Lab 03

Methods and Arrays

1- Write a method that takes a string and prints the alphabetical order of each character

```
class Program
 {
     static void Main(string[] args)
     {
         Console.WriteLine("Enter a word");
         string word = Console.ReadLine();
         printOrder(word);
     }

     static void printOrder(string s)
     {
         string lowerWord = s.ToLower();
         foreach (char ch in lowerWord)
         {
             Console.Write((int)(ch - 'a'));
         }
     }
 }
```

2- Write a method that takes a variable number of values and calculates the average

```
    class Program
    {
        static void Main(string[] args)
        {
            double avg1 = average(5, 8, 12, 10, 50, 123.5, 44);
            double avg2 = average(2, 4.5, 9);
            double avg3 = average(10, 11);
            double avg4 = average();

            Console.WriteLine("avg1 is {0} \navg2 is {1} \navg3 is {2} \navg4 is
{3}", avg1, avg2, avg3, avg4);
        }

        static double average(params double[] numbers)
        {
            double sum = 0;
            double avg = 0;
            foreach (double number in numbers)
            {
                sum += number;
            }
            avg = sum / numbers.Length;
            return avg;
        }
    }
```

3- Write a method that calculates the maximum of two integers, then use it to calculate the maximum of three integers

```
   class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Enter the first number");
            int a = int.Parse(Console.ReadLine());
            Console.WriteLine("Enter the second number");
            int b = int.Parse(Console.ReadLine());
            Console.WriteLine("Enter the third number");
            int c = int.Parse(Console.ReadLine());

            Console.WriteLine("The largest of three number is : {0}",
myMax(myMax(a, b), c));
        }

        static int myMax(int x, int y)
        {
            return x > y ? x : y;
        }
    }
```