BRH Punchihewa

26998

C# Lab 02

1.
```
static void Main(string[] args)
    {

        Console.WriteLine("Enter the first number:");
        int number1=Convert.ToInt32(Console.ReadLine());
        Console.WriteLine("Enter the second number:");
        int number2=Convert.ToInt32(Console.ReadLine());

        int sum = (number1+number2);

        Console.WriteLine("Your answer is " + sum);

        Console.ReadLine();
    }
```

2.
```
static void Main(string[] args)
    {

        Console.WriteLine("Enter your first number");
        double number1= Convert.ToDouble(Console.ReadLine());
        Console.WriteLine("Enter your second number");
```

```
double number2= Convert.ToDouble(Console.ReadLine());

    // Calculate the sum
    double addition = number1 + number2;
    Console.WriteLine("Sum: " + sum);

    // Calculate the subtraction
    double subtraction = number1 - number2;
    Console.WriteLine("Subtraction: " + subtraction);

    // Calculate the multiplication
    double multiplication = number1 * number2;
    Console.WriteLine("Multiplication: " + multiplication);

    // Check for division by zero
    if (number2 != 0)
    {
        // Calculate the division
        double division = number1 / number2 ;
        Console.WriteLine("Division: " + division);
    }
    else
    {
        Console.WriteLine("Division by zero is not allowed.");
    }
```

```
        Console.ReadLine();
    }
```

3.
```
    static void Main(string[] args)
    {

        Console.WriteLine("Please enter the radius of the circle:");
        double r = Convert.ToDouble(Console.ReadLine());

        double area = Math.PI * Math.Pow(r, 2);

        double circumference = 2 * Math.PI * r;

        Console.WriteLine("Your circule area is " + area);
        Console.WriteLine("Your circule circumference is " + circumference);

        Console.ReadLine();
    }
```

4.
```
    static void Main(string[] args)
    {
```

```
    Console.WriteLine("Enter your number");
    int number=Convert.ToInt32(Console.ReadLine());

    if ( IsEven(number))
    {
       Console.WriteLine(number + " is an even number");
    }
    else
    {
       Console.WriteLine(number + " is an odd number");
    }
    Console.ReadLine();
  }

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

5.
```
  static void Main(string[] args)
  {
    const int totalInputs = 10;

    Console.WriteLine("Enter " + totalInputs + " numbers:");
```

```
    for (int i = 1; i <= totalInputs; i++)
    {
        Console.Write("Number " + i + ": ");
        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
            number.");
        }
    }
    Console.ReadLine();
}
```

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