

LAB 04

Question 01

```
01.using System;
```

```
namespace KilometerToMeterConverter
{
    public class ConvertValues
    {
        public void KilometerToMeter()
        {
            Console.WriteLine("Enter the
value in kilometers (km):");
            string input =
Console.ReadLine();

            if (double.TryParse(input, out
double kilometers))
            {
                double meters = kilometers *
1000;
```

```
Console.WriteLine($"{kilometers}
kilometers is equal to {meters} meters.");
    }
    else
    {
        Console.WriteLine("Invalid
input. Please enter a valid number for
kilometers.");
    }
}
}
```

```
class Program
{
    static void Main(string[] args)
    {
        ConvertValues converter = new
ConvertValues();
        converter.KilometerToMeter();
    }
}
```

```
}
```

```
02.using System;
```

```
namespace KilometerToMeterConverter
```

```
{
```

```
    public class ConvertValues
```

```
    {
```

```
        public void
```

```
KilometerToMeter(double kilometers)
```

```
    {
```

```
        double meters = kilometers *
```

```
1000;
```

```
        Console.WriteLine($"{kilometers}
```

```
kilometers is equal to {meters} meters.");
```

```
    }
```

```
}
```

```
class Program
```

```
{
```

```
    static void Main(string[] args)
```

```
    {
```

```
        Console.WriteLine("Enter the  
value in kilometers (km):");  
        string input =  
        Console.ReadLine();  
  
        if (double.TryParse(input, out  
double kilometers))  
        {  
            ConvertValues converter =  
new ConvertValues();  
  
converter.KilometerToMeter(kilometers);  
        }  
        else  
        {  
            Console.WriteLine("Invalid  
input. Please enter a valid number for  
kilometers.");  
        }  
    }  
}
```

03.using System;

```
namespace KilometerToMeterConverter
{
    public class ConvertValues
    {
        public double
        KilometerToMeter(double kilometers)
        {
            double meters = kilometers *
1000;
            return meters;
        }
    }

    class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Enter the
value in kilometers (km):");
```

```
        string input =  
Console.ReadLine();  
  
        if (double.TryParse(input, out  
double kilometers))  
        {  
            ConvertValues converter =  
new ConvertValues();  
            double result =  
converter.KilometerToMeter(kilometers);  
  
Console.WriteLine($"{kilometers}  
kilometers is equal to {result} meters.");  
        }  
        else  
        {  
            Console.WriteLine("Invalid  
input. Please enter a valid number for  
kilometers.");  
        }  
    }  
}
```

Question 02

◦ using System;

```
namespace
CircleAreaCircumferenceCalculator
{
    class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Enter the
radius of the circle:");
            string input =
Console.ReadLine();

            if (double.TryParse(input, out
double radius))
            {
                double area = Math.PI * radius
* radius;
```

```

        double circumference = 2 *
Math.PI * 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.");
    }
}
}
}
}

```

- using System;


```
namespace
CircleAreaCircumferenceCalculator
{
    public class FindValues
    {
        public double FindArea(double
radius)
        {
            return Math.PI * radius * radius;
        }

        public double
FindCircumference(double radius)
        {
            return 2 * Math.PI * radius;
        }
    }

    class Program
    {
        static void Main(string[] args)
```

```
{
    Console.WriteLine("Enter the
radius of the circle:");
    string input =
Console.ReadLine();

    if (double.TryParse(input, 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 number for
the radius.");
    }
}
}
```