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Lab 04

Question 01

1.

```
using System;
namespace kmConverter
{
   class ConvertValues

      public void kilometeToMeter()
      {
         Console.WriteLine("Enter a kilometer value:");
         double kilometer = double.Parse(Console.ReadLine());

         double meter = kilometer * 1000;
         Console.WriteLine("{kilometer} kilometers is equal to {meter} meters.");
      }
   }

   class Program
   {
      static void Main()
```

```
        {
            ConvertValues converter = new ConvertValues();
            converter.kilometerToMeter();
        }
    }
}
```

2.

```
using System;

namespace kmConverter
{
    class ConvertValues
    {
        public void kilometerToMeter(double kilometer)
        {
            double meter = kilometer * 1000;
            Console.WriteLine("{kilometer} kilometers is equal to {meter} meters.");
        }
    }



    class Program
    {
        static void Main()
        {
            Console.WriteLine("Enter a kilometer value:");
```

```
            double kilometer = double.Parse(Console.ReadLine());

            ConvertValues converter = new ConvertValues();
            converter.kilometerToMeter(kilometer);
        }
    }
}
```

3.

```
using System;

namespace kilometerToMeterConverter
{
    class ConvertValues
    {
        public double KilometerToMeter(double kilometer)
        {
            double meter = kilometer * 1000;
            return meter;
        }
    }


    class Program
    {
        static void Main()
        {
```

```
            Console.WriteLine("Please enter a kilometer value:");
            double kilometer = double.Parse(Console.ReadLine());

            ConvertValues converter = new ConvertValues();

            // Call the KilometerToMeter method with return type and parameter and store the result in a variable
            double meter = converter.KilometerToMeter(kilometer);

            // Display the result in meters obtained from the method with return type and parameter
            Console.WriteLine("{kilometer} kilometers is equal to {meter} meters.");
        }
    }
}
```

Question 02

1.

```
using System;

namespace CircleProCalculator
{
    class Program
    {
        static void Main()
```

```
        {
            Console.WriteLine("Please enter the radius of the circle:");
            double radius = double.Parse(Console.ReadLine());

            double area = Math.PI * radius * radius;

            double circumference = 2 * Math.PI * radius;



            Console.WriteLine("The area of the circle is: {area}");
            Console.WriteLine("The circumference of the circle is: {circumference}");
        }
    }
}
```

2.

```
using System;
namespace CircleProCalculator
{
    class FindValues
    {
        public double FindArea(double radius)
        {
            // Calculate the area of the circle using the formula: area = π * radius * radius
            double area = Math.PI * radius * radius;
            return area;
        }
```

```
    public double FindCircumference(double radius)
    {
        // Calculate the circumference of the circle using the formula: circumference = 2 * π *
radius
        double circumference = 2 * Math.PI * radius;
        return circumference;
    }
  }



  class Program
  {
    static void Main()
    {
      Console.WriteLine("Please enter the radius of the circle:");
      double radius = double.Parse(Console.ReadLine());

      FindValues finder = new FindValues();
      double area = finder.FindArea(radius);
      double circumference = finder.FindCircumference(radius);

      Console.WriteLine("The area of the circle is: {area}");
      Console.WriteLine("The circumference of the circle is: {circumference}");
    }
  }
}
```