

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);  
    }  
}
```