Java Examples - Use Collections

Previous Page Next Page

Problem Description

How to use different types of Collections ?

Solution

Following example uses different types of collection classes and adds an element in those collections.

```
import java.util.Map;
import java.util.Set;
import java.util.SortedMap;
import java.util.SortedSet;
import java.util.TreeMap;
import java.util.TreeSet;

import java.util.ArrayList;
import java.util.Collection;
import java.util.HashMap;
import java.util.HashSet;
import java.util.Iterator;
import java.util.LinkedHashMap;
import java.util.LinkedHashSet;
import java.util.LinkedList;
import java.util.List;

public class Main {
   public static void main(String[] args) {
      List lnkLst = new LinkedList();
      lnkLst.add("element1");
      lnkLst.add("element2");
      lnkLst.add("element3");
      lnkLst.add("element4");
      displayAll(lnkLst);

      List aryLst = new ArrayList();
      aryLst.add("x");
      aryLst.add("y");
      aryLst.add("z");
      aryLst.add("w");
      displayAll(aryLst);

      Set hashSet = new HashSet();
      hashSet.add("set1");
      hashSet.add("set2");
      hashSet.add("set3");
      hashSet.add("set4");
      displayAll(hashSet);

      SortedSet treeSet = new TreeSet();
      treeSet.add("1");
      treeSet.add("2");
      treeSet.add("3");
      treeSet.add("4");
      displayAll(treeSet);

      LinkedHashSet lnkHashset = new LinkedHashSet();
      lnkHashset.add("one");
      lnkHashset.add("two");
      lnkHashset.add("three");
      lnkHashset.add("four");
      displayAll(lnkHashset);

      Map map1 = new HashMap();
      map1.put("key1", "J");
      map1.put("key2", "K");
      map1.put("key3", "L");
      map1.put("key4", "M");
      displayAll(map1.keySet());
      displayAll(map1.values());

      SortedMap map2 = new TreeMap();
```

```
      map2.put("key1", "JJ");
      map2.put("key2", "KK");
      map2.put("key3", "LL");
      map2.put("key4", "MM");
      displayAll(map2.keySet());
      displayAll(map2.values());

      LinkedHashMap map3 = new LinkedHashMap();
      map3.put("key1", "JJJ");
      map3.put("key2", "KKK");
      map3.put("key3", "LLL");
      map3.put("key4", "MMM");
      displayAll(map3.keySet());
      displayAll(map3.values());
   }
   static void displayAll(Collection col) {
      Iterator itr = col.iterator();
      while (itr.hasNext()) {
         String str = (String) itr.next();
         System.out.print(str + " ");
      }
      System.out.println();
   }
}
```

Result

The above code sample will produce the following result.

```
element1 element2 element3 element4
x y z w
set1 set2 set3 set4
1 2 3 4
one two three four
key4 key3 key2 key1
M L K J
key1 key2 key3 key4
JJ KK LL MM
key1 key2 key3 key4
JJJ KKK LLL MMM
```

Previous Page Next Page