**LAB 02**

```
01.using System;

namespace SumCalculator
{
    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;
                Console.WriteLine($"The sum
of {number1} and {number2} is: {sum}");
            }
            else
            {
                Console.WriteLine("Invalid
input. Please enter valid numbers.");
            }
        }
    }
}
```

02. using System;

```
namespace CalculatorApp
{
    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))
            {
                // Calculate the results
                double sum = number1 +
number2;
```

```
                double subtraction = number1
- number2;
```

```
                double multiplication =
number1 * number2;
                double division = number1 /
number2;

                // Display the results
                Console.WriteLine($"Sum:
{sum}");

Console.WriteLine($"Subtraction:
{subtraction}");

Console.WriteLine($"Multiplication:
{multiplication}");
                Console.WriteLine($"Division:
{division}");
            }
            else
            {
                Console.WriteLine("Invalid
input. Please enter valid numbers.");
            }
        }
```

```
    }
}
```

```
03.using System;

namespace CircleCalculator
{
    class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Enter the
radius of the circle:");
            string inputRadius =
Console.ReadLine();

            if (double.TryParse(inputRadius,
out double radius))
            {
                double area =
```

```
CalculateCircleArea(radius);
                double circumference =
CalculateCircleCircumference(radius);

                Console.WriteLine($"Area of
the circle: {area}");

Console.WriteLine($"Circumference of
the circle: {circumference}");
            }
            else
            {
                Console.WriteLine("Invalid
input. Please enter a valid number for
the radius.");
            }
        }

        static double
CalculateCircleArea(double radius)
        {
```

```
            return Math.PI * radius * radius;
        }

        static double
CalculateCircleCircumference(double
radius)
        {
            return 2 * Math.PI * radius;
        }
    }
}
```

04.

```
using System;

namespace EvenOrOddChecker
{
    class Program
    {
        static void Main(string[] args)
        {
```

```
            Console.WriteLine("Enter a
number:");
            string input =
Console.ReadLine();

            if (int.TryParse(input, out int
number))
            {
                if (IsEven(number))
                {

Console.WriteLine($"{number} is an
even number.");
                }
                else
                {

Console.WriteLine($"{number} is an odd
number.");
                }
            }
            else
            {
```

```
                Console.WriteLine("Invalid
input.
```

```
Please enter a valid integer.");
            }
        }

        static bool IsEven(int number)
        {
            return number % 2 == 0;
        }
    }
}

05.using System;

namespace EvenOrOddChecker
{
    class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Enter 10
numbers:");
```

```
            for (int i = 0; i < 10; i++)
            {
                Console.Write($"Number {i +
1}: ");
                string input =
Console.ReadLine();

                if (int.TryParse(input, out int
number))
                {
                    if (IsEven(number))
                    {

Console.WriteLine($"{number} is an
even number.");
                    }
                    else
                    {

Console.WriteLine($"{number} is an odd
number.");
```

```
}
```

```
                }
                else
                {
                    Console.WriteLine("Invalid
input. Please enter a valid integer.");
                    i--; // Decrement 'i' to prompt
for the same input again
                }
            }
        }

        static bool IsEven(int number)
        {
            return number % 2 == 0;
        }
    }
}
```