EX.NO:7

Reg.no:220701064

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(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)

? sister(X,chris)

X=kevin

false