Lab 05

Q1.

using System;

using System.Collections.Generic;

using System.Linq;

using System.Runtime.InteropServices;

using System.Text;

using System.Threading.Tasks;

namespace Q1

{

class Program

{

static void Main(string[] args)

{

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

string inputradius = Console.ReadLine();

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

{

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

Console.WriteLine("Area is: " + area);

}

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

{

class Program

{

static void Main(string[] args)

{

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

if (double.TryParse(Console.ReadLine(), out double radius))

{

FindValues finder = new FindValues();

double area = finder.FindArea(radius);

double circumference = finder.FindCircumference(radius);

Console.WriteLine($"Area of the circle: {area}");

Console.WriteLine($"Circumference of the circle: {circumference}");

}

else

{

Console.WriteLine("Invalid input! Please enter a valid numeric value for the radius.");

}

Console.ReadKey();

}

}

class FindValues

{

public double FindArea(double radius)

{

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

return area;

}

public double FindCircumference(double radius)

{

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

return circumference;

}

}

}