**Lab Experiment – 1.b**

**Aim**: Write a java program to implement a single-dimensional array and sort using bubble sort.

**Code**:

*/\*\**

*\**

*\* @author 2162014*

*\*/*

import java.util.Random;

public class Array\_demo {

public static void main(String[] args) {

int arr[] = new int[10];

Random rn = new Random();

for (int i = 0; i < 10; i++) {

arr[i] = rn.nextInt(100);

}

System.out.println("Initial Array");

for (int i : arr) *//for each loop*

{

System.out.println(i);

}

*//sort the array*

int n = arr.length;

int temp;

for (int i = 0; i < n - 1; i++) {

for (int j = 0; j < n - i - 1; j++) {

if (arr[j] > arr[j + 1]) {

temp = arr[j];

arr[j] = arr[j + 1];

arr[j + 1] = temp;

}

}

}

System.out.println("Sorted Array");

for (int i : arr) {

System.out.println(i);

}

}

}

**Output(s)**:

