LAB 02 27295

```
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;
    }
  }
}
```