**Artificial Intelligence**

* **Practical-3: Write a PROLOG program for Family Relation.**
* **Code in Prolog:**

male(arjun).

male(bakulbhai).

male(natubhai).

female(bharvi).

female(arunaben).

female(kundanben).

child(arjun,bakulbhai).

child(arjun,arunaben).

child(bharvi,bakulbhai).

child(bharvi,arunaben).

child(bakulbhai,natubhai).

child(bakulbhai,kundanben).

brother(X,Y):-

male(X),

child(X,Z),

child(Y,Z),

X\=Y.

sister(X,Y):-

female(X),

child(X,Z),

child(Y,Z),

X\=Y.

father(X,Y):-

male(X),

child(Y,X).

mother(X,Y):-

female(X),

child(Y,X).

grandfather(X,Y):-

male(X),

child(Y,Z),

child(Z,X).

grandmother(X,Y):-

female(X),

child(Y,Z),

child(Z,X).

ancestor(X,Y):-

male(X),

child(Y,Z),

child(Z,X);

female(X),

child(Y,Z),

child(Z,X).

**Output:**

