D.M.A Deemantha

27344

C# LAB 02

1.

```
using System;

public class Program
{
   public static void Main(string[] args)
   {
      // Declare two variables to store the user input numbers.
      int number1;
int number2;

      // Prompt the user to enter two numbers.
Console.WriteLine("Enter the first number: ");        number1
= Convert.ToInt32(Console.ReadLine());
Console.WriteLine("Enter the second number: ");
number2 = Convert.ToInt32(Console.ReadLine());

      // Calculate the sum of the two numbers.
      int sum = number1 + number2;

      // Display the sum to the user.
      Console.WriteLine("The sum of the two numbers is {0}.", sum);
   }
}
```

2.

```
using System;

public class Program
{
   public static void Main(string[] args)
   {
      // Declare two variables to store the user input numbers.
      int number1;
int number2;        //
```

```
Prompt the user to
enter two numbers.
Console.WriteLine("
Enter the first
number: ");
number1 =
Convert.ToInt32(Co
nsole.ReadLine());
Console.WriteLine("
Enter the second
number: ");
number2 =
Convert.ToInt32(Co
nsole.ReadLine());

      // Calculate the sum, subtraction, multiplication and division of the two numbers.
int sum = number1 + number2;       int difference = number1 - number2;       int
product = number1 * number2;
      float quotient = (float)number1 / number2;

      // Display the results to the user.
      Console.WriteLine("The sum of the two numbers is {0}.", sum);
      Console.WriteLine("The difference of the two numbers is {0}.", difference);
      Console.WriteLine("The product of the two numbers is {0}.", product);
      Console.WriteLine("The quotient of the two numbers is {0}.", quotient);
   }
}
```

3.

```
using System;

public class Program
{
   public static void Main(string[] args)
   {
      // Declare a variable to store the radius of the circle.
      float radius;

      // Prompt the user to enter the radius of the circle.
Console.WriteLine("Enter the radius of the circle: ");       radius
= Convert.ToSingle(Console.ReadLine());
```

```
        // Calculate the area and circumference of the circle.
    float area = Math.PI * radius * radius;
        float circumference = 2 * Math.PI * radius;

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

4.

```
using System;

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

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

    // Check if the number is even or odd.
if (number % 2 == 0)
    {
      Console.WriteLine("The number is even.");
    }
else
    {
      Console.WriteLine("The number is odd.");
    }
  }
}
```

5.

```
using System;
```

```
public class Program
{
   public static void Main(string[] args)
   {
      // Declare an array to store the user input numbers.
int[] numbers = new int[10];

      // Prompt the user to enter 10 numbers.
for (int i = 0; i < 10; i++)
      {
         Console.WriteLine("Enter a number: ");
numbers[i] = Convert.ToInt32(Console.ReadLine());
      }

      // Check if each number is even or odd.
for (int i = 0; i < 10; i++)
      {
         if (numbers[i] % 2 == 0)
         {
            Console.WriteLine("The number {0} is even.", numbers[i]);
         }
else
         {
            Console.WriteLine("The number {0} is odd.", numbers[i]);
         }
      }
   }
}
```