

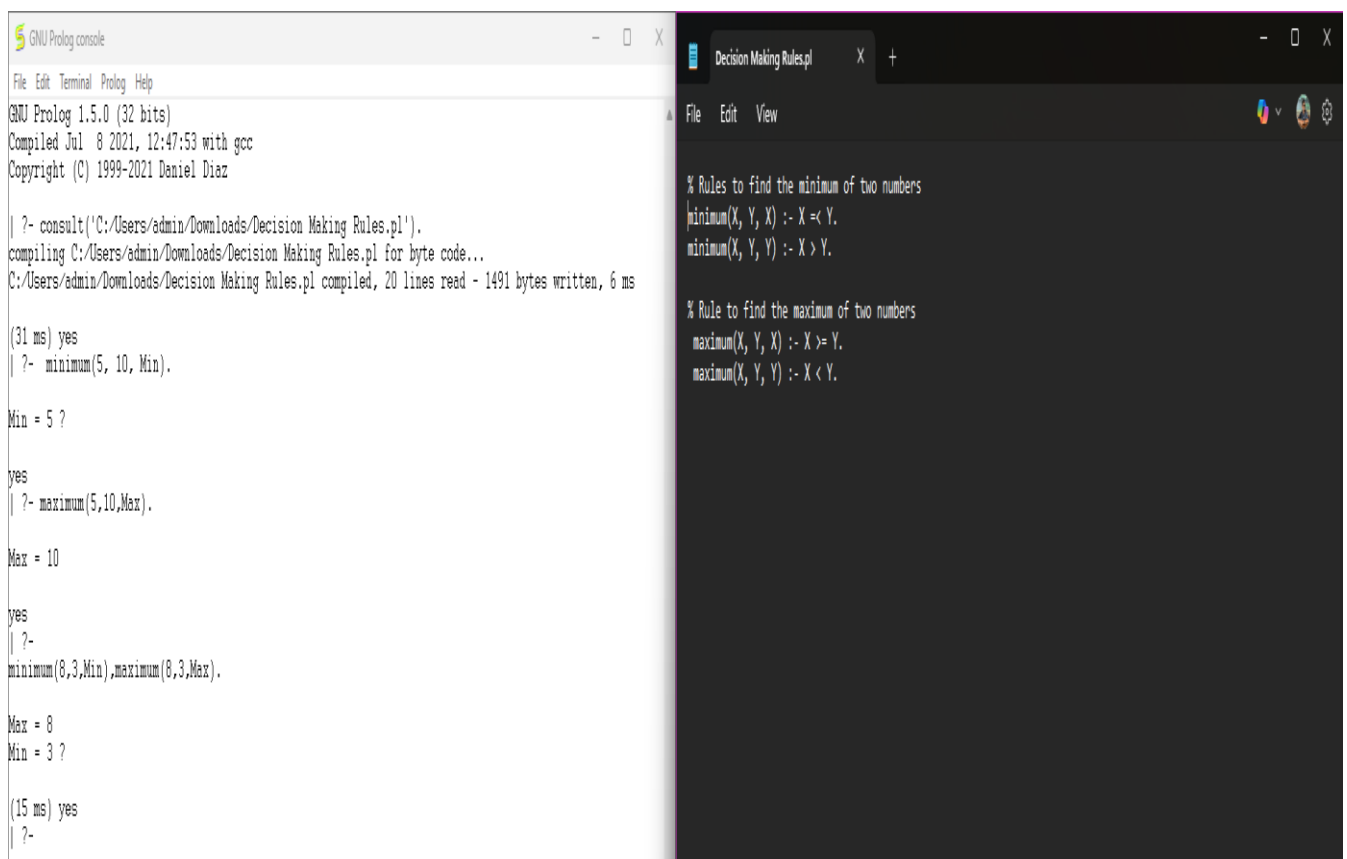
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Ex no : - 5

Date : - 10.05.25

## IMPLEMENTATION OF DECISION MAKING AND KNOWLEDGE REPRESENTATION



```
GNU Prolog console
File Edit Terminal Prolog Help
GNU Prolog 1.5.0 (32 bits)
Compiled Jul  8 2021, 12:47:53 with gcc
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| ?- consult('C:/Users/admin/Downloads/Decision Making Rules.pl').
compiling C:/Users/admin/Downloads/Decision Making Rules.pl for byte code...
C:/Users/admin/Downloads/Decision Making Rules.pl compiled, 20 lines read - 1491 bytes written, 6 ms

(31 ms) 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 ?

(15 ms) yes
| ?-
```

```
Decision Making Rules.pl
File Edit View

% 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.
```

```
GNU Prolog console
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| ?- consult('C:/Users/admin/Downloads/gnu/Decision Making Rules.pl').
compiling C:/Users/admin/Downloads/gnu/Decision Making Rules.pl for byte code...
C:/Users/admin/Downloads/gnu/Decision Making Rules.pl compiled, 10 lines read - 956 bytes written, 8 ms

(93 ms) yes
| ?- [Suseendar]

consult('C:/Users/admin/Downloads/gnu/Decision Making Rules.pl').
uncaught exception: error(syntax_error('user_input:5 (char:1) . or operator expected after expression'),_)
| ?- likes(john,food).

true ?

yes
| ?- likes(john,Y).

Y = wine ?

yes
| ?-
```

```
Decision Making Rules.pl
File Edit View

% Given facts
likes(mary, food).
likes(mary, wine).
likes(john, wine).
likes(john, mary).

% Rules based on the conditions:
likes(john, X) :- likes(mary, X).
likes(john, Y) :- likes(Y, wine).
likes(john, Y) :- likes(Y, Y).
```