```java
import java.util.HashSet;

public class ExampleOne {
    public static void main(String[] args){
        HashSet<Integer> evenNumber = new HashSet
<>();
        evenNumber.add(2);
        evenNumber.add(4);
        evenNumber.add(6);
        System.out.println("HashSet: " + evenNumber
);
        HashSet<Integer> numbers = new HashSet<>();
        numbers.addAll(evenNumber);
        numbers.add(5);
        System.out.println("New HashSet: " +
numbers);

    }
}

```

```java
import java.util.HashSet;

public class ExampleTwo {
    public static void main(String[] args){
        HashSet<Integer> evenNumbers = new HashSet
<>();

        evenNumbers.add(2);
        evenNumbers.add(4);
        System.out.println("HashSet1: " +
evenNumbers);
        HashSet<Integer> numbers = new HashSet<>();
        numbers.add(1);
        numbers.add(3);
        System.out.println("HashSet2: " + numbers);

        numbers.addAll(evenNumbers);
        System.out.println("Union is: " + numbers);

    }
}

```

```java
import java.util.HashSet;

public class ExampleFour {
    public static void main(String[] args){
        HashSet<String> hset = new HashSet<>();

        hset.add("Apple");
        hset.add("Mango");
        hset.add("Grapes");
        hset.add("Orange");
        hset.add("Fig");
        hset.add("Apple");
        hset.add("Mango");
        hset.add(null);
        hset.add(null);
        for(String str:hset){
            System.out.println("---> " + str);
        }
    }
}

```

```java
import java.util.HashSet;

public class ExampleThree {
    public static void main(String[] args){
        HashSet<Integer> primeNumbers = new HashSet
<>();
        primeNumbers.add(1);
        primeNumbers.add(3);
        primeNumbers.add(5);
        System.out.println("HashSet1: " +
primeNumbers);

        HashSet<Integer> oddNumbers = new HashSet
<>();
        oddNumbers.add(1);
        oddNumbers.add(3);
        oddNumbers.add(5);

        System.out.println("HashSet2: " +
oddNumbers);

        primeNumbers.removeAll(oddNumbers);

        System.out.println("Difference : " +
primeNumbers);
    }
}

```

```java
import java.util.Comparator;

public class CitiesComparator implements Comparator<String> {
    @Override
    public int compare(String cities_one, String cities_two) {
        int value = cities_one.compareTo(cities_two);

        if(value > 0) return -1;
        else if (value < 0) return 1;
        else return 0;
    }
}

```

```java
import javax.accessibility.AccessibleIcon;
import java.util.TreeSet;

public class TreeSetExampleCom {
    public static void main(String[] args){
        TreeSet<String> cities = new TreeSet<>(new
  CitiesComparator());
        cities.add("UAE");
        cities.add("Mumbai");
        cities.add("NewYork");
        cities.add("Hyderabad");
        cities.add("Karachi");
        cities.add("Xanada");
        cities.add("Lahore");
        cities.add("Zagazig");
        cities.add("Yingkou");

        System.out.println("TreeSet: " + cities);
    }
}

```

```java
import java.util.Iterator;
import java.util.TreeSet;

public class TreesetExampleone {
    public static void  main(String[] args){
        TreeSet<Integer> num_Treeset = new TreeSet
<>();
        num_Treeset.add(20);
        num_Treeset.add(5);
        num_Treeset.add(15);
        num_Treeset.add(25);
        num_Treeset.add(10);

        Iterator<Integer> iter_set = num_Treeset.
iterator();
        System.out.println("TreeSet using Iterator
: ");
        while(iter_set.hasNext()){
            System.out.print(iter_set.next());
            System.out.print(", ");
        }
    }
}

```

```java
import java.util.TreeSet;

public class TreesetExampleTwo {
    public static void main(String[] args){
        TreeSet<Integer> numbers = new TreeSet<>();
        numbers.add(2);
        numbers.add(5);
        numbers.add(6);
        System.out.println("TreeSet: " + numbers);

        boolean value1 = numbers.remove(5);
        System.out.println("Is 5 removed? " + value1);

        boolean value2 = numbers.removeAll(numbers);

        System.out.println("Are all elements removed? " + value2);
    }
}

```