EX.NO:

DATE:

PROLOG

AIM:

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

SOURCE CODE:

```
Program * +
 1 male(peter).
 2 male(john).
 3 male(chris).
 4 male(kevin).
 6 female(betty).
 7 female(jeny).
 8 female(lisa).
 9 female(helen).
11 parentOf(chris, peter).
12 parentOf(chris,betty).
13 parentOf(helen, peter).
14 parentOf(helen, betty).
15 parentOf(kevin,chris).
16 parentOf(kevin, lisa).
17 parentOf(jeny, john).
18 parentOf(jeny, helen).
20 father(X,Y):- male(Y), parentOf(X,Y).
21 mother(X,Y):- female(Y), parentOf(X,Y).
22 grandfather(X,Y):- male(Y),parentOf(X,Z),parentOf(Z,Y).
23 grandmother(X,Y):- female(Y),parentOf(X,Z),parentOf(Z,Y).
24 brother(X,Y):- male(Y), father(X,Z), father(Y,W),Z==W.
25 sister(X,Y):- female(Y), father(X,Z), father(Y,W), Z==W.
```

OUTPUT:



RESULT:

Thus the program is successfully executed and output is verified