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C# LAB 04

Question 01

1.
```
using System;

public class ConvertValues
{
   public static void KilometerToMeter(int kilometer)
   {
      // Calculate the meter value from the kilometer value.
      int meter = kilometer * 1000;

      // Display the meter value.
      Console.WriteLine("The meter value is {0}.", meter);
   }
}

public class Program
{
   public static void Main(string[] args)
   {
      // Declare a variable to store the user input kilometer value.
      int kilometer;

      // Prompt the user to enter a kilometer value.
Console.WriteLine("Enter a kilometer value: ");
      kilometer = Convert.ToInt32(Console.ReadLine());

      // Create an object of the ConvertValues class.
var convertValues = new ConvertValues();

      // Call the KilometerToMeter method on the ConvertValues object.
      convertValues.KilometerToMeter(kilometer);
   }
}
```

2.

```
using System;

public class ConvertValues
{
   public static void KilometerToMeter(int kilometer)
   {
      // Calculate the meter value from the kilometer value.
      int meter = kilometer * 1000;

      // Display the meter value.
      Console.WriteLine("The meter value is {0}.", meter);
   }
}

public class Program
{
   public static void Main(string[] args)
   {
      // Declare a variable to store the user input kilometer value.
      int kilometer;

      // Prompt the user to enter a kilometer value.
Console.WriteLine("Enter a kilometer value: ");        kilometer
= Convert.ToInt32(Console.ReadLine());

      // Create an object of the ConvertValues class.
      var convertValues = new ConvertValues();

      // Call the KilometerToMeter method on the ConvertValues object, passing the kilometer value as
a parameter.
      convertValues.KilometerToMeter(kilometer);
   }
}
```

3.

```
using System;

public class ConvertValues
{
```

```
    public int KilometerToMeter(int kilometer)
    {
        // Calculate the meter value from the kilometer value.
        int meter = kilometer * 1000;

        // Return the meter value.
        return meter;
    }
}

public class Program
{
    public static void Main(string[] args)
    {
        // Declare a variable to store the user input kilometer value.
        int kilometer;

        // Prompt the user to enter a kilometer value.
Console.WriteLine("Enter a kilometer value: ");        kilometer
= Convert.ToInt32(Console.ReadLine());

        // Create an object of the ConvertValues class.
        var convertValues = new ConvertValues();

        // Call the KilometerToMeter method on the ConvertValues object, passing the kilometer value as
a parameter.
        int meter = convertValues.KilometerToMeter(kilometer);

        // Display the meter value.
        Console.WriteLine("The meter value is {0}.", meter);
    }
}
```

Question 02

1.

```
using System;
```

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

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

public class Program
{
   public static void Main(string[] args)
   {
      // Declare a variable to store the user input radius value.
double radius;

      // Prompt the user to enter a radius value.
Console.WriteLine("Enter a radius value: ");        radius
= Convert.ToDouble(Console.ReadLine());

      // Create an object of the FindValues class.
      var findValues = new FindValues();

      // Call the FindArea() method on the FindValues object, passing the radius value as a parameter.
      double area = findValues.FindArea(radius);

      // Call the FindCircumference() method on the FindValues object, passing the radius value as a
parameter.
      double circumference = findValues.FindCircumference(radius);

      // Display the area and circumference of the circle.
      Console.WriteLine("The area of the circle is {0}.", area);
      Console.WriteLine("The circumference of the circle is {0}.", circumference);
   }
}
```