

# Object Oriented Programming using Java

## Assignment - 3

### Array

1. Write a Java program to store 10 numbers in an array and display them. Initialize the array at the runtime.
2. Write a Java program to sort an array using bubble sort.
3. Write a Java program to find an element is present in the array or not. Initialize the array at the run time. Also take the number to be search as user input.
4. Write a Java program to find largest number of an array. Define a method **public int findMax(int nums[])**, which will take an array as argument and return the largest number. Initialize the array at the runtime.
5. Write a Java program to marge two array. Create functions like, **public int[] readArray()** to initialize any array, **public void displayArray(int nums[])** to display any given array and **public int[] margeArray(int a[], int b[])** which will perform the marge operation between twoarrays. Utilize the function appropriately to perform the operations.
6. Write a Java program to perform the addition between two matrices. Check the order of the matrices before performing the addition operation.