1)Control Statement

1)Print below data:using any loop and jumping statement

Monday
Tuesday
Wednesday
Friday
Saturday
Sunday

⇒

```
class Days{
   String [] day = {"Monday" ," Tuesday " , " Wednesday " , " Friday  " , " Saturday " , "
Sunday "};
   public void printDay(){
      for(int i =0; i<day.length;i++){
         System.out.println(day[i]);
      }
}}
public class QoneAssignment {
   public static void main(String[] args) {
      Days d1=new Days();
      d1.printDay();
   }
}
```

2)Out of 7 days in a week, Skip only Today's day.

⇒

```
class Day{
   String [] day = {"Monday" ," Tuesday " , " Wednesday " ,"Thursday", " Friday  " , "
Saturday " ,
         " Sunday "};
   public void skipTodayDay(){
      for(int i =0; i<day.length;i++){
         if(day[i]=="Thursday")
            continue;
         System.out.println(day[i]);
      }
   }
}
public class QtwoAssignment {
   public static void main(String[] args) {
      Day obj_d1 = new Day();
      obj_d1.skipTodayDay();
   }
```

```
}
```

3)Out of 31 , print date till today (passed till current date like for Jan 1-20 as today is 20th Jan)

⇒

```
class PassDate{
   public void printTillTodayDate(){
      for(int i =1; i<=31; i++){
         if(i>20 && i<=31 )
            continue;
         System.out.println(i+"January");
      }
   }
}
public class QThreeAssignment {
   public static void main(String[] args) {
      PassDate obj= new PassDate();
      obj.printTillTodayDate();
   }
}
```

2)Array :

Check into other packages:

Packages are like Folders in which related classes,API's are mentioned.

1)Check for the package related to Array,where Array related in-built methods are present?

=>create Simple code using those package in-built functionality.

=>whenever required use the "for-each" loop to iterate.

=>follow Naming conventions and indentation while coding.(spaces,tab)

⇒

```
import java.util.Arrays;

public class QTwoOneAssignment {
   public static void main(String[] args){
      int a[] = {5,2,3,5,5,6,7,8,3,2};
      int b[] = {5,2,3,5,5,6,7,8,3,2};
      for(int i : a){
         System.out.print(i);
      }
      Arrays.sort(a);
      for(int i : b){
         System.out.println(i);
      }
      Arrays.fill(a,10);
      System.out.println("using string method");
```

```
        System.out.println(Arrays.toString(a)); }            }
```

2)Print array in Ascending and descending order,using in-built functionality.

⇒

```
import java.util.Arrays;
import java.util.Collections;
public class QTwoTwoAssignment {
    public static void main(String[] args) {
        Integer a[] = {1,7,5,9,15,23,12};
        Arrays.sort(a);
        System.out.println(Arrays.toString(a));
        Arrays.sort( a, Collections.reverseOrder());
        for (int i:a){
            System.out.println(i);
     }
    }
}
```

3)Copy one array into the another array,using in-built functionality

⇒

```
import java.util.Arrays;
public class QTwoThereeAssignment {
    public static void main(String[] args) {
        int arr1[] = {1,4,2,5,3};
        int arr2[]= Arrays.copyOf(arr1,arr1.length);
        System.out.println(Arrays.toString(arr2));

    }
}
```

4)using the "equals" method,find the duplicate elements (int/String)of the array.
print the Duplicate element.

⇒

```
public class QTwoFourAssignment {
    public static void main(String[] args) {
        String[] name = new String[]{"pratham", "prathamesh", "Pratha", "prathamesh",
"Prathamesh"};
        for (int i = 0; i < name.length; i++) {
            for (int j = i + 1; j < name.length; j++) {
                if (name[i]==name[j]) {
                    System.out.println(name[i]);
                }

          }
      }
```

```
    }     }
```

and then try to remove the second occurrence of Duplicate element ,
again print Array elements (without duplication)

```
import java.util.Arrays;
class Remove_Duplicate{
    public void printArrayWoDuplicate(int []arr){
        int n= arr.length;
        int[] arr1= new int[n];
        Arrays.sort(arr);
        int j=0;
        for(int i=0;i< n-1;i++){
            if((arr[i]!= arr[i+1])){
                arr1[j++]= arr[i];
            }
        }
        arr1[j++]= arr[arr.length-1];
        for (int k : arr1){
            if(k!=0)
                System.out.println(k);
        }

    }
}
public class QTwoFouroAssignment {
    public static void main(String[] args) {
        int[] arr = {1,2,1,2,3,3,6,7,2,4,9,2,6,7,8,9};
        Remove_Duplicate obj = new Remove_Duplicate();
        obj.printArrayWoDuplicate(arr);
    }
}
```

5)Try to add 2 Jagged arrays:

```
import java.util.Arrays;

class JuggedAddition{
    public void printAddition(int[][] arr1,int[][] arr2){
        for(int i =0;i<arr1.length;i++){
            for(int j = 0; j<arr1[i].length;j++){
                arr1[i][j] = arr1[i][j] + arr2[i][j];
            }
        }
        System.out.println("Addition of two jagged array is");
        System.out.println(Arrays.deepToString(arr1));
    }
```

```
}
public class QTwoFiveAssignment {
    public static void main(String[] args) {
        JuggedAddition j1=new JuggedAddition();
        int[][] arr1 = {{1, 3}, {6, 4, 5}};
        int[][] arr2 = {{1, 3}, {6, 4, 5}};
        j1.printAddition(arr1,arr2);
    }
}
```