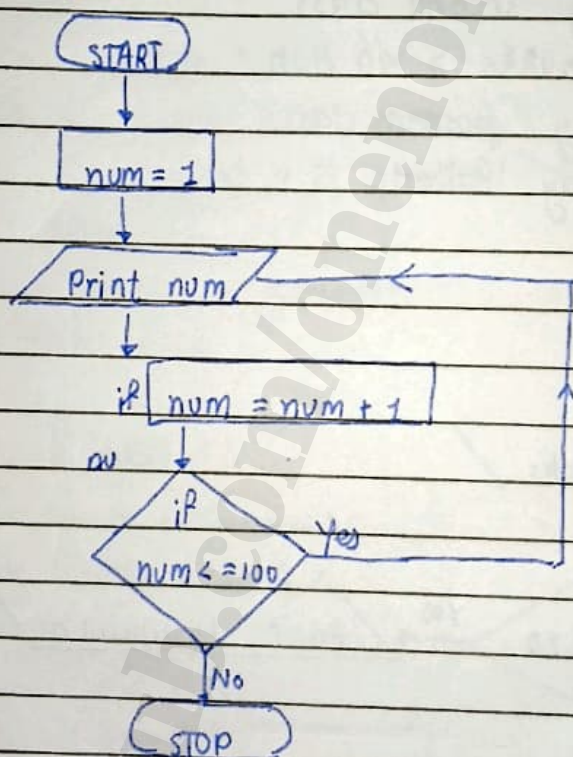


## ★ Problem Solving using iterative statements.

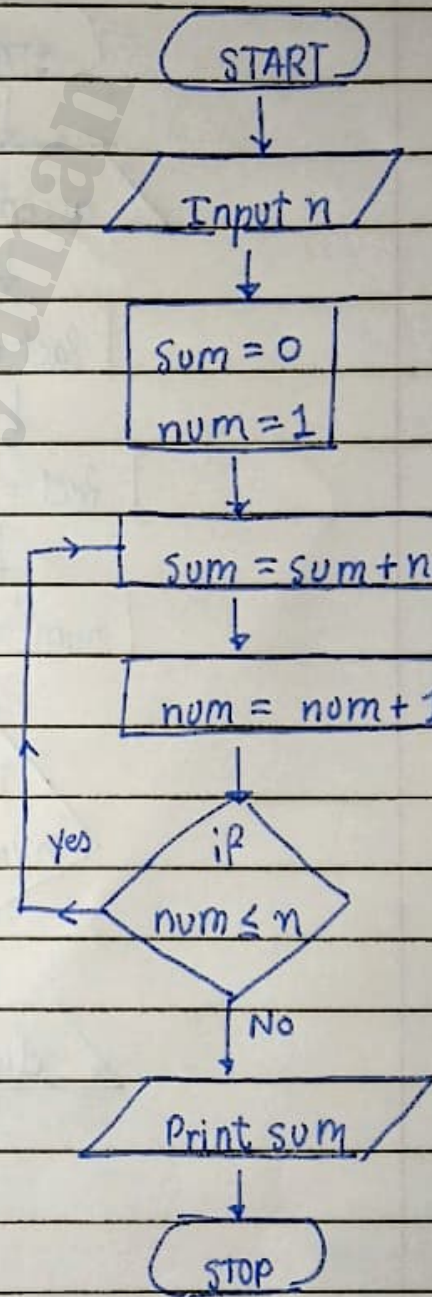
- ① Step 1 : Start
- Step 2 : Assign 1 to num
- Step 3 : Display num
- Step 4 :  $\text{num} = \text{num} + 1$
- Step 5 : if  $\text{num} \leq 100$  jump to step 3  
else jump to step 6.
- Step 6 : Stop.



- 2) To Find sum of first  $n$  +ve nos. i.e.  $1 + 2 + 3 + \dots + n$

- Step 1 : Start
- Step 2 : Accept  $n$
- Step 3 : Assign  $\text{sum} = 0$  X
- Step 4 : Add  $\text{sum} = \text{sum} + 1$
- Step 5 : Display ~~sum~~ if  $\text{sum} \leq n$  then goto step 4  
else goto step 6

⇒ Step 1: Start  
Step 2: Input  $n$   
Step 3:  $Sum = 0$ ,  $num = 1$   
Step 4:  $Sum = Sum + num$   
Step 5:  $num = num + 1$   
Step 6: if ~~not~~  $num \leq n$  then goto  
Step 4  
Step 7: Display  $sum$   
Step 8: Stop.





3. To find Factorial of a number.

Step 1: Start

Step 2: Accept num

Step 3: ~~ans = num~~ num fact = 1

Step 4: fact = fact \* num

Step 5: num = num - 1

Step 6: if num > 0 then goto Step 4

Step 7: display fact

Step 8: stop

