Lab 02

1. Write a Console Application to calculate the sum of two user input numbers.

```
using System;


namespace ConsoleApplication1
{
   class Program
   {
      static void Main(string[] args)
      {


         Console.WriteLine("Enter the first number: ");
         int firstNumber = int.Parse(Console.ReadLine());
         Console.WriteLine("Enter the second number: ");
         int secondNumber = int.Parse(Console.ReadLine());
         int sum = firstNumber + secondNumber;



         Console.WriteLine("The sum of the two numbers is " + sum);



         Console.WriteLine("Press any key to continue...");
         Console.ReadKey();
      }
   }
}
```

2. Write a Console Application to calculate sum, subtraction, multiplication and division of two user input numbers

```
using System;


namespace ConsoleApplication1
{
   class Program
   {
      static void Main(string[] args)
      {


         Console.WriteLine("Enter the first number: ");
         int firstNumber = int.Parse(Console.ReadLine());
         Console.WriteLine("Enter the second number: ");
         int secondNumber = int.Parse(Console.ReadLine());



         int sum = firstNumber + secondNumber;
         int difference = firstNumber - secondNumber;
         int product = firstNumber * secondNumber;
         float quotient = firstNumber / secondNumber;



         Console.WriteLine("The sum of the two numbers is " + sum);
         Console.WriteLine("The difference of the two numbers is " + difference);
         Console.WriteLine("The product of the two numbers is " + product);
         Console.WriteLine("The quotient of the two numbers is " + quotient);
         Console.WriteLine("Press any key to continue...");
```

```
            Console.ReadKey();
        }
    }
}
```

3. Write a Console Application to calculate area and circumference of a circle for given radius.

```
using System;

namespace ConsoleApplication1
{
    class Program
    {
        static void Main(string[] args)
        {

            Console.WriteLine("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);


            Console.WriteLine("Press any key to continue...");
```

```
            Console.ReadKey();
        }
    }
}
```

4. Write a Console Application to check if a given number is even or odd.

```
using System;

namespace ConsoleApplication1
{
    class Program
    {
        static void Main(string[] args)
        {

            Console.WriteLine("Enter a number: ");
            int number = int.Parse(Console.ReadLine());



            bool isEven = number % 2 == 0;



            if (isEven)
            {
                Console.WriteLine("The number is even.");
            }
            else
            {
                Console.WriteLine("The number is odd.");
```

```
        }



        Console.WriteLine("Press any key to continue...");
        Console.ReadKey();
      }
   }
}
```

5. Upgrade the above console application which enables 10 user inputs and displays even or odd for each user input.

```
using System;


namespace ConsoleApplication1
{
   class Program
   {
      static void Main(string[] args)
      {


         int[] userInputs = new int[10];



         for (int i = 0; i < 10; i++)
         {
            Console.WriteLine("Enter a number: ");
            userInputs[i] = int.Parse(Console.ReadLine());
         }
```

```
        for (int i = 0; i < 10; i++)
        {
            bool isEven = userInputs[i] % 2 == 0;


            if (isEven)
            {
                Console.WriteLine("The number " + userInputs[i] + " is even.");
            }
            else
            {
                Console.WriteLine("The number " + userInputs[i] + " is odd.");
            }
        }



        Console.WriteLine("Press any key to continue...");
        Console.ReadKey();
    }
  }
}
```