**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;

}

}

}