# **RESULT:** Thus the above execution of the algorithm has been successfully executed.

#### **EX.NO:06**

<u>:</u>

### **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*/
```

\* SEENUVASAN S

```
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**: Thus the above execution of the algorithm has been successfully executed.

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<u>RESULT</u>: Thus the above execution of the algorithm has been successfully <u>executed</u>.

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