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**C# Lab 02.**

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

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

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

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

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

**Answers**

1.

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace 2.1

{

internal class Program

{

static void Main(string[] args)

{

Console.Write("Enter the first number: ");

int num1 = int.Parse(Console.ReadLine());

Console.Write("Enter the second number: ");

int num2 = int.Parse(Console.ReadLine());

int sum = num1 + num2;

Console.WriteLine("The summation is: " + sum);

}

}

}

2.

using System;

using System.Collections.Generic;

using System.Diagnostics.CodeAnalysis;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace \_2.\_2

{

internal class Program

{

static void Main(string[] args)

{

Console.WriteLine("Enter the first number:");

int num1=int.Parse(Console.ReadLine());

Console.WriteLine("Enter the second number:");

int num2=int.Parse(Console.ReadLine());

int sum=num1 + num2;

Console.WriteLine("The summation is:" + sum);

int subtraction=num1-num2;

Console.WriteLine("The subtraction is:" + subtraction);

int multiplication = num1 \* num2;

Console.WriteLine("The multiplication is:" + multiplication);

int division = num1 / num2;

Console.WriteLine("The division is:" + division);

}

}

}

3.

using System;

namespace CircleCalculator

{

class Program

{

static void Main(string[] args)

{

double rad = double.Parse(Console.ReadLine());

double area = Math.PI \* rad\* rad;

double circumference = 2 \* Math.PI \* rad;

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

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

}

}

}

4.

using System;

namespace EvenOddChecker

{

class Program

{

static void Main(string[] args)

{

int number = int.Parse(Console.ReadLine());

if (num % 2 == 0)

{

Console.WriteLine("The number is even.");

}

else

{

Console.WriteLine("The number is odd.");

}

}

}

}

5.

using System;

namespace EvenOddChecker

{

class Program

{

static void Main(string[] args)

{

int[] userInputs = new int[10];

for (int i = 0; i < userInputs.Length; i++)

{

userInputs[i] = int.Parse(Console.ReadLine());

}

for (int i = 0; i < userInputs.Length; i++)

{

if (userInputs[i] % 2 == 0)

{

Console.WriteLine("The number {0} is even.", userInputs[i]);

}

else

{

Console.WriteLine("The number {0} is odd.", userInputs[i]);

}

}

}

}

}