INTRODUCTION TO PROLOG

```
% Rules to find the minimum of two numbers
min(X, Y, Min):-
X =  It; 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.
% 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 likes
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.
```

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| ?- likes(john,wine). | |
|----------------------|--|
| yes. | |
| ?- likes(john,food). | |
| no. | |
| ?- likes(john,X). | |
| X = wine . | |
| | |
| ?- likes(john,Y). | |
| Y = wine . | |
| | |
| ?- likes(john,Z). | |
| Z = wine | |
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