Course 2\Third lab

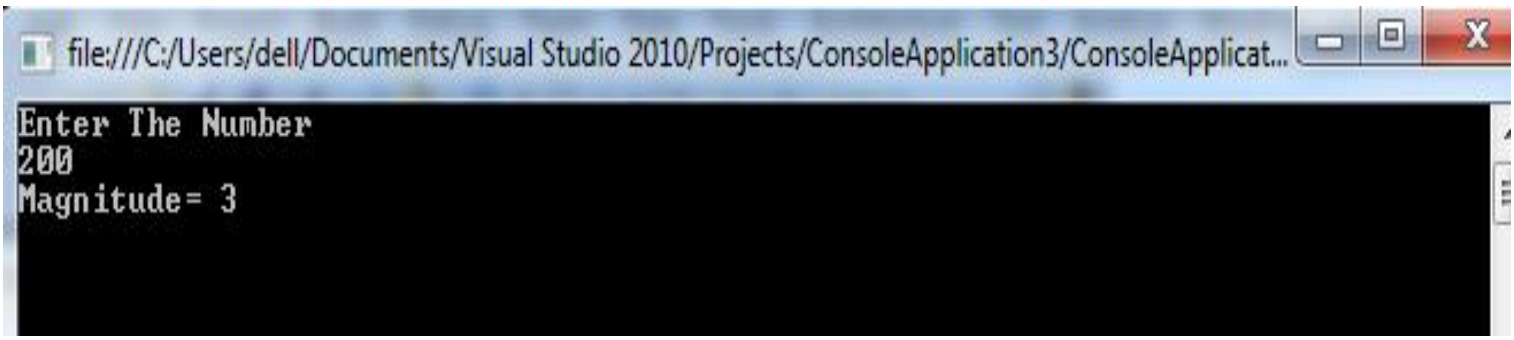
Ex1: Write C# program to compute the order of magnitude of an integer number.

```
namespace ConsoleApplication3
{
    class Program
    {
        static void Main(string[] args)
        {

          int num, mag;
            mag = 0;
            Console.WriteLine("Enter The Number");
            num = Int32.Parse(Console.ReadLine());
            do
            {
                mag++;
                num = num / 10;
            }
            while (num > 0) ;
                Console.WriteLine("Magnitude= " + mag);
            Console.ReadKey();

        }
    }
}
```

The Output:



Ex2: Write a C# program to read the grade of students and find the average of these grades?(using grade=-1 as a condition to stop the reading of grades).in while steatment

```
namespace ConsoleApplication3
{
    class Program
    {
        static void Main(string[] args)
        {

            double gr, sum, av;
            int no;
            no = 0;
            sum = 0;
            Console.WriteLine("Enter The Student Grade");
            gr = Double.Parse(Console.ReadLine());
            while (gr != -1)
            {
                no = no + 1;
                sum= sum + gr;
                Console.WriteLine("Enter The Student Grade");
                gr = Double.Parse(Console.ReadLine());
            }
            av = sum/ no;
            Console.WriteLine("The Average= "+av);
            Console.ReadLine();


        }
    }
}
```

The Output:

```
Enter The Student Grade
80
Enter The Student Grade
90
Enter The Student Grade
77
Enter The Student Grade
-1
The Average= 82.3333333333333
```

حل المثال السابق بطريقه الdo - while steatment

```
namespace ConsoleApplication11
{
    class Program
    {
        static void Main(string[] args)
        {

double gr, total, av;
            int no;
            no = 0;
            total = 0;
            Console.WriteLine("Enter The Student Grade");
            gr = Double.Parse(Console.ReadLine());
            do

            {
                no = no + 1;
                total = total + gr;
                Console.WriteLine("Enter The Student Grade");
                gr = Double.Parse(Console.ReadLine());
            }
            while (gr != -1);
            av = total / no;
            Console.WriteLine("The Average= " + av);
            Console.ReadLine();
     }
    }
}
```

The Output:

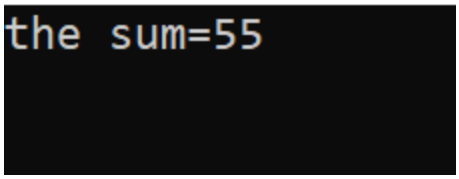
```
Enter the Number
3
Enter the Number
-9
Enter the Number
-12
Enter the Number
18
Enter the Number
-7
Enter the Number
-20
Number of even and negative =2
```

Q2/ Write a C# program to find the sum of numbers from 1 to 10.

```
namespace ConsoleApplication11
{
    class Program
    {
        static void Main(string[] args)
        {

            int x, sum;
            x = 1;
            sum = 0;
            do
            {
                sum = sum + x;
                x++;
            }
            while (x <= 10) ;
                Console.WriteLine("the sum=" + sum);
            Console.ReadLine();
        }
    }
}
```

The Output:



Q3/ Write a C# program to find the sum of five numbers.

```
namespace ConsoleApplication11
{
    class Program
    {
        static void Main(string[] args)
        {

            int x, sum , no;
            sum = 0;
            no = 0;
           do

            {
                Console.WriteLine("Enter The Number");
                x = Int32.Parse(Console.ReadLine());
                sum = sum + x;
                no++;
            }
            while (no<5);
            Console.WriteLine("the sum=" + sum);
            Console.ReadLine();

        }
    }
}
```

The Output:

```
Enter The Number
10
Enter The Number
2
Enter The Number
8
Enter The Number
15
Enter The Number
3
the sum=38
```

Q4/ Write a C# program to find the sum off odd numbers from 1 to 25.

```
namespace ConsoleApplication11
{
    class Program
    {
        static void Main(string[] args)
        {

            int x, sum;
            sum = 0;
            x = 1;
            do
            {

                sum = sum + x;
                x=x+2;
            }
            while (x<=25);

            Console.WriteLine("the sum=" + sum);
            Console.ReadLine();

        }
    }
}
```

The Output:

```
the sum=169
```