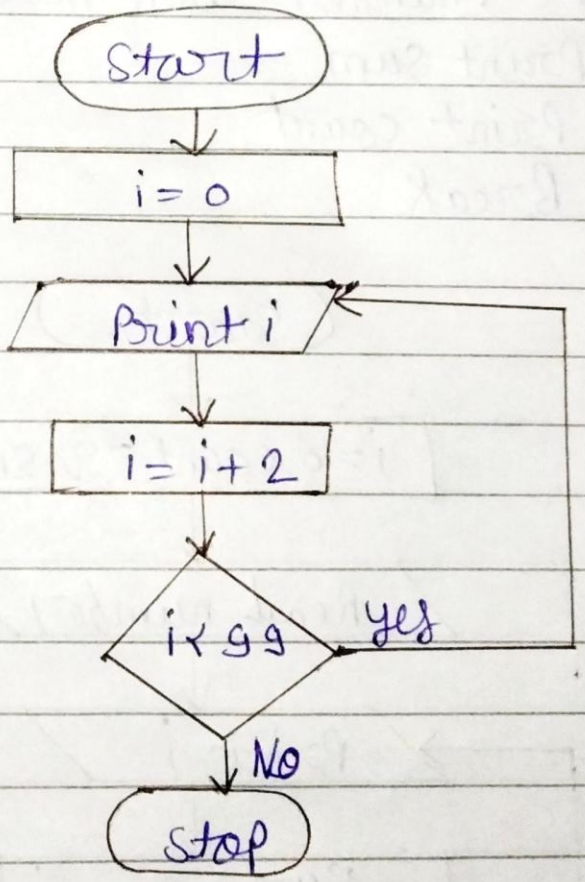
1. Write a algorithum and draw the flowcharts for the following

    a. Print even numbers between 0 to 99

Algorithm:-

Step 1:- Start
Step 2:- i ← 0
Step 3:- Print the value of i
Step 4:- i ← i+2
Step 5:- if (i < 99) then goto step 3
Step 6:- End

Flowchart :-



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

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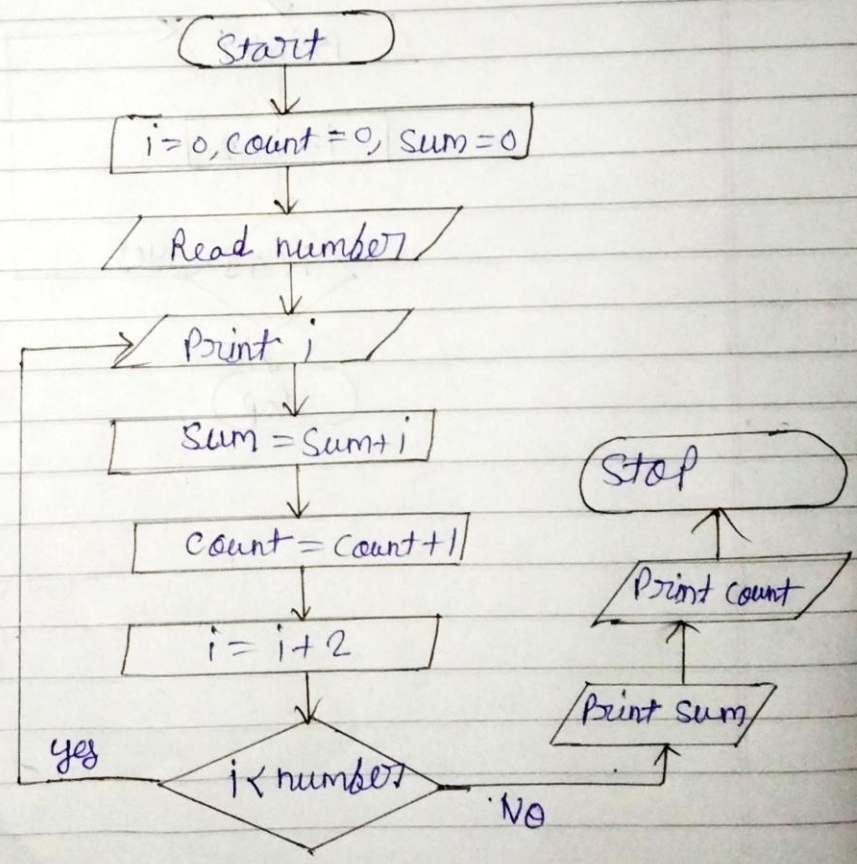
Algorithm:-

Step 1:- Start
Step 2:- i=1, count=0, sum=0
Step 3:- Read number
Step 4:- Print the value of i
Step 5:- Sum = Sum + i
Step 6:- count = count+1
Step 7:- i = i+2
Step 8:- if (i<number) then goto step 4
Step 9:- Print Sum
Step 10:- Print count
Step 11:- Break



c. Calculate the average of 25 test scources.

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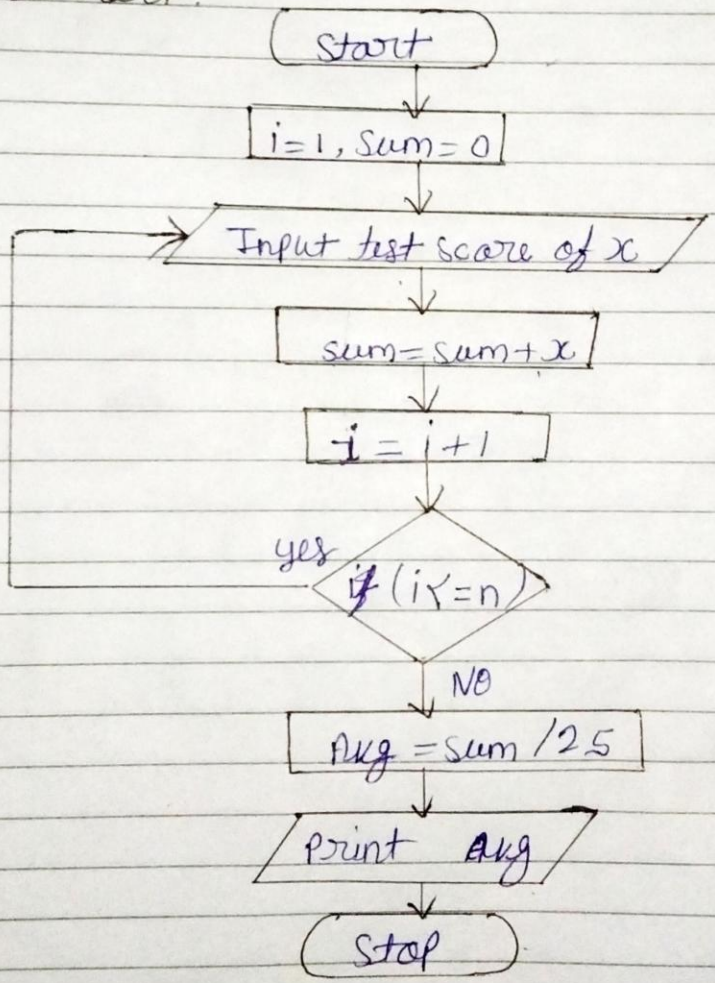
Algorithm:-

Step:- start
Step 2:- i ← 1, Sum = 0
Step 3:- Input test score of x
Step 4:- sum = sum + x
Step 5:- i = i+1
Step-6:- if (i<=25) then goto step 3
Step-7:- avg = sum/25
Step-8:- Print the value of avg
Step-9:- Stop

Flowchart:-



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

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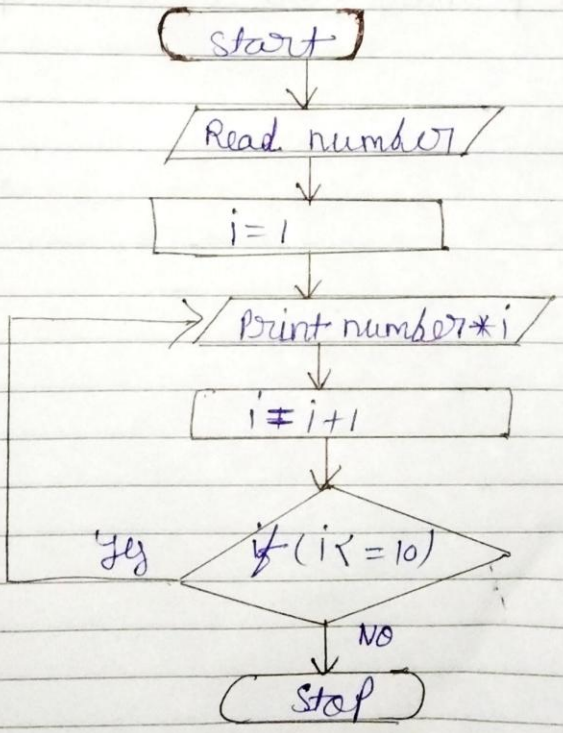
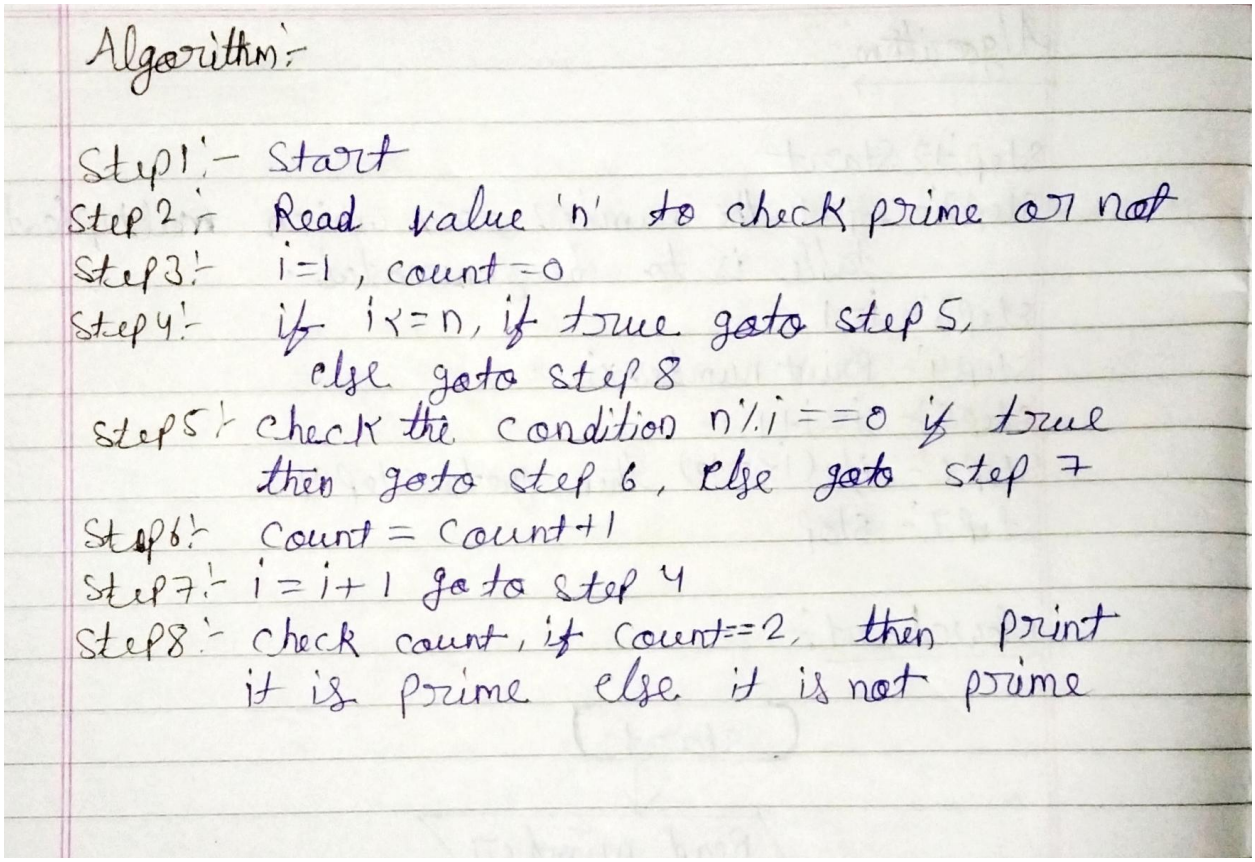
Algorithm:

Step 1:- Start
Step 2:- Input the number for which multiplication table is to be generated.
Step 3:- i=1
Step 4:- Print number*i
Step 5:- i=i+1
Step 6:- if (i<=10) then goto step 4
Step 7:- Stop

Flowchart:-



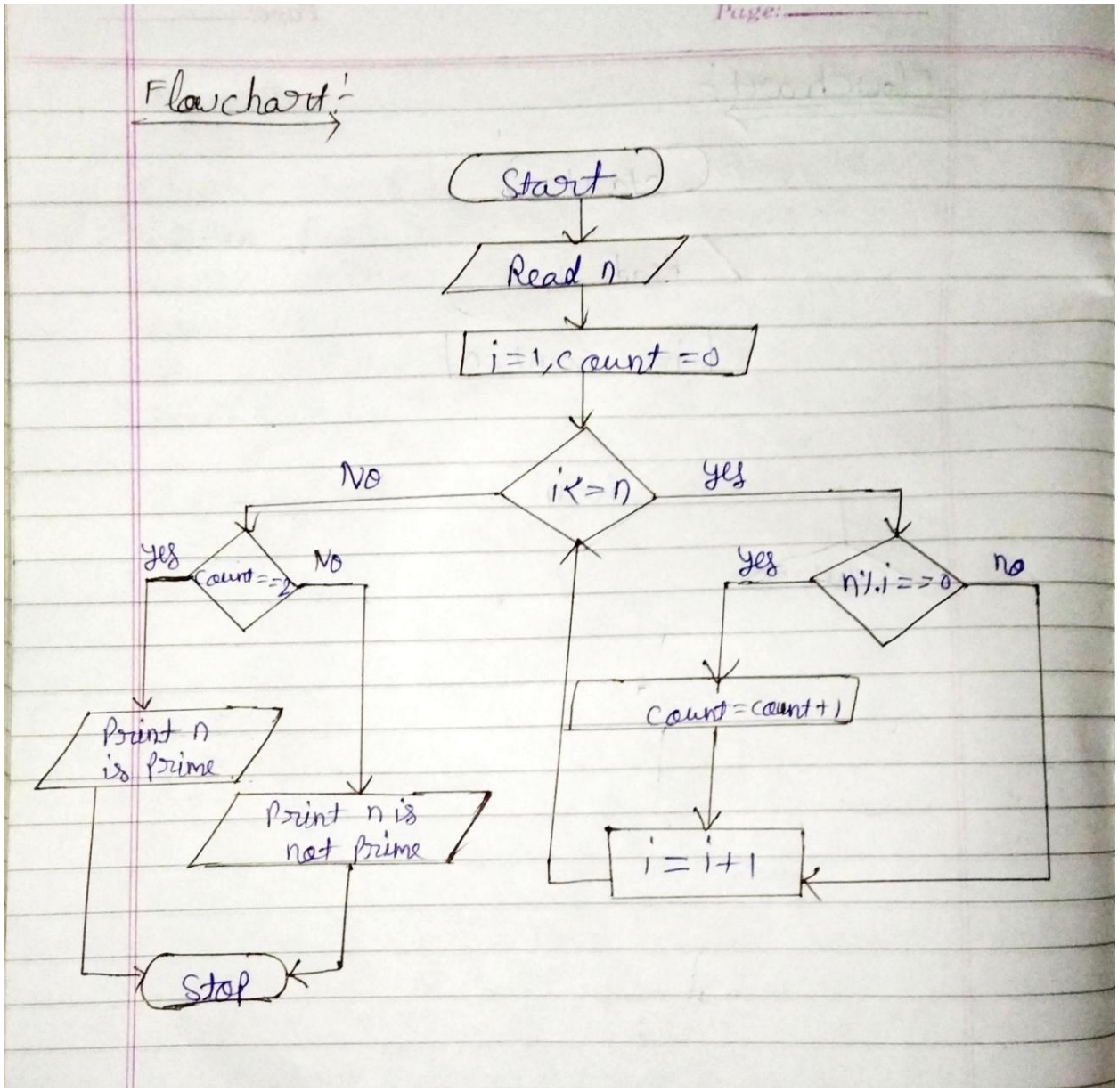
e. Check if the given number is prime or not.



Algorithm:-

Step1:- Start
Step2:- Read value 'n' to check prime or not
Step3:- i=1, count=0
Step4:- if i<=n, if true goto step5,
else goto step8
Step5:- check the condition n%i==0 if true
then goto step6, else goto step 7
Step6:- count = count+1
Step7:- i = i+1 goto step 4
Step8:- check count, if count==2, then print
it is prime else it is not prime

Flowchart:-


Start
Read n
i=1, count=0
i<=n
No
yes
n%.i==0
yes
no
count=count+1
i=i+1
count==2
yes
No
Print n is Prime
Print n is not Prime
Stop

f. Print odd numbers backword from 99 to 1.

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Algorithm:-

Step1:- Start
Step2:- i=99
Step3:- Print the value of i
Step4:- i ← i-2
Step5:- if(i>=1) then goto step 3
Step6:- Stop

Flowchart:-