Ex: 13 Introduction to prolog

DATE:

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
?-party
true
?- concert
ERROR: unknown procedure: concert/0 (DWIM
could not correct goal)
```

KB2 :

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

output :

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

output:
?-
owns(john, x).
x = car(chevy).
?- owns(john, _)
true.

?- owns(
who = joh

?- owns
false.

?- owns(
x= car(

result

und

?- owns(who, car(chevy))
who = john.

?- owns(jane, x), sedan(x),
false.

?- owns(jane, x), truck(x).
x = car(chevy).

Result:

The program for prolog terminologies and write basic programs.