Lab 02

Q1.

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Q1

{

internal class Program

{

static void Main(string[] args)

{

Console.Write("Enter number01: ");

string num1 = Console.ReadLine();

Console.Write("Enter number2: ");

string num2 = Console.ReadLine();

if(double.TryParse(num1, out double value1) && double.TryParse(num2, out double value2))

{

double sum = value1 + value2;

Console.WriteLine("Sum is: " + sum);

}

else

{

Console.WriteLine("Invalid input, Try again");

}

Console.ReadKey();

}

}

}

Q2.

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Q2

{

internal class Program

{

static void Main(string[] args)

{

Console.Write("Enter Number1: ");

string num1 = Console.ReadLine();

Console.Write("Enter Number2: ");

string num2 = Console.ReadLine();

if (double.TryParse(num1, out double value1) && double.TryParse(num2, out double value2))

{

double sum = value1 + value2;

double sub = value1 - value2;

double div = value1 / value2;

double mul = value1 \* value2;

Console.WriteLine("Sum value is: " + sum);

Console.WriteLine("Subtraction value is: " + sub);

Console.WriteLine("Division value is: " + div);

Console.WriteLine("Multiplication is: " + mul);

}

else

{

Console.WriteLine("Invalid value");

}

Console.ReadKey();

}

}

}

Q3.

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Q3

{

internal class Program

{

static void Main(string[] args)

{

Console.Write("Enter the radius: ");

string radiusinput = Console.ReadLine();

if (double.TryParse(radiusinput, out double radius))

{

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

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

Console.WriteLine("Area of the circle: " + area);

Console.WriteLine("Circumference of the cicle: " + circumference);

}

else

{

Console.WriteLine("Enter valid inputs");

}

Console.ReadKey();

}

}

}

Q4.

using System;

using System.Collections.Generic;

using System.Diagnostics.Eventing.Reader;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Q4

{

internal class Program

{

static void Main(string[] args)

{

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

string numb = Console.ReadLine();

if (double.TryParse(numb,out double num))

{

if(num % 2 ==0)

{

Console.WriteLine("It is an even number");

}

else

{

Console.WriteLine("It is an odd number");

}

}

else

{

Console.WriteLine("Invalid input");

}

Console.ReadKey();

}

}

}

Q5.

using System;

using System.Collections.Generic;

using System.Data;

using System.Globalization;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Q5

{

internal class Program

{

static void Main(string[] args)

{

const int totalInputs = 10;

Console.WriteLine($"Enter {totalInputs} Numbers: ");

for(int i=1; i<=10; i++)

{

Console.WriteLine($"Number {i}: ");

string input = Console.ReadLine();

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

{

if(number %2 ==0)

{

Console.WriteLine(number + " Is an even number");

}

else

{

Console.WriteLine(number + " Is an odd number");

}

}

else

{

Console.WriteLine("Invalid number");

}

}

Console.ReadKey();

}

}

}