

Ex: No: 7

Introduction to Prolog

Date :

Program code:

KB1:

woman (mia)

woman (jody)

woman (yolanda)

plays Air Guitar (jody)

party.

KB2:

happy (yolanda)

listens 2 music (mia)

listens 2 music (yolanda) :- happy (yolanda).

plays Air Guitar (mia) :- listens 2 music (mia).

~~plays Air Guitar~~ (yolanda) :- listens 2 music (yolanda).

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).

KB4:

food (burger)

food (sandwich)

food (pizza)

lunch (sandwich)

dinner (pizza)

meal(x) :- food(x).

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 :

Result :

Thus the program is successfully executed & the output is verified.

```
?- woman(mia).
true.
?- playsAirGuitar(mia).
false.
?- party.
true.
?- concert.
ERROR: Unknown procedure: concert
KB2 Plays Air Guitar: {'mia', 'yolanda'}
KB3 Married (Dan, Sally): True
KB3 Friends (John, Brittney): True
KB4 Is Burger Food?: True
KB4 Is Sandwich Food?: True
KB4 Is Pizza Food?: True
KB5 Jack owns a sedan: True
KB5 John owns a truck: True
KB5 Olivia owns a sedan: True
```