EX.NO: 6

PROLOG

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).

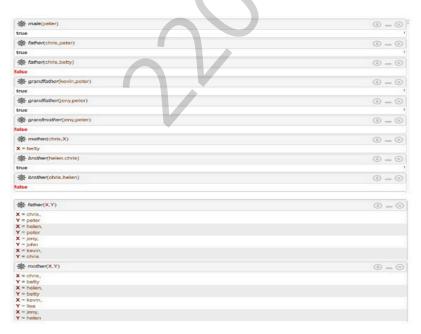
/*RULES :: */

/* 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 python code is implemented and the output is verified