EXPERIMENT-32

Name: S.G.DEVSACHIN

Reg.No: 192111088

Course: CSA1789 Artificial Intelligence

Q)Write the prolog program to implement family tree

Pam, Liz, Ann and Pat are female, while Tom, Bob and Jim are male persons.

Using this information, define the following relations:

- Define the "mother" relation:
- Define the "father" relation:
- Define the "grandfather" relation:
- Define the "grandmother" relation:
- Define the "sister" relation
- Define the "brother" relation

Program:

```
female(pammi).
female(lizza).
female(patty).
female(anny).
male(jimmy).
male(bobby).
male(tomy).
male(pitter).
parent(pammi,bobby).
parent(tomy,bobby).
parent(tomy,lizza).
parent(bobby,anny).
parent(bobby,patty).
parent(patty,jimmy).
parent(bobby,pitter).
parent(pitter,jimmy).
mother(X,Y):-parent(X,Y),female(X).
father(X,Y):-parent(X,Y),male(X).
haschild(X):-parent(X, ).
sister(X,Y):-parent(Z,X),parent(Z,Y),female(X),X = Y.
brother(X,Y):-parent(Z,X),parent(Z,Y),male(X),X = Y.
```

OUTPUT:

