EXPNO: 12

TITLE: INTRODUCTION TO PROLOG

① ATOMIC TERMS:-

They are strings usually made of upper case and lower case alphabets, digits and underscore, starting with lower case letter.

Eg: dog, ab_c_321

② VARIABLES:-

They are strings of letters, digits and underscore.

Eg: Dog, Apple_420

③ COMPOUND TERMS:-

Compound terms are made up of a prolog atom and a number of arguments. enclosed in parenthesis separated by commas.

Eg: is_bigger (elephant, X)

④ Facts:-

A fact is a predicate followed by a dot.

Eg: bigger_animal(whale)

⑤ RULES:-

A rule consists of a head and a body.

Eg: is_smaller (X,Y):- is_bigger (Y, X)

SOURCE CODE

KB1

Women (mia)
Woman (jody)
Woman (yolanda)
plays Air Guitar (jody)
party

O/P

Woman (mia) → ⟨true⟩
plays Air Guitar (mia) → ⟨false⟩
Party → ⟨true⟩
Concert → ⟨unkown⟩

KB2

happy (yolanda)
listens 2 music (mia)
listens 2 music (yolanda):- happy (yolanda)
plays Guitar (mia):- listens 2 music (mia)
plays Air Guitar (yolanda):- listens 2 music (yolanda)

O/P

plays Guitar (mia) → ⟨true⟩
plays Guitar (yolanda) → ⟨true⟩

KB3

likes (dan, sally)
likes (dahy, san)
likes (John, brittany)
married (x,y) :- likes (x, y), liked (y, x)
friends (x,y) : - likes (x, y) ; likes (y, x)

O/P

likes (dan, x) → ⟨x = sally⟩
married (dan, sally) → ⟨true⟩
married (John, brittany) → ⟨false⟩