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| **National University of Computer and Emerging Sciences, Lahore Campus** | | | | |
| C:\Users\saif\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Word\final design.jpg | **Course:** | **Data Structures Lab** | **Course Code:** | **CL 2001** |
| **Program:** | **BS (Computer Science)** | **Semester:** | **Fall 2022** |
| **Duration:** | **30 Minutes** | **Total Marks:** | **20** |
| **Quiz Date:** | **22th September, 2022** | **Weight** | **5 %** |
| **Section:** | **BCS-3B** | **Page(s):** | **1** |
| **Exam:** | **Quiz 1** | **Reg. No.** |  |

**Important Instructions (Please read them before attempting the quiz):**

* Read paper carefully Queries are not entertained.
* Understanding the question is part of quiz
* Submit **folder** with your **roll-no** containing separate .cpp file for each question e.g,21L-1234
* **Plagiarism** will result in **F grade** in lab.
* Submission will be on google classroom.
* Use **Visual Studio 2012/2013.**

**Question:**

**Create a class Linked List using templates and classes which has following functions:**

You are given two linked lists representing two non-negative integers. The digits are stored in reverse order and each of their nodes contain a single digit. Add the two numbers and return it as a linked list.

You may assume the two numbers do not contain any leading zero, except the number 0 itself.

**Note: Only create functions which are required to perform the required functionality. Your program should not have any memory leaks**

**Output:**

