

## 2D Array Multiplication

```
public class Main
{
    public static void main(String[] args) {
        int arr[][]={{1,2,3},{4,5,6}};
        for(int i=0;i<arr.length;i++){
            for(int j=0;j<arr[i].length;j++){
                arr[i][j] *=2;
                System.out.print(arr[i][j]+" ");
            }
        }
    }
}
```

## Sum of two 2D Array

```
public class Main
{
    public static void main(String[] args) {
        int arr[][]={{1,2,3},{4,5,6}};
        int a[][]={{7,8,9},{10,11,12}};
        int sum[][]=new int[2][3];
        for(int i=0;i<arr.length && i<a.length;i++){
            for(int j=0;j<arr[i].length && j<a[i].length;j++){
                sum[i][j]+=(arr[i][j]+a[i][j]);
                System.out.print(sum[i][j]+" ");
            }
        }
    }
}
```

## Sum 2D Array

```
public class Main
{
    public static void main(String[] args) {
        int arr[][]={{1,2,3},{4,5,6}};
        int sum=0;
        for(int i=0;i<arr.length;i++){
            for(int j=0;j<arr[i].length;j++){
                sum+=arr[i][j];
                System.out.print(sum+" ");
            }

        }
    }
}
```

## List

```
import java.util.*;

public class Main
{
    public static void main(String[] args) {
        List<Integer> list=new ArrayList<>();
        list.add(1);
        list.add(2);
        list.add(3);
        list.add(7);
        list.add(5);

        int sum=0;
        int pro=1;
        System.out.println(list);
        for(int i:list){
            sum+=i;
            pro*=i;
        }

        System.out.println("Sum is "+sum);
        System.out.println("Product is "+pro);
    }
}
```

}

}

## Set

```
import java.util.*;

public class Main
{
    public static void main(String[] args) {
        Set<Integer> set=new TreeSet<>();
        set.add(1);
        set.add(2);
        set.add(3);
        set.add(2);
        set.add(5);
        set.add(7);
        set.add(2);
        set.add(2);
        set.add(5);
        set.add(1);

        System.out.println(set);

    }
```

}

## Hash Map

```
import java.util.*;

public class Main
{
    public static void main(String[] args) {
        Map<Character,Integer> map=new HashMap<>();
        map.put('f',7);
        map.put('a',26);
        System.out.println(map);

    }

}
```



## Linked Hash Map

```
import java.util.*;

public class Main
{
    public static void main(String[] args) {
        Map<Character,Integer> map=new LinkedHashMap<>();
        map.put('f',7);
        map.put('a',26);
        System.out.println(map);

    }

}
```