

C# Lab Tutorials

Name : Sasindi Nethara Welagedara

Batch : 22.2 (Technology Management – Plymouth University)

Student ID: 27975

Day 05

** Please Note that I'm typing out the answers in a word/pdf file and uploading it to github since I own an iPad and VSCode is not available on my device. Please excuse me and I apologize for any inconvenience caused. Thank you. **

Question 03

❖ Calculate Values

```
- namespace day05Q3
- {
-     internal class CalculateValues
-     {
-         public double calAddition(double num1, double num2)
-         {
-             return num1 + num2;
-         }
-
-         public double calSubstraction(double num1, double num2)
-         {
-             return num1 - num2;
-         }
-
-         public double calMultiplication(double num1, double num2)
-         {
-             return (num1 * num2);
-         }
-
-         public double calDivision(double num1, double num2)
-         {
-             return (num1 / num2);
-         }
-     }
- }
```

❖ Program

```
- namespace lab05Q3
- {
-     internal class Program
```

```

- {
-     static void Main(string[] args)
-     {
-         Console.WriteLine("Enter 1 for Addition");
-         Console.WriteLine("Enter 2 for Substraction");
-         Console.WriteLine("Enter 3 For Multiplication");
-         Console.WriteLine("Enter 4 for Division");
-
-         Console.WriteLine();
-
-         Console.Write("Enter Your Choice : ");
-         int choice = Convert.ToInt32(Console.ReadLine());
-
-         Console.WriteLine();
-
-         Console.Write("Enter Number 1: ");
-         double num1 = Convert.ToDouble(Console.ReadLine());
-         Console.Write("Enter Number 2: ");
-         double num2 = Convert.ToDouble(Console.ReadLine());
-
-         Console.WriteLine();
-
-         CalculateValues calculateValues = new CalculateValues();
-
-         double ans;
-
-         if (choice == 1)
-         {
-             ans = calculateValues.calAddition(num1, num2);
-             Console.WriteLine("Your Answer is : {0}", ans);
-         }
-         else if (choice == 2)
-         {
-             ans = calculateValues.calSubstraction(num1, num2);
-             Console.WriteLine("Your Answer is : {0}", ans);
-         }
-         else if (choice == 3)
-         {
-             ans = calculateValues.calMultiplication(num1, num2);
-             Console.WriteLine("Your Answer is : {0}", ans);
-         }
-         else if (choice == 4)
-         {
-             ans = calculateValues.calDivision(num1, num2);
-             Console.WriteLine("Your Answer is : {0}", ans);
-         }
-         else
-         {
-             Console.WriteLine("Error");
-         }
-     }
- }

```

```

-         Console.ReadLine();
-     }
- }
- }

```

Question 04

❖ Class Files

```

- using System;
- using System.Collections.Generic;
- using System.Linq;
- using System.Text;
- using System.Threading.Tasks;
-
- namespace lab05Q4
- {
-     internal class ClassFiles
-     {
-         public void sayHello()
-         {
-             Console.WriteLine("Hello World!");
-         }
-     }
- }

```

❖ Program

```

- using System;
- using System.Collections.Generic;
- using System.Linq;
- using System.Text;
- using System.Threading.Tasks;
-
- namespace lab05Q4
- {
-     internal class Program
-     {
-         static void Main(string[] args)
-         {
-             ClassFiles objsayHello = new ClassFiles();
-             objsayHello.sayHello();
-         }
-     }
- }

```

05) find the minimum, maximum and the average value of an array with 10 user inputs. And reverse the array.

```

- namespace MinMaxAvgRevArray
- {
-     internal class Program
-     {
-         static void Main(string[] args)
-         {
-             int[] array = new int[10];
-             int sum = 0;
-             Console.WriteLine("Enter 10 numbers:");
-             for (int i = 0; i < 10; i++)
-             {
-                 array[i] = int.Parse(Console.ReadLine());
-                 sum = sum + array[i];
-             }
-             int max = array[0];
-             int min = array[0];
-             for (int j = 0; j < 10; j++)
-             {
-                 if (array[j] > max)
-                 {
-                     max = array[j];
-                 }
-                 if (array[j] < min)
-                 {
-                     min = array[j];
-                 }
-             }
-             int[] arrayreverse = new int[10];
-             int a = 0;
-             for (int l = 9; l >= 0; l--)
-             {
-                 arrayreverse[a] = array[l];
-                 a++;
-             }
-             Console.WriteLine($"Minimum Value:" + min);
-             Console.WriteLine("Maximum Value:" + max);
-             int avg = sum / 10;
-             Console.WriteLine("Average:" + avg);
-
-             for (int i = 0; i < 10; i++)
-             {
-                 Console.WriteLine(arrayreverse[i]);
-             }
-
-             Console.ReadLine();
-         }
-     }
- }

```