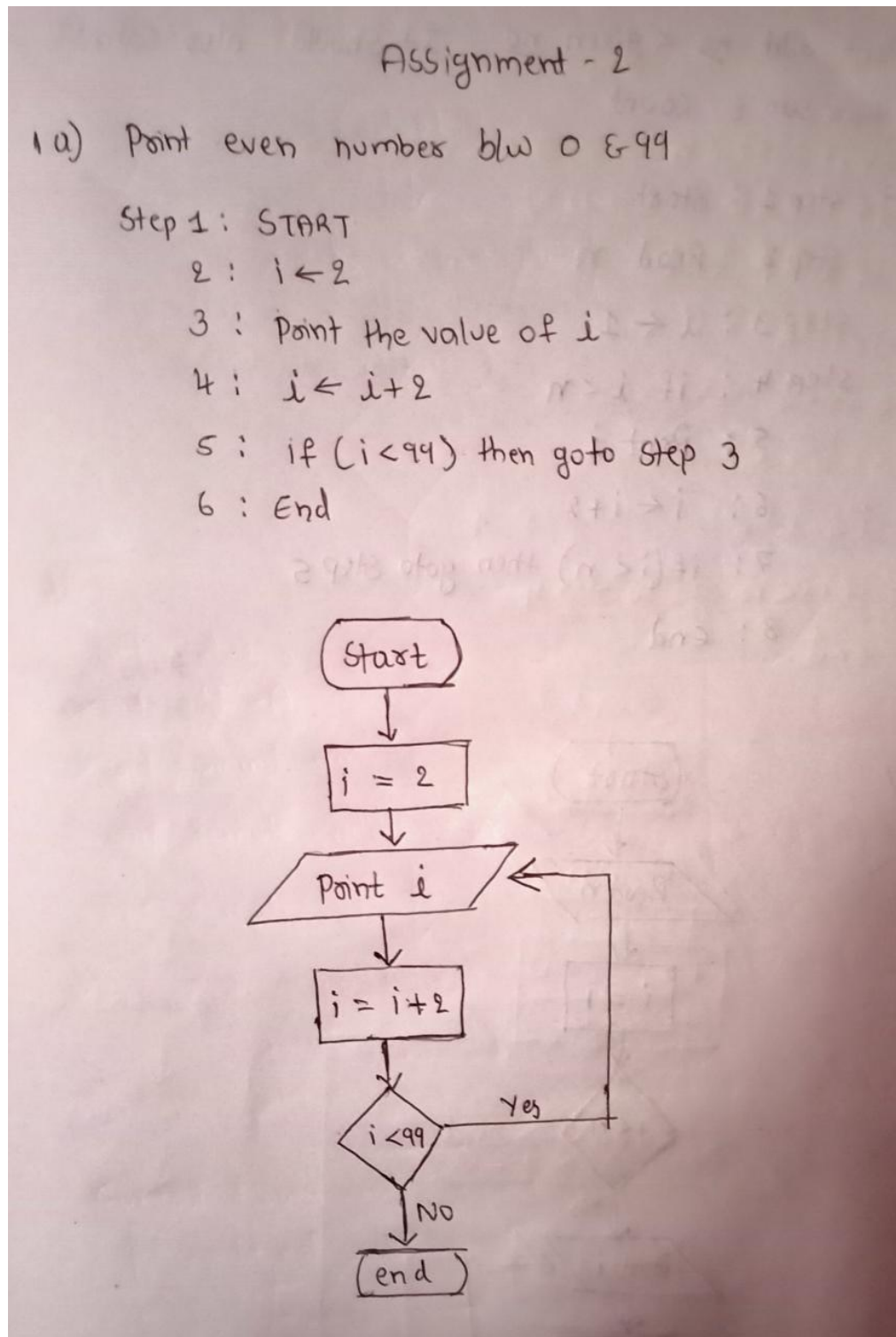Try to create flow chart with conditions (wherever applicable)

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

a) Print even numbers between 0 and 99

Assignment - 2

1 a) Print even number blw 0 & 99

Step 1 : START

2 : $i \leftarrow 2$

3 : Print the value of i

4 : $i \leftarrow i + 2$

5 : if $(i < 99)$ then goto step 3

6 : End

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

1] b) Print odd no < given no. It should also calculate
their sum & count

Step 1: Start , Read n
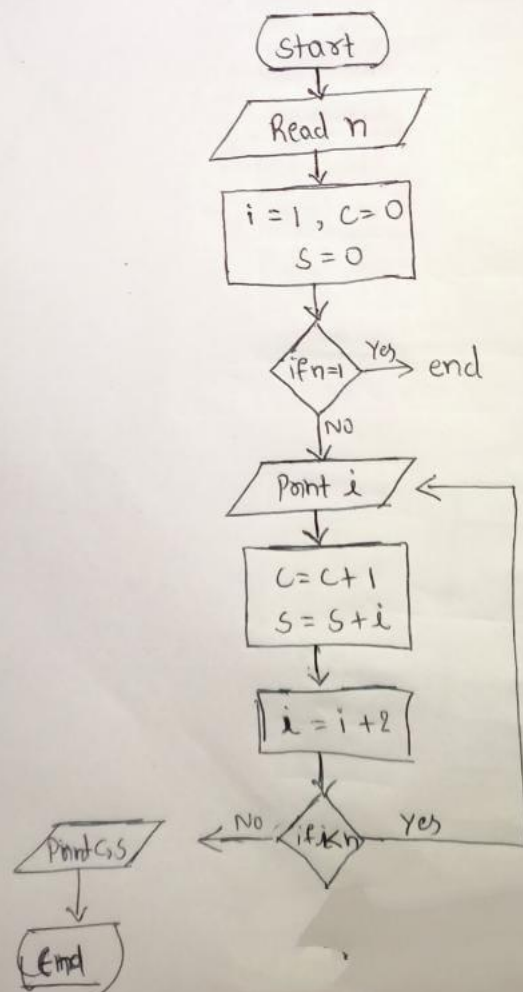2: i ← 1, C ← 0, S ← 0
3: if n = 1, end
4: else print i
5: C = C + 1
6: S = S + i
7: i ← i + 2
8: if i < n go to Step 4
9: Print C, S
10: end

c) Calculate the average of 25 test scores.

1]

c] Calculate the average of 25 Test Scores

Step 1: Start
2: N←25 , i←1, S←0
3: Read X Marks
4: S = S + X
5: i = i + 1
6: if i > N go to step 7, else to step 3
7: Avg = $\frac{S}{N}$

8: Print Avg
9: Stop

Start

N = 25
i = 1
S = 0

Read marks X

S = S + X

i = i + 1

if i > N   NO

Yes

Avg = $\frac{S}{N}$

Print Avg

End
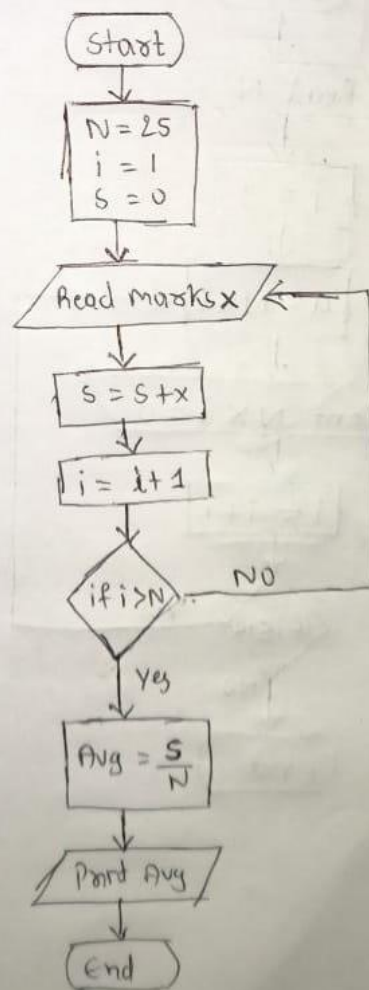
d) Print table of any number N

I) d) Print table of N

Step 1: Start
2: Read the table no N
3: i ← 1
4: a ← N * i
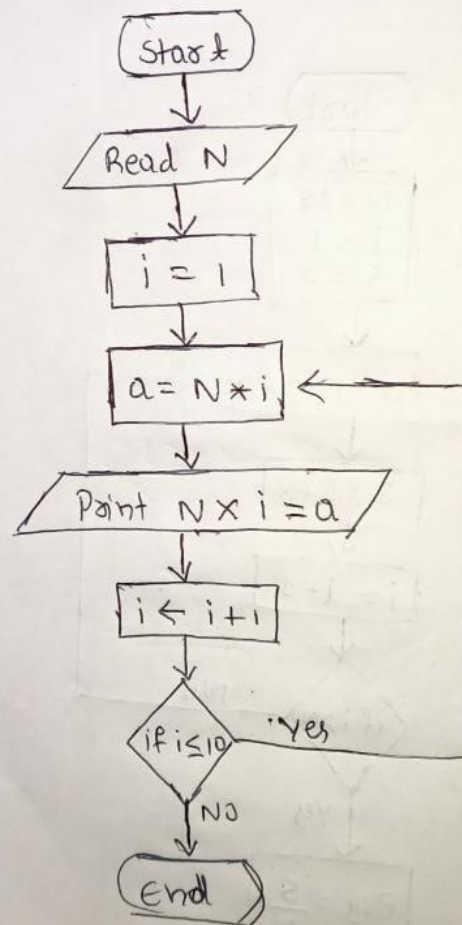5: Print N x i = a
6: i ← i+1
7: if i ≤ 10 goto Step 4
8: End

```
        ( Start )
            ↓
       / Read N /
            ↓
        [ i = 1 ]
            ↓
     [ a = N*i ] ←──────┐
            ↓           │
   / Print N x i = a /  │
            ↓           │
       [ i ← i+i ]      │
            ↓           │
       < if i≤10 > ─yes─┘
            ↓ No
         ( End )
```

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

1] e) check if the given no is prime or not

step 1: start
   2: Read N
   3: $i \leftarrow 1$ $c \leftarrow 0$
   4: if $i <= N$, if not go to step 8
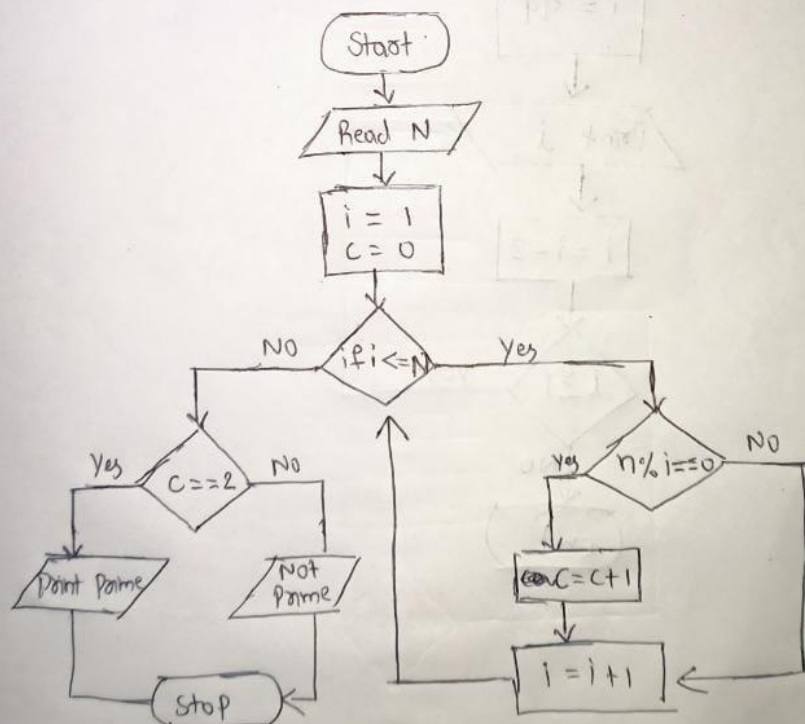   5: if $n\% i == 0$
   6: $c \leftarrow c+1$
   7: $i \leftarrow i+1$ go to step 4
   8: if $c = 2$, if not print not prime
   9: Print Prime
   10: stop

f) Print odd numbers backward from 99 to 1

I) f) Print odd no backward from 99 to 1

Step 1: Start
    2 : $i \leftarrow 99$
    3 : Print i
    4 : $i \leftarrow i - 2$
    5 : if $i \geq 1$ go to step 3 else step 6
    6 : End

Start

$i = 99$

Print i

$i = i - 2$

$i \geq 1$ yes

NO

End