Green University of Bangladesh

Department of Computer Science and Engineering

Lab Final Examination, Fall 2022

Course Code: CSE 104 | **Course Title: Structured Programming Lab**

Full Marks: 30 | **Time: 1.5 Hour**

Answer all questions of the following:

[The values on the right-hand side indicate marks allocated for that question only and the [CO#] represents the mapping of the question with one of the expected outcomes of the course.]

1.	Write a program that takes an array input from user, checks if all elements of the array are divisible by 3. If so, check if all are divisible by 9 as well. **Sample input and output:** Input array size: 7 Input array elements: 4 2 56 12 4 9 7 Not divisible by 3. Input array size: 5 Input array elements: 3 6 9 12 15 Divisible by 3. Not divisible by 9. Input array size: 4 Input array elements: 9 18 27 36 Divisible by 3. Divisible by 9.	CO1	4+2	Code and Viva
2.	Write a program that takes input rom user, reverse it and check if it is palindrome or not. **Sample input and output:** Input number: 235 This is not palindrome.	CO1	4+2	Code and Viva

	Input number: 535 This is palindrome.			
3.	Write a program to print following pattern: * *** ***** *** *	CO1	4+2	Code and Viva
4.	Take an input string, take another letter from user. Check whether the letter appears in the string or not. If so, replace the letter with another given letter. **Sample input and output:** Input string: This is X. Input letter to find: X. Input the replaced letter: Y String after replacement: This is Y. Input string: This is X. Input letter to find: Y. Item not found!	CO1	4+2	Code and Viva
5.	Find sum of n Fibonacci terms using recursion. **Sample input and output:** Input n: 6 Sum: 12	CO1	4+2	Code and Viva