Assignment - 2

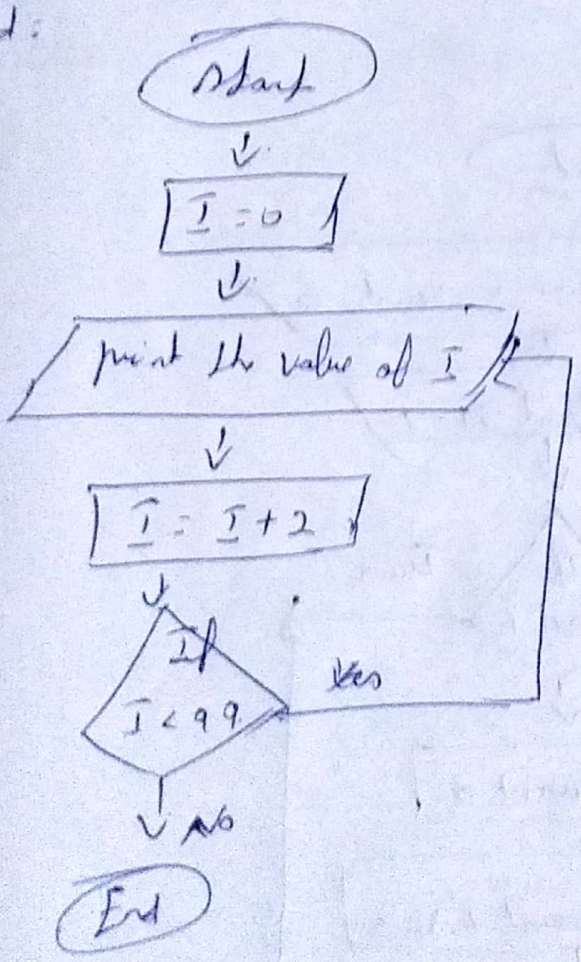
1) Write the Algorithm and Draw the flow chart.

A) print even number 0 to 99.

Algorithm:

=> 1) Start
=> 2) I ← 0
=> 3) print the value of I
=> 4) If (I < 99) then go to Step 3
=> 5) Stop

flowchart:



5.)

Write a add Number less than a given number

It should also calculate their sum and count

Algorithm:

Step 1: Start

Step 2: Let a = 1, sum = 0, count = 0

Step 3: Input n = 1

Step 4: If a > n-1 then go to step 8

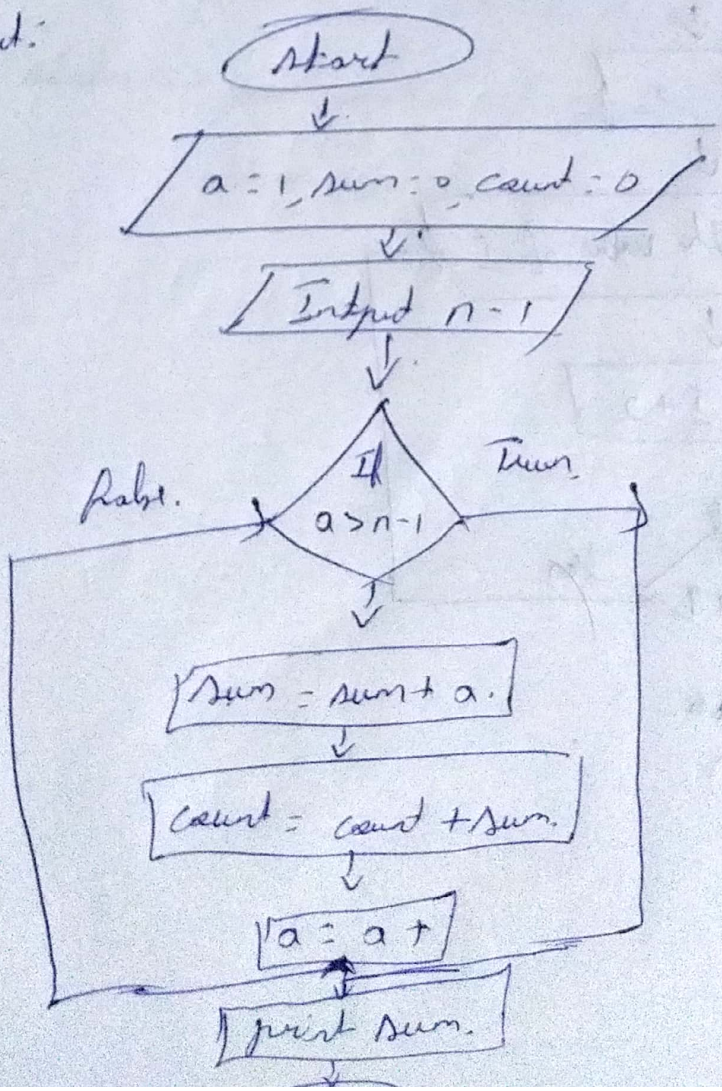
Step 5: sum = sum + a.

Step 6: count = count + sum.

Step 7: print sum.

Step 8: Stop

Flowchart:



1) calculate the Average of 25 test scores

Algorithm

step 1 : start

step 2 : Let I = 1, N = 25, sum = 0

step 3 : Enter the value of I

step 4 : sum = sum + x

step 5 : I = I + 1

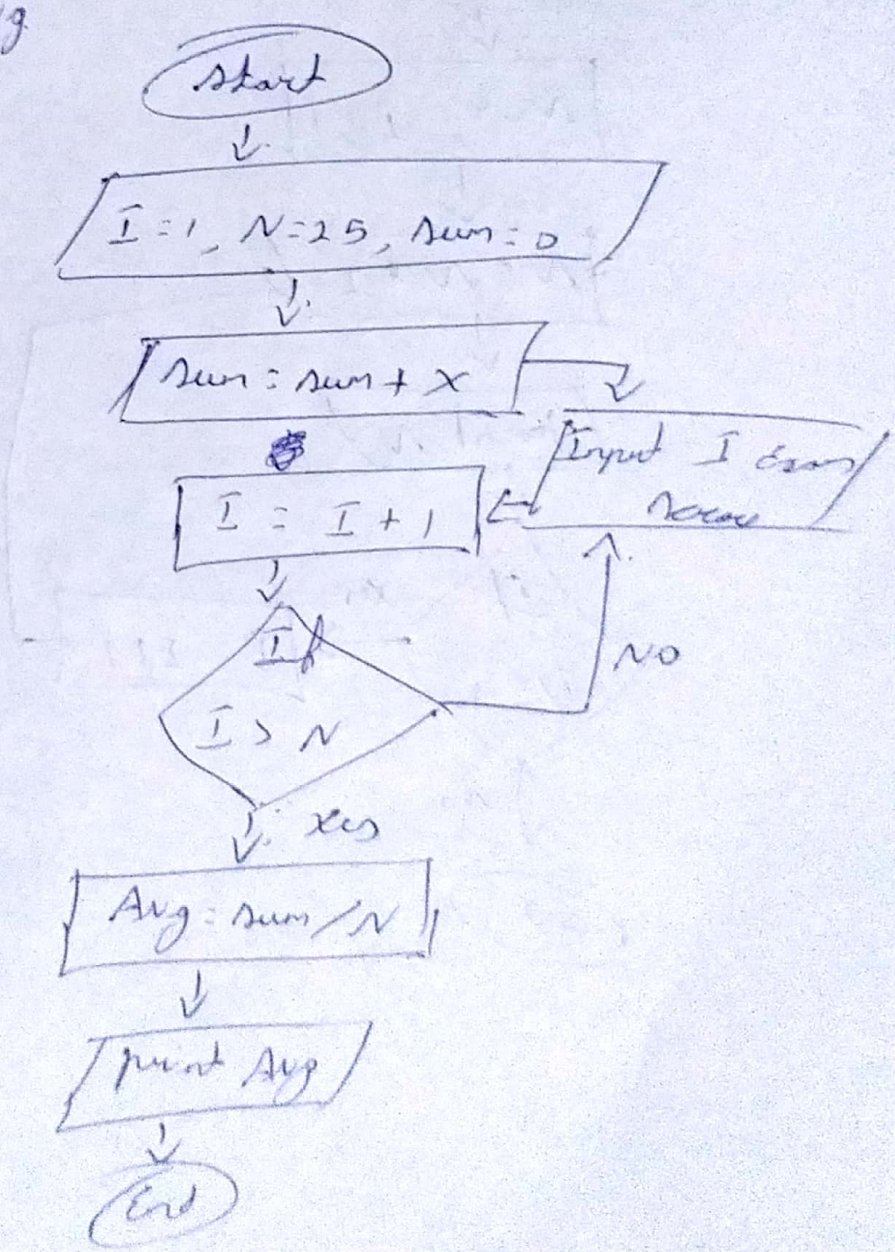
step 6 : If I > N then go to step 3

step 7 : avg = sum / N

step 8 : print avg

step 9 : stop

flowchart :



4) Print the table of any number N (say 7)

Algorithm:

Step 1 : start

Step 2 : Declare N ← 7, I ← 1

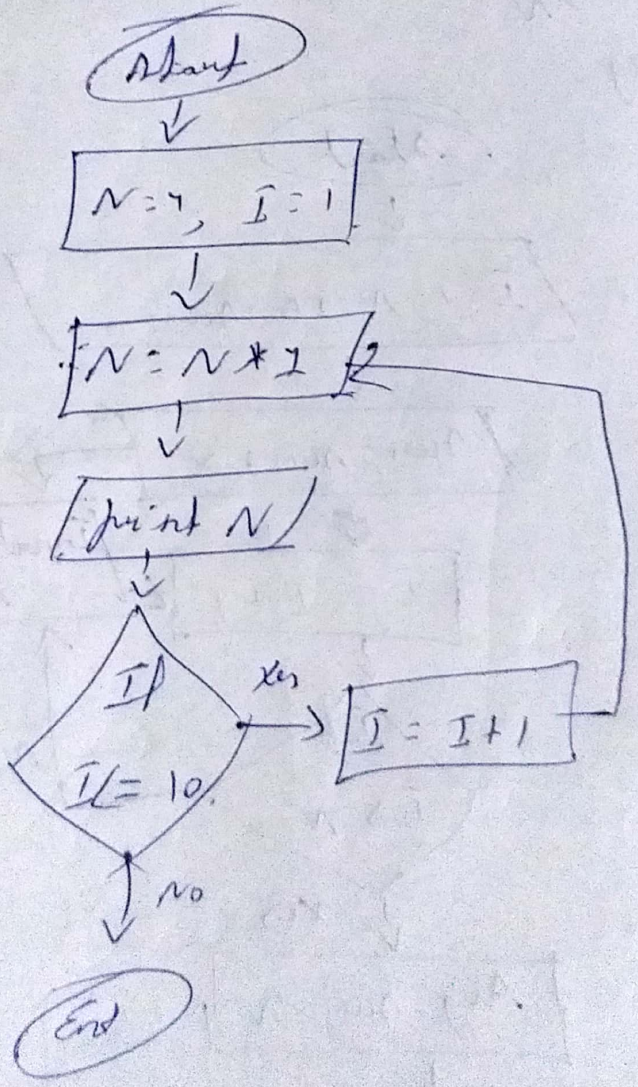
Step 3 : N ← N * I

Step 4 : print N

Step 5 : check if (I <= 10) then I ← I + 1 and go to step 3

Step 6 : stop

Flowchart:

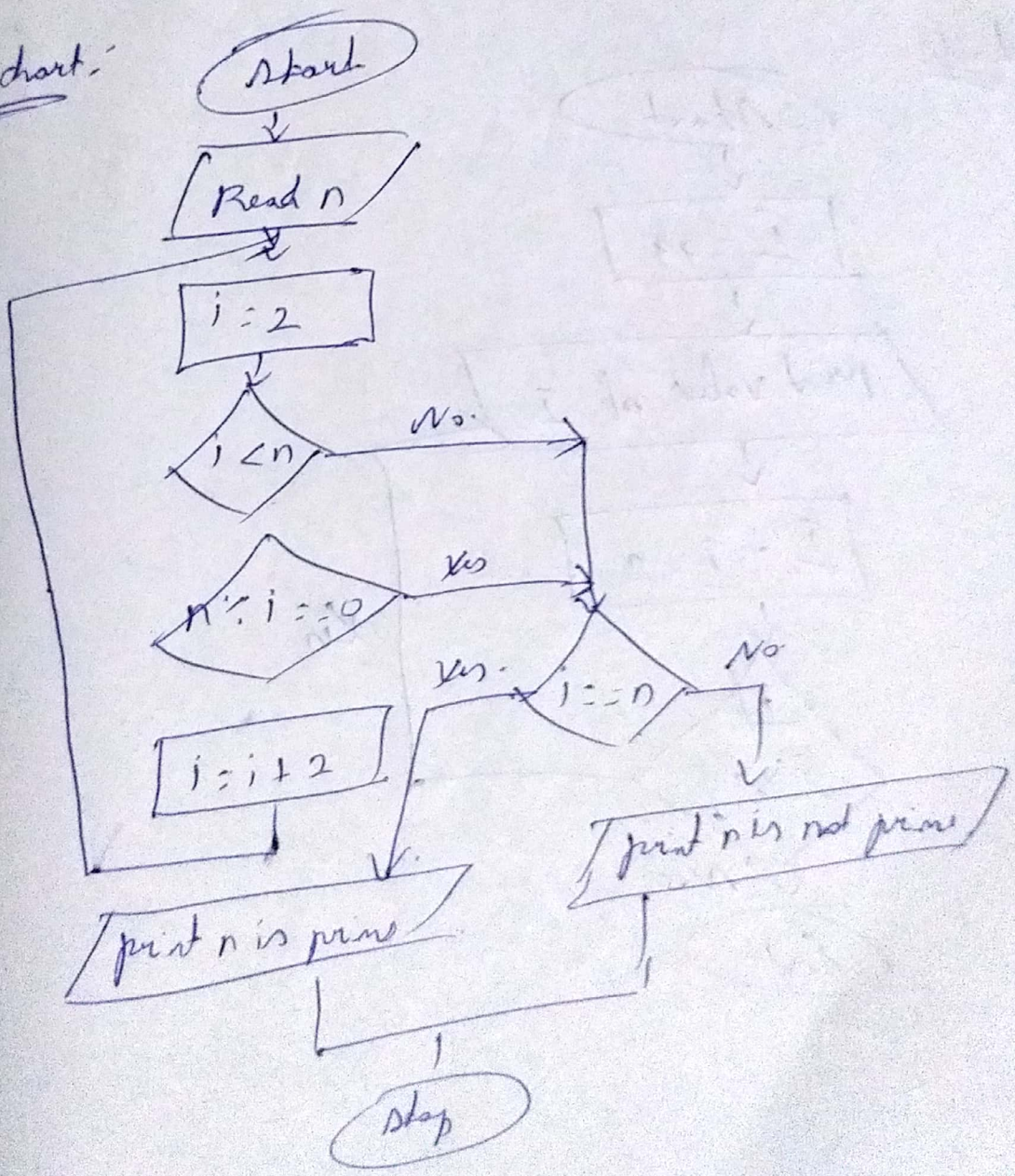


5) Check if given number is prime or not:

Algorithm :-

step 2: start
step 1: Read n
step 3: set F = 1
step 4: If n == 1 the print 'n is not a prime number'
step 5: for i = 2 to n-1
step 6: If n % i == 0 then, set F = 1 and break else.
step 7: If F == i then print "n is not prime number (step 5)
step 8: stop

Flowchart:-



F) Print odd number backward from 99 to 1.

Algorithm:

Step 1: Start

Step 2: I ← 99

Step 3: print the value of I

Step 4: I ← I - 2

Step 5: If (I >= 1) then goto step 3

Step 6: Stop

Flowchart: