C# Lab Tutorials

Name : Sasindi Nethara Welagedara
Batch : 22.2 (Technology Management – Plymouth University)
Student ID: 27975

Day 02

** 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. **

01) Write a Console Application to calculate the sum of two user input numbers.

```
- using System;
- namespace SumOfTwoInputs
- {
-     internal class Program
-     {
-         static void Main(string[] args)
-         {
-             Console.WriteLine("Enter the first number: ");
-             int firstNumber = Convert.ToInt32(Console.ReadLine());
-             Console.WriteLine("Enter the second number: ");
-             int secondNumber = Convert.ToInt32(Console.ReadLine());
-
-             int sum = firstNumber + secondNumber;
-
-             Console.WriteLine("The sum of the two numbers is: {0}", sum);
-             Console.ReadKey();
-         }
-     }
- }
```

02) Write a Console Application to calculate sum, subtraction, multiplication and division of two user input numbers.

```
- using System;
-
- namespace BasicCalculator
- {
-     class Program
-     {
-         static void Main(string[] args)
-         {
-             Console.WriteLine("Enter the first number:");
-             string input1 = Console.ReadLine();
-
```

```
            Console.WriteLine("Enter the second number:");
            string input2 = Console.ReadLine();

            if (double.TryParse(input1, out double number1) && double.TryParse(input2, out double number2))
            {
                double sum = number1 + number2;
                double subtraction = number1 - number2;
                double multiplication = number1 * number2;
                double division = number1 / number2;

                Console.WriteLine("Sum: " + sum);
                Console.WriteLine("Subtraction: " + subtraction);
                Console.WriteLine("Multiplication: " + multiplication);
                Console.WriteLine("Division: " + division);
            }
            else
            {
                Console.WriteLine("Invalid input. Please enter valid numeric values.");
            }
        }
    }
}
```

03) Write a Console Application to calculate area and circumference of a circle for given radius.

```
using System;
namespace CalculateAreaAndCircumference
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Enter the radius of the circle: ");
            double radius = Convert.ToDouble(Console.ReadLine());

            double area = Math.PI * radius * radius;
            double circumference = 2 * Math.PI * radius;

            Console.WriteLine("The area of the circle is: {0}", area);
            Console.WriteLine("The circumference of the circle is: {0}", circumference);
            Console.ReadKey();
        }
    }
```

04) Write a Console Application to check if a given number is even or odd.

```
using System;

namespace EvenOrOdd
```

```
-   {
-       internal class Program
-       {
-           static void Main(string[] args)
-           {
-               Console.WriteLine("Enter the number: ");
-               int num = Convert.ToInt32(Console.ReadLine());
-               int rem = num % 2;
-
-               if (rem == 1)
-               {
-                   Console.WriteLine("{0} is an odd number", num);
-               }
-               else
-               {
-                   Console.WriteLine("{0} is an even number", num);
-               }
-
-               Console.ReadKey();
-           }
-       }
-   }
```

05) Upgrade the above console application which enables 10 user inputs and displays even or odd for each user input.

```
-   using System;
-
-   namespace EvenOrOddMoreInputs
-   {
-       internal class Program
-       {
-           static void Main(string[] args)
-           {
-               const int Inputs = 10;
-
-               for (int i = 1; i <= Inputs; i++)
-               {
-                   Console.Write($"Enter number {i}: ");
-                   if (int.TryParse(Console.ReadLine(), out int num))
-                   {
-                       int rem = num % 2;
-
-                       if (rem == 0)
-                       {
-                           Console.WriteLine("{0} is an even number", num);
-                       }
-                       else
-                       {
-                           Console.WriteLine("{0} is an odd number", num);
```

```
-              }
-            }
-      }
```