**ARRAY**

**1**.write a java program to find sum and average of the given number ?

package sumaverage;

import java.util.Scanner;

public class AddSub {

public static void main(String[] args){

int a,i,sum=0;float average;

System.out.println("Enter the number:");

Scanner cc=new Scanner(System.in);

a=cc.nextInt();

int n[]=new int[a];

System.out.println("Enter the all number");

for(i=0;i<a;i++){

n[i]=cc.nextInt();

sum=sum+n[i];}

System.out.println("the sum is:"+sum);

average=sum/a;

System.out.println("the average is:"+average);

}

}

OUTPUT: (during run time)

enter the number

3

Enter the all number

4

2

6

the sum is:12

the average is:2

-------------------------------------------------------------------------------------------------------------------

2.write a java program to find maximum and minimum value between given numbers?

package minimaxi;

import java.util.Scanner;

public class MinimaMaxima {

public static void main(String[]args) {

int a,i,maxvalue,minvalue;

int n[]=new int[]{1,4,8,4,5};

minvalue=n[0];

maxvalue=n[0];

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

if(maxvalue < n[i])

{ maxvalue=n[i];

}

if(minvalue>n[i])

{ minvalue=n[i];

}

}

System.out.println("the maxvalue is"+maxvalue);

System.out.println("the minvalue is"+minvalue);

}

}

OUTPUT:

the maxvalue is 8

the minvalue is1

---------------------------------------------------------------------------------------------------------------------

3.write a java program to find the position of the searching element if the search element is not in the given the code should return -1.

package search;

import java.util.Scanner;

public class Findarray {

public static void main(String[]args){

int i,n,x;

int a[]=new int[25];

Scanner cc=new Scanner(System.in);

n=cc.nextInt();

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

a[i]=cc.nextInt();}

x=cc.nextInt();

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

if(a[i]==x){

System.out.println(x+" is the location of"+(i+1));break;

}

}

if(i==n){

System.out.println(-1);

}

}

}

Output:

1

3

2

4

3 is the location of 4

---------------------------------------------------------------------------------------------------------------------

4.write a java program to find the ASCII value for a given character?

package ascii;

import java.util.Scanner;

public class Charact {

public static void main(String[] args){

int arr;char ch1;

System.out.println("enter the values:");

Scanner cc=new Scanner(System.in);

arr=cc.nextInt();

int ch[]=new int[arr];

for(int i=65;i<=ch.length;i++){

ch1=(char)i;

System.out.print(ch1);

}

}

}

OUTPUT:

enter the values:

80

S

---------------------------------------------------------------------------------------------------------------------

5.write a java program to print the largest and smallest 2 numbers?

package largest;

import java.util.Scanner;

public class Smallest {

public static void main(String[] args) {

int i,temp,j;

int ch[]=new int[]{44,78,77,34,99,98};

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

for(j=i+1;j<ch.length;j++)

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

temp=ch[i];

ch[i]=ch[j];

ch[j]=temp;}}

System.out.println("the two largest value is"+ch[1]+"and"+ch[0]);

System.out.println("the two smallestvalue is"+ch[i-1]+"and"+ch[i-2]);

}

}

OUTPUT :

the two largest value is98and99

the two smallestvalue is34and44

---------------------------------------------------------------------------------------------------------------------

6.write a java program to sort the numbers in ascending order?

package sorting;

import java.util.Scanner;

public class Ascending {

public static void main(String[] args){

int a,temp,j;

System.out.println("Enter the number:");

Scanner s=new Scanner(System.in);

a=s.nextInt();

int n[]=new int[a];

System.out.print("enter the all element:");

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

n[i]=s.nextInt();}

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

for(j=i+1;j<a;j++){

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

temp=n[i];

n[i]=n[j];

n[j]=temp;}}}

System.out.println("ascending order:");

for(int i=0;i<a-1;i++){

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

}

System.out.print(n[a-1]);

}

}

OUTPUT:

Enter the number:

5

enter the all element:

8 65 78 34 2

ascending order:

2 8 34 65 78

---------------------------------------------------------------------------------------------------------------------

7.write a java program to find the maximum repeating numbers in the given numbers?

package numbers;

import java.util.Scanner;

public class Maxrepeat{

public static int maxrepeating(int arr[],int n,int k){

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

arr[(arr[i]%k)]+=k;}

int max=arr[0],result=0;

for(int i=1;i<n;i++){

if(arr[i]>max){

max=arr[i];result=i;}}

return result;}

public static void main(String[] args) {

// TODO Auto-generated method stub

int arr[]={3,9,3,4,4,5,7,5,3,2,3,8};

int n=arr.length;

int k=10;

System.out.println("maximum repeating element is:"+maxrepeating(arr,n,k));

}

}

Output:

maximum repeating element is:3

--------------------------------------------------------------------------------------------------------------------

8.write a java program to find the duplicate numbers in the given numbers?

package character;

import java.util.Scanner;

public class Duplicate {

public static int[] removeDuplicates(int[] input){

int i=1,j=0;

if (input.length < 2)

{

return input;

}

while (i < input.length)

{

if (input[i] == input[j])

{

i++;

}

else

{

input[++j] = input[i++];

}

}

int[] output = new int[j + 1];

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

{

output[k] = input[k];

}

return output;

}

public static void main(String a[])

{

int[] input1 = { 2, 3, 6, 6, 8, 9, 10, 10, 10, 12, 12 };

int[] output = removeDuplicates(input1);

System.out.print("Input Elements: \n");

for (int i : input1)

{

System.out.print(i + " ");

}

System.out.print("\nOutput Elements: \n");

for (int i : output)

{

System.out.print(i + " ");

}

}

OUTPUT;

Input Elements:

2 3 6 8 9 10 12 10 10 12 12

Output Elements:

2 3 6 8 9 10 12

---------------------------------------------------------------------------------------------------------------------