

Program-1

/*Arrar SUM,Sort a numeric array and a string array*/

import java.util.Arrays;

import java.util.*;

public class ex1

{

public static void main(String[] args)

{

int[] my_array1 = {

1789, 2035, 1899, 1456, 2013,

1458, 2458, 1254, 1472, 2365,

1456, 2165, 1457, 2456};

String[] my_array2 = {

"Java",

"Python",

"PHP",

"C#",

"C Programming",

"C++"

};

System.out.println("Original numeric array : "+Arrays.toString(my_array1));

Arrays.sort(my_array1);

System.out.println("Sorted numeric array : "+Arrays.toString(my_array1));

System.out.println("Original string array : "+Arrays.toString(my_array2));

Arrays.sort(my_array2);

System.out.println("Sorted string array : "+Arrays.toString(my_array2));

int sum = 0;

```

        for (int i : my_array1)
            sum += i;

        System.out.println("The sum is " + sum);

        double average = sum / my_array1.length;
        System.out.println("Average value of the array elements is : " + average);

    }
}

```

Program-2

```

/*Find the common elements between two */
import java.util.*;

public class ex2
{
    public static void main(String[] args)
    {
        String[] array1 = {"Python", "JAVA", "PHP", "C#", "C++", "SQL"};

        String[] array2 = {"MySQL", "SQL", "SQLite", "Oracle", "PostgreSQL", "DB2", "JAVA"};

        System.out.println("Array1 : "+Arrays.toString(array1));
        System.out.println("Array2 : "+Arrays.toString(array2));

        HashSet<String> set = new HashSet<String>();

        for (int i = 0; i < array1.length; i++)
        {
            for (int j = 0; j < array2.length; j++)
            {
                if(array1[i].equals(array2[j]))

```

```

        {
            set.add(array1[i]);
        }
    }
}

System.out.println("Common element : "+(set));    //OUTPUT : [THREE, FOUR, FIVE]
}
}

```

Program-3

```

import java.util.Scanner;

public class cd12
{
    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter the size of the array: ");
        int size = scanner.nextInt();

        int[] array = new int[size];

        System.out.println("Enter " + size + " elements:");
        for (int i = 0; i < size; i++) {
            array[i] = scanner.nextInt();
        }

        int maxElement = array[0];
        for (int i = 1; i < size; i++) {

```

```
        if (array[i] > maxElement) {  
            maxElement = array[i];  
        }  
    }
```

```
    System.out.println("The maximum element in the array is: " + maxElement);
```

```
    scanner.close();  
}  
}
```