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REG NO.: 241801319
EXPERIMENT NO.: 5
IMPLEMENTATION OF DECISION MAKING AND KNOWLEDGE REPRESENTATION
PROGRAM:

```
GNU Prolog console                                    —   □   ×
File  Edit  Terminal  Prolog  Help
GNU Prolog 1.5.0 (64 bits)
Compiled Jul  8 2021, 12:33:56 with cl
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| ?- change_directory('C:/Users/Swetha/Documents').

yes
| ?- [swetha].
compiling C:/Users/Swetha/Documents/swetha.pl for byte code...
C:/Users/Swetha/Documents/swetha.pl compiled, 10 lines read - 920 byt

yes
| ?- likes(john,food).

true ?

yes
| ?- likes(john,wine).

true ?

yes
| ?- likes(john,Y).

Y = wine ?

yes
| ?-
```

```
swetha - Notepad
File  Edit  Format  View  Help
% Facts
likes(mary,food).
likes(mary,wine).
likes(john,wine).
likes(john,mary).

% Rules
likes(john,X):-likes(mary,X).
likes(john,Y):-likes(Y,wine).
likes(john,Y):-likes(Y,Y).
```

```
GNU Prolog console                                    —   □   ×
File  Edit  Terminal  Prolog  Help
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| ?- change_directory('C:/Users/Swetha/Documents').

yes
| ?- [swetha].
compiling C:/Users/Swetha/Documents/swetha.pl for byte code...
C:/Users/Swetha/Documents/swetha.pl compiled, 7 lines read - 671 byte

yes
| ?- minimum(5, 10, Min).

Min = 5 ?

yes
| ?- maximum(5, 10, Max).

Max = 10

yes
| ?-
minimum(8, 3, Min),maximum(8, 3, Max).

Max = 8
Min = 3 ?

(16 ms) yes
| ?- |
```

```
swetha - Notepad
File  Edit  Format  View  Help
% Rules to find the minimum of two numbers
minimum(X, Y, X) :- X =< Y.
minimum(X, Y, Y) :- X > Y.

% Rule to find the maximum of two numbers
maximum(X, Y, X) :- X >= Y.
maximum(X, Y, Y) :- X < Y.
```