

Comparing Collection Based Classes.

They are 7 Collection based classes:-

- ArrayList
- ArrayDeque
- LinkedList
- PriorityQueue
- TreeSet
- HashSet
- LinkedHashSet



ArrayList

1. It preserve the order of insertion.
2. It allow duplicate element.

Code:-

```

import java.util.*;
public class CollectionsDemo {
    public static void main(String[] args) {
        ArrayList coll = new ArrayList();
        coll.add(44);
        coll.add(22);
        coll.add(99);
        coll.add(55);
        coll.add(11);
        coll.add(22);
        System.out.println("Elements : " + coll);
    }
}

```

Output:-

Elements : [44, 22, 99, 55, 11, 22]



ArrayDeque

1. It preserve the order of insertion.
2. It allow duplicate element.

Code:-

```

import java.util.*;
public class CollectionsDemo {
    public static void main(String[] args) {
        ArrayDeque coll = new ArrayDeque();
        coll.add(44);
        coll.add(22);
        coll.add(99);
        coll.add(55);
        coll.add(11);
        coll.add(22);
        System.out.println("Elements : " + coll);
    }
}

```

Output:-

Elements : [44, 22, 99, 55, 11, 22]



LinkedList

1. It allow duplicate element.
2. It preserve the order of insertion.

Code:-

```
import java.util.*;
public class CollectionsDemo {
    public static void main(String[] args) {
        LinkedList coll = new LinkedList();
        coll.add(44);
        coll.add(22);
        coll.add(99);
        coll.add(55);
        coll.add(11);
        coll.add(22);
        System.out.println("Elements : " + coll);
    }
}
```

Output:-

Elements : [44, 22, 99, 55, 11, 22]



Priority Queue

1. It does not preserve the order of insertion.
2. It allow duplicate element.

Code:-

```
import java.util.*;  
public class CollectionsDemo {  
    public static void main(String[] args) {  
        Priority Queue coll = new Priority Queue();  
        coll.add(44);  
        coll.add(22);  
        coll.add(99);  
        coll.add(55);  
        coll.add(11);  
        coll.add(22);  
        System.out.println("Elements :" + coll);  
    }  
}
```

Output:-

Elements : [11, 22, 22, 55, 44, 99]



TreeSet

1. It does not preserve the order of insertion.
2. It does not allow duplicate element.

Code:-

```
import java.util.*;
public class CollectionsDemo {
    public static void main (String [] args) {
        TreeSet coll = new TreeSet();
        coll.add(44);
        coll.add(22);
        coll.add(99);
        coll.add(55);
        coll.add(11);
        coll.add(22);
        System.out.println ("Elements :" + coll);
    }
}
```

Output:-

Elements : [11, 22, 44, 55, 99]



HashSet

1. It does not allow duplicate element.
2. It does not preserve the order of insertion.

Code:-

```
import java.util.*;  
public class CollectionsDemo {  
    public static void main(String[] args) {  
        HashSet coll = new HashSet();  
        coll.add(44);  
        coll.add(22);  
        coll.add(99);  
        coll.add(55);  
        coll.add(11);  
        coll.add(22);  
        System.out.println("Elements : " + coll);  
    }  
}
```

Output:-

Elements : [99, 22, 55, 11, 44]



LinkedHashSet

1. It preserve the order of insertion.
2. It does not allow duplicate element.

Code:-

```
import java.util.*;
public class CollectionsDemo {
    public static void main(String[] args) {
        LinkedHashSet coll = new LinkedHashSet();
        coll.add(44);
        coll.add(22);
        coll.add(99);
        coll.add(55);
        coll.add(11);
        coll.add(22);
        System.out.println("Elements :" + coll);
    }
}
```

Output:-

Elements : [44, 22, 99, 55, 11]

