**Data Structures & Algorithms**

**(3+1 Credit Hours)**

CSL- 211

**LAB JOURNAL**

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**DEPARTMENT OF COMPUTER SCIENCE**

BAHRIA UNIVERSITY, KARACHI, PAKISTAN

**Data Structures & Algorithms**

CSL- 211

Student Name: \_Nimra Mushtaq\_\_\_\_\_\_\_\_

Registration Number: 02-134202-018

Class & Section: BSCS-3A

Fall/Spring: Fall

Year: 2021

Lab Day & Timing: Tuesday 8:30-11:30

Course Teacher:

Lab Engineer:

BAHRIA UNIVERSITY KARACHI CAMPUS

Department of Computer Science

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|  |  | **TOOL/** |  |  |
| **No.** | **TASKS** | **SOFTWARE** | **Page No.** |
|  |  | **USED** |  |
| Lab 1 | Introduction to visual studio and revision of c++(If else, functions, Structures, and pointers.) | Visual Studio |  |  |
|  |  |  |  |  |
| Lab 2 | Arrays one dimensional and two dimensional | Visual Studio |  |  |
|  |  |  |  |  |
| Lab 3 | Searching and Sorting | Visual Studio |  |  |
|  |  |  |  |  |
| Lab 4 | Sorting Algorithm |  |  |  |
|  |  | Visual Studio |  |  |
| Lab 5 | Time complexity | Visual Studio |  |  |
|  |  |  |  |  |
| Lab 6 | Array-based Stack implementation. | Visual Studio |  |  |
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| Lab 7 | Array based Queue |  |  |  |
|  |  | Visual Studio |  |  |
| Lab 8 | Singly Linked List | Visual Studio |  |  |
|  |  |  |  |  |
| Lab 9 | Doubly linked list | Visual Studio |  |  |
|  |  |  |  |  |
| Lab 10 | Recursion | Visual Studio |  |  |
|  |  |  |  |  |
| Lab 11 | Merge sort and Quicksort. | Visual Studio |  |  |
|  |  |  |  |  |
| Lab 12 | Binary Search Tree | Visual Studio |  |  |
|  |  |  |  |  |
| Lab 13 | Graphs |  |  |  |
|  |  | Visual Studio |  |  |