1. Write a program to calculate average of numbers stored in an array?

import java.util.Scanner;

public class Average {

public static void main(String[] args) {

// TODO Auto-generated method stub

int sum=0;

int[] array = new int[5];

Scanner sc = new Scanner(System.*in*);

System.*out*.println("Enter a 5 number :");

for(int i=0;i<5;i++) {

array[i]=sc.nextInt();

sum+=array[i];

}

double avg = sum/5;

System.*out*.println("Average : "+avg);

sc.close();

}

}

2. Write a program to reverse an array of elements?

import java.util.Scanner;

public class Reverse {

public static void main(String[] args) {

// TODO Auto-generated method stub

int[] arr = new int[5];

Scanner sc = new Scanner(System.*in*);

System.*out*.println("Enter a 5 number :");

for(int i=0;i<5;i++) {

arr[i]=sc.nextInt();

}

System.*out*.println("Reverse Of given array :");

for(int j=arr.length-1;j>=0;j--) {

System.*out*.println(arr[j]);

}

sc.close();

}

}

3. Write a program to find out highest and second highest number in an array?

import java.util.Scanner;

public class ArrayHS {

public static void main(String[] args) {

// TODO Auto-generated method stub

int[] array = new int[5];

Scanner sc = new Scanner(System.*in*);

System.*out*.println("Enter a 5 number :");

for(int i=0;i<5;i++) {

array[i]=sc.nextInt();

}

int temp=0;

for(int i=1;i<array.length;i++) {

for(int j=0;j<i;j++) {

if(array[i]>array[j]) {

temp=array[i];

array[i]=array[j];

array[j]=temp;

}

else {

continue;

}

}

}

System.*out*.println("First Highest Element : "+array[0]);

System.*out*.println("Second Highest Element : "+array[1]);

sc.close();

}

}

4. Write a Java program to copy an array to another by iterating the array?

import java.util.Scanner;

public class ArrayCopy {

public static void main(String[] args) {

// TODO Auto-generated method stub

int[] array = new int[5];

int[] new\_array = new int[5];

Scanner sc = new Scanner(System.*in*);

System.*out*.println("Enter a 5 number :");

for(int i=0;i<5;i++) {

array[i]=sc.nextInt();

new\_array[i]=array[i];

}

System.*out*.println("Element in new array :");

for(int i=0;i<5;i++) {

System.*out*.println(new\_array[i]);

}

sc.close();

}

}

5. Write a program to concatenate two arrays (merge two array to new one)?

import java.util.Scanner;

public class ArrayConcat {

public static void main(String[] args) {

// TODO Auto-generated method stub

int[] array1 = new int[5];

int[] array2 = new int[5];

int len = array1.length+array2.length;

int[] new\_array = new int[len];

Scanner sc = new Scanner(System.*in*);

System.*out*.println("Enter a 5 number in first array :");

for(int i=0;i<5;i++) {

array1[i]=sc.nextInt();

}

System.*out*.println("Enter a 5 number in second array :");

for(int i=0;i<5;i++) {

array2[i]=sc.nextInt();

}

int k=0;

for(int ele : array1) {

new\_array[k]=ele;

k++;

}

for(int ele : array2) {

new\_array[k]=ele;

k++;

}

System.*out*.println("Concat array is given :");

for(int j=0;j<new\_array.length;j++) {

System.*out*.println(new\_array[j]);

}

sc.close();

}

}

6. Write a Java program to test if an array contains a specific value?

import java.util.Scanner;

public class ArrayValue {

public static void main(String[] args) {

// TODO Auto-generated method stub

int array[]= {33,44,21,35,76,88};

Scanner sc = new Scanner(System.*in*);

System.*out*.println("Enter a element to find in array :");

int num = sc.nextInt();

boolean flag=false;

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

if(num==array[i]) {

flag=true;

}

}

if(flag==true) {

System.*out*.println("Element found in array.");

}

else {

System.*out*.println("Element not found in array.");

}

sc.close();

}

}

7. Write a Java program to find the index of an array element?

import java.util.Scanner;

public class ArrayIndex {

public static void main(String[] args) {

// TODO Auto-generated method stub

int[] arr1= {2,3,5,7,9,4,1,6,8};

Scanner sc = new Scanner(System.*in*);

System.*out*.println("Enter the element to find out index : ");

int num=sc.nextInt();

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

if(num==arr1[i]) {

System.*out*.println("The index of element is :"+i);

}

}

sc.close();

}

}

8. Write a Java program to find the duplicate values of an array of integer values?

public class ArrayDuplicacy {

public static void main(String[] args) {

// TODO Auto-generated method stub

int arr[]= {2,3,4,2,5,4,3,7,7,5};

System.*out*.println("Duplicate element from array : ");

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(arr[i]);

}

}

}

}

}

9. Write a Java program to find the common elements between two arrays of integers?

public class ArrayCommon {

public static void main(String[] args) {

// TODO Auto-generated method stub

int[] arr1= {2,3,5,7,9,4};

int[] arr2= {3,5,6,7,0,9};

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

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

if(arr1[i]!=arr2[j]) {

continue;

}

else {

System.*out*.println(arr1[i]);

break;

}

}

}

}

}

10. Write a program to add two matrix of numbers?

public class ArrayMatrix {

public static void main(String[] args) {

// TODO Auto-generated method stub

int arr1[][]= {{14,20,40},{40,50,60}};

int arr2[][]= {{30,13,20},{30,10,23}};

int sum\_array[][]=new int[arr1.length][arr1[0].length];

for(int i=0;i<2;i++) {

for(int j=0;j<3;j++) {

sum\_array[i][j]=arr1[i][j]+arr2[i][j];

System.*out*.println(sum\_array[i][j]);

}

}

}

}

11. Write a program to Sort an array in ascending order? [Notes : Arrays.sort()]

import java.util.Scanner;

public class ArraySort {

public static void main(String[] args) {

// TODO Auto-generated method stub

int[] array = new int[5];

Scanner sc = new Scanner(System.*in*);

System.*out*.println("Enter a 5 number :");

for(int i=0;i<5;i++) {

array[i]=sc.nextInt();

}

int temp=0;

for(int i=1;i<array.length;i++) {

for(int j=0;j<i;j++) {

if(array[i]<array[j]) {

temp=array[j];

array[j]=array[i];

array[i]=temp;

}

else {

continue;

}

}

}

System.*out*.println("The element in array in ascending order");

for(int k=0;k<array.length;k++) {

System.*out*.println(array[k]);

}

sc.close();

}

}

12. Write a program to Sort strings in alphabetical order?(Without Inbuilt Function)

public class StringSort {

public static void main(String[] args) {

String str="akshay";

char[] chr = new char[str.length()];

//Storing the string in char arr and print

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

chr[i]=str.charAt(i);

}

int arr[] = new int[chr.length];

//accesing the ascii value of each char and print

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

arr[j]=chr[j];

}

//sort according to ascii value

int temp=0;

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

for(int j=0;j<i;j++) {

if(arr[i]<arr[j]) {

temp=arr[j];

arr[j]=arr[i];

arr[i]=temp;

}

else {

continue;

}

}

}

for(int k=0;k<arr.length;k++) {

System.*out*.println((char)(arr[k]));

}

}

}

Output

a

a

h

k

s

y