```
File - /Users/stanleyzheng/IdeaProjects/Java bootcamp/GLAB303_11_5/src/ExampleOne.java
 1 import java.util.HashSet;
 2
 3 public class ExampleOne {
        public static void main(String[] args){
 4
 5
             HashSet<Integer> evenNumber = new HashSet
   <>();
             evenNumber.add(2);
 6
             evenNumber.add(4);
 7
             evenNumber.add(6);
 8
             System.out.println("HashSet: " + evenNumber
 9
   );
             HashSet<Integer> numbers = new HashSet<>();
10
             numbers.addAll(evenNumber);
11
12
            numbers.add(5);
            System.out.println("New HashSet: " +
13
   numbers);
14
15
        }
16 }
17
```

```
File - /Users/stanleyzheng/IdeaProjects/Java bootcamp/GLAB303_11_5/src/ExampleTwo.java
 1 import java.util.HashSet;
 2
 3 public class ExampleTwo {
        public static void main(String[] args){
 4
 5
            HashSet<Integer> evenNumbers = new HashSet
   <>();
 6
            evenNumbers.add(2);
 7
            evenNumbers.add(4);
 8
            System.out.println("HashSet1: " +
 9
   evenNumbers);
            HashSet<Integer> numbers = new HashSet<>();
10
            numbers.add(1);
11
12
             numbers.add(3);
            System.out.println("HashSet2: " + numbers);
13
14
15
            numbers.addAll(evenNumbers);
            System.out.println("Union is: " + numbers);
16
17
18
        }
19 }
20
```

```
File - /Users/stanleyzheng/IdeaProjects/Java bootcamp/GLAB303_11_5/src/ExampleFour.java
 1 import java.util.HashSet;
 2
 3 public class ExampleFour {
        public static void main(String[] args){
 4
             HashSet<String> hset = new HashSet<>();
 5
 6
 7
             hset.add("Apple");
             hset.add("Mango");
 8
             hset.add("Grapes");
 9
             hset.add("Orange");
10
             hset.add("Fig");
11
             hset.add("Apple");
12
             hset.add("Mango");
13
             hset.add(null);
14
15
             hset.add(null);
             for(String str:hset){
16
17
                 System.out.println("---> " + str);
             }
18
19
        }
20 }
21
```

```
1 import java.util.HashSet;
 2
 3 public class ExampleThree {
       public static void main(String[] args){
 4
           HashSet<Integer> primeNumbers = new HashSet
 5
   <>();
           primeNumbers.add(1);
 6
 7
           primeNumbers.add(3);
           primeNumbers.add(5);
 8
 9
           System.out.println("HashSet1: " +
   primeNumbers);
10
11
           HashSet<Integer> oddNumbers = new HashSet
   <>();
12
           oddNumbers.add(1);
           oddNumbers.add(3);
13
14
           oddNumbers.add(5);
15
           System.out.println("HashSet2: " +
16
   oddNumbers);
17
           primeNumbers.removeAll(oddNumbers);
18
19
20
           System.out.println("Difference : " +
   primeNumbers);
21
       }
22 }
23
```

```
1 import java.util.Comparator;
 2
3 public class CitiesComparator implements Comparator
   <String> {
       @Override
 4
       public int compare(String cities_one, String
5
   cities_two) {
           int value = cities_one.compareTo(cities_two
 6
   );
7
           if(value > 0) return -1;
8
           else if (value < 0) return 1;</pre>
9
           else return 0;
10
11
       }
12 }
13
```

```
File - /Users/stanleyzheng/IdeaProjects/Java bootcamp/GLAB303_11_5/src/TreeSetExampleCom.java
 1 import javax.accessibility.AccessibleIcon;
 2 import java.util.TreeSet;
 3
 4 public class TreeSetExampleCom {
        public static void main(String[] args){
 5
 6
            TreeSet<String> cities = new TreeSet<>(new
   CitiesComparator());
            cities.add("UAE");
 7
            cities.add("Mumbai");
 8
 9
             cities.add("NewYork");
            cities.add("Hyderabad");
10
             cities.add("Karachi");
11
             cities.add("Xanada");
12
             cities.add("Lahore");
13
            cities.add("Zagazig");
14
             cities.add("Yingkou");
15
16
            System.out.println("TreeSet: " + cities);
17
18
        }
19 }
20
```

```
File - /Users/stanleyzheng/IdeaProjects/Java bootcamp/GLAB303_11_5/src/TreesetExampleone.java
 1 import java.util.Iterator;
 2 import java.util.TreeSet;
 3
 4 public class TreesetExampleone {
        public static void main(String[] args){
 5
            TreeSet<Integer> num_Treeset = new TreeSet
 6
   <>();
 7
             num_Treeset.add(20);
            num_Treeset.add(5);
 8
 9
             num_Treeset.add(15);
             num_Treeset.add(25);
10
            num_Treeset.add(10);
11
12
13
            Iterator<Integer> iter_set = num_Treeset.
   iterator();
            System.out.println("TreeSet using Iterator
14
    : ");
            while(iter_set.hasNext()){
15
                 System.out.print(iter_set.next());
16
                 System.out.print(", ");
17
18
             }
19
        }
20 }
21
```

```
File - /Users/stanleyzheng/IdeaProjects/Java bootcamp/GLAB303_11_5/src/TreesetExampleTwo.java
 1 import java.util.TreeSet;
 2
 3 public class TreesetExampleTwo {
        public static void main(String[] args){
             TreeSet<Integer> numbers = new TreeSet<>();
 5
             numbers.add(2);
 6
 7
             numbers.add(5);
 8
             numbers.add(6);
             System.out.println("TreeSet: " + numbers);
 9
10
             boolean value1 = numbers.remove(5);
11
             System.out.println("Is 5 removed? " +
12
   value1);
13
14
             boolean value2 = numbers.removeAll(numbers
   );
15
             System.out.println("Are all elements
16
   removed? " + value2);
17
        }
18 }
19
```