W8 Strings

Note: **1. Make a word document with a solution program and the screen shots of Output for each of the given exercises.**

2. Take inputs from the user.(i.e., do not hard code the inputs)

3. Assume appropriate sizes for Arrays and Strings

1. Write a C program to print individual characters of a string in reverse order.
   Input: Hello
   Output: o
        l
        l
        e
        H

2. Write a C program to count the total number of alphabets, digits and special characters in a string.
   Input: C3 Programming! 2023
   Output: Alphabets: 13
        Digits: 3
        Special Characters: 2

3. Write a C program to count the total number of words in a string.
   Input: Welcome to C programming
   Output: Total Words: 4

4. Write a C program to sort a string array in ascending order using bubble sort.
   Input: Banana
        Apple
        Orange
   Output: Apple
        Banana
        Orange

5. Write a C program to concatenate two strings without using the ***strcat()*** function.
   Input: String 1: Hello
        String 2: World
   Output: Concatenated String: HelloWorld

6. Write a C program to search for a string within an array of strings.
   Input: String: C programming is fun
        Substring to search: programming
   Output: Substring found at index: 2

7. Write a C program to copy a string without using the ***strcpy()*** function.
   Input: Source String: Hello World   Output: Copied String: Hello World