EX.NO:6 DATE:30/10/2024

Reg.no:220701015

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).
       ?- meal(X),lunch(X).
X = sandwich ,

    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)).