EX.NO:7 DATE:6/11/2024

Reg.no:220701022

### PROLOG - FAMILY TREE

#### AIM:

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

# **SOURCE CODE: KNOWLEDGE BASE:** /\*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:**



# **RESULT:**

Thus, the prolog for family tree program has been executed successfully.