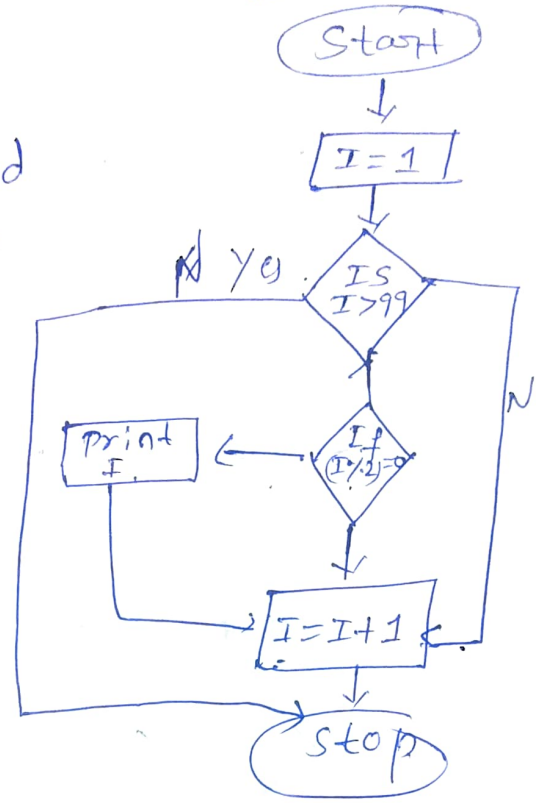
Assignment - 2

a). Print even number between 0 to 99.

Algorithm

1). start
2) I = 1
3). If (I > 99) then end
4) If (I % 2) = 0 then
   Display I.
5). I = I + 1
6). Go to step 3.
7) stop.

Flowchart

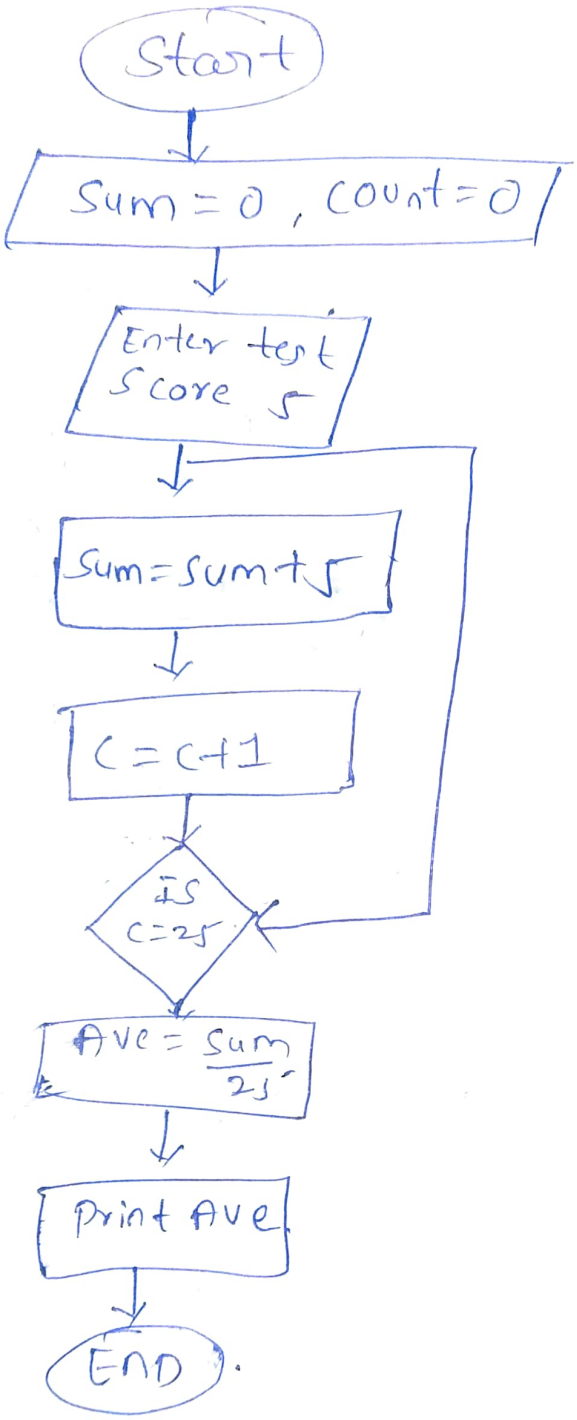


② calculate the average of 25 test scores.

Algorithm

Step 1 : start.
2 - Declare sum=0. count=0.
3. enter the test score.
4. sum ← sum + s
5. C ← C+1.
6. If C ← 25 NO - goto step 3.
   yes.
7. AVE = sum/25.
8. print AVE.
9. End.

flow chart.

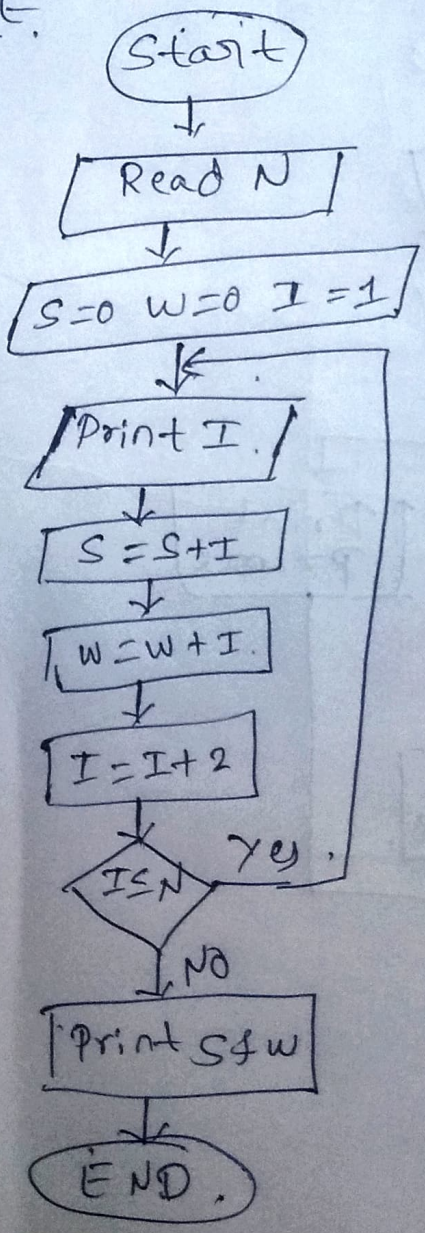

Start
Sum = 0 , count = 0
Enter test Score s
Sum = sum + s
C = C + 1
IS C = 25
Ave = Sum / 25
Print Ave
END

(3) Print odd number less than a given number. It should also calculate their sum & count.

Algorithm:

Step 1: Start.
2 - Read N
3. - declare I ← 0 W ← 0, I ← 1
4 - print I.
5 - S ← S + I
6 - W ← W + 1
7. - I ← I + 2.
8 - check I ≤ N. goto step 4.
9 - print S W
10. End.

flow chart.

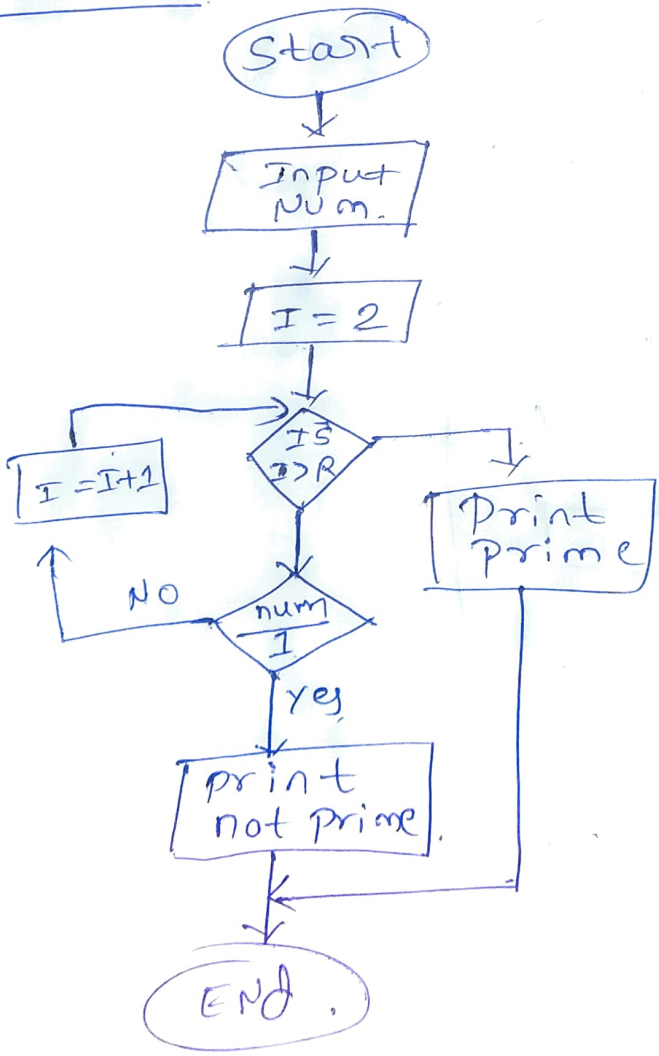


⑤ Check If given number prime or not.

Algorithm:

1. start
2. Input, Num
3. R = SQRT(Num).
4. — I = 2.
5. If (I > R) then
   Print "num is prime number"
6. If (num % I = 0)
   Print "number is not prime.
7. I = I + 1
8. go to step 5.
9. END.

flowchart

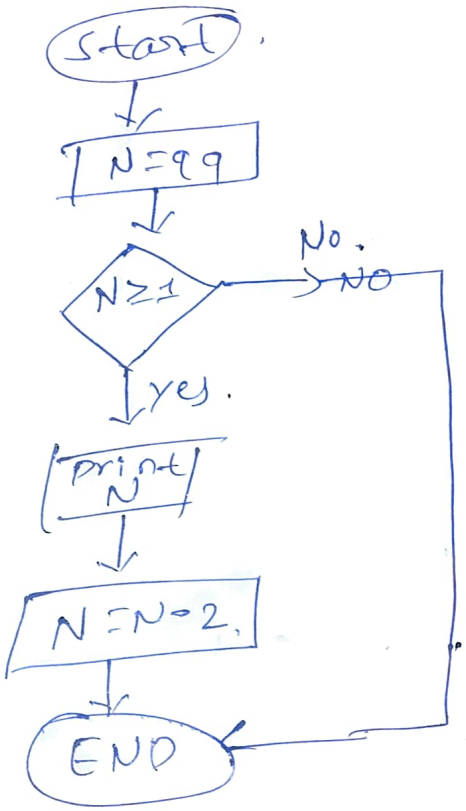


⑤ Print odd number backward 99 to 0.

Algorithm :

step 1 = start.
2 = N=99
3 = N≥1 (No then go to 6).
4 = print N.
5 = N=N-2 then go to step3.
6) = END.

flowchart :



⑥. print table of a number.

Algorithm

step 1 - start.

2 - Input value of num.

3 - I = 1.

4 - If (I > 10) then go to step 9.

5 - p = NUM x I.

6 - print p.

7 - I = I + 1

8 → Go to step 4.

9. → stop.

flowchart.