## **EXPERIMENT:23** Write the prolog program to implement family tree.

## **PROGRAM:**

```
% Facts: parent(Parent, Child).
parent(john, mary).
parent(john, peter).
parent(susan, mary).
parent(susan, peter).
parent(peter, linda).
parent(linda, sam).
% Facts: gender
male(john).
male(peter).
male(sam).
female(susan).
female(mary).
female(linda).
% Rules:
father(F, C):-
  parent(F, C),
  male(F).
mother(M, C):-
```

```
parent(M, C),
  female(M).
grandparent(GP, GC) :-
  parent(GP, P),
  parent(P, GC).
grandfather(GF, GC):-
  grandparent(GF, GC),
  male(GF).
grandmother(GM, GC) :-
  grandparent(GM, GC),
  female(GM).
sibling(X, Y) :-
  parent(P, X),
  parent(P, Y),
  X = Y.
brother(B, S):-
  sibling(B, S),
  male(B).
sister(Sis, S):-
  sibling(Sis, S),
```

## female(Sis).

## **OUTPUT:**

