EX.NO:7

Reg.no:220701010

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,lisa).

```
parentOf(jeny,john).
parentOf(jeny,helen).
/*RULES :: */
/* son,parent
* son,grandparent*/
father(X,Y):-male(Y), parentOf(X,Y).
mother(X,Y)\hbox{:-} 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
```