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)
?- I
```

```
KB2:
```

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

OUTPUT: -
```

OUTPUT: ?- playsAirGuitar(mia). true . ?- playsAirGuitar(volanda)

?- playsAirGuitar(yolanda).
true.

?-

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).
X = sally.
?- married(dan, sally).
true.
?- married(john, brittney).
false.
```

```
KB4:
```

```
food(burger).

food(sandwich).

food(pizza).

lunch(sandwich).

dinner(pizza).

meal(X):

-food(X).
```

```
OUTPUT:

?-
| food(pizza).

true.

?- meal(X).lunch(X).

X = sandwich.

?- dinner(sandwich).

false.

?-
```

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)).