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//Program to demonstrate HashSet Collection
package com.tnsif.collection.set;

import java.util.Collections;
import java.util.HashSet;
import java.util.Spliterator;

public class HashSetDemo {
 static void addElements(HashSet<Integer>
numberHashSet) {
  numberHashSet.add(61);
  numberHashSet.add(41);
  numberHashSet.add(91);
  numberHashSet.add(51);
  numberHashSet.add(80);
  numberHashSet.add(11);
  numberHashSet.add(20);
  System.out.println(numberHashSet.add(51)); //returns
false - not allow to insert duplicate element
 }

 public static void main(String[] args) {
  //Unordered and unsorted set
  HashSet<Integer> numberHashSet = new
HashSet<Integer>();
  addElements(numberHashSet);

  HashSet<Integer> numberHashSet1 = new
HashSet<Integer>();
  numberHashSet1.add(20);
  numberHashSet1.add(80);
  numberHashSet1.add(11);
  numberHashSet1.add(50);
  numberHashSet1.add(60);
  numberHashSet1.add(10);
```

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  numberHashSet1.add(51);

  System.out.println("Set 1: " + numberHashSet);
  System.out.println("Set 2: " + numberHashSet1);

  HashSet<Integer> numberHashSet2 = new
HashSet<Integer>();
  addElements(numberHashSet2);

  // Union of two sets
  numberHashSet2.addAll(numberHashSet1);
  System.out.println("Resultant Set : " + numberHashSet2);

  numberHashSet2.clear();
  addElements(numberHashSet2);
  // Intersection of two SETs
  numberHashSet2.retainAll(numberHashSet1);
  System.out.println("Resultant Set : " + numberHashSet2);

  numberHashSet2.clear();
  addElements(numberHashSet2);
  // SET Difference
  numberHashSet2.removeAll(numberHashSet1);
  System.out.println("Resultant Set : " + numberHashSet2);

  //SplitIterator
  Spliterator<Integer> split=numberHashSet.spliterator();
  split.forEachRemaining(System.out::println);
 }

}
```