**Laboratory Activity #1**

**Working with Single-Dimensional Array**

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*Suggested Time:* **60 minutes**

Individual work will be evaluated manually using the following criteria:

- Functionality (30%)

- Accuracy (30%)

- Code Efficiency (30%)

- User Interface (10%)

\*\*\* *for complete details,* *please refer to the provided rubric.*

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**Create a program that the asks the user to enter the array size and assign its content one by one from the user input. The program must display:**

1. **all the inputted numbers**
2. **the smallest number**
3. **the biggest number**
4. **and the average of all the stored numbers.**

(*Individual work – unique source code*)

Sample Output:

How many numbers you want?: 5

Enter number1: 10

Enter number2: 14

Enter number3: 5

Enter number4: 1

Enter number5: 4

You typed: 10 14 5 1 4

Smallest : 1

Biggest : 14

Average : 6.8

**Required to Submit:**

***Save*** this document with the following content:

1. source code (text) - “copy-pasted C# code”
2. screenshot of sample output
3. Source Code

using System;

namespace Lab\_Act\_1

{

class Program

{

static void Main(string[] args)

{

int i;

int high = 0;

int low = 0;

float ave = 0;

Console.Write("How many numbers you want? : ");

int x = Int32.Parse(Console.ReadLine());

int[] array = new int[x + 1];

for (i = 1; i <= x; i++)

{

Console.Write("Enter Numbers " + i + ": ");

array[i] = Convert.ToInt32(Console.ReadLine());

if (i == 1)

{

high = array[i];

}

else

{

if (array[i] > high)

{

high = array[i];

}

}

if (i == 1)

{

low = array[i];

}

else

{

if (array[i] < low)

{

low = array[i];

}

}

ave += array[i];

}

Console.Write("You Typed : ");

for (i = 1; i <= x; i++)

{

Console.Write(array[i] + " ");

}

Console.WriteLine("\n" + "Smallest: {0:N}", low);

Console.Write("Largest: {0:N}", high + "\n");

Console.Write("Average : " + ave / x);

Console.ReadKey();

}

}

}

1. Screenshot of Sample Output

<Change this with your sample screenshot>

