POORNIMA 27/1/22

Date	Unit No.	Lecture No.	Faculty	Subject Name	Subject Code	Main Topics:-

Hands on assignments:

Q1 write an algorithm, and flow charts:

Q (1) Algo ~~of~~ area of triangle.

Ans

Step 1: Start

Step 2: Input base, height

Step 3: Calculate area = 1/2 X base X height

Step 4: print "area

Step 5: END

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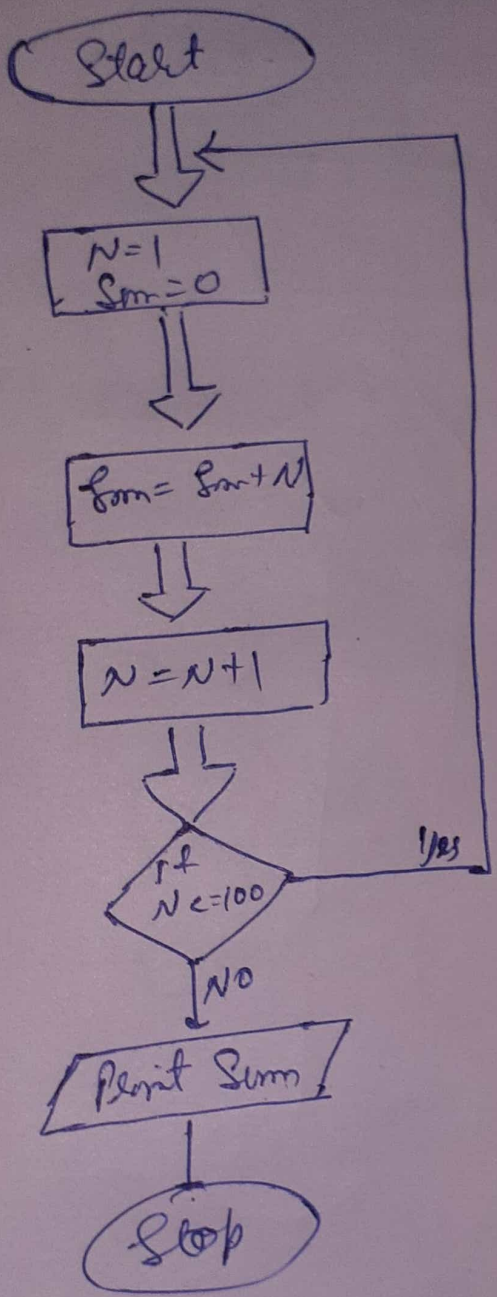
Q2 Draw a flowchart for adding the integer from 1 to 100 print the Sum.

A



Q(5) Write a pseudo code to perform all basic arithmetic operations

Ans

Input : Two numbers a and b

output : value of (a+b), (a-b), (a*b), (a/b)

Procedure.

compute (a, b):

$w \leftarrow a+b$

$x \leftarrow a-b$

$y \leftarrow a*b$

$z \leftarrow a/b$

Print w, x, y, z

End procedure.

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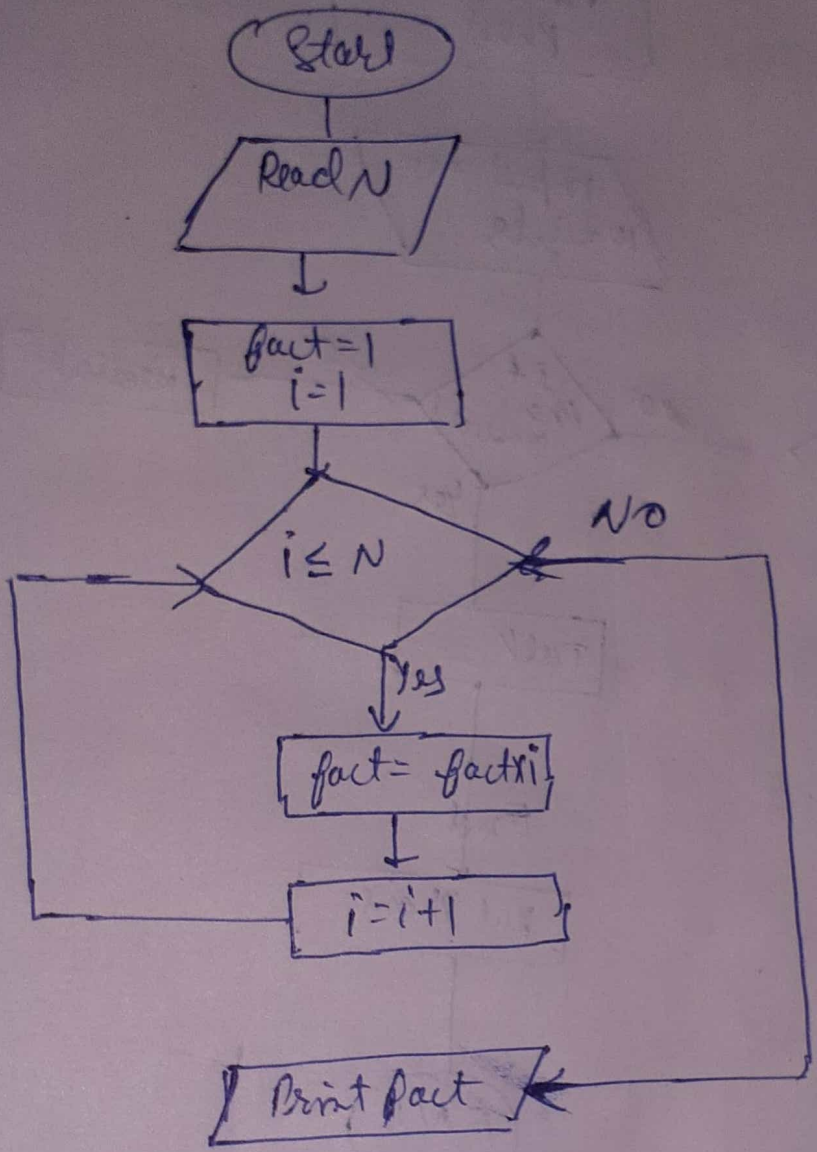
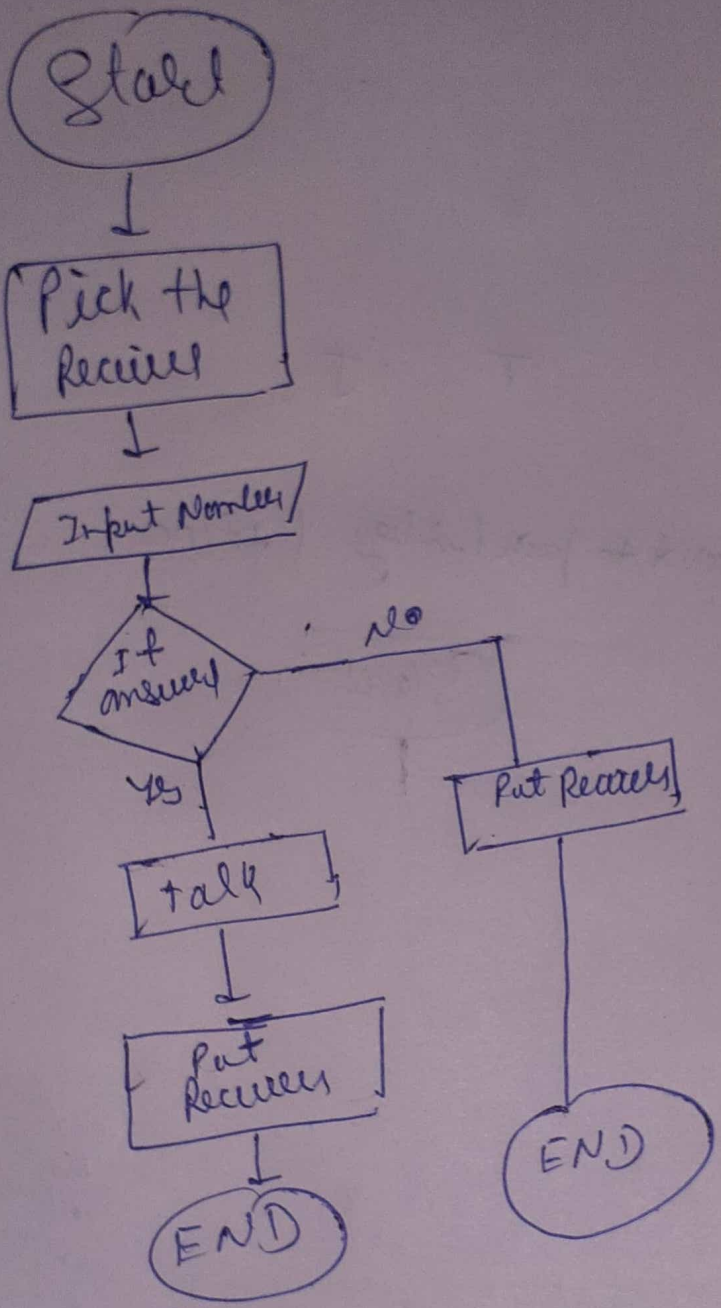
Q.4 Draw a flow chart to find the factorial of given positive integer N

Ans



Q-5 Develop a flow chart to illustrate how to make a local phone telephone call.



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Q-6 Write an algorithm to calculate the Simple interest using the formula

Step 1: Start

Step 2: Read P, R, T

Step 3: Calculate Interest Rate formula = SI = ((amount * Rate * time) / 100)

Step 4: Print Simple interest

Step 5: Stop

Q-7: Write an algo to find the largest of three number X, Y, Z.

Step 1: Read X, Y, Z

Step 2: If X > Y continue Step 5

Step 3: If X > Z then print "Y is the largest" and continue Step 7.

Step 4: Continue Step 6

Step 5: If X > Z then print "X is the largest" and continue Step 7

Main Ideas, Questions & Summary:

Library / Website Ref.:-

Step 6: print "z is largest".

Step 7: End

Q:8 write an algorithm which will test whether a given integer value is prime or not

Step 1: Start

Step 2: Read number n

Step 3: Set f=0

Step 4: For i=2 to n-1

Step 5: If n mod i=0 then

Step 6: Set f=1 and break

Step 7: Loop

Step 8: if f=0 then
print 'the given number is prime'
else
print 'the given number is not prime'

Step 9: Stop

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Q 9 Draw a flowchart to find out the biggest of three unequal positive numbers