Name : S . SANJAY
Roll No : 241801246
Dept : AI & DS- FD
Date : 10 . 05 . 2025

5: Decision Making And Knowledge Representation

Prolog Code :

likes(mary, food).

likes(mary, wine).

likes(john, wine).

likes(john, mary).

likes(john, X) :- likes(mary, X).

likes(john, Y) :- likes(Y, wine).

likes(john, Y) :- likes(Y, Y).

Output:

Program

```
1  likes(mary, food).
2  likes(mary, wine).
3  likes(john, wine).
4  likes(john, mary).
5
6  likes(john, X) :- likes(mary, X).
7  likes(john, Y) :- likes(Y, wine).
8  likes(john, Y) :- likes(Y, Y).
9
10
11
12
```

likes(john,food).
true

likes(john,wine).
true

likes(john,food).
true

likes(john,Y).
Y = wine

write('s.sanjay').
s.sanjay
true

write('241801246').
241801246
true

?- write('241801246').