EX.NO:7

Reg.no:220701013

PROLOG- FAMILY TREE

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

CODE: /*FACTS :: */ 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).
/*RULES :: */
/* son,parent
* son,grandparent*/
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:
? parentof(kevin,X)
X=chris
? father(X,chris)
X=kevin
? sister(X,chris)
```

false