

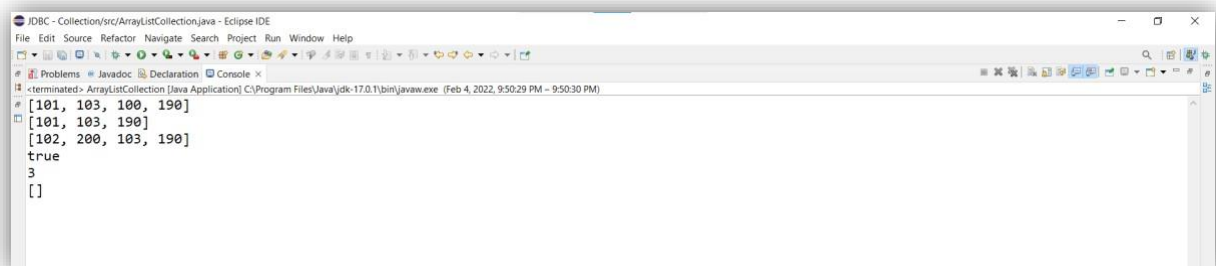
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Topic:Array List

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);
        }

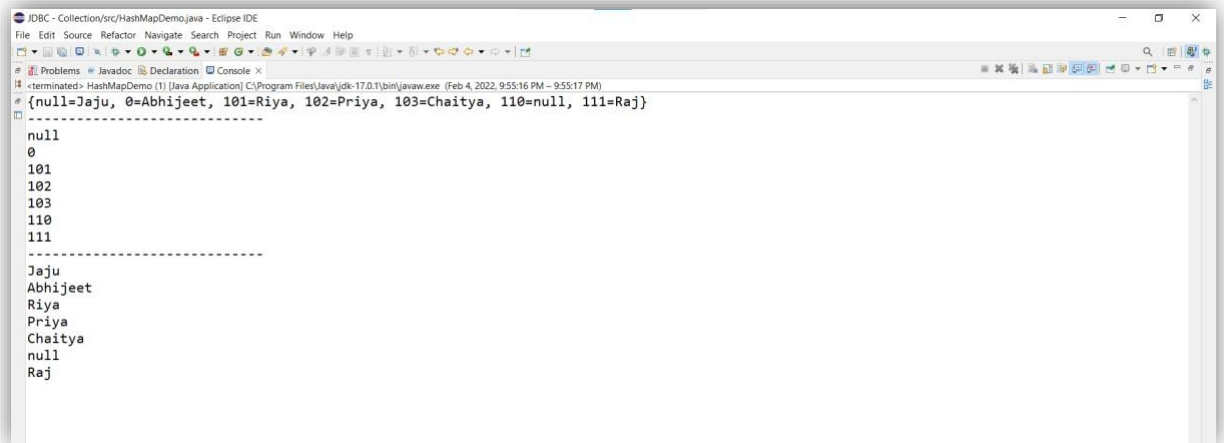
        System.out.println("-----");          Collection<String>
        li=hm.values();

        for(String s1:li) {
            System.out.println(s1);
        }

    }
}

```

Output:



```

JDBC - Collection/src/HashMapDemo.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Problems Javadoc Declaration Console x
[terminated] HashMapDemo (1) [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\java.exe (Feb 4, 2022, 9:55:16 PM - 9:55:17 PM)
{null=Jaju, 0=Abhijeet, 101=Riya, 102=Priya, 103=Chaitya, 110=null, 111=Raj}
null
0
101
102
103
110
111
-----
Jaju
Abhijeet
Riya
Priya
Chaitya
null
Raj

```

3) Linked List

```

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

```

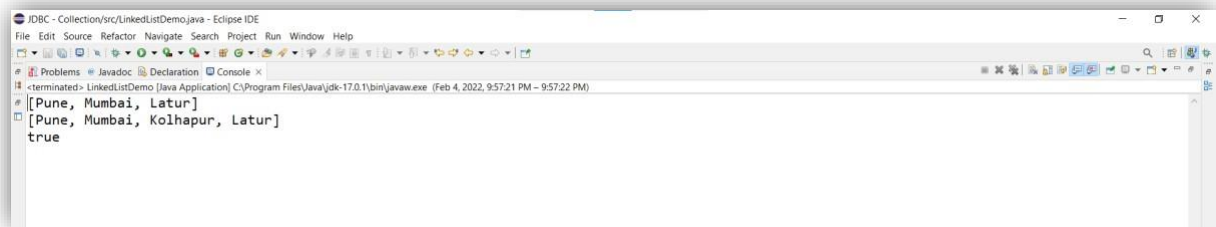
```

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:

