Datetime Methods

```
using System;
namespace ConsoleApp17
{
    class Program
         static void Main(string[] args)
             DateTime sampledatetime = new DateTime(2020, 9, 25, 7, 10, 26);
             Console.WriteLine("Day:{0}", sampledatetime.Day);
             Console.WriteLine("Day:{0}", sampledatetime.Month);
             Console.WriteLine("Day:{0}", sampledatetime.Year);
             Console.WriteLine("Day:{0}", sampledatetime.Hour);
Console.WriteLine("Day:{0}", sampledatetime.Minute);
             Console.WriteLine("Day:{0}", sampledatetime.Second);
             Console.WriteLine("Day:{0}", sampledatetime.DayOfWeek);
             Console.WriteLine("Day:{0}", sampledatetime.Ticks);
Console.WriteLine("Day:{0}", sampledatetime.Kind);
             Console.WriteLine("Day:{0}", sampledatetime.TimeOfDay);
             DateTime day = DateTime.Now;
             Console.WriteLine("Day:{0}", day.Day);
Console.WriteLine("Day:{0}", day.Month);
             Console.WriteLine("Day:{0}", day.Year);
             Console.WriteLine("Day:{0}", day.AddYears(2));
             Console.WriteLine("Day:{0}", day.AddMonths(2));
             Console.WriteLine();
            int result = DateTime.Compare(sampledatetime, day);
             if(result == 0)
             {
                  Console.WriteLine("Both dates are equal");
             else if(result <0)</pre>
             {
                  Console.WriteLine("first date is earlier");
             else
             {
                  Console.WriteLine("first date is later");
              }
             // Console.WriteLine("Day:{0}", day.Add(10,0,0,0));
         }
    }
}
```

String Methods

```
static void Main(string[] args)
            string s1 = "hello how are you";
            // string s2 = (string)s1.Clone();
            string s2 = s1.Substring(6);
            Console.WriteLine(s2);
                                                   ";
            string s3 = "
            Console.WriteLine(s3.Trim());
            string s4 = "cake";
            Console.WriteLine(s4.Replace('c', 't'));
            Console.WriteLine(s1.Split('#'));
            string[] s5 = s1.Split(' ');
            foreach(string s in s5)
            {
                Console.WriteLine(s);
            }
             char[] ch = new char[10];
            s4.CopyTo(1,ch,0,2);
            Console.WriteLine(ch);
            Console.WriteLine(string.Compare(s1,s2));//s1==s2 - 0
            Console.WriteLine(string.Compare(s3, s4));//s3>s4 - 1
            Console.WriteLine(string.Compare(s2, s3));//s2<s3 - -1</pre>
            Console.WriteLine(string.Concat(s2, s3));
            Console.WriteLine(s1.ToUpper());
            Console.WriteLine(s1.Contains(s2));
            Console.WriteLine(s2.Contains(s3));
        }
                                         Params
        public void show(params object[] val)//takes variable number of arguments
            for (int i = 0; i < val.Length; i++)</pre>
                Console.WriteLine(val[i]);
        static void Main(string[] args)
            Program p1 = new Program();
            p1.show("john", "ram", 101, 11, "abc");
        }
```

Jagged Array

```
static void Main(string[] args)
       int[][] arr = new int[2][];
       arr[0] = new int[] { 11, 12, 12, 13 };
       arr[1] = new int[] { 20, 20, 30 };
       int[][] arr1 = new int[2][]
         new int[] { 11, 12, 13 },
         new int[] { 20, 30 }
       };
       for (int i=0;i<arr1.Length;i++)</pre>
         for(int j=0;j<arr1[i].Length;j++)</pre>
            Console.Write(arr1[i][j] + " ");
         Console.WriteLine();
       }
    }
                                    Two Dimensional Array
static void Main(string[] args)
       int[,] arr = new int[3, 3];
       arr[0, 1] = 10;
       arr[0, 2] = 11;
       arr[1, 1] = 12;
       arr[2, 1] = 13;
       int[,] arr1 = { { 1,2,1},{ 2,2,2},{ 2,3,4} };//initializing at the time of declaring array
       for (int i=0;i<3;i++)
         for(int j=0;j<3;j++)
            Console.Write(arr1[i, j]+" ");
         Console.WriteLine();
       }
    }
```