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**EX.NO:**

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**DATE:**

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**/2024**

**Reg.no:22070518**

**P**

**ROLOG**

**–**

**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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**O**

**UTPUT**

**:**

**RESULT**

**:**

Thus, the

prolog for family tree

program has been

executed

successfully.

