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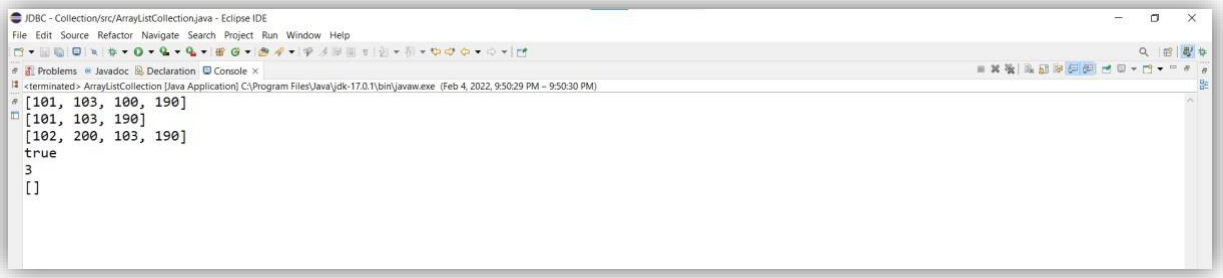
Topic:Array List

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:-



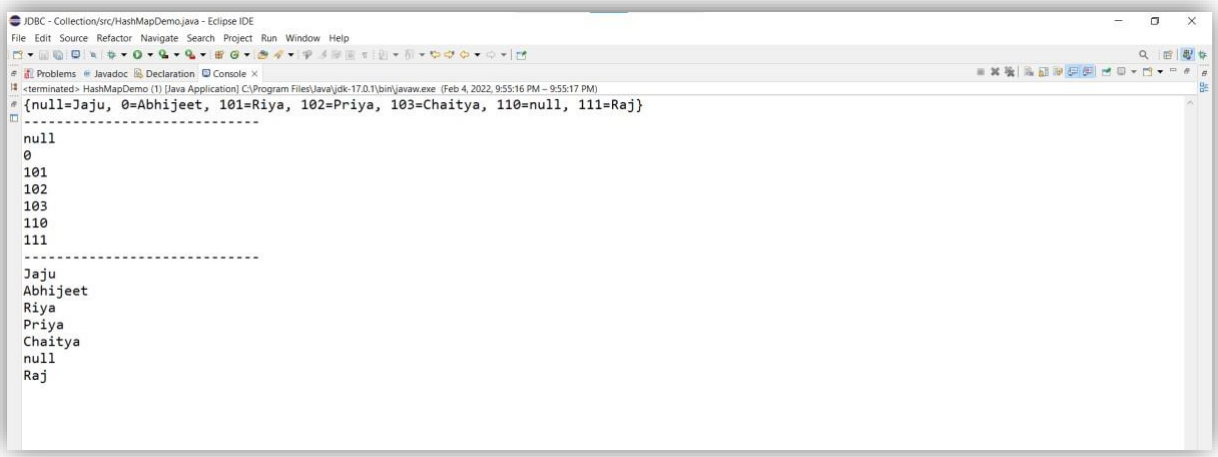
2) Hash Map

```
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:



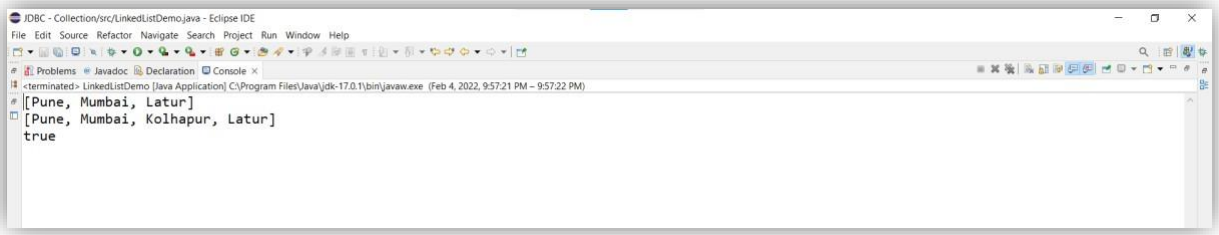
3) Linked List

```
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

```
        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: