**LAB 4**

**Question 1.1**

using System;

class Program

{

static void Main()

{

Console.WriteLine("Welcome to the Kilometer to Meter Converter!");

Console.Write("Enter a kilometer value: ");

string input = Console.ReadLine();

if (double.TryParse(input, out double kilometer))

{

ConvertValues converter = new ConvertValues();

converter.KilometerToMeter(kilometer);

}

else

{

Console.WriteLine("Invalid input. Please enter a valid number for kilometer value.");

}

Console.WriteLine("\nPress any key to exit.");

Console.ReadKey();

}

}

class ConvertValues

{

public void KilometerToMeter(double kilometer)

{

double meter = kilometer \* 1000;

Console.WriteLine("Meter value: " + meter);

}

}

**Question1.2**

using System;

class Program

{

static void Main()

{

Console.WriteLine("Welcome to the Kilometer to Meter Converter!");

Console.Write("Enter a kilometer value: ");

string input = Console.ReadLine();

if (double.TryParse(input, out double kilometer))

{

ConvertValues converter = new ConvertValues();

converter.KilometerToMeter(kilometer);

}

else

{

Console.WriteLine("Invalid input. Please enter a valid number for kilometer value.");

}

Console.WriteLine("\nPress any key to exit.");

Console.ReadKey();

}

}

class ConvertValues

{

public void KilometerToMeter(double kilometer)

{

double meter = kilometer \* 1000;

Console.WriteLine("Meter value: " + meter);

}

}

**Question1.3**

using System;

class Program

{

static void Main()

{

Console.WriteLine("Welcome to the Kilometer to Meter Converter!");

Console.Write("Enter a kilometer value: ");

string input = Console.ReadLine();

if (double.TryParse(input, out double kilometer))

{

ConvertValues converter = new ConvertValues();

double meter = converter.KilometerToMeter(kilometer);

Console.WriteLine("Meter value: " + meter);

}

else

{

Console.WriteLine("Invalid input. Please enter a valid number for kilometer value.");

}

Console.WriteLine("\nPress any key to exit.");

Console.ReadKey();

}

}

class ConvertValues

{

public double KilometerToMeter(double kilometer)

{

double meter = kilometer \* 1000;

return meter;

}

}

**Question 2**

using System;

class Program

{

static void Main()

{

Console.WriteLine("Welcome to the Circle Calculator!");

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

string input = Console.ReadLine();

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

{

FindValues calculator = new FindValues();

double area = calculator.FindArea(radius);

double circumference = calculator.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 number for the radius.");

}

Console.WriteLine("\nPress any key to exit.");

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;

}

}