ASSIGNMENT NO.2

- Write the algorithm and flowchart for the following.
- Print even number between 0 to 99.

a) Print even number between 0 to 99

⇒ Algorithm :

Step 1 : Start

Step 2 : Initilize the variable a = 1

Step 3 : while a < 99

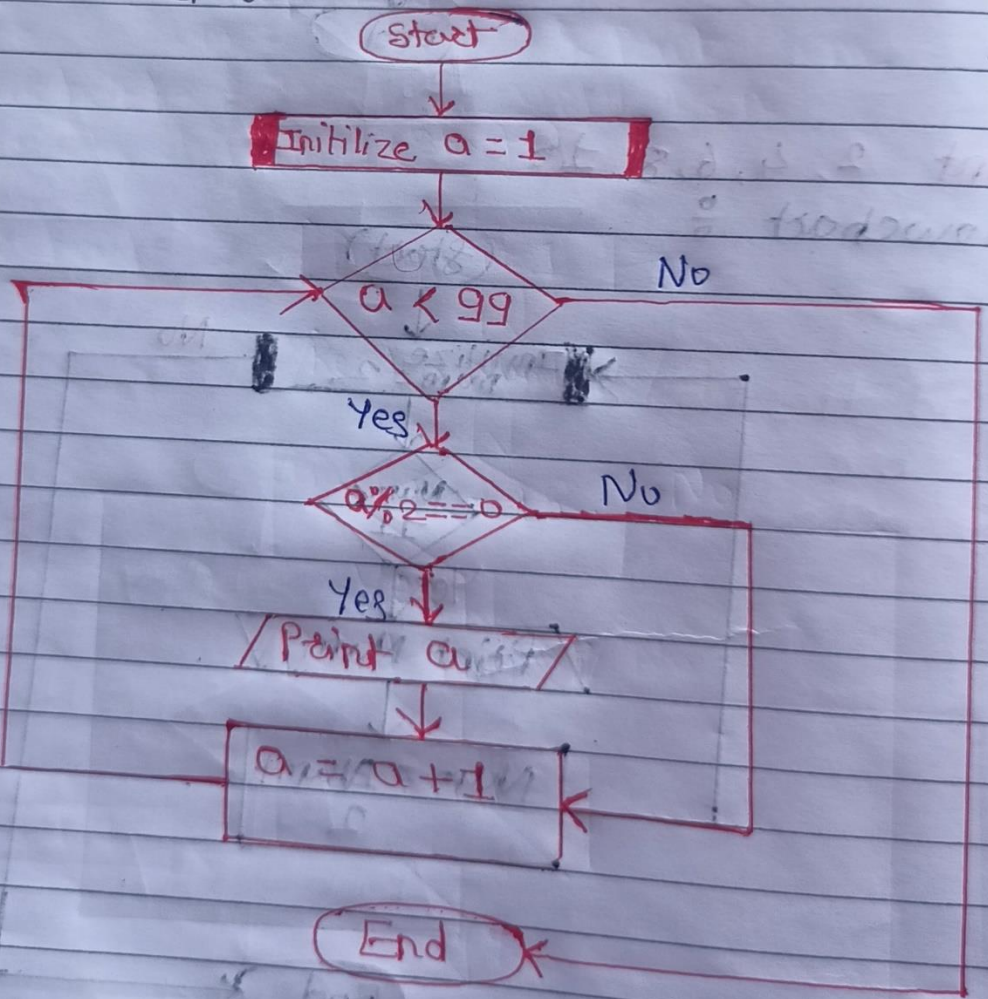
Step 4 : if a%2 == 0 (check)

Step 5 : Print a

Step 6 : Increment a = a+1

Step 7 : Stop / End.

⇒ Flowchart :



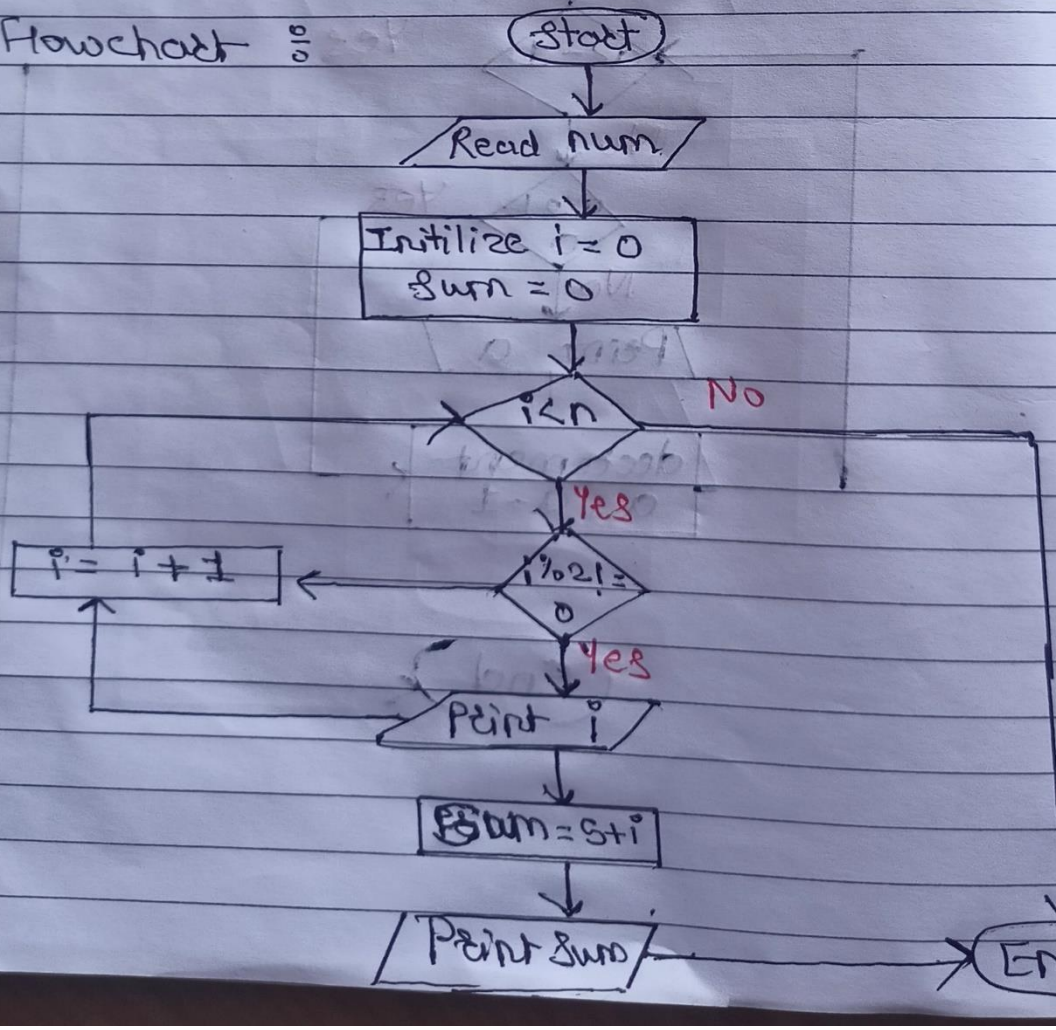
- Print odd numbers less than a given number. It should also calculate their sum and count.

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

⇒ Algorithm :

Step 1 : Start
Step 2 : Read the given number, num
Step 3 : Initilize i = 0, sum = 0
Step 4 : while i < n
Step 5 : if i%2 != 0
Step 6 : Print i
Step 7 : increment i = i + 1
Step 8 : sum = sum + i & Print sum
Step 9 : Repeat the step 4 until i < n
Step 10 : Stop / End

⇒ Flowchart :



- Calculate the average of 25 test scores.

Date ___/___/_____

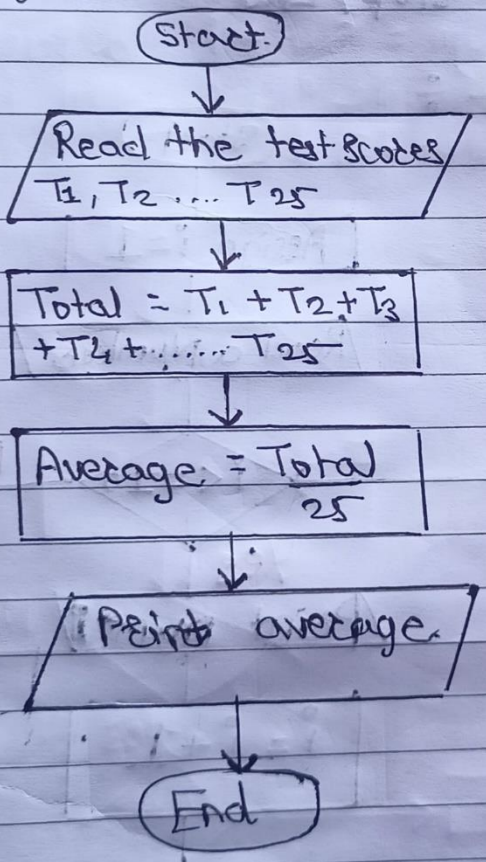
Saathi

c) Calculate the average of 25 test scores.

⇒ Algorithm :-

Step 1 :- Start
Step 2 :- Input the score / Read the test score
Step 3 :- Total = $T_1 + T_2 \ldots T_{25}$
Step 4 :- Average = Total / 25
Step 5 :- Display / Print average.
Step 6 :- End / stop

⇒ Flowchart :-



- Print tables of any number.

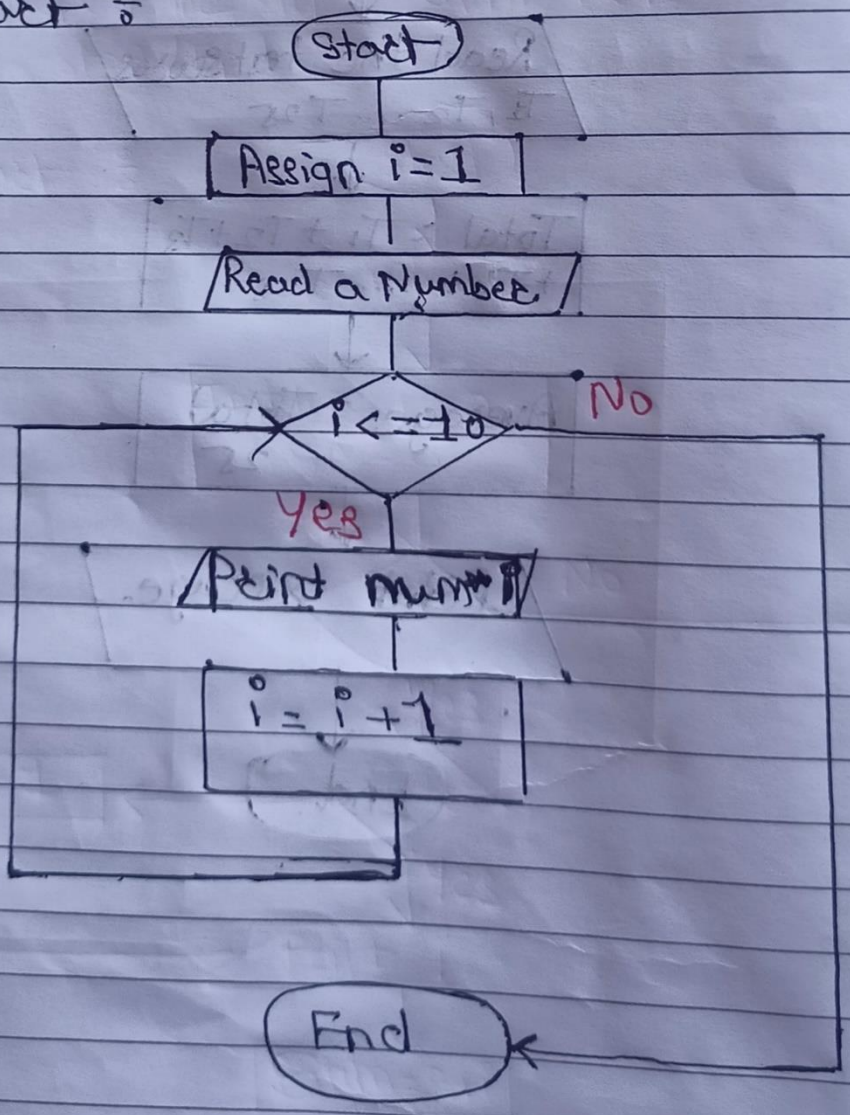
Date ___/___/_____

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

⇒ Algorithm :-

Step 1 :- Start
Step 2 :- Assign i = 1
Step 3 :- Read a number, num = 7
Step 4 :- condition i<=10
Step 5 :- Print num*i
Step 6 :- Repeat step 5 until i<=10
Step 7 :- Print num*i until i<=10
Step 8 :- stop / End

⇒ flowchart :-



- Print odd number backward from 99 to 1.

Date ___/___/_____

Saathi

F) Print odd number backward from 99 to 1

⇒ Algorithm :-

Step 1 :- start

Step 2 :- Initilize the variable a = 99

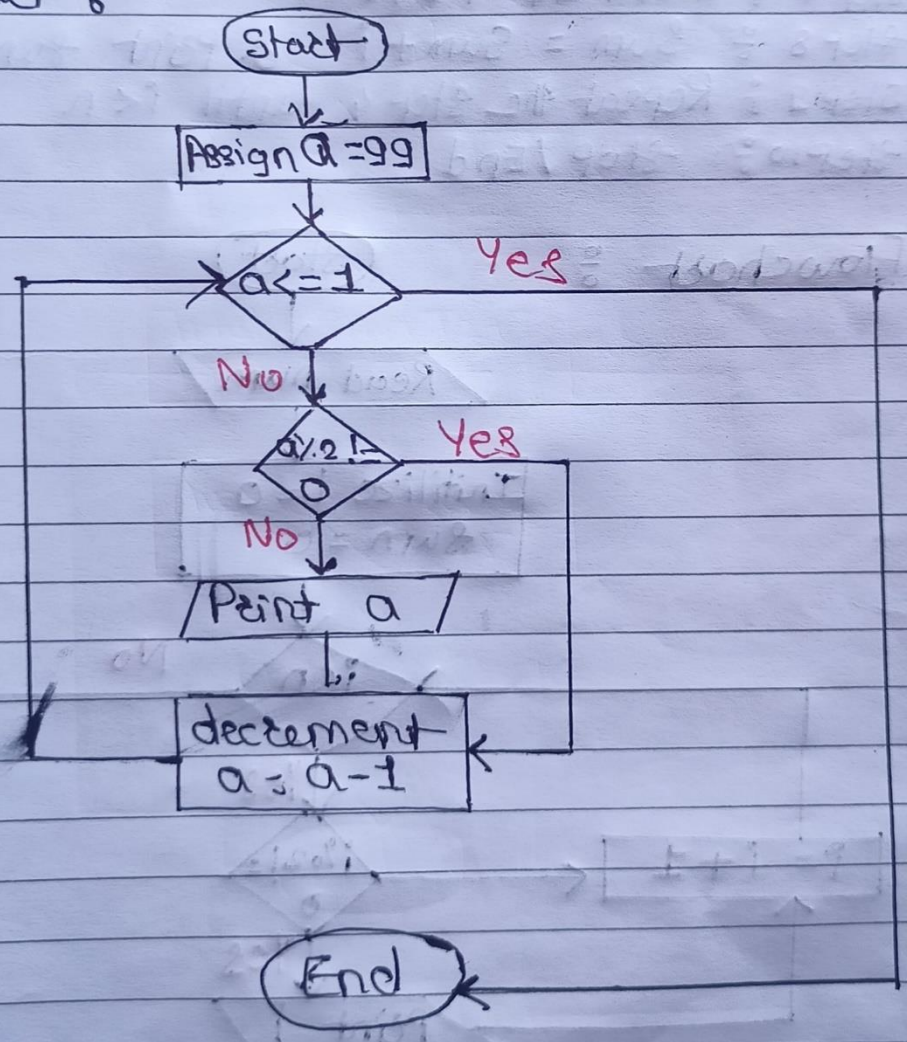
Step 3 :- while a <= 01

Step 4 :- if a%2 != = 0 → Step 5 :- Print a.

Step 5 :- decrement a = a - 1

Step 6 :- End / stop

⇒ Flowchart :-



- Check if the given number is prime or not.

MASSAGE= please explain this problem with solution in doubt session.

I am not able to build logic for this question.