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### **Collection Framework**

## 1) Array List

```
import java.util.ArrayList;
import java.util.List;
     public class ArrayListCollection
                       public static void main(String[] args) {
                         ArrayList<Integer>list = new ArrayList<Integer>();
                         list.add(101);
                         list.add(103);
                         list.add(100);
                         list.add(190);
                         System.out.println(list);
                         list.remove(2);
                         System.out.println(list);
                          list.add(1, 200);
                         list.set(0, 102);
                         System.out.println(list);
                         System.out.println(list.contains(103));
                         System.out.println(list.indexOf(190));
                         list.clear();
                          System.out.println(list);
             }
}
```

### Output:-

## 2) Hash Map

```
import java.util.Collection;
import java.util.HashMap;
import java.util.List;
import java.util.Set;
```

```
public class HashMapDemo {
                public static void main(String[] args) {
                      HashMap<Integer, String>hm=new HashMap<Integer, String>();
                      hm.put(101, "Raj");
                      hm.put(102, "Priya");
                      hm.put(103, "Chaitya");
                      hm.put(110, null);
                      hm.put(null, "Jaju");
                      hm.put(0, "Abhijeet");
                      hm.put(111, "Raj");
                      hm.put(101, "Riya");
                      System.out.println(hm);
                      System.out.println("-----");
                      Set<Integer> s=hm.keySet();
                      for(Integer i:s) {
                              System.out.println(i);
                      }
                      System.out.println("-----");
                      Collection<String> li=hm.values();
                      for(String s1:li) {
                              System.out.println(s1);
                      }
                }
```

## Output:

}

## 3) Linked List

# **Output:-**

#### 4) Tree Set

}

```
import java.util.TreeSet;
public class TreeDemo{
public static void main(String[] args) {
          TreeSet<Integer> tr=new TreeSet<Integer>();
          tr.add(7);
          tr.add(25);
          tr.add(33);
          tr.add(31);
          tr.add(5);
          tr.add(9);
          tr.add(5);
          tr.add(20);
          System.out.println(tr);
}
```

# **Output:**