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).
trus ,
?- playsAirGuitar(yolanda).
trus.
?- |
```

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)).

```
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).
```