#### **Suma Soft**

### **Programming (Machine) Test**

#### Instructions:

- 1. Solve any three questions.
- 2. Input should be from user.
- 3. Indentation and comments mandatory.
- 4. All questions solving in C# language.

### Q1. Rearrange Positive and Negative Numbers in Alternating Fashion.

Problem: Given an array of positive and negative integers, rearrange them so that they alternate. The order of positive and negative numbers should be maintained.

# Q2. Find the Smallest Window in a String Containing All Characters of Another String.

Problem: Given a string s and a string t, find the smallest substring in s that contains all characters of t.

## Q3. Merge Two Sorted Arrays Without Extra Space.

Problem: Given two sorted arrays, merge them into one sorted array in place without using extra space.

#### Q4. Reverse Each Word in a Sentence.

Problem: Write a method to reverse each word in a given sentence, keeping the word order the same.