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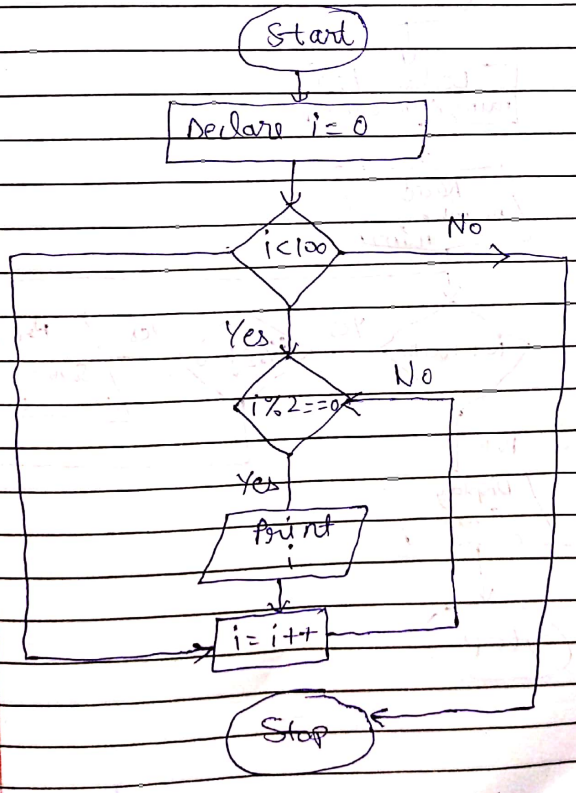
# Assignment -2

1. Write the algorithm and draw the flowcharts for the following.

(i) Print even numbers between 0 and 99.

=> Step1 : Start
Step2 : Declare variable i = 0
Step3 : While i<100
Step4 : if i%2 == 0
Step5 : print i
Step6 : increment of i
Step7 : Stop



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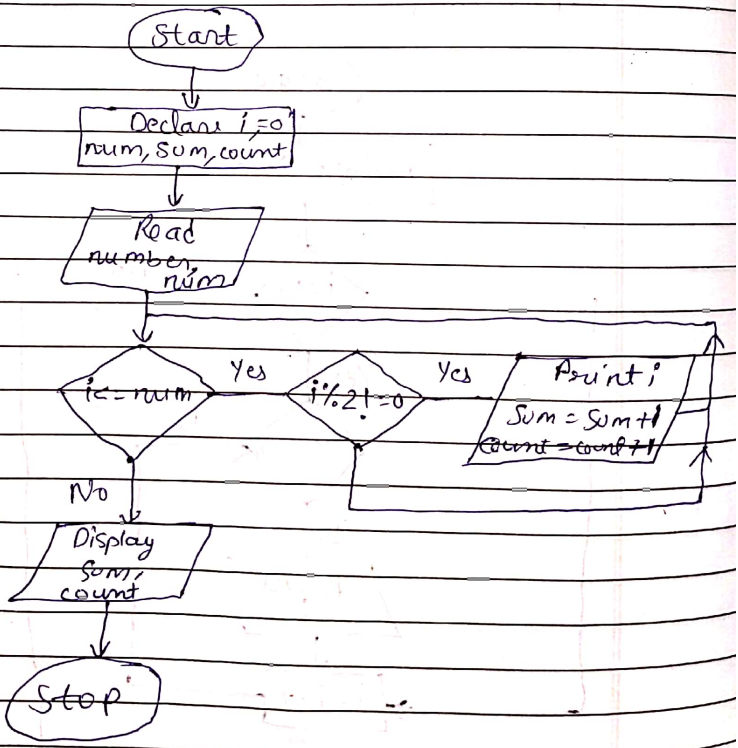
b) Print odd numbers less than a given number. It should also calculate their sum and count.

⇒ Step1: Start
Step2: Declare num, sum, count and i=0
Step3: Read number, num
Step4: if i<=num, (goto Step 5)
Step5: if i%2!=0 (goto step 4)
Step6: Print i
Step7: Print sum = sum+1
Step8: Print count = count+1
Step9: Stop



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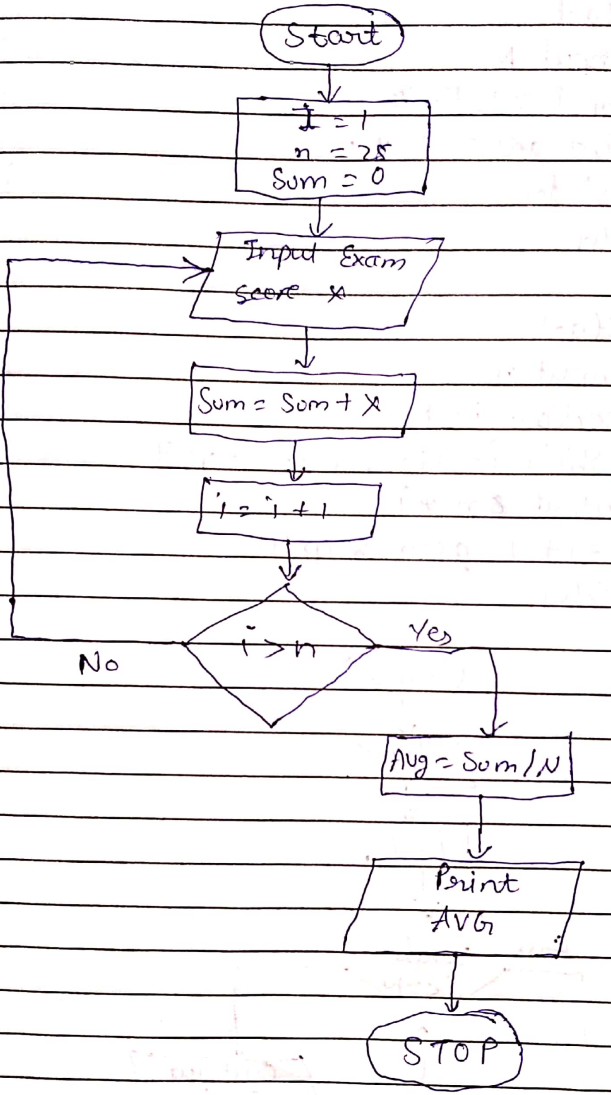
(c) Calculate the average of 25 test scores.

⇒



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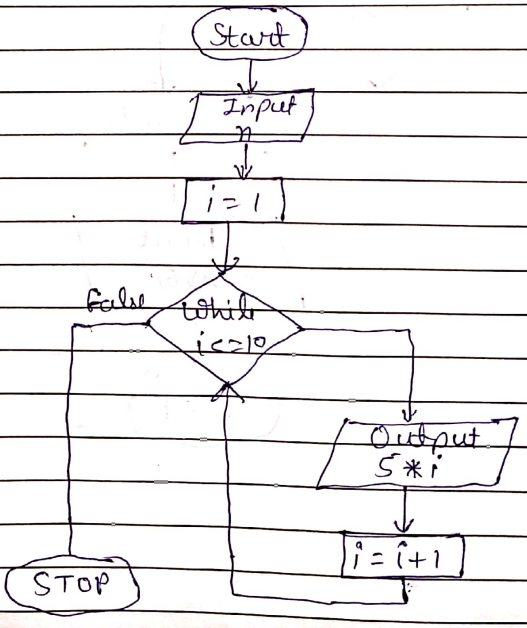
(d) Print table of any number N (say 7)

⇒ Step1 : Start
Step2 : Input N
Step3 : for i = 1 to 10
Step4 : Print ans = N * i
Step5 : End for
Step6 : Stop

Step1 : Start
Step2 : Input n
Step3 : Declare i = 1
Step4 : While i <= 10, goto step 7
Step5 : Output 5 * i
Step6 : i = i + 1 goto step 4
Step7 : Stop



(e) check if the given number is prime or not.

⇒ Step1: Input N & M

Step2: ~~While (N<M)~~

Step3:

(f) Print odd numbers backward from 99 to 1.

⇒ Step1: Start

~~Step2: Assign i=0~~

Step3:

Step1: Start

Step2: Declare i = 99

Step3: if i%2!=0 goto step 4

Step4: Print i

Step5: i = i-1

Step6: Stop