

```
1 /**
2  *
3  */
4 package exerciseOne;
5
6 import java.util.*;
7
8 /**
9  * @author patar450
10  *
11  */
12 public class SetUsage {
13     /**
14      * A hash set is a collection that stores items
15      * in an unordered manner, but allows for quick
16      * access to items.
17      * It does not allow duplicate items, which is
18      * why Elizabeth doesn't show twice.
19      */
20     public static void usingSets() {
21         Set<String> set = new HashSet<String>();
22         set.add("Bernadine");
23         set.add("Elizabeth");
24         set.add("Gene");
25         set.add("Elizabeth");
26         set.add("Clara");
27         System.out.println(set);
28     }
29
30     /**
31      * A TreeSet is a collection that stores items in an ordered
32      * manner. As with the HashSet the TreeSet will not allow duplicate
33      * elements. The TreeSet uses an upside down tree structure to store
34      * the elements.
35      *
36      * A SortedSet is an interface in the Java Collections Framework that
37      * adds to the Set interface. SortedSet specifies the elements into a
38      * sorted ascending order.
39      */
40     public static void sortedSets() {
41         Set<String> sortedSet = new TreeSet<String>();
42         sortedSet.add("Bernadine");
43         sortedSet.add("Elizabeth");
44         sortedSet.add("Gene");
45         sortedSet.add("Elizabeth");
46         sortedSet.add("Clara");
47         System.out.println(sortedSet);
48     }
49
50     /**
51      * For testing purposes
52      * @param args
53      */
54     public static void main(String[] args) {
55         // TODO Auto-generated method stub
56         System.out.println("Use of Sets(HashSet):");
57         usingSets();
58         System.out.println("\nUse of SortedSet(TreeSet):");
59         sortedSets();
60     }
61
62 }
```

SetUsage.java

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