

## ASSIGNMENT NO :-2

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

a) Print even numbers between 0 and 99

### ALGORITHM

Step1: start

Step2:  $i=0$

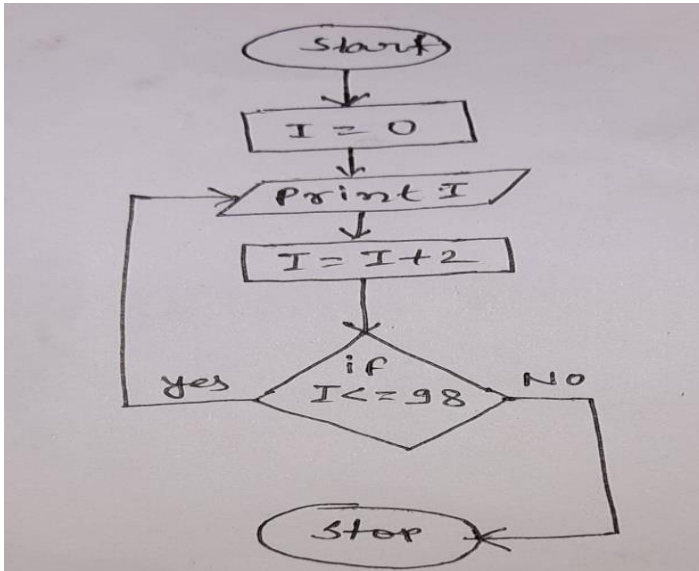
Step3: print  $i$

Step4:  $i=i+2$

Step5: if ( $i \leq 98$ ) then go to step 3

Step6: stop

### FLOWCHART



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

### ALGORITHM

Step1: start

Step2:  $a=1$  and  $sum = 0$

Step3: read  $n$

Step4: if ( $a > n$ ) then go to step 7

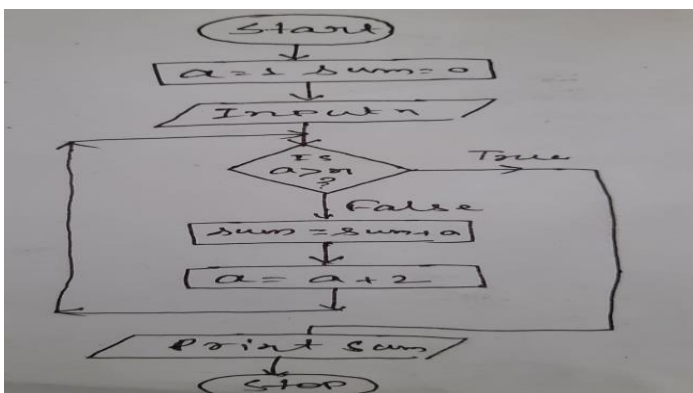
Step5:  $sum = sum + a$

Step6:  $a = a + 2$ , go to step 4

Step7: print  $sum$

Step8: stop

### FLOWCHART



c) Calculate the average of 25 test scores.

**ALGORITHM**

Step1: Start

Step2:  $I=1$  and  $N=25$

Step3:  $Sum=0$

Step4: Input the test score

Step5:  $Sum=sum+x$

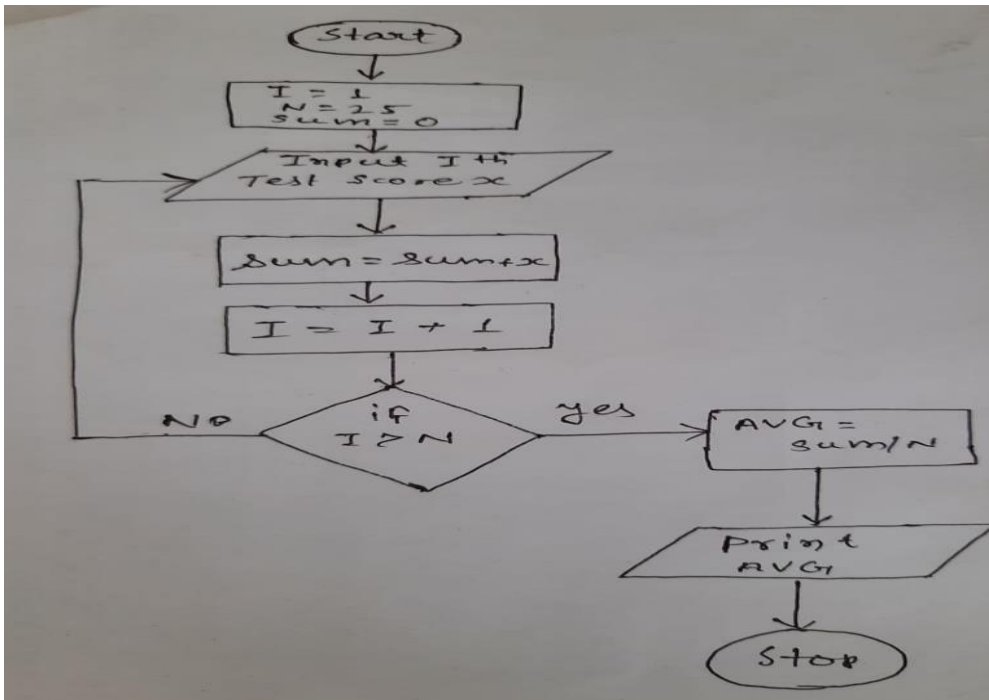
Step6: If  $i>N$  then go to step 4

Step7:  $Average = sum/N$

Step8: Print average

Step9: stop

**FLOWCHART**



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

**ALGORITHM**

Step1: start

Step2: read 7

Step3:  $i=1$

Step4: for  $i \leq 10$

Step5:  $7*1$

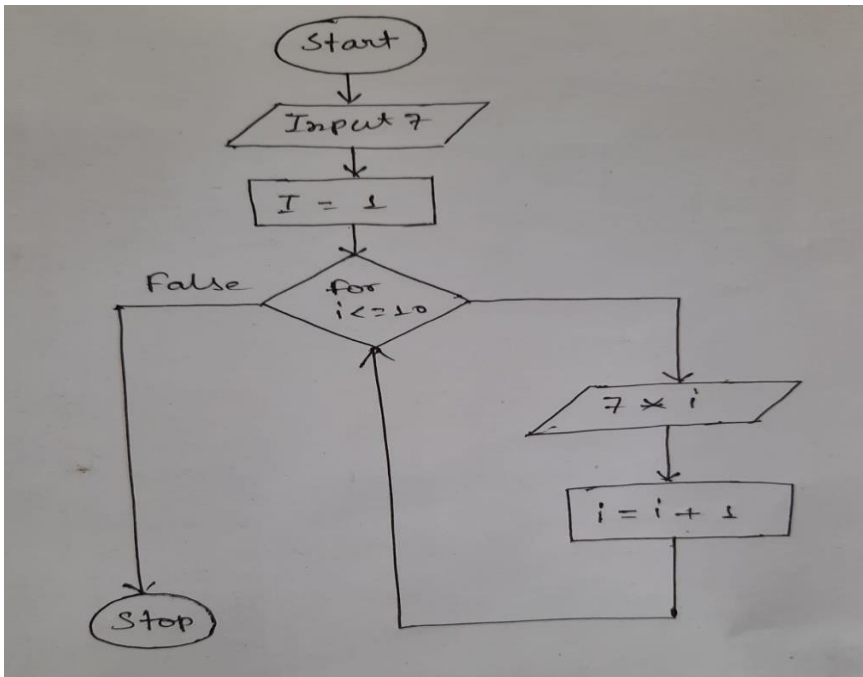
Step6:  $i=i+1$

Step7: go to step 4

Step8: print  $7*i$

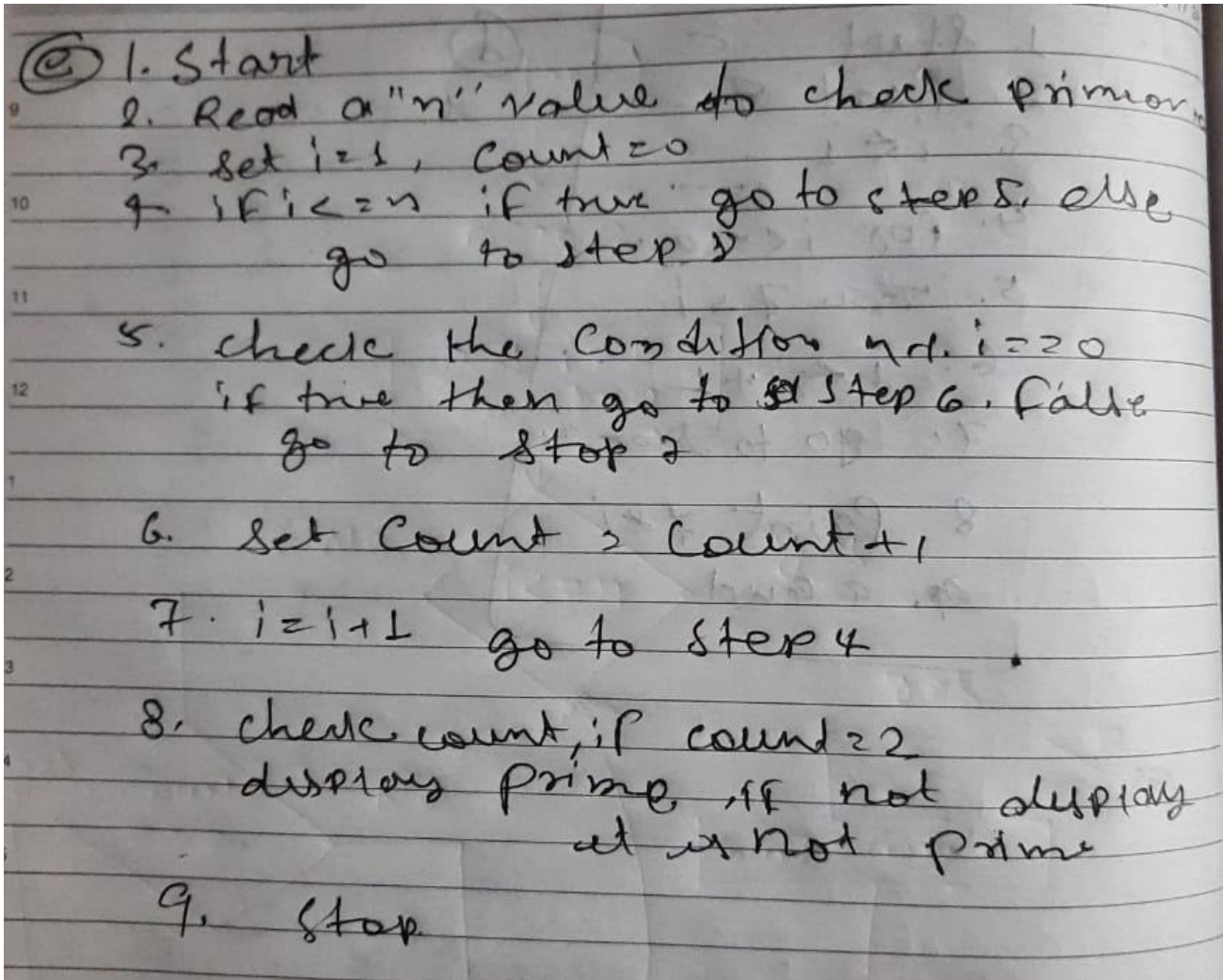
Step9: end

## FLOWCHART

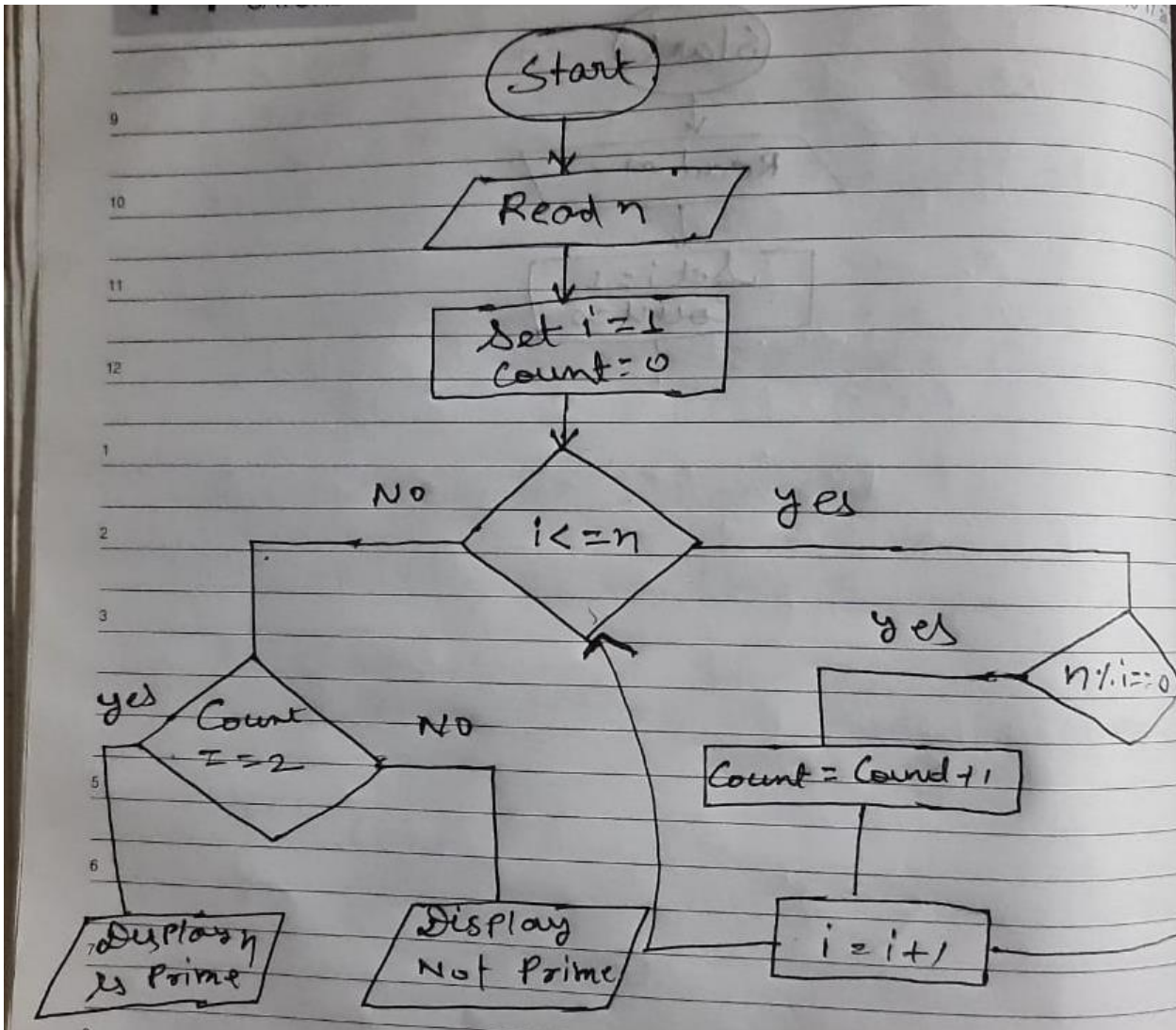


e) Check if the given number is Prime or not.

## ALGORITHM



## FLOWCHART



f) Print odd numbers backward from 99 to 1

### ALGORITHM

1. Start
2.  $i \leftarrow 99$
3. Print i
4.  $i = i - 2$
5. if  $i \geq 1$  then go to step
6. Stop

## FLOWCHART

