EX.NO: 07

DATE:

REG.NO: 220701065

PROLOG- FAMILY TREE

AIM

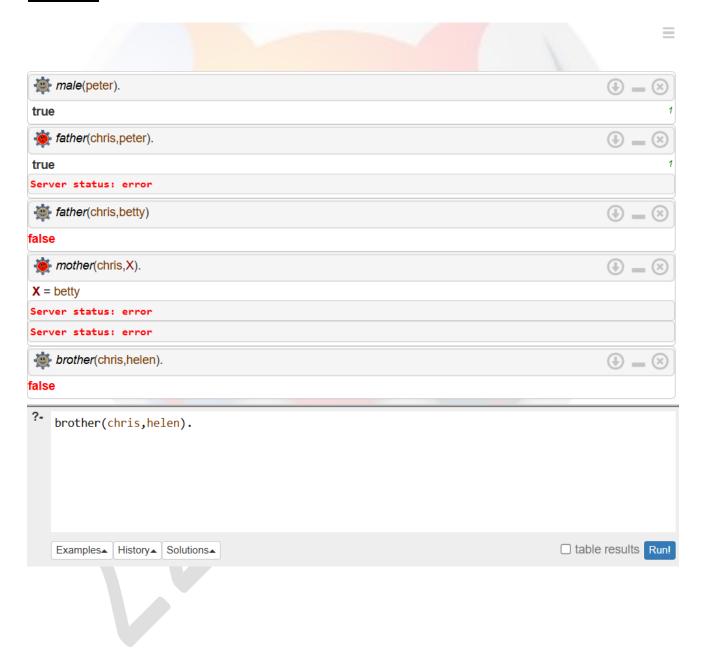
To develop a family tree program using PROLOG with all possible facts, rules, and queries.

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 family tree program using PROLOG with all possible facts, rules, and queries has been implemented successfully.