

Thus, the implementing of family tree program using PROLOG is successfully executed and the output is verified.