**Bahria University, Lahore Campus**

Department of Computer Science

Lab Journal 01

**(Spring 2023)**

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| Course: | **Data Structures and Algorithm - Lab** | Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Course Code: | CSL-221 | Max Marks: 10 |
| Faculty’s Name: | Fatima Zulfiqar |  |

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enroll No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Objective(s):

Upon completion of this lab session, learners will be able to:

* Declare and initialize array data structure.
* Perform different operations on arrays (Insertion, deletion, search, display)

## Lab Tasks:

**Task 1**

Write a program to define an integer type array of fixed size and store elements by taking input from the user. Also print values present in an array.

**Task 2**

Write a program in a form of different functions and a main menu. Perform following operations on an array.

* Deletion by index
* Deletion by value
* Search by index
* Search by Value

**Lab Grading Sheet:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Max Marks** | **Obtained Marks** | **Comments(*if any*)** |
| 1. | 02 |  |  |
| 2. | 08 |  |  |
| **Total** | **10** |  | **Signature** |

**Note : Attempt all tasks and get them checked by your Lab Instructor.**