

Liste tarzı collection sınıflar

Sözlük tarzı collection sınıflar

```
public static void Main()
            ArrayList al = new ArrayList();
            for (int i = 0; i < 10; ++i)
                al.Add(i * 10);
            IEnumerator ie = al.GetEnumerator();
            while (ie.MoveNext())
            {
                int val = (int)ie.Current;
                Console.Write("{0} ", val);
            }
            Console.WriteLine();
            ie.Reset();
            while (ie.MoveNext())
                int val = (int)ie.Current;
                Console.Write("{0} ", val);
            Console.WriteLine();
        }
    }
}
/*
 - Liste Tarzı Collection Sınıflar
 - Sözlük Tarzı Collection sınıflar
 - Atipik Collection Sınıflar
 */
using System;
using System.Collections;
namespace BM
    class App
        public static void Main()
            ArrayList al = new ArrayList();
            for (int i = 0; i < 10; ++i)
                al.Add(i * 10);
            Sample.Walk(al);
        }
    class Sample
        public static void Walk(IEnumerable ie)
            IEnumerator ien = ie.GetEnumerator();
            while(ien.MoveNext())
                Console.Write("{0} ", (int)ien.Current);
```

```
Console.WriteLine();
        }
    }
}
using System;
using System.Collections;
namespace BM
{
    class App
        public static void Main()
            double[] d = new double[] { 1, 2, 3, 4, 5 };
            int[] i = new int[] { 10, 20, 30, 40, 50 };
string[] s = new string[] {"Hülya", "Ahmet", "Harun", "Murat", "Fatma"};
            ArrayList al = new ArrayList();
            al.Add("Bursa");
            al.Add("İzmir");
            al.Add("Adana");
            Sample.Walk(d);
            Sample.Walk(i);
            Sample.Walk(s);
            Sample.Walk(al);
        }
    }
    class Sample
        public static void Walk(IEnumerable ie)
            IEnumerator ien = ie.GetEnumerator();
            while(ien.MoveNext())
                Console.Write("{0} ", ien.Current.ToString());
            Console.WriteLine();
        }
    }
}
/*
  1 2 3 4 5
10 20 30 40 50
Hülya Ahmet Harun Murat Fatma
Bursa İzmir Adana
  */
using System;
using System.Collections;
namespace BM
{
    class App
```

```
{
    public static void Main()
        MyCollection mc = new MyCollection(10, 20);
        IEnumerator ien = mc.GetEnumerator();
        while (ien.MoveNext())
            int val = (int)ien.Current;
            Console.Write("{0} ", val);
        Console.WriteLine();
        foreach(int x in mc)
            Console.Write("{0} ", x);
        Console.WriteLine();
    }
}
class MyCollection : IEnumerable
    private int m_low;
    private int m_high;
    public MyCollection(int low, int high)
        m_low = low;
        m_high = high;
    public IEnumerator GetEnumerator()
        return new MyEnumerator(this);
    private class MyEnumerator : IEnumerator
        private MyCollection m_mc;
        private int m_curVal;
        public MyEnumerator(MyCollection mc)
            m_mc = mc;
            m_curVal = mc.m_low-1;
        }
        public bool MoveNext()
            if (m_curVal == m_mc.m_high)
                return false:
            ++m_curVal;
            return true;
        public object Current
            get { return m_curVal; }
        public void Reset()
            m_curVal = m_mc.m_low - 1;
    }
}
```

```
10 11 12 13 14 15 16 17 18 19 20
10 11 12 13 14 15 16 17 18 19 20
 */
using System;
using System.Collections;
namespace BM
   class App
       public static void Main()
          ArrayList al = new ArrayList();
          for (int i = 0; i < 10; ++i)
              al.Add(i);
          Foo(al);
       }
       public static void Foo(ICollection ic)
          int[] a = new int[ic.Count];
          ic.CopyTo(a, 0);
          foreach(int x in a)
              Console.Write("{0} ", x);
          Console.WriteLine();
       }
   }
}
/*
ICollection
- CopyTo
Count
- IsSynchronized
- SyncRoot
 */
using System;
using System.Collections;
namespace BM
   class App
       public static void Main()
          Hashtable ht = new Hashtable();
```

```
ht.Add("Koray Aki", 123);
            ht.Add("Hülya Aydın", 512);
            ht.Add("Mert Ergin", 512);
            int val = (int)ht["Koray Aki"];
            Console.WriteLine(val);
            ht["Hakan Düzgün"] = 654;
            ht["Hakan Düzgün"] = 657;
            val = (int)ht["Hakan Düzgün"];
            Console.WriteLine(val);
            foreach(string key in ht.Keys)
                Console.Write("{0} ", key);
            Console.WriteLine();
            foreach (int v in ht.Values)
                Console.Write("{0} ", v);
            Console.WriteLine();
        }
    }
/*
ILıst
IDictionary
Hashtable >>> Eleman Sayısı 20'den fazla olduğu durumlarda kullanılır
SortedList >>> Eleman sayısı azsa kullanılır
123
Koray Aki Hülya Aydın Mert Ergin Hakan Düzgün
123 512 512 657
  */
using System;
using System.Collections;
namespace BM
    class App
    {
        public static void Main()
            SortedList sl = new SortedList();
            sl.Add("Koray Aki", 123);
            sl.Add("Hülya Aydın", 512);
sl.Add("Mert Ergin", 512);
            int val = (int)sl["Koray Aki"];
            Console.WriteLine(val);
            sl["Hakan Düzgün"] = 654;
            sl["Hakan Düzgün"] = 657;
            val = (int)sl["Hakan Düzgün"];
```

```
Console.WriteLine(val);
          foreach(string key in sl.Keys)
              Console.Write("{0} ", key);
          Console.WriteLine();
          foreach (int v in sl.Values)
              Console.Write("{0} ", v);
          Console.WriteLine();
       }
   }
/*
ILıst
IDictionary
Hashtable >>> Eleman Sayısı 20'den fazla olduğu durumlarda kullanılır
SortedList >>> Eleman sayısı azsa kullanılır
123
657
Koray Aki Hülya Aydın Mert Ergin Hakan Düzgün
123 512 512 657
 */
```