aggarwal.abhishek15 (Guest) 15-03 10:15 pm

Assignment 2

Mar22 Web Fundamentals

- 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
b) Print odd numbers less than a given number. It should also calculate their sum and count
c) Calculate the average of 25 test scores.
d) Print table of any number N (say 7)
e) Check if the given number is Prime or not.
f) Print odd numbers backward from 99 to 1

See less

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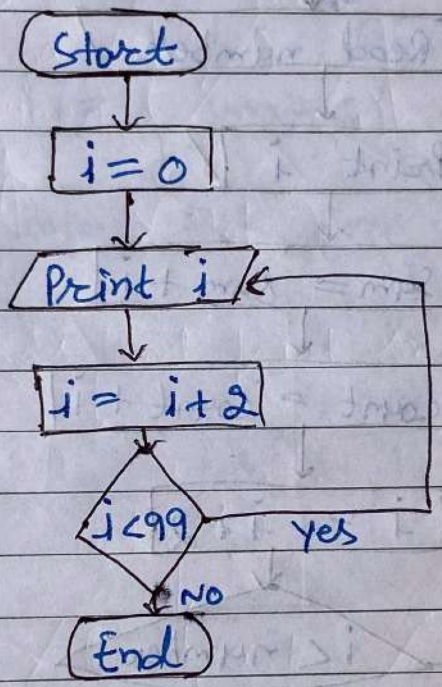
a). Print even numbers between 0 and 99.

Ans). Step 1 :- Start
Step 2 :- i ← 0
Step 3 :- Print the value of i
Step 4 :- i ← i+2
Step 5 :- if (i < 99) then goto Step 3
Step 6 :- End

Flowchart



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

Ans). Step 1 → Start
Step 2 → i ← 1, count = 0 sum = 0
Step 3 → Read number
Step 4 → Print the value of i
Step 5 → sum = sum + i
Step 6 → count = count + i
Step 7 → i ← i+2

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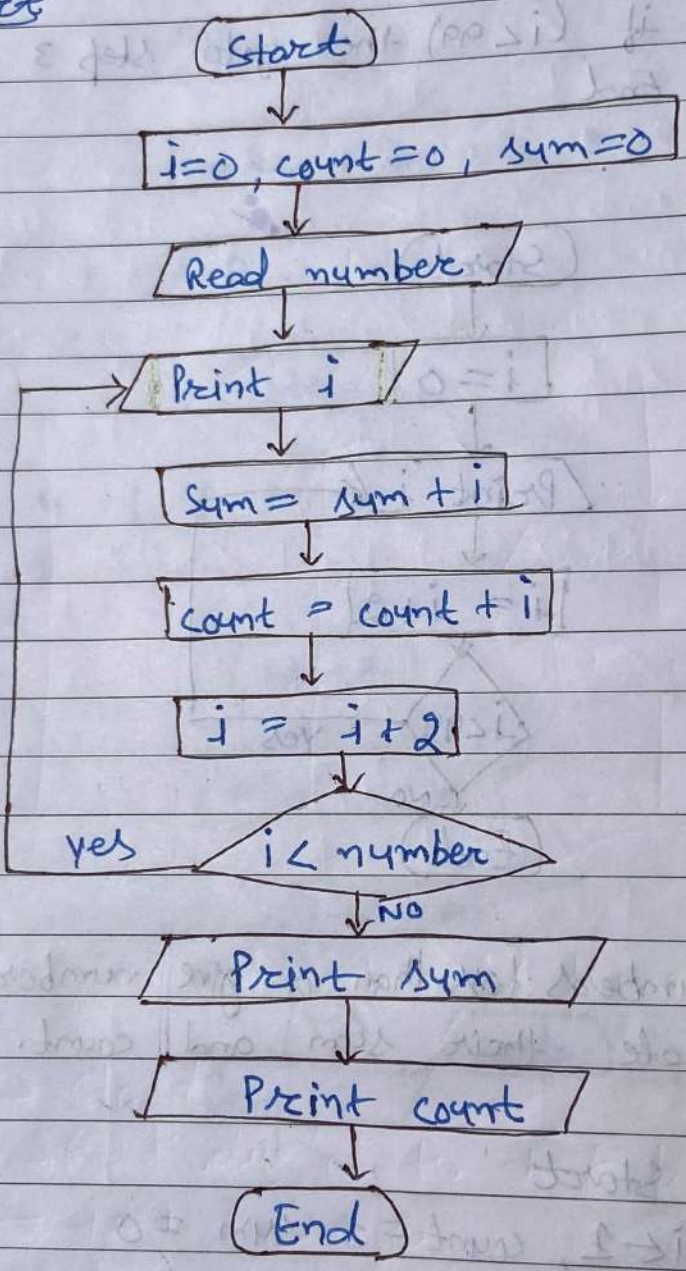
Step 8 → if (i < number) then go to step 4
Step 9 → Print sum
Step 10 → Print count
Step 11 → End

Flowchart



c.). Calculate the average of 25 test scores.

Ans). Step 1 → start
Step 2 → i←1, sum=0

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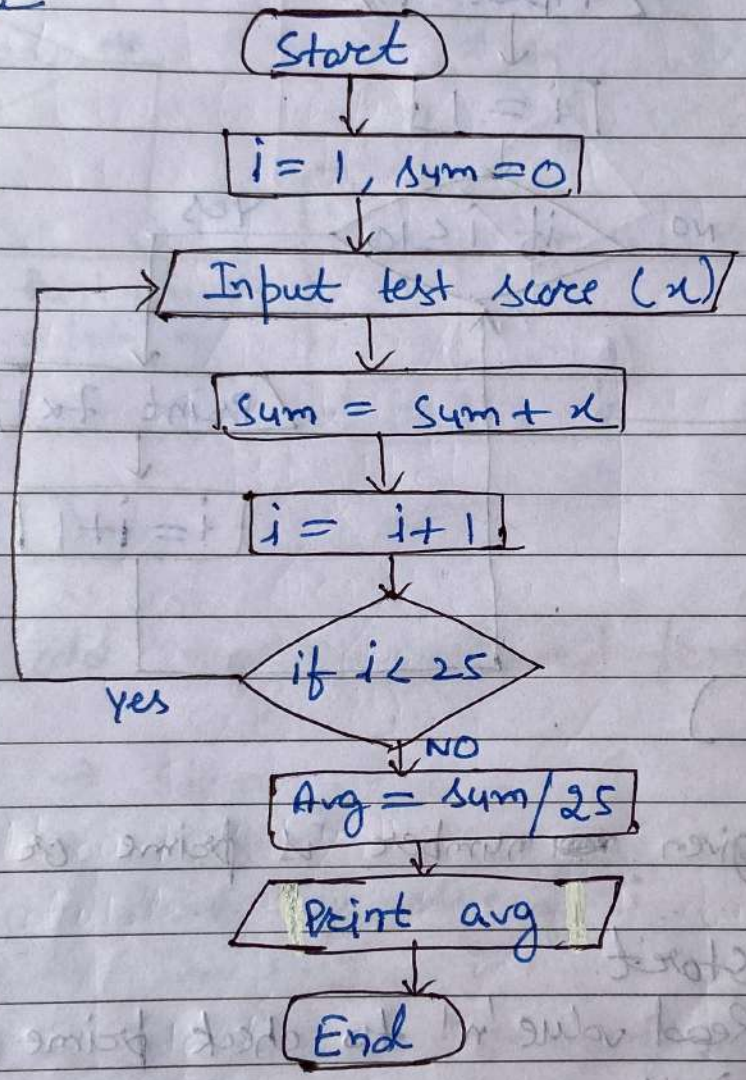
Step 3 → Input test score, (x)
Step 4 → sum = sum + x
Step 5 → i = i + 1
Step 6 → if (i < 25) then go to step 3
Step 7 → avg = sum/25
Step 8 → Print the value of avg
Step 9 → End

Flowchart



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

Ans). Step1 → Start
Step 2 → Input the number for which multiplication table is gen
Step 3 → i = 1

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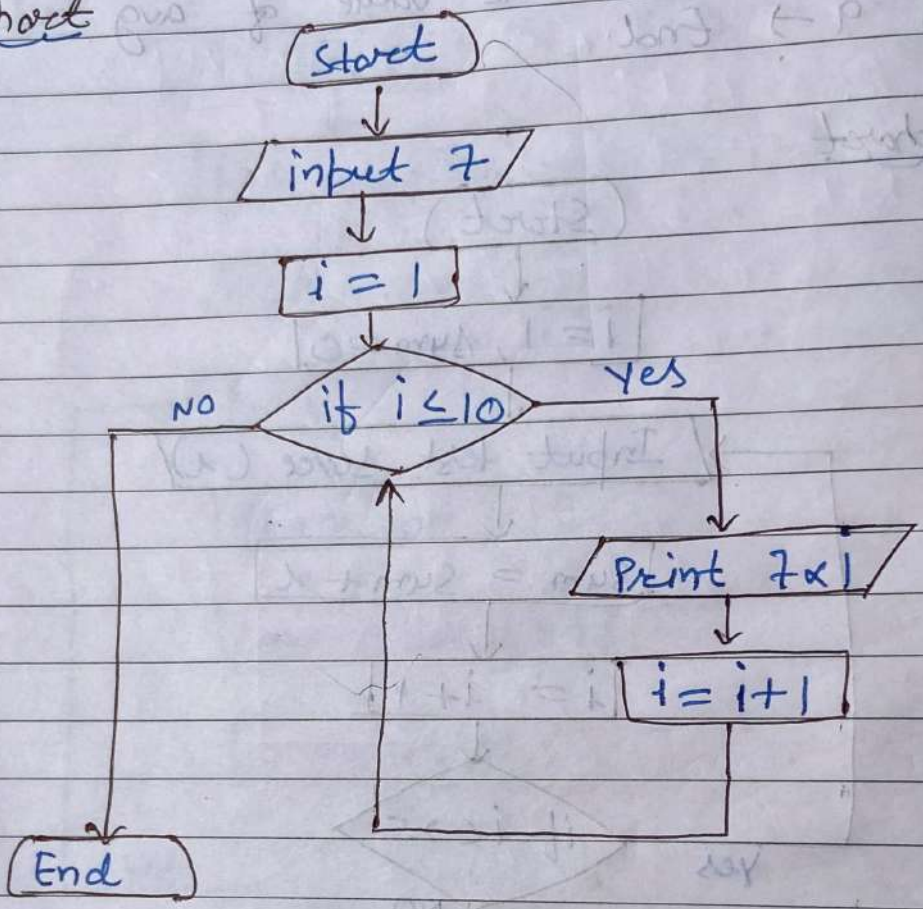
step 4 → Print number * i
step 5 → i = i+1
step 6 → if i ≤ 10 then go to step 4
step 7 → End

Flowchart



e). check if given number is prime or not.

ans). step 1 → Start
step 2 → Read value 'n' to check prime or not.
step 3 → i=1, count 0
step 4 → if ≤ n, if True, go to step 5 else step 8
step 5 → check condition n%i==0 if true step 6 else step
step 6 → count = count + 1
step 7 → i = i+1, go to step 4
step 8 → check count, if count==2, Print it is Prime else not prime.
step 9 → End

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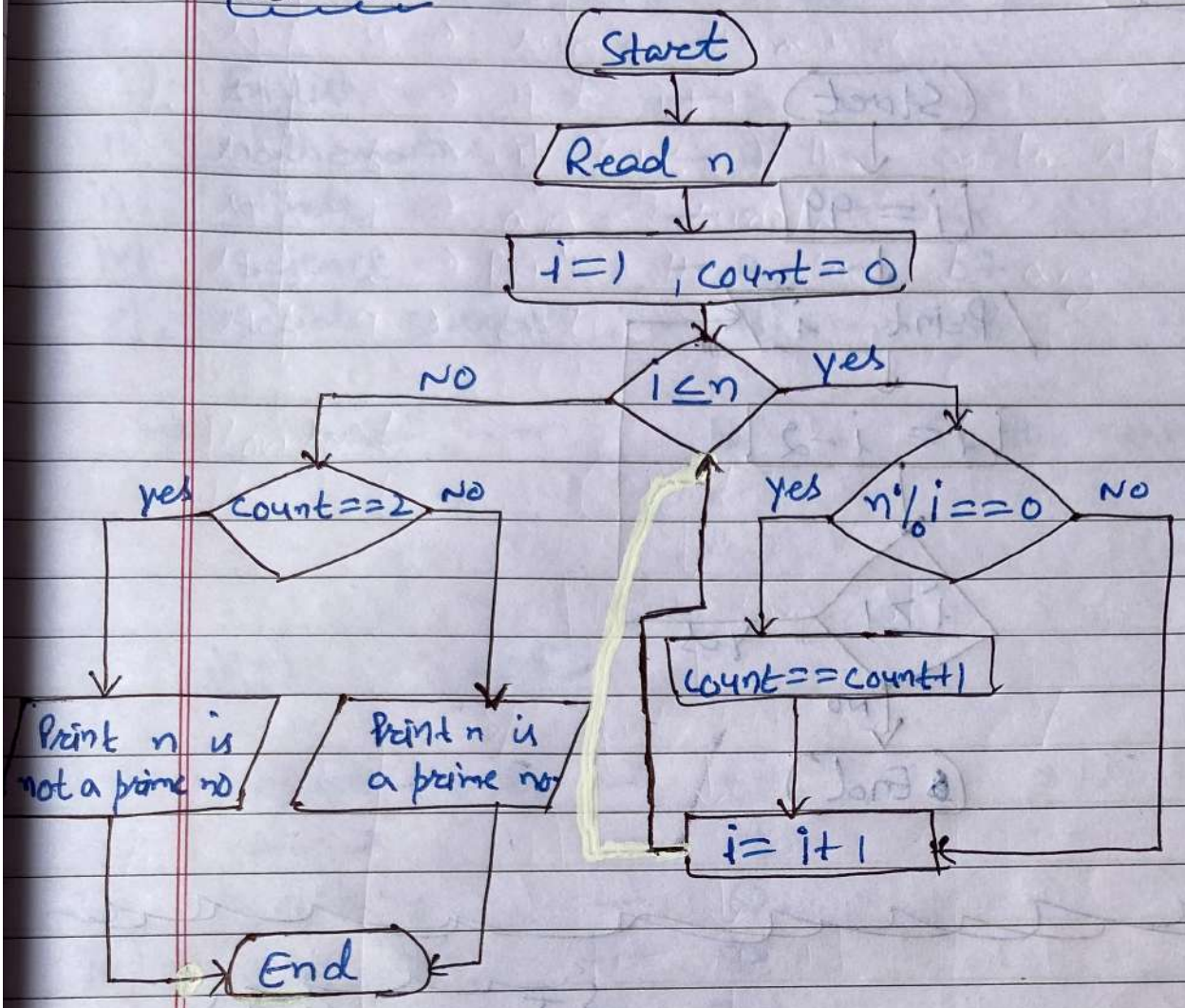
Flowchart



f). Print odd numbers backword from 99 to 1.

Ans). Step 1 → Start
Step 2 → i = 99
Step 3 → Print the value of i
Step 4 → i ← i-2
Step 5 → if (i <= 1) then go to Step 3
Step 6 → End

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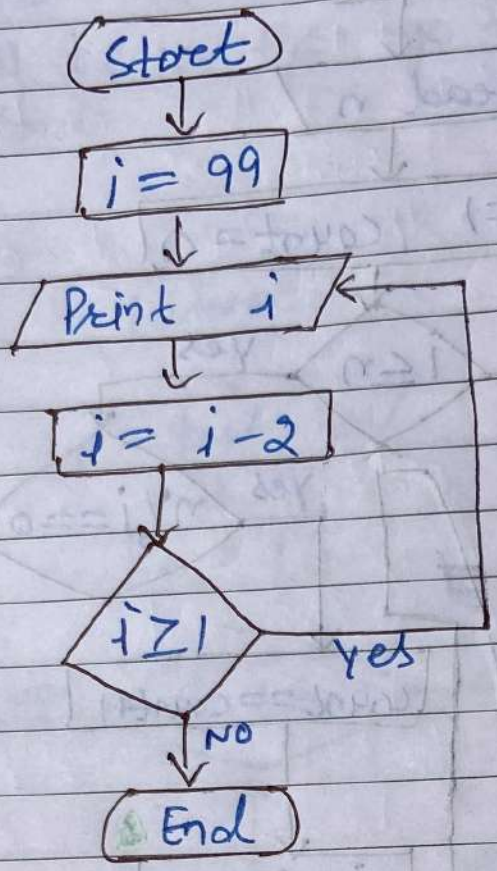
Flowchart



Jasveer Singh