EX.NO:6

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INTRODUCTION TO PROLOG

AIM: To learn PROLOG terminologies and write basic programs.

CODE:

KB1:

woman(mia).

woman(jody).

woman(yolanda).

playsAirGuitar(jody).

party.

Query 1: ?-woman(mia).

Query 2: ?-playsAirGuitar(mia).

Query 3: ?-party.

Query 4: ?-concert.

```
Query 4: ?-concert.

OUTPUT: -
?- woman(mia).
true.
?- playsAirGuitar(mia).
false.
?- party.
true.
?- concert.
ERROR: Unknown procedure: concert/0 (DVIM could not correct goal)
?- ■
```

KB2:

```
happy(yolanda).
listens2music(mia).
Listens2music(yolanda):-happy(yolanda).
playsAirGuitar(mia):-listens2music(mia).
playsAirGuitar(Yolanda):-listens2music(yolanda).
OUTPUT: -
     OUTPUT: -

    playsAirGuitar(mia).

     ?- playsAirGuitar(yolanda).
     ?-
KB3:
likes(dan,sally).
likes(sally,dan).
likes(john,brittney).
married(X,Y) := likes(X,Y), likes(Y,X).
friends(X,Y) := likes(X,Y); likes(Y,X).
     OUTPUT: -
       - likes(dan,X).
= sally.
     ?- married(dan,sally).
     ?- married(john,brittney).
```

KB4:

```
food(burger).
food(sandwich).
food(pizza).
lunch(sandwich).
dinner(pizza).
meal(X):
-food(X).
       OUTPUT:
               food(pizza).
          meal(X),lunch(X).
           dinner(sandwich).
KB5:
owns(jack,car(bmw)).
owns(john,car(chevy)).
owns(olivia,car(civic)).
owns(jane,car(chevy)).
sedan(car(bmw)).
sedan(car(civic)).
truck(car(chevy)).
```

```
truck(car(chevy)).
```

```
OUTPUT:
 owns(john, X).
X = car(chevy).
 ?- owns(john,_).
 true.
 ?- owns(Who,car(chevy)).
Who = john ,
 ?- owns(jane, X), sedan(X).
false.
 ?- owns(jane, X), truck(X).
X = car(chevy).
```