

1. Write the Algorithm and draw the flowcharts for the following :

a) Print even numbers between 0 and 99

Step 1- start

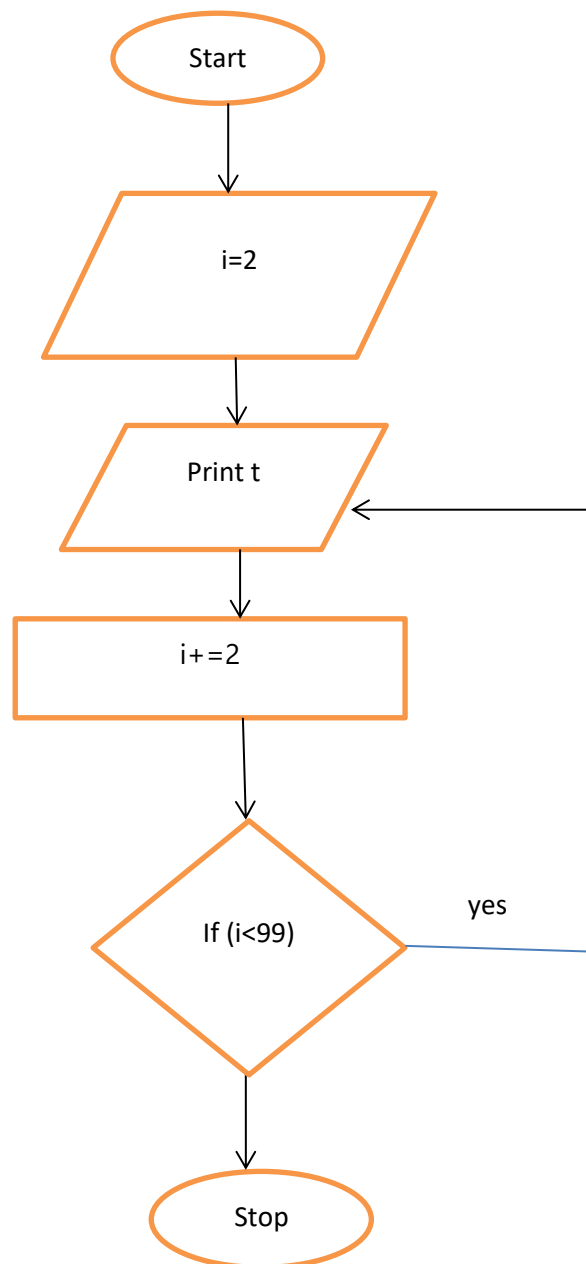
Step 2- $i=2$

Step 3- print the value of (i)

Step 4- $i+=2$

Step 5- If ($i < 99$) then go to step 3

Step 6- End



b) Print odd numbers less than a given number. It should also calculate their sum and count

Step 1-Start

Step 2- $i=1$, $sum=0$, n

Step 3-print the value of i

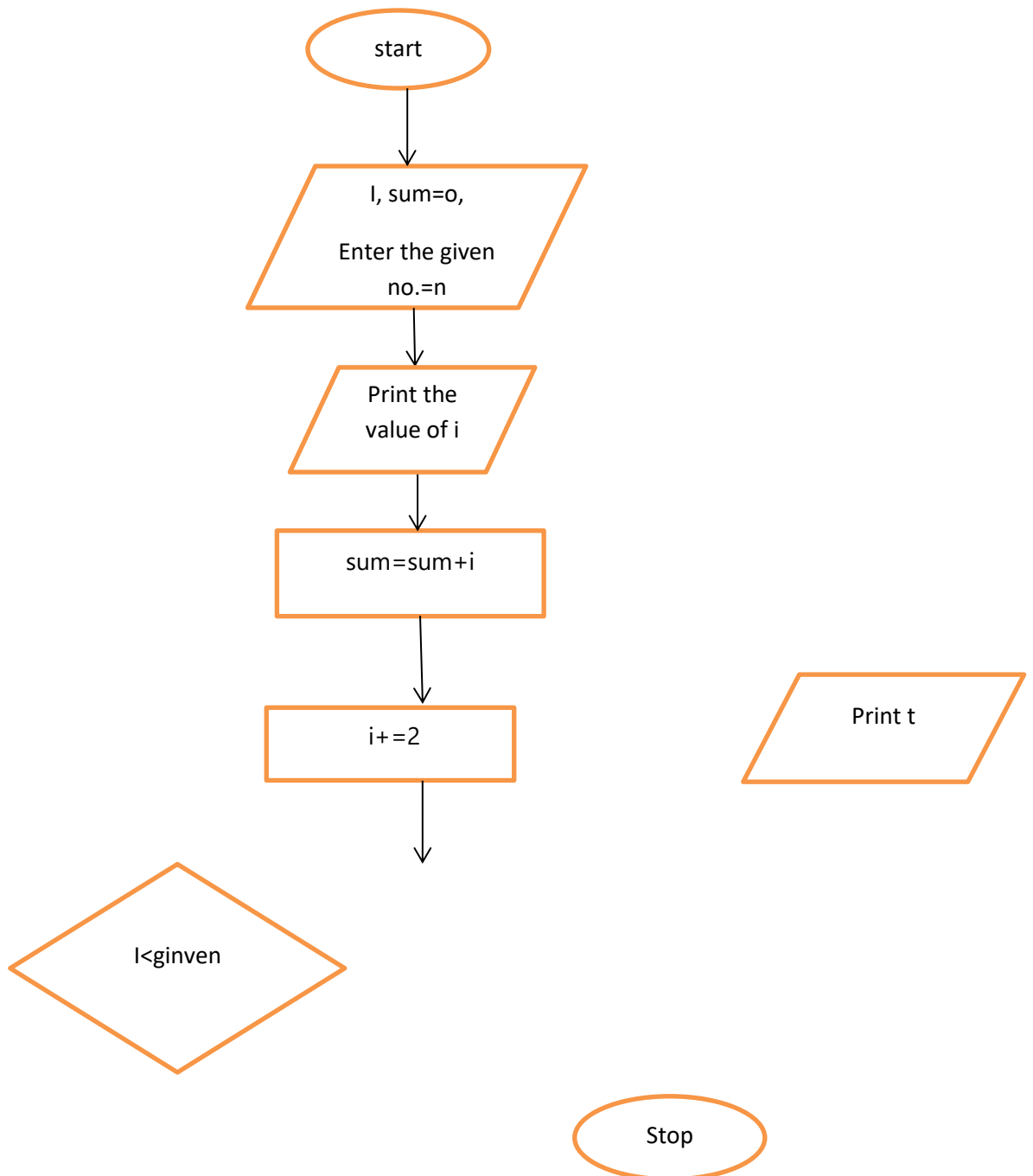
Step 4- $sum=sum+i$

Step 5- $i+=2$

Step 6- if ($i < \text{given number}$) then go to step 3

Step 7- print the sum

Step 8- End



c) Calculate the average of 25 test scores.

Step 1-Start

Step 2- $i=1$, $n=25$, $\text{sum}=0$

Step 3-Input the i 'th score= x

Step 4- $\text{sum}=\text{sum}+x$

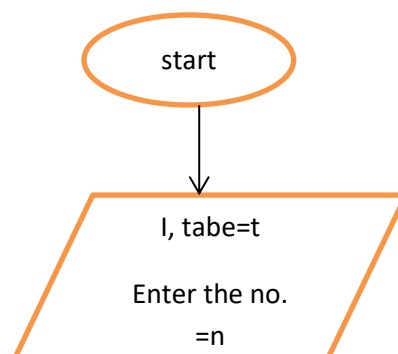
Step 5- $i=i+1$

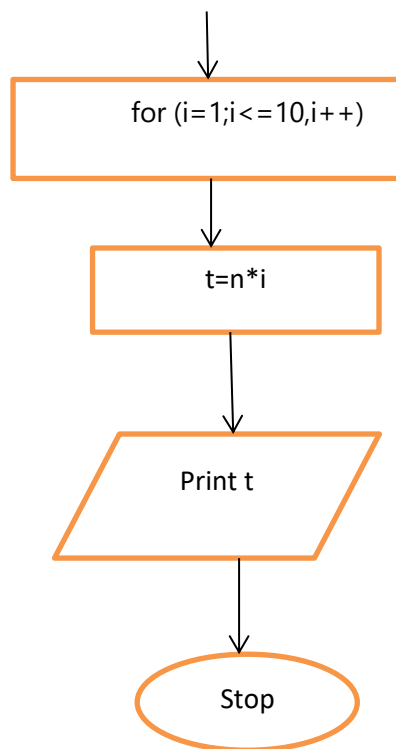
Step 7- Is $(i>n?)$ if no, then go to step 3

Step 6- $\text{average}=\text{sum}/n$

Step 7- print average

Step 8- Stop





d) Print table of any number N (say 7)

Step-1 Start

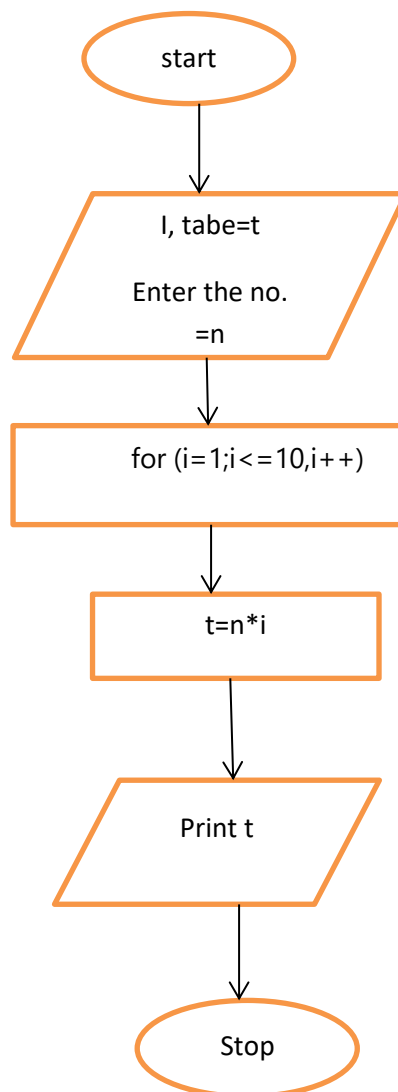
Step-2 i, enter the no.=n table=t

Step-3 for (i=1;i<=10,i++)

Step-4 t=n*i

Step-5 print t

Step-6 Stop



e) Check if the given number is Prime or not.

Step-1 Start

Step-2 Enter the no.=n,c=0

Step-3 for (i=1;i<=n,i++)

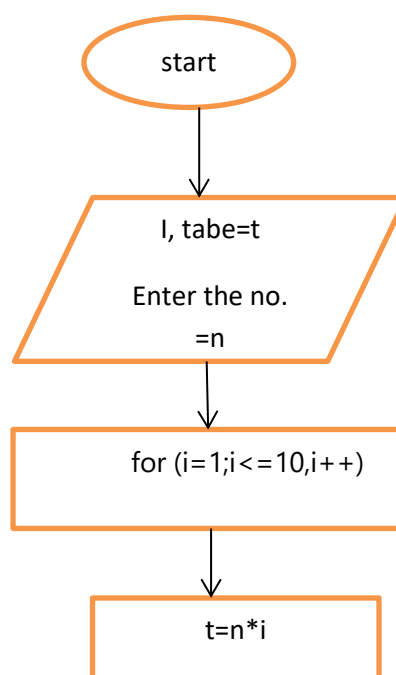
Step-4 if (i%n==0)

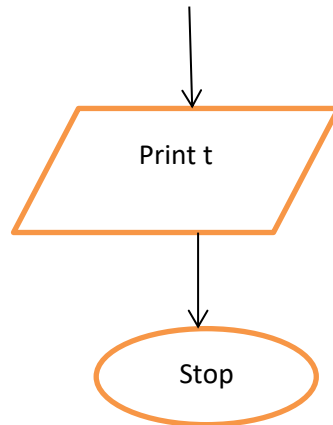
Step-5 c++

Step-6 if (c==2) no then print I is not prime no.

Step-7 Print "i is the prime no.

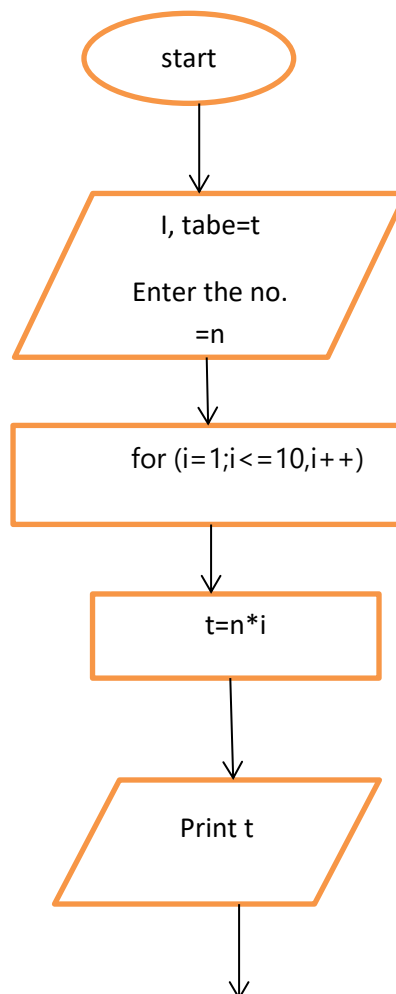
Step- 8 Stop





f) Print odd numbers backward from 99 to 1

Step 1-Start
Step 2- $i=99$, $sum=0$
Step 3-print the value of i
Step 4- $sum=sum+i$
Step 5- $i-=2$
Step 6- if ($i>0$) then go to step 3
Step – End



Stop