1) **Sorting an Array** Write pseudocode to implement a bubble sort algorithm to arrange a list of integers in ascending order.
   Step1: Initialize an array with the integers that need to be get sorted.
   Step2: Use an outer for loop for traversing the entire array.
   Step3:Use an inner for loop to perform comparison between adjacent elements.
   Step4:The swapping should be done if one element is greater than other.
   Step5:Once the traversing completes.We will get an array of sorted elements.

2) **The Largest Number Write pseudocode to find the largest number in an array of integers.**
   Step1: Initialize an array with the integers.Also initialize variable largest to another array with size 0.
   Step 2:Everytime comparison happens between the current number and largest and each time update the largest value to other array if the current number is greater.
   Step3: The end result will give the largest number.

3) **Check for Palindrome Write pseudocode to check whether a given string is a palindrome.**
   Step1:Initialize an input string.
   Step2:Also initialize a variable reversed to store the reversed string.
   Step3:If both input string and reversed string are same..Return True.
   Step 4:Else return False.

4) **Prime Number Verification Write pseudocode to determine whether a given number is a prime number.**
   Step1: Provide a number 7 to check.Since the number is greater than 1 we proceed.
   Step2: □ We loop through numbers from 2 to 6.
   Step3:Since no divisors were found, 7 is a prime number, and we return True.

5) **Fibonacci Series Write pseudocode to generate the first N terms of the Fibonacci series**
   Step1:Read the number of terms.
   Step2:Initialize a=0,b=1.
   Step 3:print a and calculate the next term as a+b,then update a and b for next iteration.

6) **Basic Calculator Write pseudocode to implement a calculator that performs addition, subtraction, multiplication, and division based on user input.**

Step1: Begin the program.
Step2:Get the two numbers from user
Step3:Get the operator (addition, subtraction, multiplication, or division) from the user.
Step4:Carry out the chosen arithmetic operation (add, subtract, multiply, or divide) using the two numbers.
Step5:Show the result of the calculation and end the program.

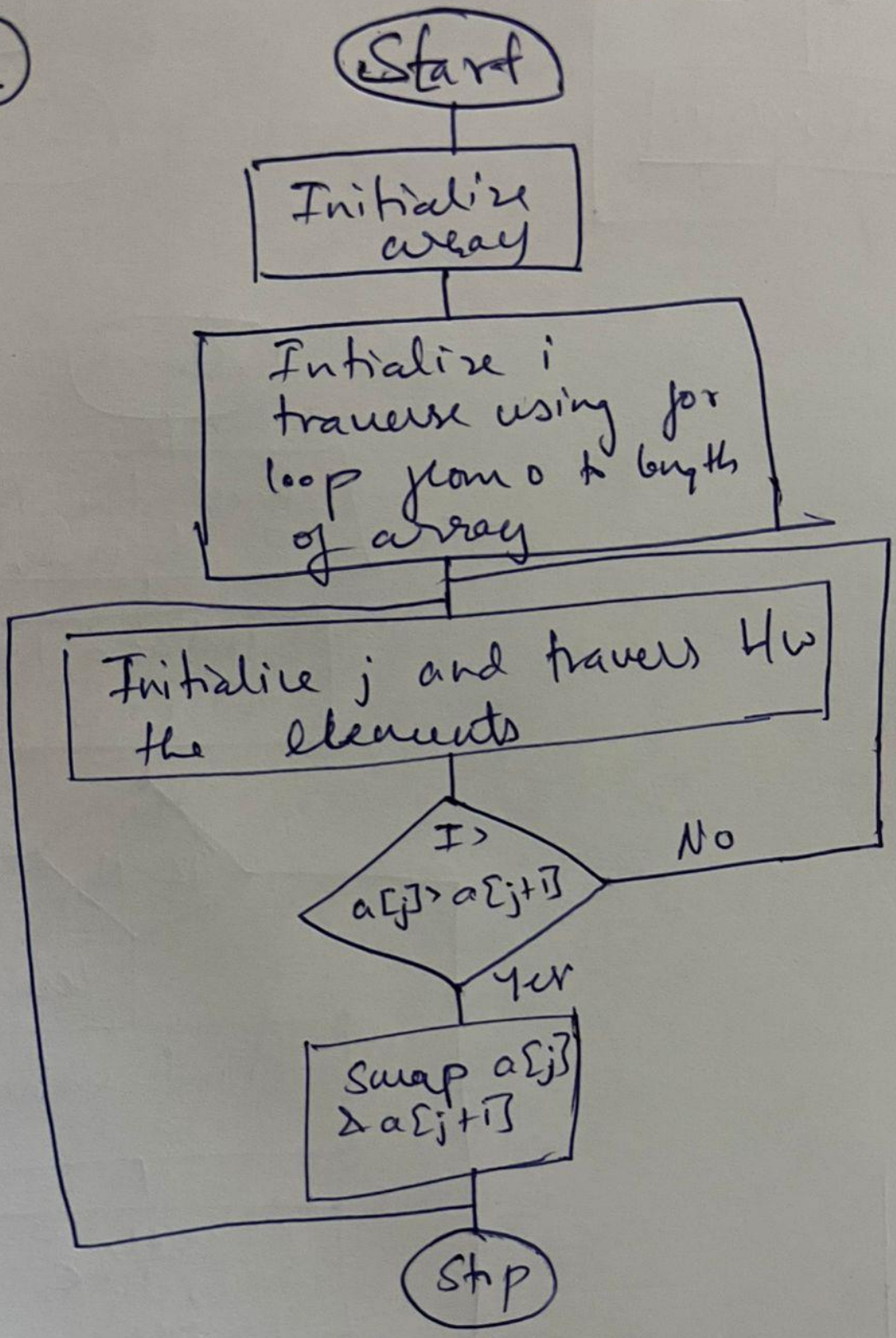
7) **Factorial Calculation Write pseudocode to compute the factorial of a given number using recursion.**

Step1:Define a function factorial(n).
Step2:Check whether n=0 and return 1 since factorial(0) is 1.
Step3: If n is not equal to 0, then the function calls itself with n - 1 and multiplies the result by n.
Step4:End the function.

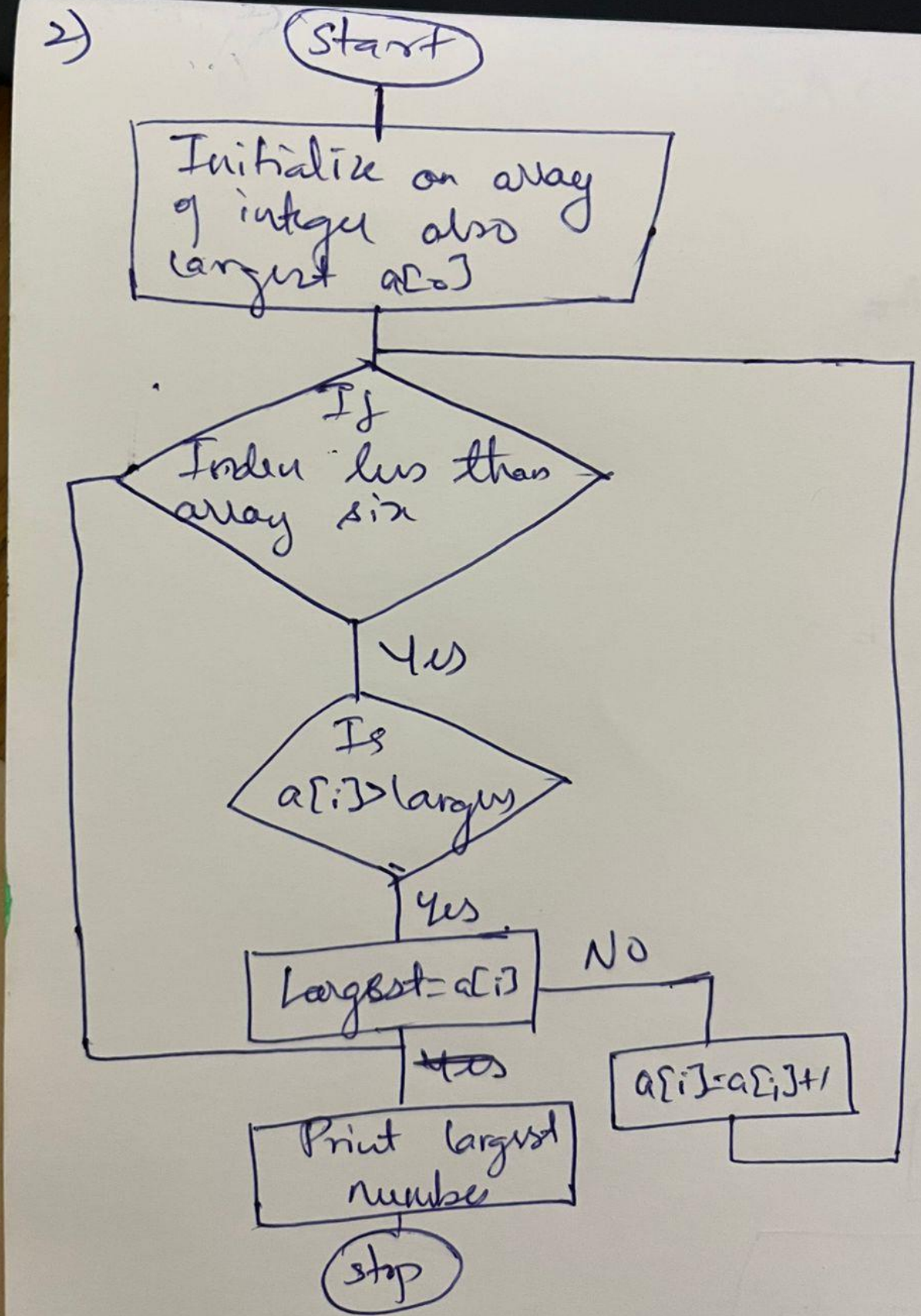
8) **Count Vowels in a String Write pseudocode to count the number of vowels in a given string.**

Step1:Initialize a particular string,count variable.
Step2:Declare the array of vowels.
Step3:perfrom iteration with the help of for and if element of string is present in the particular string.Increment the count.
Step4:Display the value of count

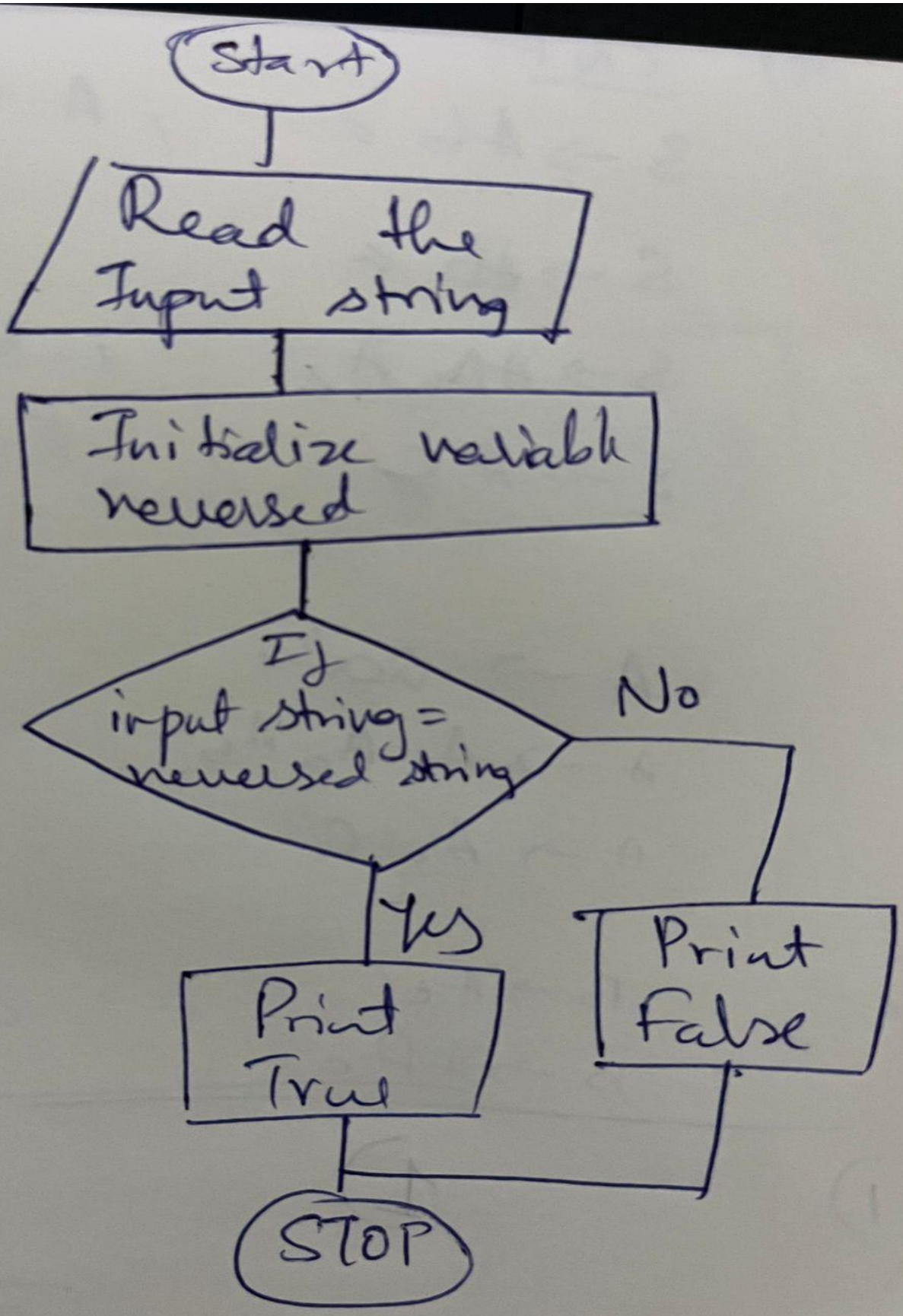
1)


Start
Initialize array
Initialize i traverse using for loop from 0 to length of array
Initialize j and traverse thr the elements
I>
a[j]>a[j+1]
No
Yes
Swap a[j] & a[j+1]
Stop

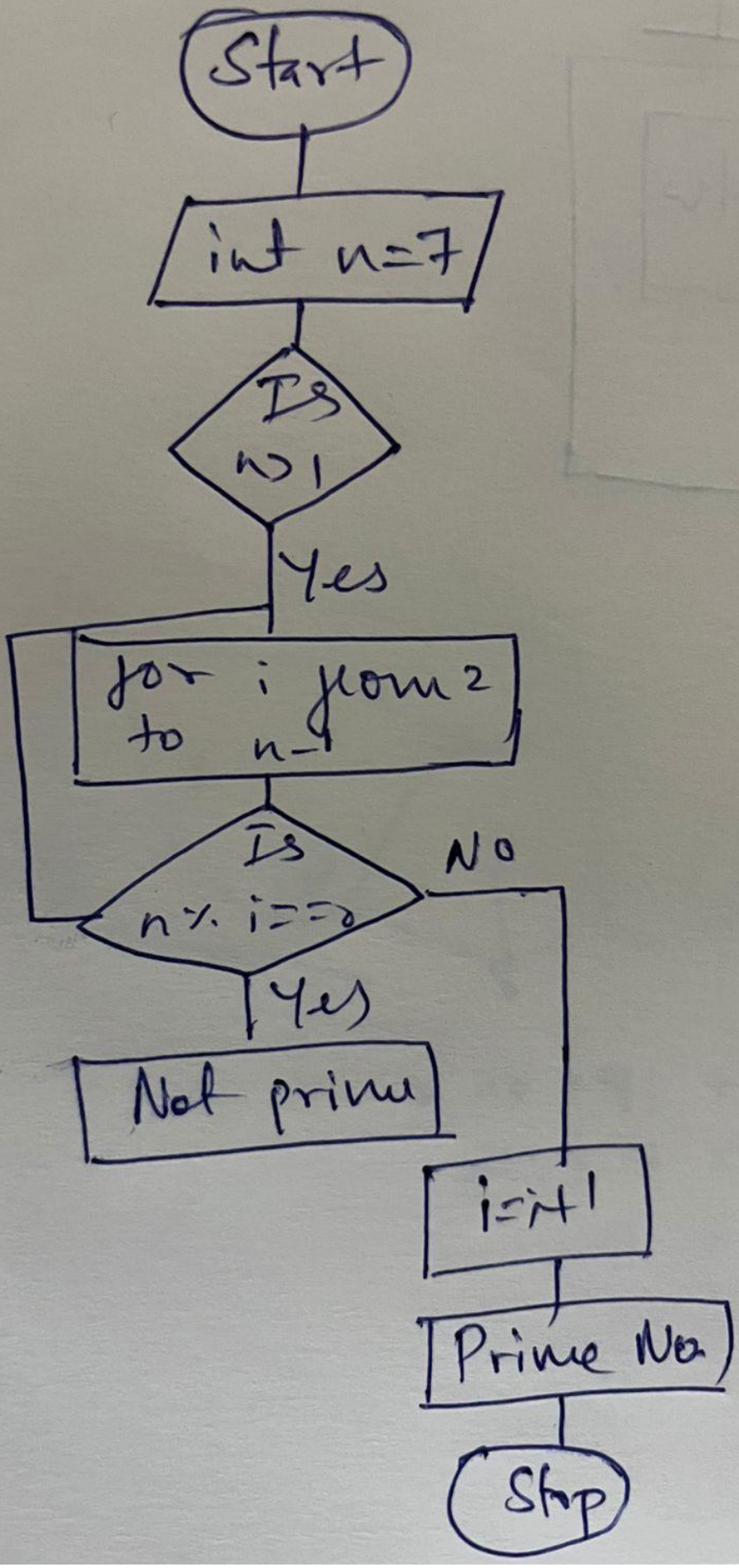
2)


Start
Initialize an array of integer also largest a[0]
If
Index less than array size
Yes
Is
a[i]>largest
Yes
Largest=a[i]
No
a[i]=a[i]+1
Yes
Print largest number
stop

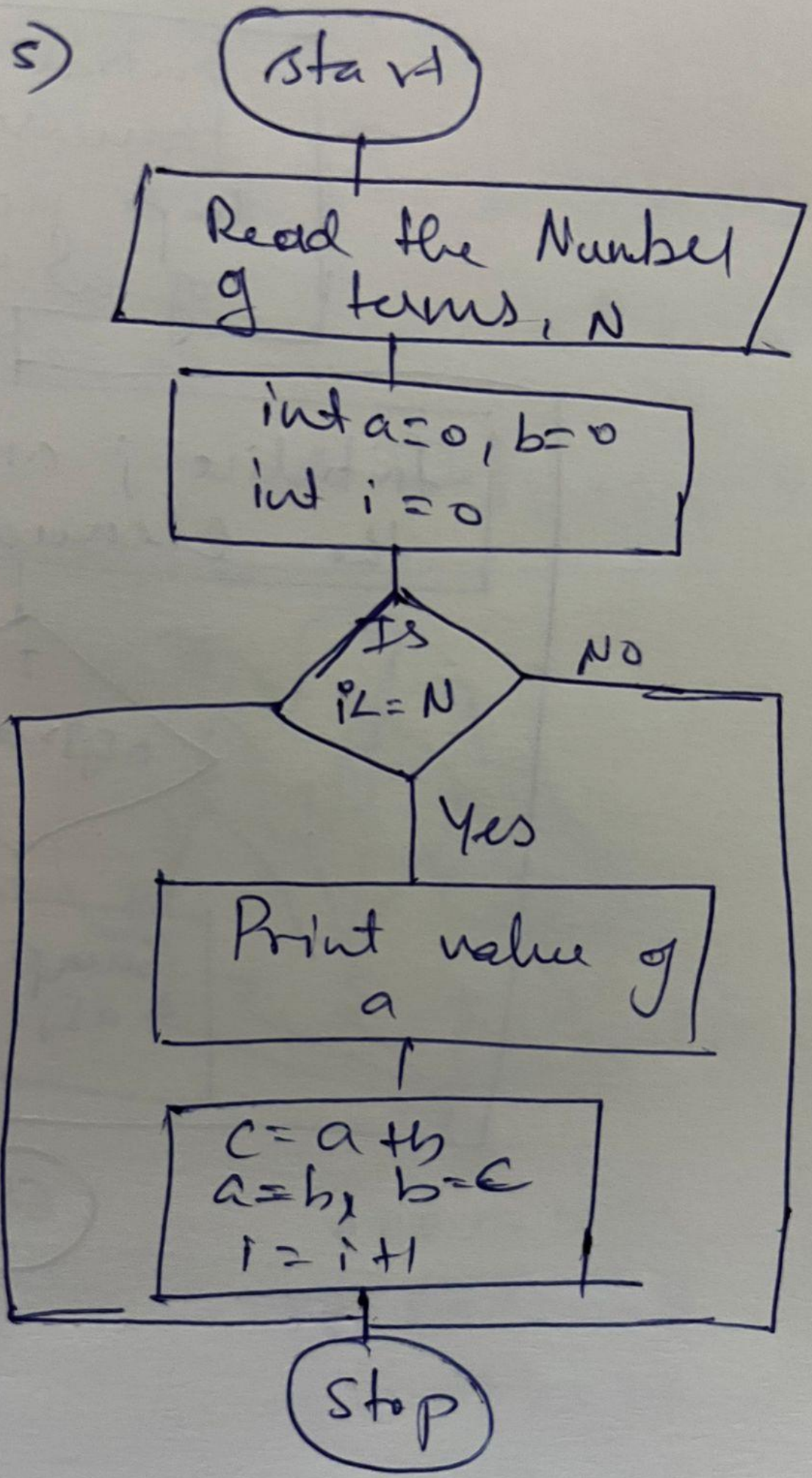
3)


Start
Read the Input string
Initialize variable reversed
If input string = reversed string
No
Yes
Print True
Print False
STOP

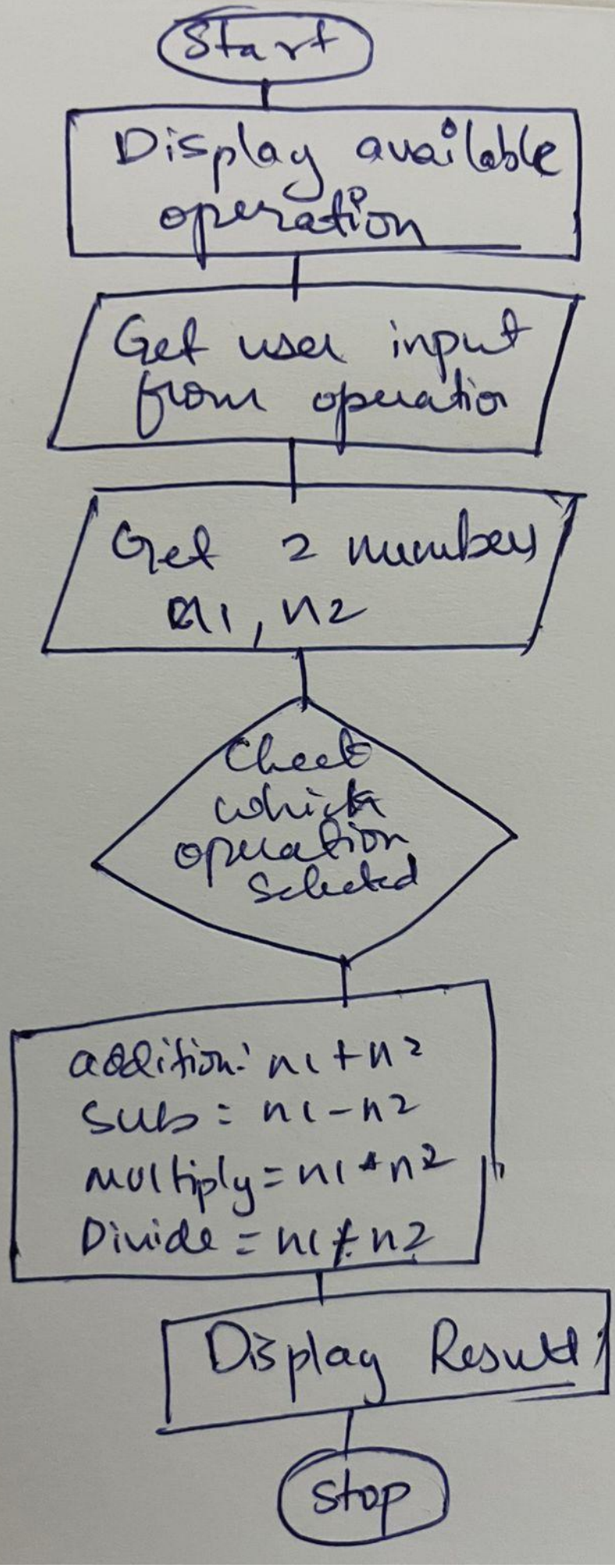
4)


Start
int n=7
Is n>1
Yes
for i from 2 to n-1
Is n%i==0
No
Yes
Not prime
i=i+1
Prime No
Stop

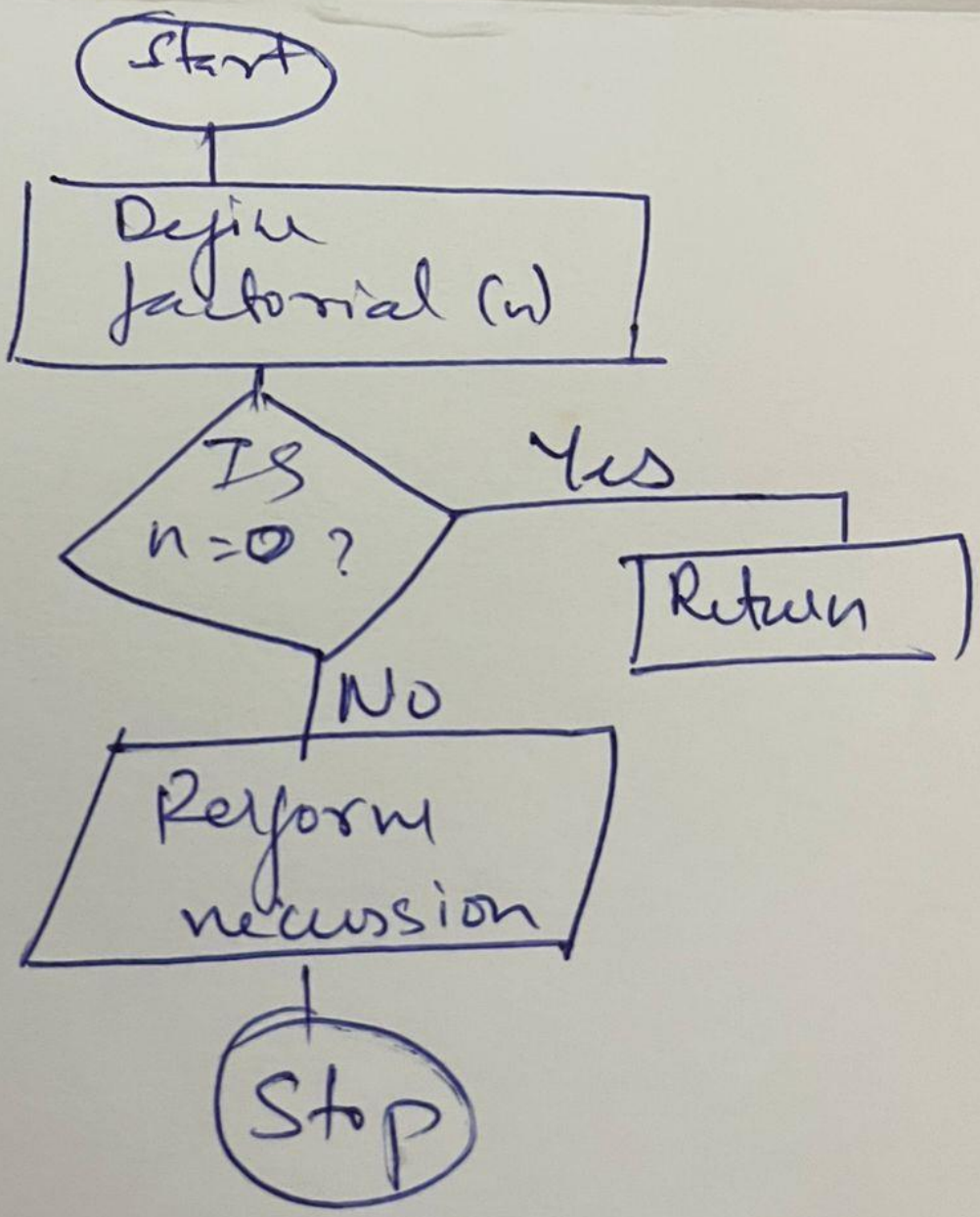
5)


Start
Read the Number of terms, N
int a=0, b=0
int i=0
Is i<=N
NO
Yes
Print value of a
c=a+b
a=b, b=c
i=i+1
Stop

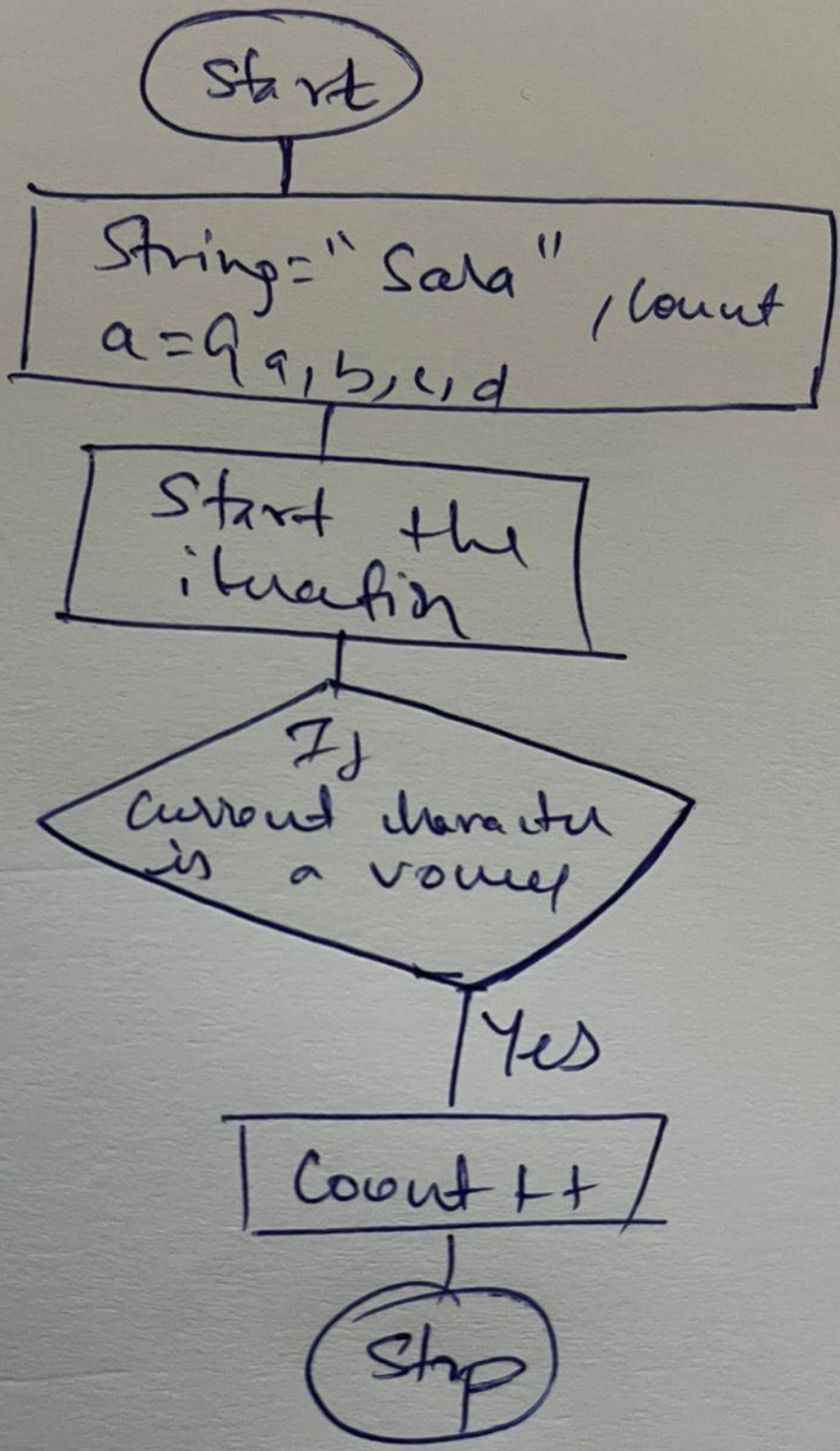
9)


Start
Display available operation
Get user input from operation
Get 2 number n1, n2
Check which operation selected
addition: n1+n2
sub: n1-n2
multiply: n1*n2
Divide: n1/n2
Display Result
Stop

7)


Start
Define factorial (n)
IS n=0 ?
Yes
Return
NO
Reform recursion
Stop

8)


Start
String="Sala" ,count
a=9 a,b,c,d
Start the iteration
If current character is a vowel
Yes
Count++
Stop