EX.NO: 07

INTRODUCTION TO PROLOG

AIM:

To learn PROLOG terminologies and write basic programs.

TERMINOLOGIES:

1. Atomic Terms: -

Atomic terms are usually strings made up of lower- and uppercase letters, digits, and the underscore, starting with a lowercase letter.

Ex:

dog ab c 321

2. Variables: -

Variables are strings of letters, digits, and the underscore, starting with a capital letter or an underscore.

Ex:

Dog Apple_420

3. Compound Terms: -

Compound terms are made up of a PROLOG atom and a number of arguments (PROLOG terms, i.e., atoms, numbers, variables, or other compound terms) enclosed in parentheses and separated by commas.

Ex:

is_bigger(elephant,X)
f(g(X,_),7)

4. Facts: -

A fact is a predicate followed by a dot.

Ex:

bigger_animal(whale). life_is_beautiful.

5. Rules: -

A rule consists of a head (a predicate) and a body (a sequence of predicates separated by comma

CODE:

```
SWISH File Edit Examples Help

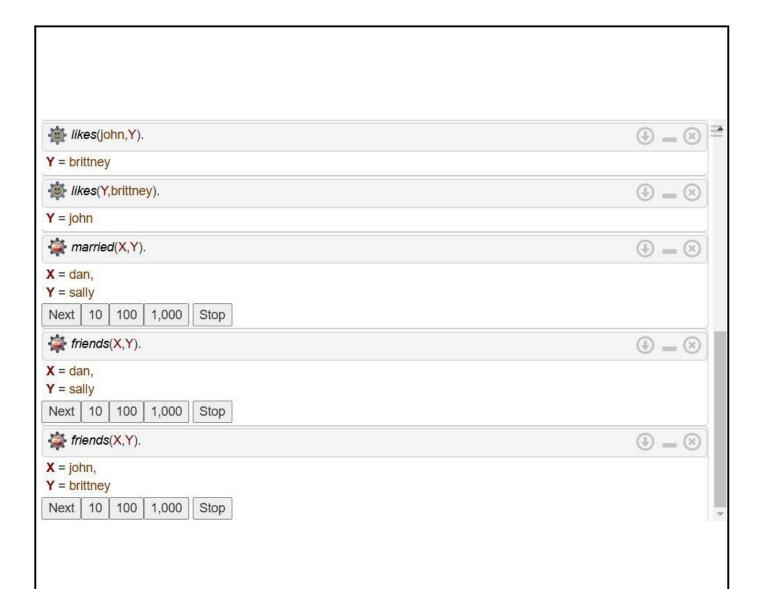
| likes(john,brittney). |
| likes(dan,sally). |
| likes(sally,dan). |
| married(X,Y) :- likes(X,Y) , likes(Y,X). |
| friends(X,Y) :- likes(X,Y) ; likes(Y,X). |
```

OUTPUT:

GIVING QUERY:

```
?- friends(X,Y).

Examples History Solutions | Table results | Run!
```



RESULT:

Thus, the implementing of PROLOG terminologies is successfully executed and the output is verified.