

# Ahsanullah University of Science and Technology, Bangladesh

## CSE 1102: Elementary Structured Programming Lab (Fall 24)

### String Practice Problems

SL	Problem statement	
1	Write a C program to take a string as input. Then print the string along with its length . <b>Input:</b> Input String: <b>Hello</b> <b>Output:</b> Output String: <b>Hello 5</b>	
2	Write a C program that will check whether two strings are the same or not. <b>Input:</b> 1st String: <b>Hello</b> 2nd String: <b>World</b> <b>Output:</b> <b>Hello and World</b> are not the same.	
3	Write a C program to take two strings as input. Then concatenate the two strings. <b>Input:</b> 1st String: <b>Hello</b> 2nd String: <b>World</b> <b>Output:</b> Concatenated String: <b>Hello World</b>	
4	Write a program in C that will reverse a string. <b>Input :</b> Input String: <b>Hello</b> <b>Output:</b> Output String: <b>olleH</b>	
5	Write a C program to take a string as input. Then convert each character of the string to uppercase. <b>Input:</b> Input String: <b>Hello World</b> <b>Output:</b> Output String: <b>HELLO WORLD</b>	
6	Write a C program to find out how many words are present in a string. <b>Input :</b> Input String: <b>Hello World</b> <b>Output:</b> There are <b>2</b> words.	
7	Write a C program to find the frequency of each character present in a string. <b>Input :</b> Input String: <b>hello</b> <b>Output:</b> <b>e</b> appears 2 time(s). <b>h</b> appears 1 time(s). <b>l</b> appears 2 times(s). <b>o</b> appears 1 time(s).	
8	Write a C program to find out if a string is a substring of another string or not. <b>Input :</b> Input String1: <b>Hello World</b> Input String2: <b>orl</b> <b>Output:</b> <b>orl</b> is a substring of <b>Hello World</b>	
9	Write a C program to find out whether a string is pallindrome or not. <b>Sample Input :</b>	

	Input String: <b>EYE</b> <b>Sample Output:</b> Reverse of the string : <b>EYE</b> EYE is a pallindrome.	
<b>10</b>	Write a C program to find the number of vowels and consonants present in a string.	
<b>11</b>	Write a C program to search for a character in a string. <b>Sample Input:</b> Enter String: Hello World Enter character to search : W  <b>Sample Output:</b> W is present in the string.	
	<b>N.B The practice problems given for 1D Array can also be used for String.</b>	