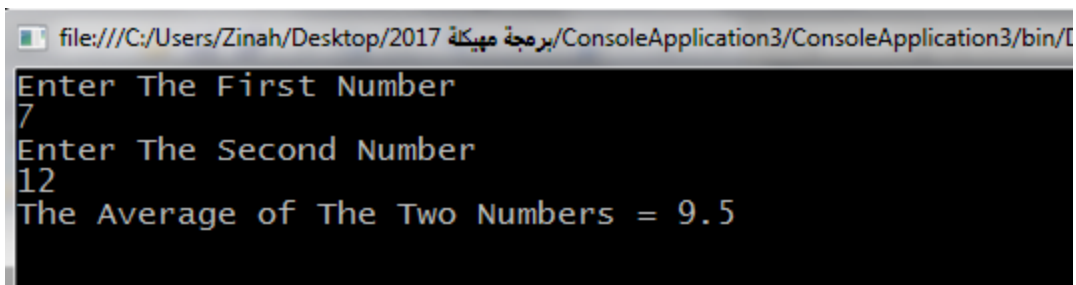


**Ex1:** Write a C# program, using static method, to find the average of two number entered by user in main program.

```
namespace ConsoleApplication31
{
    class Compute
    {
        private static double average(double x, double y)
        {
            double z = (x + y) / 2;
            return z;
        }

        static void Main(string[] args)
        {
            Console.WriteLine("Enter The First Number");
            double a = Double.Parse(Console.ReadLine());
            Console.WriteLine("Enter The Second Number");
            double b = Convert.ToDouble(Console.ReadLine());
            double res = average(a, b);
            Console.WriteLine("The Average of The Two Numbers = " + res);
            Console.ReadLine();
        }
    }
}
```

### The Output:



```
file:///C:/Users/Zinah/Desktop/2017 برمجة مبيكة/ConsoleApplication3/ConsoleApplication3/bin/
Enter The First Number
7
Enter The Second Number
12
The Average of The Two Numbers = 9.5
```

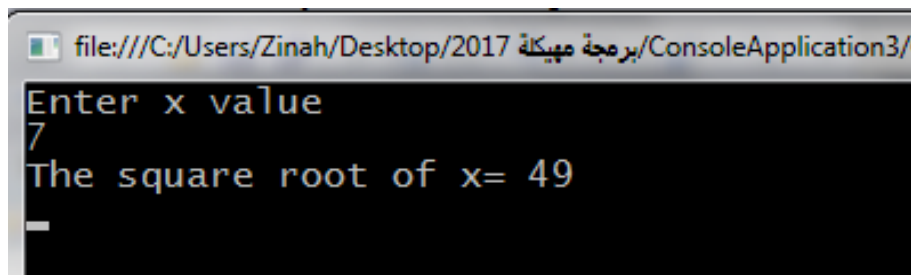
**Ex2:** Write a C# program, using static method, to find the square of entered number by user in main program.

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace ConsoleApplication3
{
    using System;
    using System.Collections.Generic;
    using System.Linq;
    using System.Text;

    namespace ConsoleApplication3
    {
        class Program
        {
            private static double sqrno(double x)
            {
                double z;
                z = x * x;
                return z;
            }
            static void Main(string[] args)
            {
                Console.WriteLine("Enter x value");
                double x = Convert.ToDouble(Console.ReadLine());
                Console.WriteLine("The square root of x= "+sqrno(x));
                Console.ReadLine();
            }
        }
    }
}
```

**The Output:**



```
file:///C:/Users/Zinah/Desktop/2017 برمجة مهيكله /ConsoleApplication3/
Enter x value
7
The square root of x= 49
```

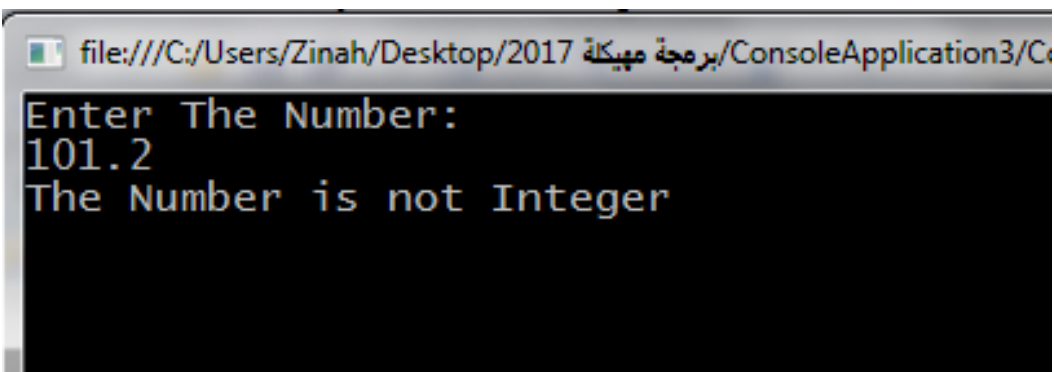
**Ex3:** Write a C# program, using static method, to determine whether the number input by user is integer or not.

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace ConsoleApplication3
{
    class IsIntNo
    {
        private static bool isInteger(float x)
        {
            if (Math.Ceiling(x) == x)
                return true;
            else
                return false;
        }

        static void Main(string[] args)
        {
            Console.WriteLine("Enter The Number:");
            float n = float.Parse(Console.ReadLine());
            if (isInteger(n))
                Console.WriteLine("The Number is Integer");
            else
                Console.WriteLine("The Number is not Integer");
            Console.ReadLine();
        }
    }
}
```

**The Output:**



```
file:///C:/Users/Zinah/Desktop/2017 برمجة مهيكله/ConsoleApplication3/C...
Enter The Number:
101.2
The Number is not Integer
```

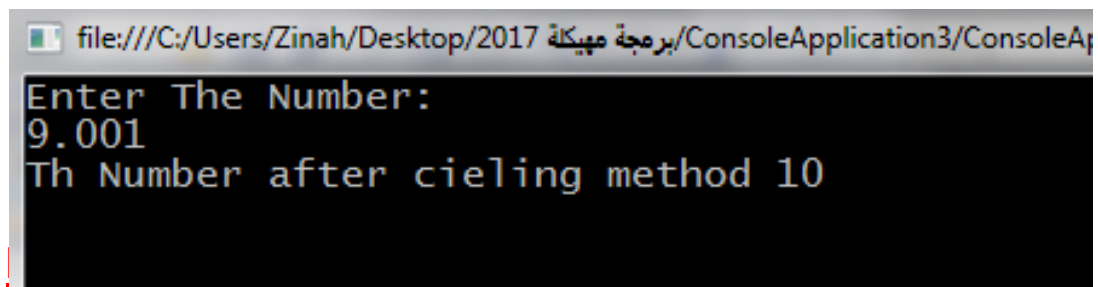
**Ex4:** Write a C# program to implement a static method that is equivalent to `Math.Ceiling()` in VC#

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace ConsoleApplication3
{
    class Ceiling
    {
        private static double ceilingNO(double x)
        {
            int z=(int) (x);
            if(z==x)
                return x;
            else
            {
                z=z+1;
                x=z;
                return x;
            }
        }

        static void Main(string[] args)
        {
            Console.WriteLine("Enter The Number:");
            double n = Double.Parse(Console.ReadLine());
            n = ceilingNO(n);
            Console.WriteLine("Th Number after cieling method "+n);
            Console.ReadLine();
        }
    }
}
```

### The Output:



The screenshot shows a console window with the following text:

```
file:///C:/Users/Zinah/Desktop/2017 برمجة مهيكله/ConsoleApplication3/ConsoleAp
Enter The Number:
9.001
Th Number after cieling method 10
```

**Q1/ Write a C# program, using static method, to find maximum number from three numbers.**

**Q2/ Write a C# program, using static method, to find minimum number from three numbers.**

**Q3/ Write a C# program, using static method, to find the product of two numbers.**

**Q4/ Write a C# program, using static method, to find the sum of two numbers.**

**Q5/ Write a C# program, using static method, to find  $x^y$**