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.

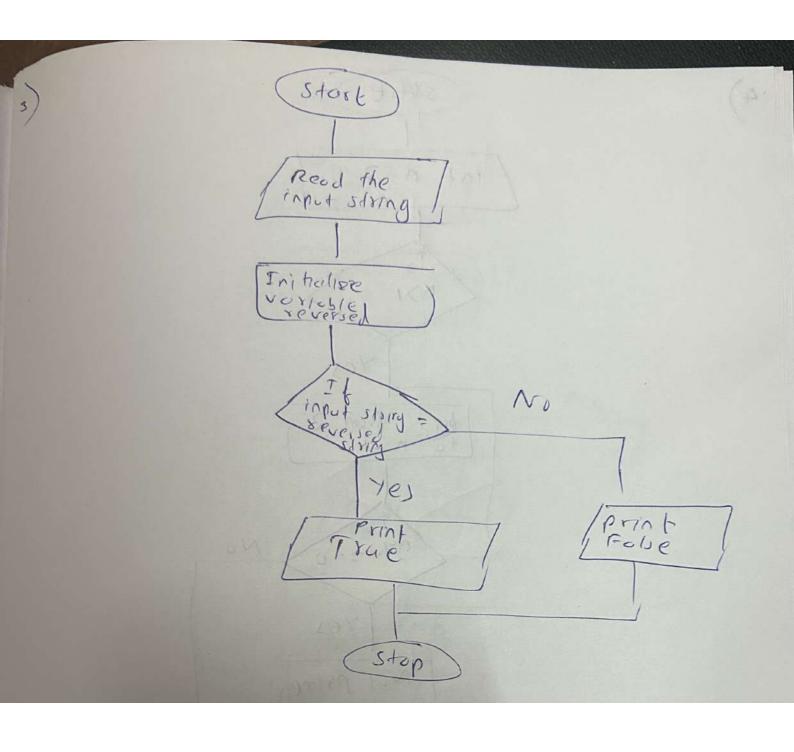
Step1:Initialize a particular string, count variable.

Step2:Declare the array of vowels.

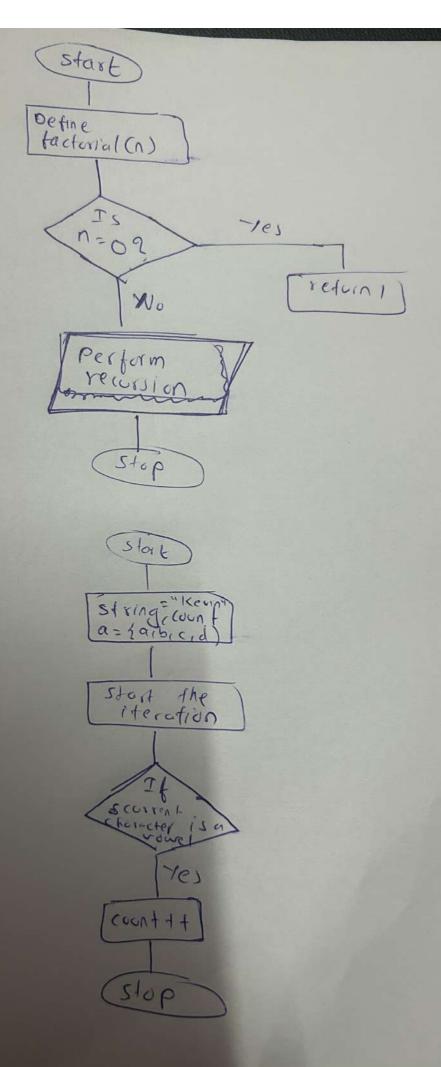
Step3:perfrom iteration with the help of for and if element of string is present in the particular string.Increment the count.

Step4:Display the value of count

start Initialize array Inholize i droversk using for loop from 0 to Prinalize j and traverse between the element (acij >aciti) NO swap a (j) Stop



(Start Display available operation for operation Get two number / n1, n2 Check which operation Addition: Nx + Nx Sob ! NI-N2 Multin x x x na Dupley Result Stup



8)