**Assignment – 10**

**03-04-2023**

(Array Operations)

1. WAP to create a class Array having member variables as an integer array and it’s size.

Allocate memory for the Array as per the size specified and initialize it to zero using constructor.

Design methods to perform the following operations on the array:

=> Input required elements into the array.

=> To display the array elements.

=> Calculate sum and average of elements.

=> Swap the max and min elements.

=> Find the occurrence of all unique elements.

=> Make three digit numbers by taking values from three consecutive indexes starting from zero to end. If the value at any index is not a single digit then make it a single digit by adding the digits repeatedly. If the index is not sufficient to make three digit number then add zeros to the right to make it three digit. Find the greatest number out of these new numbers.

(Ex: Original values: 3, 7, 4, 25, 190, 2, 87. New values are: 374, 712, 600 and the greatest value is 712.)