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

(a) print even Numbers between 0 and 99.

Algorithm

Step 1: start.

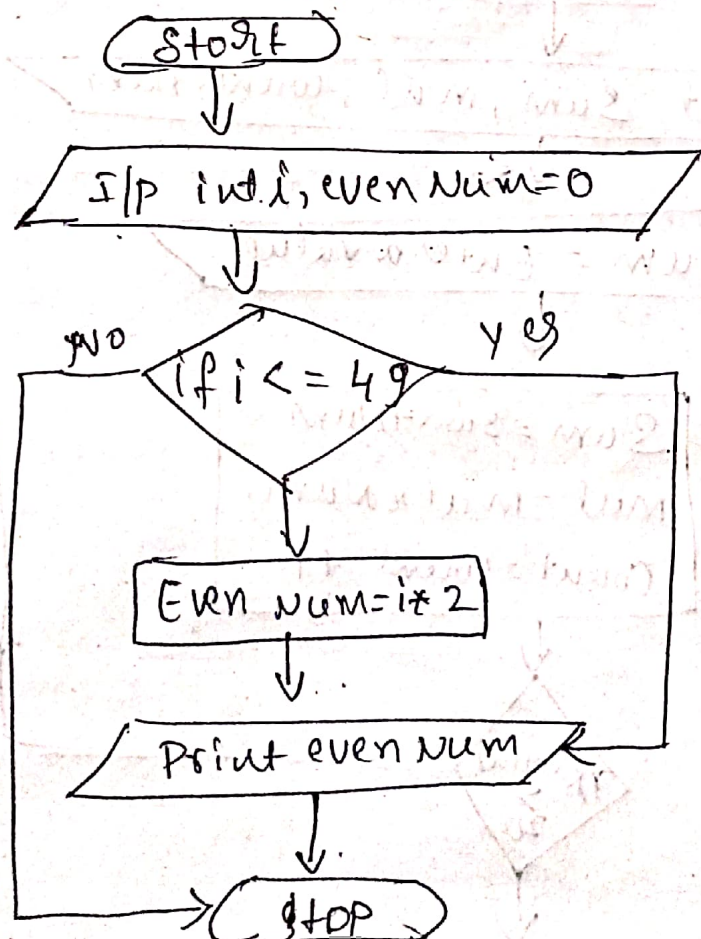Step 2:- Initialize the input i and even and Read the input.

Step 3:- Check. if i is less than & equal to 49

Step 4:- If I is less than & equal 49 apply Even No = i * 2 then print Even Numbes

Step 5:- Otherwise goto step 6.

Step 6:- END.

(b) print odd Numbers less than a given Number, it should also calculate their sum and count.

Algorithm

Step1 : Start

Step2 : initialize Sum, mul, count, Num.

Step3 : Read a given value.

Step4 : initialize
     Sum ← Sum + Num
     Mul ← mul * Num.   if it
     Count ← count + 1
     Satisify the condition. the print
     Sum and print Mul. otherwise go
     to step 3 -

Step5 : End

Start

int Sum, mul, count, Num

Num = Enter a value.

Sum = Sum + Num
Mul = Mul * Nam
Count = Count + 1

if count > 20

print Sum
print Mul

Stop
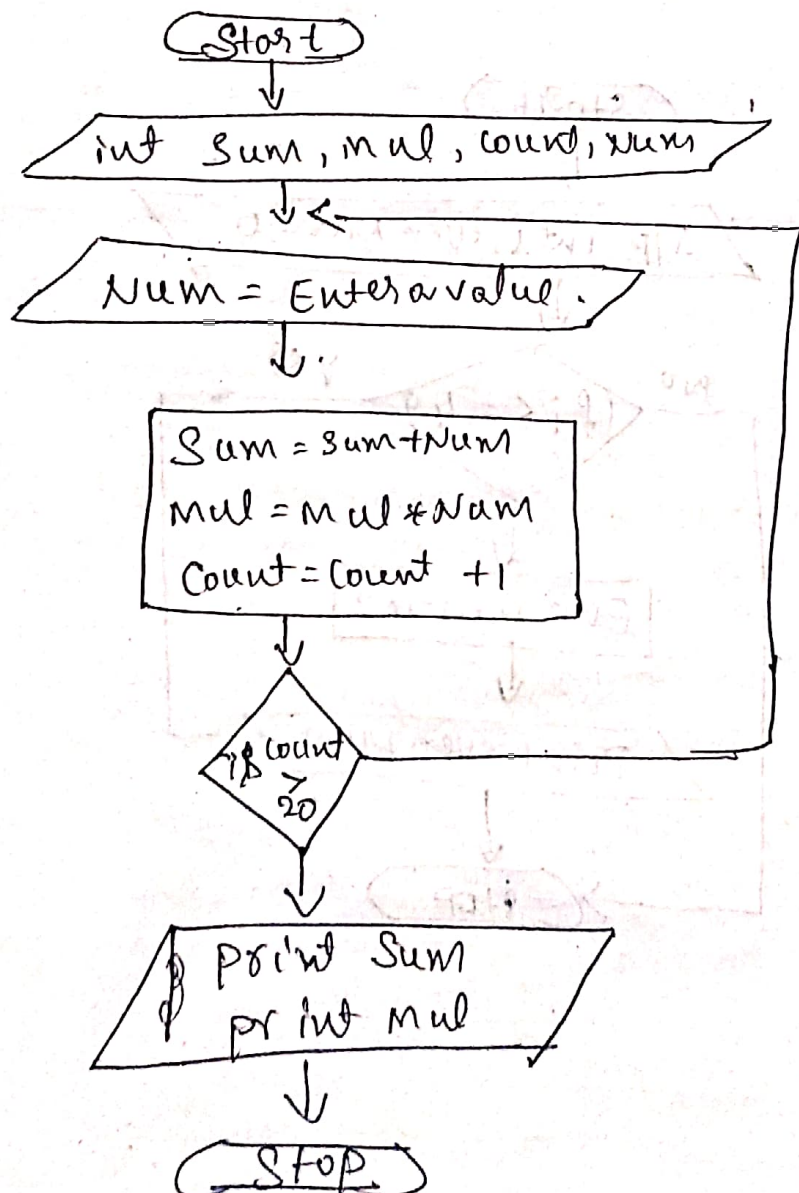
(c) Calculate the average of 25 test scores.
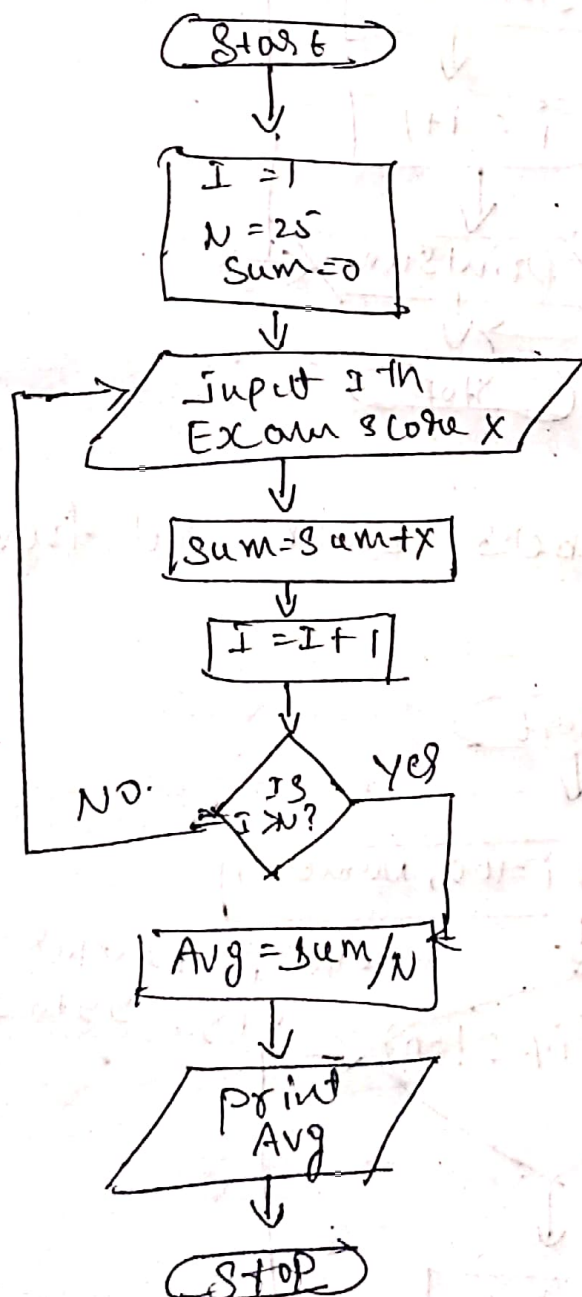
Algorithm

Step1: Start

Step2: Initialize I, N, sum.

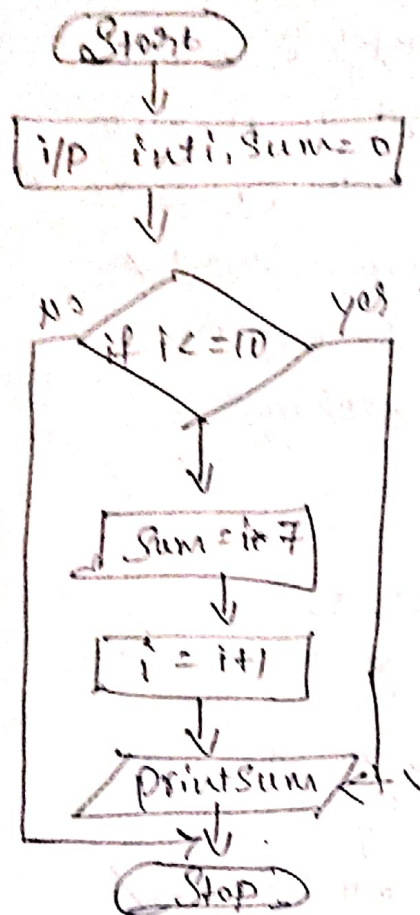Step 3:- Input Ith Exam score to X.

Step4:- If Sum = Sum+X

Step5:- then I = I+1

Step 6:- print Average.

Step7:- End

(d) print table of any numbers n (say)

```
            ( Start )
               ↓
    [ i/p int i, sum = 0 ]
               ↓
  no        ◇ if i <= 10 ◇        yes
               ↓
        [ sum = i * 7 ]
               ↓
         [ i = i+1 ]
               ↓
      / print sum /
               ↓
           ( Stop )
```

(e) Print odd numbers backward from 9 to 1.

```
            ( Start )
               ↓
   [ i/p int i=100, numbes=1 ]
               ↓
        ◇ if (i % 2!=0) ◇  ← yes
                               who/nos i+ Reaches
                               9 to 1 numbes
               ↓
          [ i = i - 1 ]
               ↓
         / print i /
               ↓
           ( Stop )
```