1. **WAP to print addition of element in the Array**

class HelloWorld {

public static void main(String[] args) {

int[] i = {10,20,30,40,50};

int sum = 0;

for(int e : i)

{

sum = sum +e;

}

System.out.println(sum);

}

}

OUTPUT 150

1. **WAP to print average of element in the Array**

class HelloWorld {

public static void main(String[] args) {

int[] i = {10,20,30,40,50};

int j = i.length;

int sum = 0;

for(int e : i)

{

sum = sum +e;

}

System.out.println("Average of i array :" + sum/j);

}

}

OUTPUT

Average of i array :30

1. **WAP to print present of element in the Array**

class HelloWorld {

public static void main(String[] args) {

int[] i = {10,20,30,40,50};

int num = 70;

boolean isArray =false;

for(int e : i)

{

if(num == e)

isArray = true;

break;

}

if(isArray)

{

System.out.println("Number is present in the Array ");

}

else

{

System.out.println("Number not present in the Array");

}

}

}

OUTPUT

Number not present in the Array.

1. **WAP to Add 2D Array**

public static void main(String[] args) {

int [][] mat1 = {{1,2,3},{4,5,6}};

int [][] mat2 = {{4,5,6},{7,8,9}};

int [][] result = {{0,0,0},{0,0,0}};

for(int i=0 ; i< mat1.length;i++)

{

for(int j=0; j<mat1[i].length;j++)

{

result[i][j]= mat1[i][j]+mat2[i][j];

System.out.print( result[i][j]+ " ");

}

System.out.println(" ");

}

}

}

OUTPUT

5 7 9

11 13 15

1. **REVERSE Array**

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

**int[] arr = {23,24,35,46,22,79,90};**

**int l = arr.length;**

**int n = Math.floorDiv(l,2);**

**int temp;**

**System.out.println("Original Array "+arr);**

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

**{**

**temp =arr[i];**

**arr[i]= arr[l-1-i];**

**arr[l-1-i] =temp;**

**}**

**for(int element : arr)**

**{**

**System.out.print(+ element + " ");**

**}**

**}**

**OUTPUT**

**90 79 22 46 35 24 23**

1. **WAP finding MAX elements in the Array**

**int[] arr = { 45,34,37,43,23,12,78};**

**int max =0;**

**for(int k : arr)**

**{**

**if(k>max)**

**{**

**max=k;**

**}**

**}**

**System.out.println("Max Element in Array "+max);**

**}**

**OUTPUT**

**Max Element in Array 78**

1. **WAP finding MIN Element in Array**

**public class MaxElementArray {**

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

**int[] arr = { 45,34,37,43,23,12,78};**

**int min = arr[0];**

**for(int k : arr)**

**{**

**if(min > k)**

**{**

**min =k;**

**}**

**}**

**System.out.println("min Element in Array "+min);**

**}**

**}**

**OUTPUT**

**min Element in Array 12**

1. **WAP to check sorted Array**

**public class CheckArraySorted {**

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

**int[] arr = {67,34, 47, 68, 234};**

**boolean isSorted = true;**

**for (int i = 0; i < arr.length - 1; i++) {**

**if (arr[i] > arr[i+1]) {**

**isSorted = false;**

**break;**

**}**

**}**

**if(isSorted)**

**{**

**System.out.println("Array is sorted");**

**}**

**else {**

**System.out.println("Array is NOT sorted");**

**}**

**}**

**}**

**OUTPUT**

**Array is NOT sorted**

1. **WAP to find duplicate element in the Array**

**int[] arr = {23,34,12,56,45,56,78,34,100};**

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

**{**

**for(int j= i+1; j<arr.length ; j++)**

**{**

**if(arr[i]==arr[j])**

**{**

**System.out.println(" Duplicate Element is "+arr[i]);**

**}**

**}**

**}**

**}**

**}**

**OUTPUT**

**Duplicate Element is 34**

**Duplicate Element is 56**

1. **WAP to find common element in the Array**

**public class FindCommonElementArray {**

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

**int[] arr1 = { 20,34,56,46,57,45,45,23,24};**

**int[] arr2 = { 30,34,56,56,57,55,95,73,24};**

**for(int i =1 ; i< arr1.length ;i++)**

**{**

**for(int j=1 ; j<arr2.length;j++)**

**{**

**if(arr1[i]==arr2[i])**

**{**

**System.out.println("Common Element in the Array "+ arr1[i]);**

**break;**

**}**

**}**

**}**

**}**

**}**

**OUTPUT**

**Common Element in the Array 34**

**Common Element in the Array 56**

**Common Element in the Array 57**

**Common Element in the Array 24**

1. **WAP to print Array without Duplicate Elements**

**public class RemoveDuplicateArray {**

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

**int[] inputArraywithDupElements = {5,8,5,23,45,56,57,23,8,56};**

**Set<Integer> set = new HashSet<Integer>();**

**for (int element :inputArraywithDupElements)**

**{**

**set.add(element);**

**}**

**Integer[] outputArraywithoutDupElements =set.toArray(new Integer[set.size()]);**

**for (int withoutDup : outputArraywithoutDupElements)**

**{**

**System.out.print(" "+withoutDup);**

**}**

**}**

**}**

**OUTPUT**

**5 23 8 56 57**

1. **WAP to Find two Largest Array in the java**

**package exampleOfArray;**

**public class FindTwoLargestArray {**

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

**int[] arr1 = {34,56,45, 343,234,56,56,45,78};**

**int firstLarge = 0;**

**int secondLarge = 0;**

**for ( int element :arr1)**

**{**

**if (firstLarge < element) {**

**secondLarge =firstLarge;**

**firstLarge = element;**

**} else if (secondLarge<element) {**

**secondLarge =element;**

**}**

**}**

**System.out.println("First and Second Large Element in the Array "+ firstLarge+" "+secondLarge);**

**}**

**}**

**OUTPUT**

**First and Second Large Element in the Array 343 234**