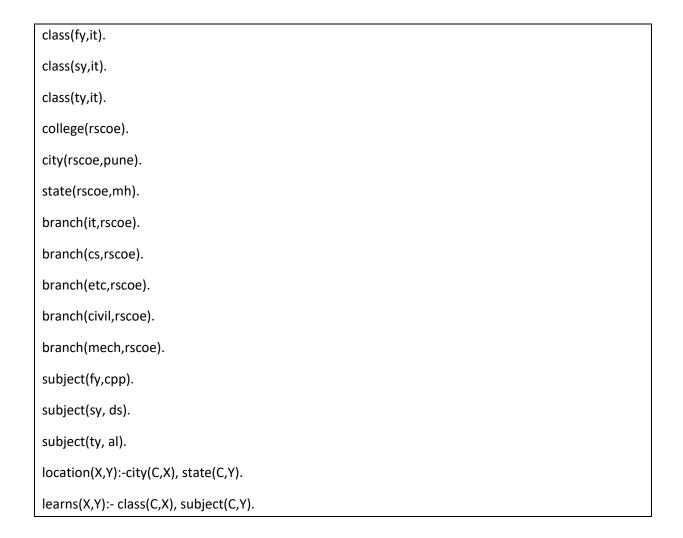
# PROGRAM 1: PROLOG PROGRAM FOR COLLEGE KNOWLEDGE



# PROGRAM 2: PROLOG PROGRAM FOR RELATIONS KNOWLEDGE

```
parent(x,y).

parent(z,x).

child(X,Y):-parent(Y,X).

grandparent(Z,Y):-parent(Z,X),parent(X,Y).

friend(p,y).

friend(X,Y):-friend(Y,X).

likes(p,sing).

likes(y,cricket).

classmates(p,y).

classmates(X,Y):-classmates(Y,X).
```

# PROGRAM 3: PROLOG PROGRAM FOR TEACHER STUDENT KNOWLEDGE

parent(x,y).
parent(z,x).
child(X,Y):-parent(Y,X).
grandparent(Z,Y):-parent(Z,X),parent(X,Y).
friend(p,y).
friend(X,Y):-friend(Y,X).
likes(p,sing).
likes(y,cricket).
classmates(p,y).
classmates(X,Y):-classmates(Y,X).

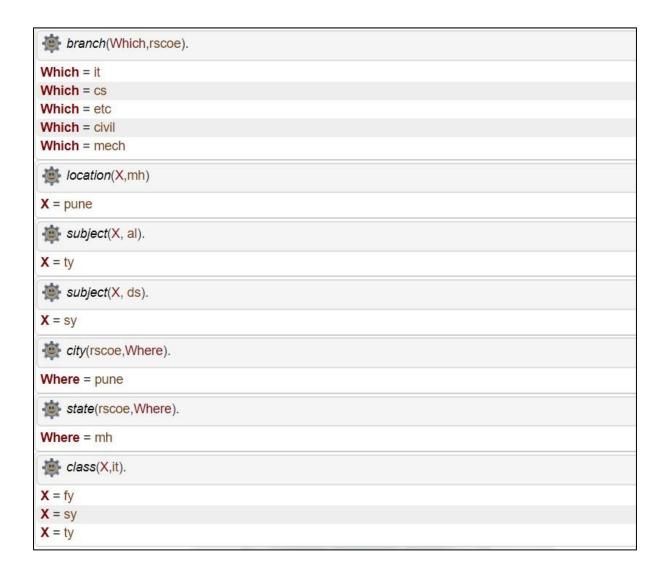
# find\_max(X,Y,X):-X>Y , ! . find\_max(X,Y,Y):-Y>X. find\_min(X,Y,X):-X<Y,!.

PROLOG PROGRAM FOR MIN MAX

PROGRAM 4:

 $find\_min(X,Y,Y):-Y< X.$ 

```
bike(ktm).
bike(bike1).
bike(bike2).
bike(bike3).
location(bike1,city1).
location(bike1,city2).
location(bike2,city2).
location(bike3,city3).
category(bike1,electric).
category(bike2,petrol).
category(bike3,pertol).
price(bike1,80000).
price(bike2,70000).
price(bike3,60000).
find_max(A,B,A):-price(A,X),price(B,Y),X>=Y,! .
find_max(A,B,B):-price(A,X),price(B,Y),Y>X.
find_min(A,B,A):-price(A,X),price(B,Y),X<Y,!.</pre>
find_min(A,B,B):-price(A,X),price(B,Y),Y<X.
```





# **QUERIES FOR PROGRAM 3**



