INTRODUCTION TO PROLOG

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```prolog
% Rules to find the minimum of two numbers
 min(X, Y, Min) :-
        X =< Y,
        Min is X.
min(X, Y, Min
        X > Y,
        Min is Y.


 % Rules to find the maximum of two numbers
max(X, Y, Max) :-
        X >= Y,
        Max is X.
max(X, Y, Max) :-
        X < Y,
        Max is Y.
```
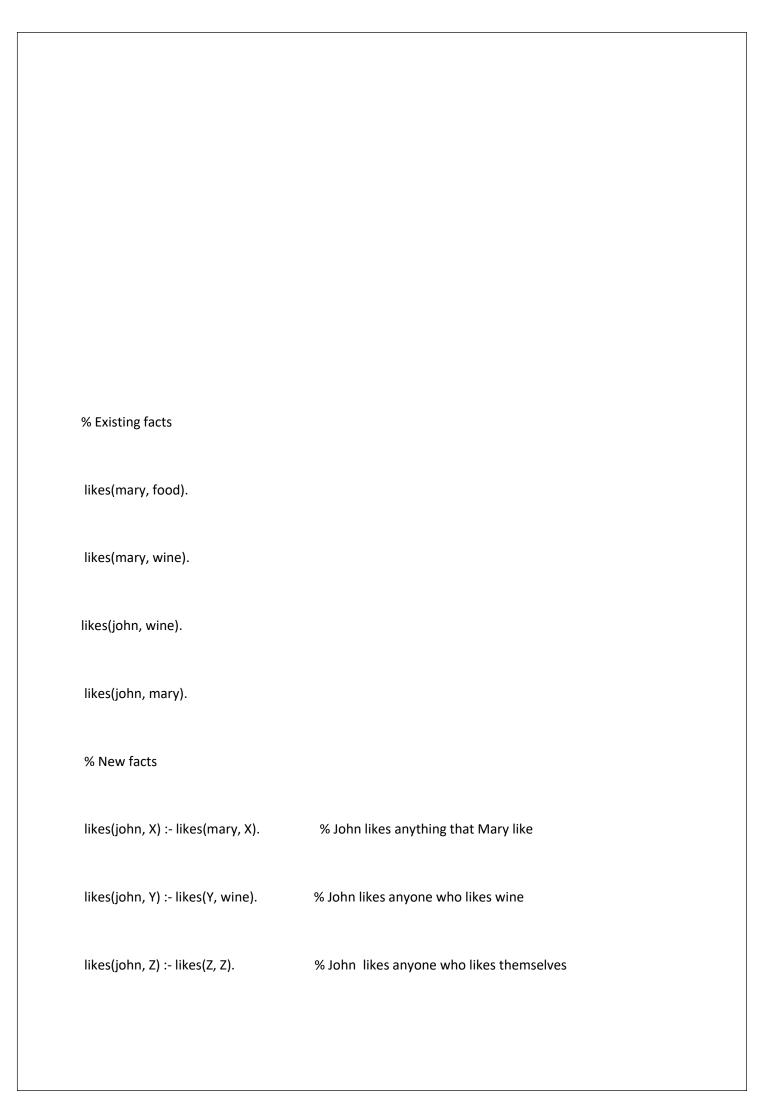
OUTPUT:

```prolog
% Existing facts

likes(mary, food).

likes(mary, wine).

likes(john, wine).

likes(john, mary).

% New facts

likes(john, X) :- likes(mary, X).        % John likes anything that Mary like

likes(john, Y) :- likes(Y, wine).        % John likes anyone who likes wine

likes(john, Z) :- likes(Z, Z).           % John  likes anyone who likes themselves
```

query:

?- likes(mary,food).

yes.

?- likes(john,wine).

yes.

?- likes(john,food).

no.

?- likes(john,X).

X = wine .

?- likes(john,Y).

Y = wine .

?- likes(john,Z).

Z = wine