

Assignment :- 2

1. Algorithms & flowchart's :-

a) Print even numbers b/w 0 and 99

⇒ Algorithms :-

Step:1 Start

Step:2 $I = 0$

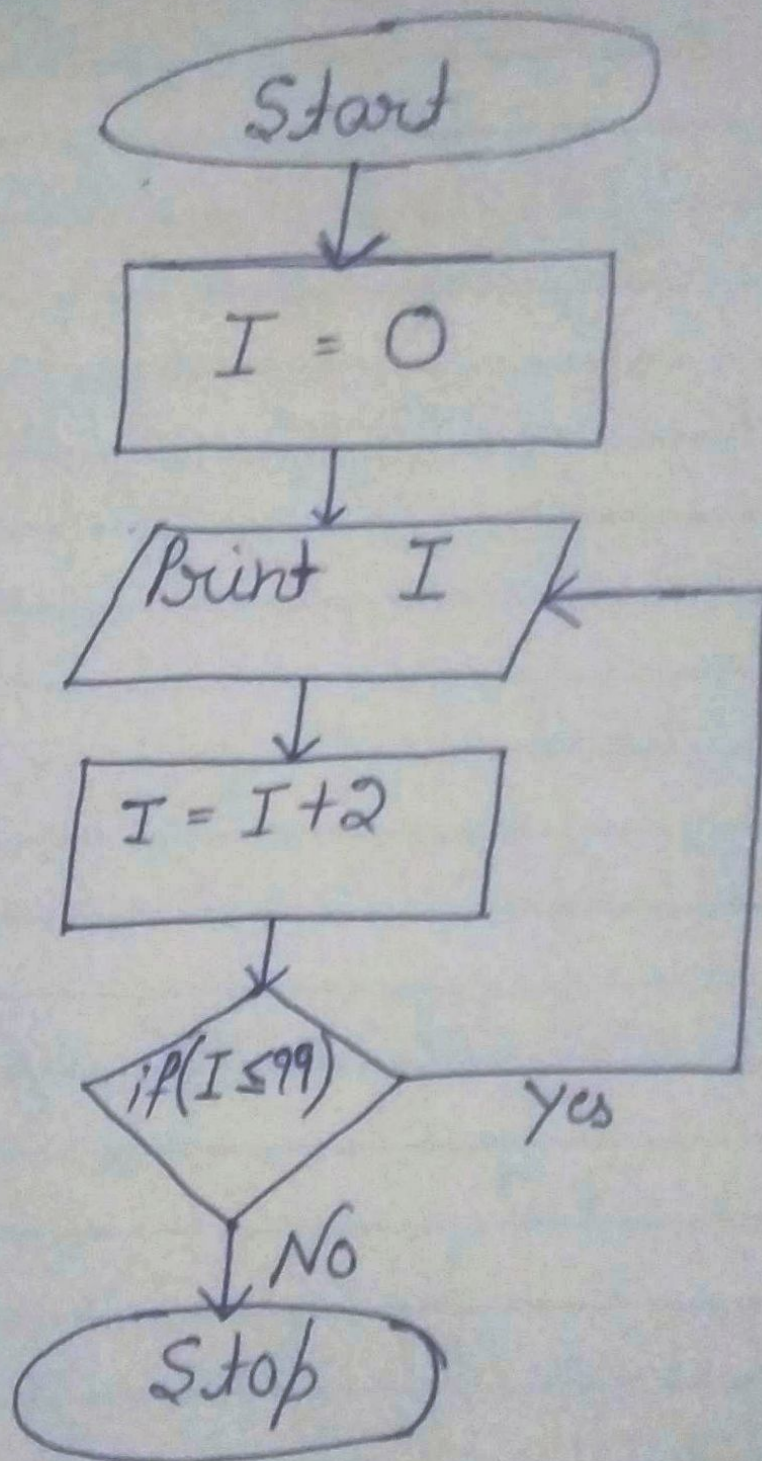
Step:3 Print the value of I

Step:4 $I = I + 2$

Step:5 If $(I \leq 99)$ then goto step 3

Step:6 End

a. Flowchart:-



b.) Print odd numbers less than a given number and calculate their Sum.

* Algorithm

Step: 1 Start

Step: 2 $I = 0, N$ (given number), $Sum = 0$

~~Step: 3 Print the value of I~~

Step: 3 if ($I < N$) otherwise goto 6

Step: 4 if ($I \% 2 \neq 0$) then
Print I 1.3

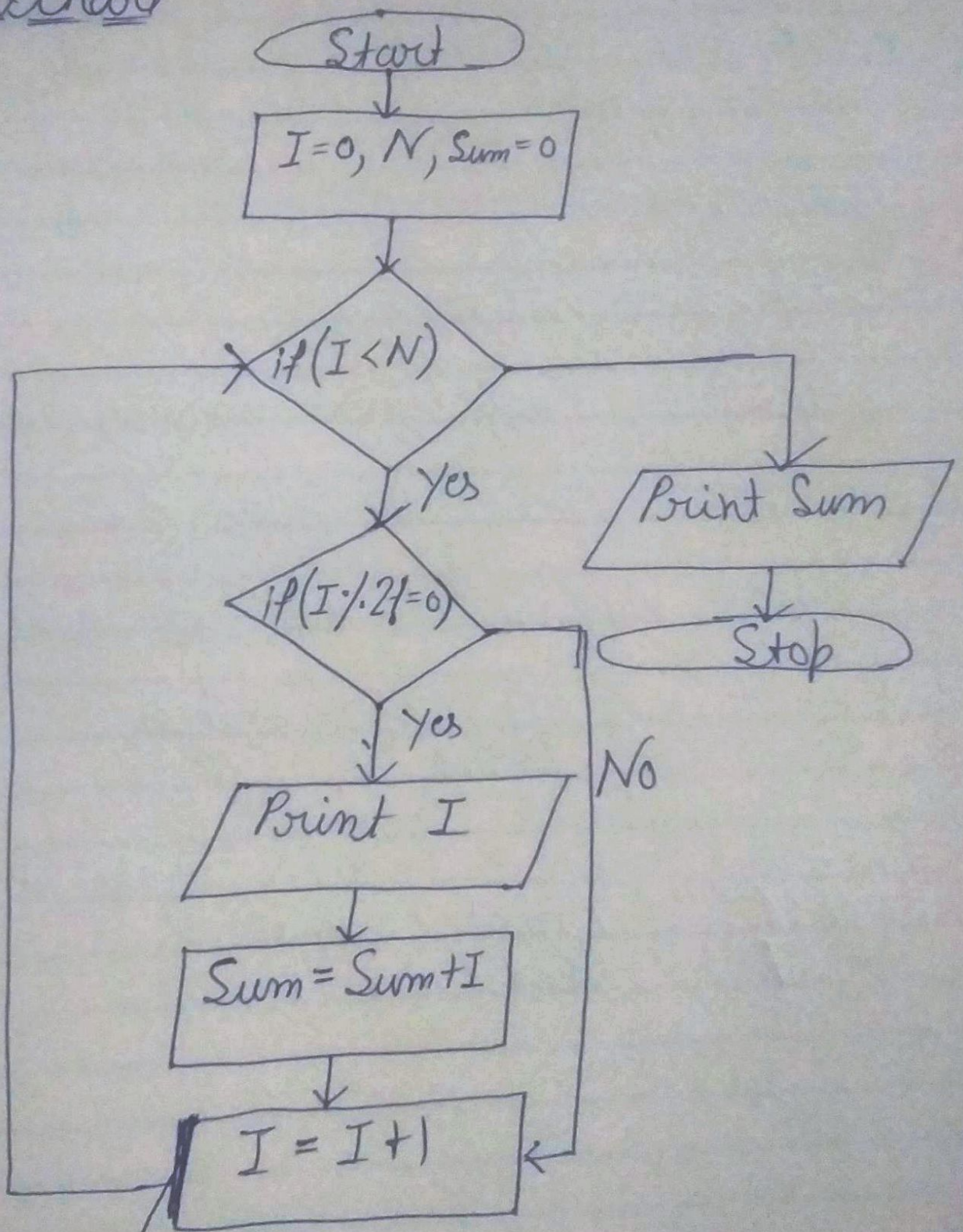
$Sum = Sum + I$ 1.4

Step: 5 Set $I = I + 1$ goto step 3

Step: 6 Print Sum

Step: 7 ~~Print~~ End

Flowchart



G. Calculate the average of 25 test scores.

* Algorithms :-

Step 1: Start

Step 2: ~~N~~ Read the numbers

Step 3: Set $Sum = 0$, $I = N$, $C = 25$, $Avg =$

Step 4: $Sum = Sum + I$

Step 5: if $(C \leq 25)$ go to step 2

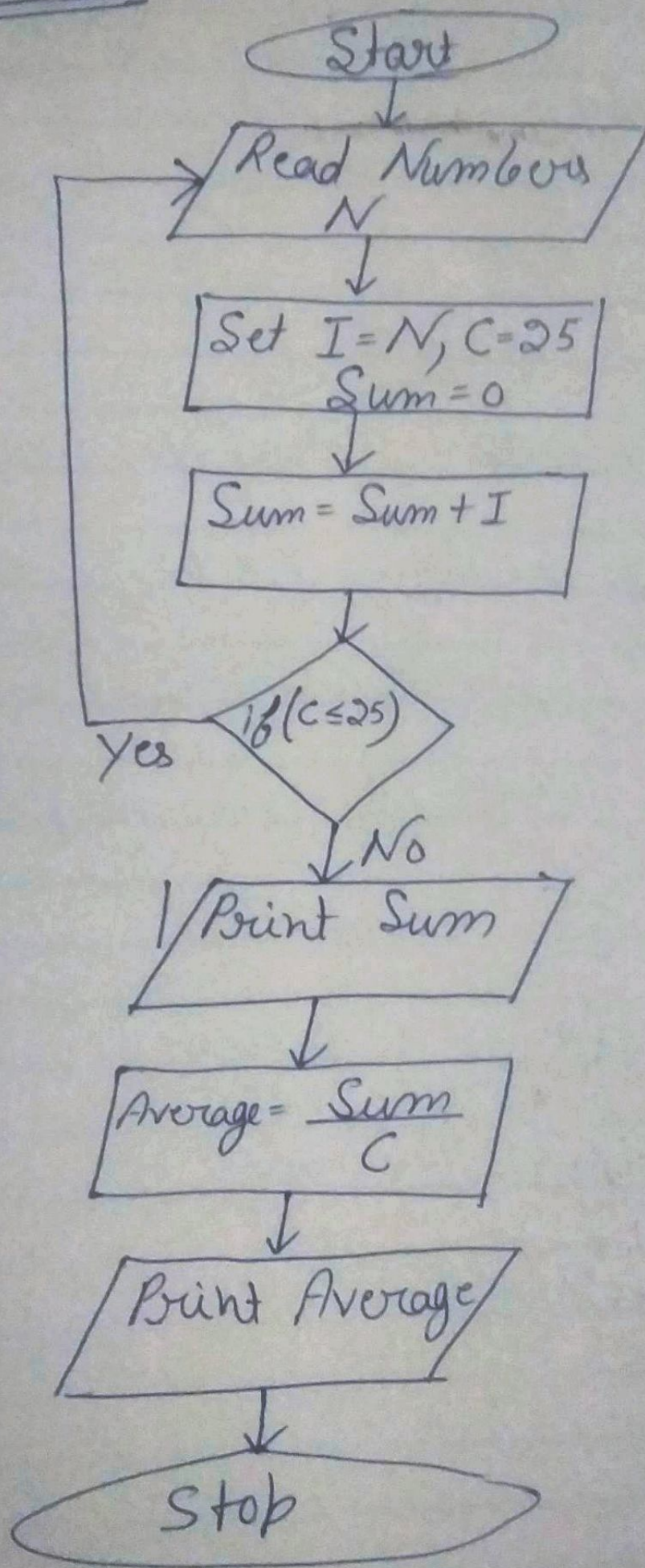
Step 6: Print Sum

Step 7: $Average = \frac{Sum}{C}$

Step 8: Print Average

Step 9: Stop

Flowchart :-



d) Print the table of any number.

* Algorithm:-

Step 1: Start

Step 2: Input I , n and T

Step 3: Put $I=1$, $n=5$ (any number)

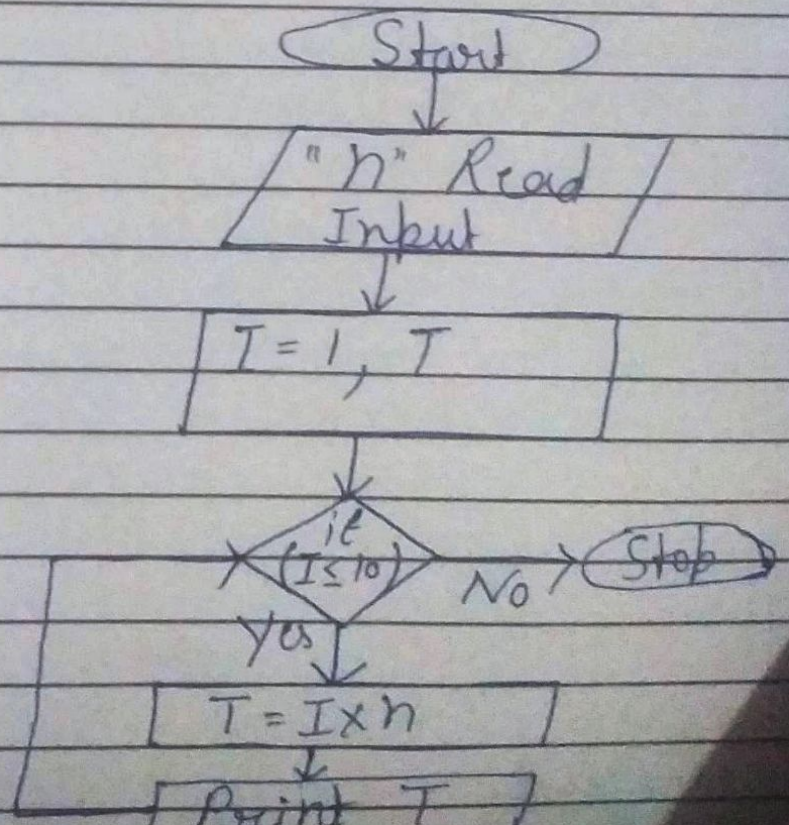
Step 4:- if $(I \leq 10)$ then

$$T = I \times n$$

Print T

Step 5: Stop

* Flowchart:-



e. Number is prime or not.

* Algorithm:-

Step 1:- Start

Step 2: Read value 'n'

Step 3:- Set $I=1$ & Count = 0

Step 4:- if ($I \leq n$) else goto Step 8

Step 5: if ($n \% I == 0$) else goto Step 4

Step 6: Set Count = Count + 1

Step 7: $I = I + 1$ goto step 4

Step 8: if (Count == 2) then

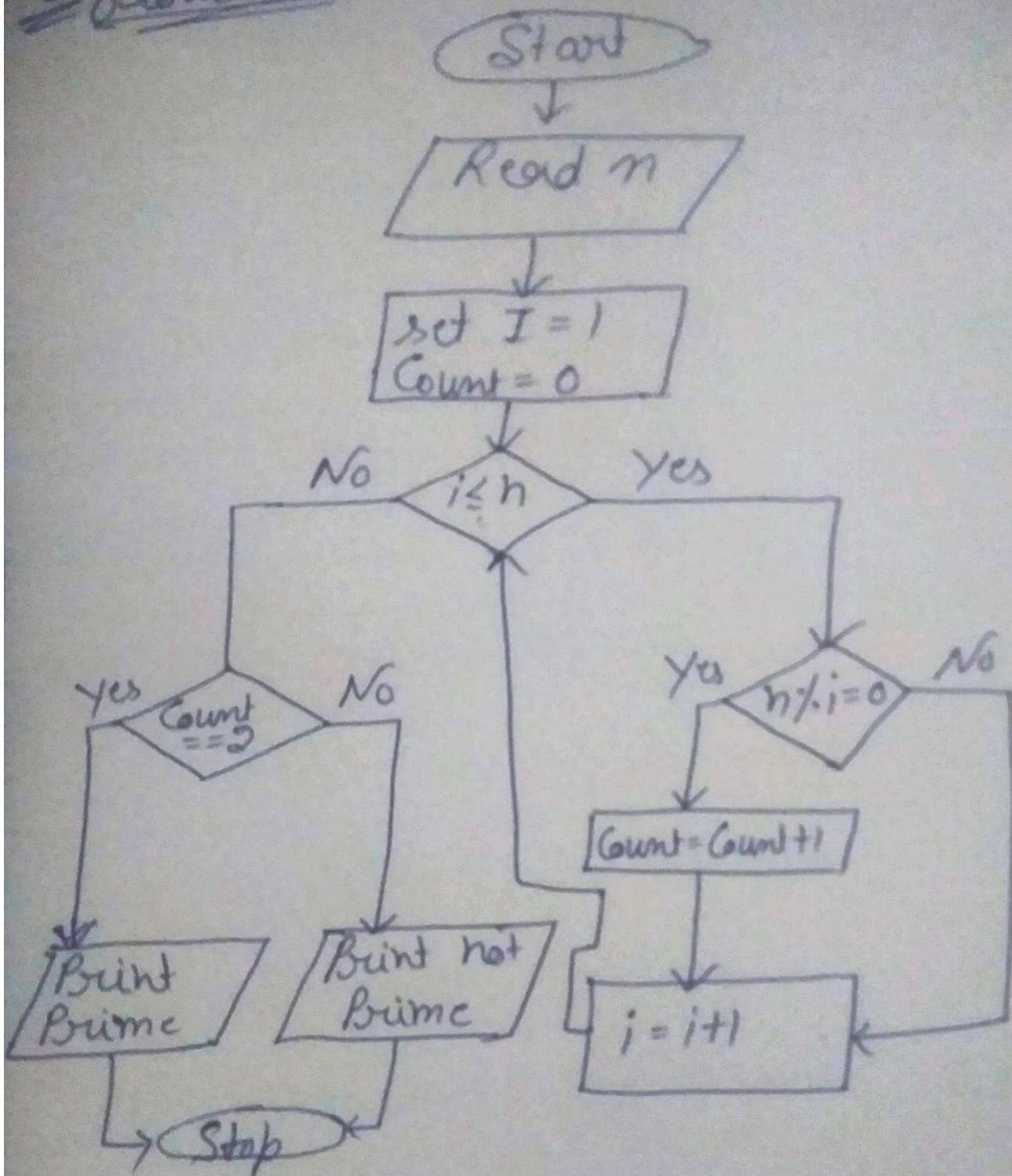
Print "number is prime"

else

Print "number is not prime"

Step 9:- Stop

C Flowchart



Q. Print odd numbers from 99 to 1

* Algorithm:-

Step:1 Start

Step:2 Set $I = 1$

Step:3 Print I

Step:4 $I = I + 2$

Step:5 if ($I \leq 99$) goto step 3
else goto step 6

Step:6 Stop.

Flowchart

