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Collection Framework

1) Array List

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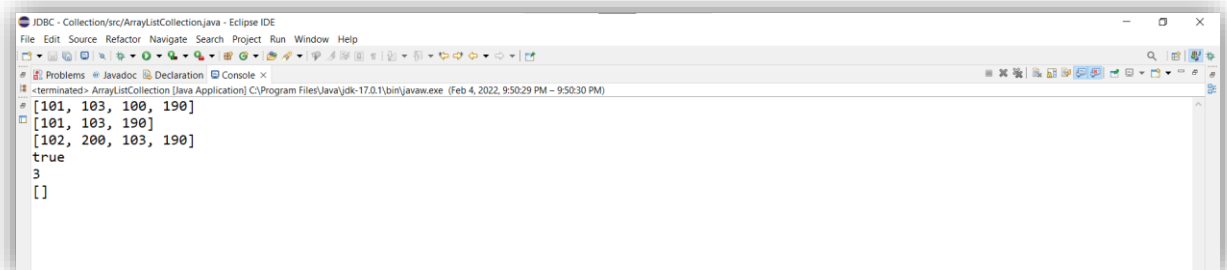
```java
import java.util.Collection;
import java.util.HashMap;
import java.util.List;
import java.util.Set;
```

```java
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);
                }
        }
}
```
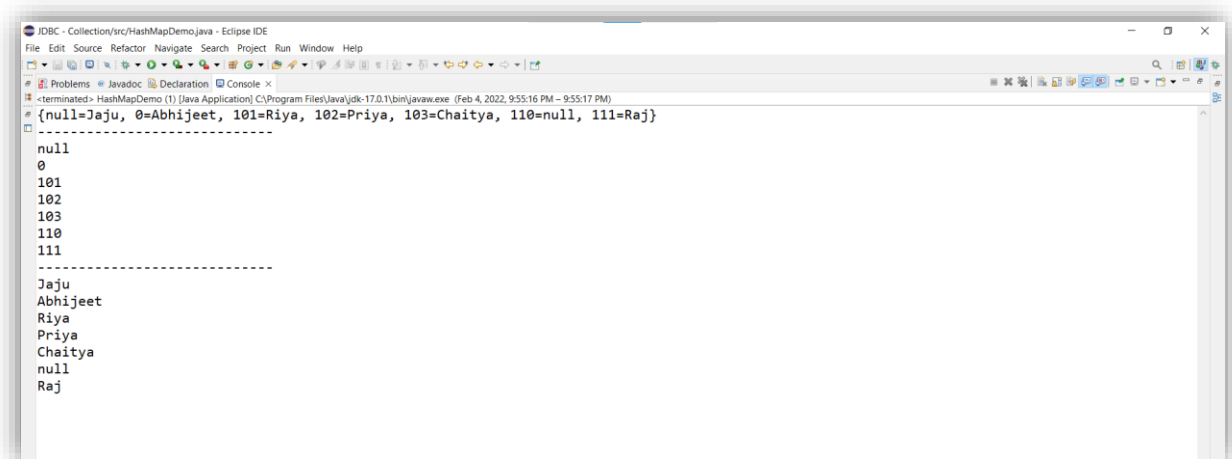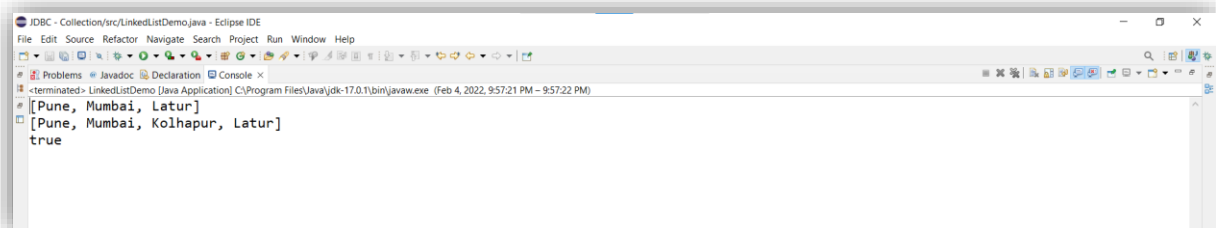
Output:

3) Linked List

```java
import java.util.LinkedList;
import java.util.List;

public class LinkedListDemo {

    public static void main(String[] args) {
        LinkedList<String> list=new LinkedList<String>();
        list.add("Pune");
        list.add("Mumbai");
        list.add("Latur");
        System.out.println(list);
        list.add(2,"Kolhapur");
        System.out.println(list);
        System.out.println(list.contains("Latur"));
    }

}
```
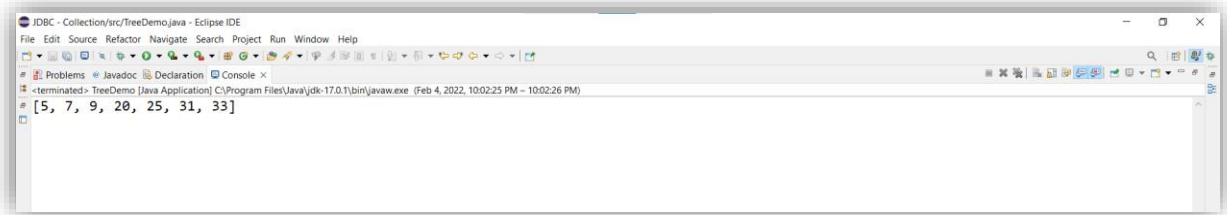
Output:-

4) Tree Set

```java
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: