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.");
            }
        }
    }
}
```