Reg.no:220701030

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

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PROLOG _ FAMILY TREE

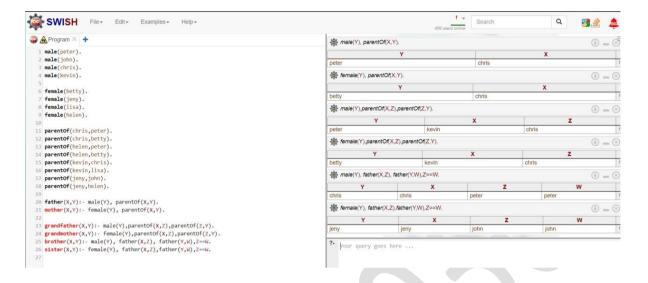
AIM:

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.
```

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OUTPUT:



RESULT:

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