

EX NO: 13

DATE:

INTRODUCTION TO PROLOG

AIM

To learn PROLOG terminologies and write basic programs.

PROGRAM:

KBI:

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 /o (DWIM)

could not correct goal }

? - □

KB2:

happy (yolanda)

listens 2 music (mia)

Listens 2 music (yolanda) :- happy (yolanda)

plays AirGuitar (mia) :- listens 2 music (mia)

plays AirGuitar (yolanda) :- listens music (yolanda)

OUTPUT:

? - playsAirGuitar (mia)

true

? - playsAirGuitar (yolanda)

true

? - □

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KB3 :

likes (dan, sally)

likes (sally, dan)

likes (john, birthday)

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, britney)

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, car(chery))

who = john.

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

false.

?-owns(jane,x), truck(x)

x = car(chery).

RESULT :

The program for prolog terminologies
and write basic program.