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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);
    }
}

```