Date :

EX.NO 7

DATE:

Introduction TO prolog

AIM

To learn PROLOG terminologies and write basic program

Source 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.
```

Output

```
?- woman(mia)
true
?- playsAirGuitar(mia).
false

?- playsAirGuitar
true

?- concert
Error
```

Date :

KB2

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

Output :-

```
? - playsAirGuitar(mia).
true
? - playsAirGuitar(yolanda)
?-
```

KB3

```
likes(dan, Sally).
likes(Sally, dan).
likes(thom, britney).
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
```

KB4

```
food(burger).
food(sandwich).
food(pizza).
lunch(sandwich)
dinner(pizza).
meal(X) :- food(X).
```

Output

```
?-
1 food(PIZZA).
True
?- meal(X), lunch(X)
X = Sandwich
?- dinner(Sandwich
```

Date :

KBS:

```
owns(jack, car(bmw)).
owns(john, car(chevy)).
owns(olivia, car(civic)).
owns(jane, car(civic)).
sedan(car(bmw)).
sedan(car(civic)).
truck(car(chevy)).
```

Output

```
?-
| owns(john, X).
X = car(chevy)
?- owns(john, _).
True
```

RESULT

Thus the prolog program verified successfully