Course Code	OCAJP8
Section	Topic_4
Student Name	Dominic Kgoete
Student Signature	
Date	15 – 01 - 2020

1. **Program Objective and Summary**

- Declare, instantiate, initialize and use a one-dimensional array
- Declare, instantiate, initialize and use multi-dimensional array

2. **Tools (Clearly state the IDE, Databases, languages used)**

Intellj IDEA

3. **Code**

```
/*
 **** Topic 4: Creating and using arrays  ****
 * OBJECTIVES:
 * 1 Declare, instantiate and use a one-dimensional array
 * 2 Declare, instantiate and use a multi-dimensional array
 */

package com.company;

/**
 * @author dominic
 */
import java.util.Arrays;

public class Main {

   public static void main(String[] args) {
      oneDimensional();
      multiDimensional();
   }

   /*
      below is a one-dimensional array
    */
   public static void oneDimensional (){
      System.out.println("One-Dimensional array list: ");
      int [] array = {42, 20, 21, 10, 5};
      // System.out.println(array) wil not compile because the array is stored as a string.
      System.out.println("Here are the original array: " + Arrays.toString(array));

      Arrays.sort(array);// sorting arrays to appear in a numerical order
      System.out.println("Arrays in numerical order: " + Arrays.toString(array));
   }
   /*
      Below is an example of a multi-dimensional array
```

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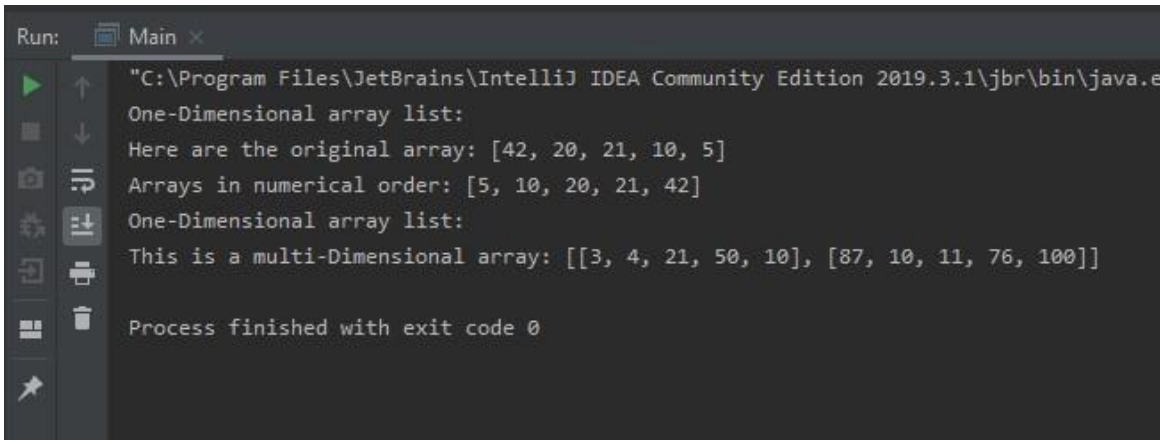
```
     */
    public static void multiDimensional () {
       System.out.println("One-Dimensional array list: ");
       int [][] array = {{3, 4, 21, 50, 10},{87, 10, 11, 76, 100}};
       System.out.println("This is a multi-Dimensional array: " + Arrays.deepToString(array));
    }
}
```

4. Output (Please attach screen output as evidence)



5. Completed Practical Assignment Template
Completed Practical Assignment Template and attach it on LMS as a pdf file