

**9<sup>th</sup> October, 2023**

### **Laboratory Activity Questions**

- 1) Write a program to read and display n numbers using an array.
- 2) Write a program to find the mean of n numbers using arrays.
- 3) Write a program to find the smallest and largest of n numbers using array.
- 4) Write a program to read 15 random integer values and stored it in an array. Sort the array in ascending order and display it.
- 5) Write a program to read 10 random integer values and stored it in an array. Sort the array in descending order and display it.
- 6) Declare a character array and stored it with all the characters available in your name. Count and display the total number of vowels and consonants available in that array.
- 7) Write a program to declare a character array that will store 10 characters. Ask the user to enter any character and check if it's available in the array. If yes, display the output about its availability along with the position of that character in the array.
- 8) Read two 1D integer arrays. Store the arrays with same number of array values. Pass these two 1D arrays to a function and perform the matrix addition and display the resultant 1D array.
- 9) Write a program to read two floating point arrays. Merge these arrays and display the resultant array.
- 10) Write a program to read the elements of 3x3 array. Pass the array to the function and print the array elements of an array.
- 11) Declare 2D array that can store 3x4 array values. Pass two array elements namely in the positions [0][2] and [2][1] to a function and determine the square of those array elements and display.
- 12) Write a program to declare 3x5 array, read the array values (run time). Pass the entire array to a function and determine the smallest value and the largest value in the array along with its positions.
- 13) Read two 4x4 matrices (run time initialization). Pass the arrays to a function, evaluate the matrix addition and display it.
- 14) Read two 4x4 matrices (run time initialization). Pass the arrays to a function, evaluate the matrix subtraction and display it.
- 15) Read a 3x3 Matrix (run time initialization). Pass the array to a function and perform the matrix transpose and display the result.