Java Overview Assignment

1.Write a Java program to find the common elements between two arrays (string values).

**import** java.util.Scanner;

**public** **class** w1Ques1 {

**private** **static** Scanner *scc*=**new** Scanner(System.***in***);

**private** **static** **void** FindCommon(String[] arr1,String[] arr2){

String[] common = **new** String[arr1.length];

**int** k=0;

**for** (**int** i = 0; i < arr1.length; i++){

**for** (**int** j = 0; j < arr2.length; j++) {

**if** (arr1[i].equals(arr2[j])) {

common[k]=arr1[i];

k++;

**break**;

}

}

}

**for** (**int** i = 0; i < common.length; i++){

**if**(common[i]!=**null**)

System.***out***.println(common[i]);

}

}

**public** **static** **void** main(String[] args) {

**int** n;

**int** m;

n=*scc*.nextInt();

m=*scc*.nextInt();

String[] arr1 = **new** String[n];

String[] arr2 = **new** String[m];

**for**(**int** i=0; i<n; i++)

{

arr1[i]=*scc*.next();

}

**for**(**int** j=0; j<m; j++)

{

arr2[j]=*scc*.next();

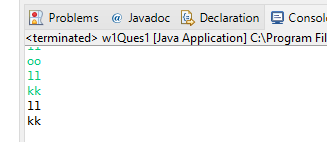
}

*FindCommon*(arr1, arr2);

}

}

**Output-**



2.Write a Java program to find the second largest element in an array.

import java.util.\*;

import java.util.Scanner;

public class w1Ques2 {

private static Scanner scc=new Scanner(System.in);

static void FindSecond(int arr[],int size)

{

int i;

if (size<2)

{

System.out.print(" Invalid Input ");

return;

}

Arrays.sort(arr);

for (i=arr.length-2;i >= 0;i--)

{

if (arr[i]!=arr[size-1])

{

System.out.println(arr[i]);

return;

}

}

System.out.print("There is no second largest element\n");

}

public static void main(String[] args) {

int n;

n=scc.nextInt();

int[] arr1 = new int[n];

for(int i=0; i<n; i++)

{

arr1[i]=scc.nextInt();

}

FindSecond(arr1, n);

}

}

**Output-**

Graphical user interface, text, application

Description automatically generated

3.Write a Java program to print all sub-arrays with 0 sum present in each array of integers.

Input:

nums1 = { 1, 3, -7, 3, 2, 3, 1, -3, -2, -2 }

nums2 = { 1, 2, -3, 4, 5, 6 }

nums3 = { 1, 2, -2, 3, 4, 5, 6 }

Expected Output:

Sub-arrays with 0 sum : [1, 3, -7, 3]

Sub-arrays with 0 sum : [3, -7, 3, 2, 3, 1, -3, -2]

Sub-arrays with 0 sum : [1, 2, -3]

Sub-arrays with 0 sum : [2, -2]

**import** java.util.Scanner;

**public** **class** w1Ques3 {

**private** **static** Scanner *scc*=**new** Scanner(System.***in***);

**public** **static** **void** main(String[] args) {

**int** n;

n=*scc*.nextInt();

**int**[] arr1 = **new** **int**[n];

**for**(**int** i=0; i<n; i++)

{

arr1[i]=*scc*.nextInt();

}

**for**(**int** i=0;i<arr1.length;i++) {

**int** sum=0;

**for**(**int** j=i;j<arr1.length;j++) {

sum=sum+arr1[j];

**if**(sum==0) {

**for**(**int** k=i;k<=j;k++) {

System.***out***.print(arr1[k]+" ");

}

System.***out***.print("\n");

}

}

}

}

}

Graphical user interface, text, application

Description automatically generated

Assignment By-

Abhinav Jain

abhinavjainn412@gmail.com

9412005184