**Artificial Intelligence Practical**

Q1

/\*

(+) for pre-initialised vars before call

(-) for var to store computed result in procedure after call

Summation of two variables

sum(+X, +Y, -A)

A = X+Y

\*/

sum(X, Y, A) :- A is X + Y.

Q2

% max(+X, +Y, -M)

% M is max(X,Y).

% condition -> expr on true ; expr on false.

max(X, Y, M) :- X > Y -> M is X ; M is Y.

Q3

/\*

Factorial of a number.

factorial(+N, -F)

F = N!

\*/

factorial(0,1).

factorial(N,F) :-

N > 0,

N1 is N - 1,

factorial(N1, F1),

F is N\*F1.

OUTPUT

