

# Netaji Subhash Engineering College

Department of Artificial Intelligence and Machine Learning

B. Tech AIML 2nd Year 3rd Semester

2023-2024

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**Name of the Course:** Data Structure and Algorithms Lab

**Course Code:** PCC-CS391

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## Day 1 - Problem Set

1. Write a program in C to read and display n numbers using an array.
2. Write a program in C to insert an element at a specified position in a given array containing n numbers without any data loss.
3. Write a program in C to delete an element at a specified position in a given array containing n numbers.
4. Write a program in C to insert an element in a sorted array so that after insertion array should be sorted.
5. Write a program in C to delete an element from a sorted array.
6. Write a program in C to calculate the sum and average of elements present in an array.
7. Write a program in C to print largest and smallest elements and their corresponding positions from an array of n numbers.
8. Write a program in C to find largest and second largest elements from an array of n numbers.