JAVA PROGRAMS :

Q : WRITE A PROGRAM TO INPUT TWO VARIABLES AND PRINT THEIR SUM

SOL:

import java.util.\*;

class sum

{

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

int a = sc.nextInt();

Scanner cd=new Scanner(System.in);

int b = cd.nextInt();

int c = a+b;

System.out.println(c);

}

}

Q 2:

PROGRAM TO PRINT PATTERN:

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SOLUTION:

class pattern

{

public static void main(String args[])

{

for(int i=1;i<=4;i++)

{

for(int j=1;j<=4;j++)

{

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

}

System.out.println(" ");

}

}}

**JAVA PROGRAM TO PRINT THE AREA OF PARALLELOGRAM**

public class parellelogram

{

public static void main(String args[])

{

Scanner sc = new Scanner (System.in);

System.out.println("Enter the length and breadth of parellelogram");

int a = sc.nextInt();

int b = sc.nextInt();

int c = a\*b;

System.out.println("The area of parellogram is"+ c);

}

}

**JAVA PROGRAMMING FOR PERIMETER OF RHOMBUS**

import java.util.\*;

class parellologram

{

public static void main(String args[])

{

Scanner sc = new Scanner (System.in);

System.out.println("Enter the length of rhombus");

int a = sc.nextInt();

int c = 4\*a;

System.out.println("The perimeter of rhombus is"+ c);

}

}

**JAVA PROGRAM TO PRINT FIBONACCI SERIES**

import java.util.\*;

class fibonacci

{

public static void main(String args[])

{

Scanner sc = new Scanner (System.in);

System.out.println("The fibonacci series");

int n = sc.nextInt();

int a = 0;

int b = 1;

for (int i =2;i<=n;i++)

{

int c =a+b;

System.out.println(c);

a=b;

b=c;

}

}

}

**JAVA PROGRAM TO PRINT THE FACTORIAL OF NUMER**

import java.util.\*;

class factorial

{

public static void main(String args[])

{

Scanner sc = new Scanner (System.in);

int c =1;

System.out.println("The factorial of number is");

int n = sc.nextInt();

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

{

c = c\*i;

}

System.out.println(c);

}

}

**JAVA PROGRAM TO PRINT SUM OF N NUMBERS**

import java.util.\*;

class factorial

{

public static void main(String args[])

{

Scanner sc = new Scanner (System.in);

int c =0;

System.out.println("The sum of number is");

int n = sc.nextInt();

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

{

c = c+i;

}

System.out.println(c);

}

}

**PROGRAM TO FIND HCF OF TWO NUMBERS**

import java.util.\*;

class hcf

{

public static void main(String args[])

{

Scanner sc = new Scanner (System.in);

int hcf =0;

System.out.println("Enter first number");

int a = sc.nextInt();

System.out.println("Enter second number");

int b = sc.nextInt();

for(int i=1;i<=a||i<=b;i++)

{

if(a%i==0 && b%i==0)

{

hcf = i;

}

}

System.out.println("The hcf of the numbers is =" + hcf);

}

}

**PROGRAM TO SWAP TWO NUMBERS USING THIRD NUMBER**

import java.util.\*;

class swap

{

public static void main(String args[])

{

Scanner sc = new Scanner (System.in);

int c;

System.out.println("Enter two numbers");

int a = sc.nextInt();

int b = sc.nextInt();

c=a;

a=b;

b=c;

System.out.println("the numbers after swapping is =\n"+a+" \n"+b);

}

}

**PROGRAM TO SWAP TWO NUMBERS WITHOUT USING A THIRD NUMBER**

import java.util.\*;

class swap

{

public static void main(String args[])

{

Scanner sc = new Scanner (System.in);

System.out.println("Enter two numbers");

int x = sc.nextInt();

int y = sc.nextInt();

x = x+y;

y = x-y;

x = x-y;

System.out.println("the numbers after swapping is =\n"+x+" \n"+y);

}

}

**PROGRAM TO CHECK IF THE NUMBER CONTAINS ANY ODD DIGIT**

import java.util.\*;

class odd

{

public static void main(String args[])

{

Scanner sc = new Scanner (System.in);

int flag = 0;

int a;

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

int x = sc.nextInt();

while(x>0)

{

a=x%10;

if(a%2!=0)

{

flag++;

}

x=x/10;

}

if(flag==0)

{

System.out.println("the number does not contain any odd digit");

}

else

{

System.out.println("the number contain "+flag+" numbers of odd digits");

}

}

}

**PROGRAM TO CHECK WHETHER GIVEN NUMBER IS PALINDROME OR NOT**

import java.util.\*;

class odd

{

public static void main(String args[])

{

Scanner sc = new Scanner (System.in);

int sum = 0;

int a,temp;

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

int x = sc.nextInt();

temp=x;

while(x>0)

{

a=x%10;

sum=(sum\*10)+a;

x=x/10;

}

if(temp==sum)

{

System.out.println("the number is palindrome");

}

else

{

System.out.println("the number is not palindrome");

}

}

}

**PROGRAM TO CHECK WHETHER GIVEN NUMBER IS PRIME OR NOT**

import java.util.\*;

class odd

{

public static void main(String args[])

{

Scanner sc = new Scanner (System.in);

int flag=0;

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

int x = sc.nextInt();

for(int i=2;i<x;i++)

{

if(x%i==0)

{

flag =1;

}

else{

continue;

}

}

if(flag==0)

{

System.out.println("prime");

}

else

{

System.out.println("not prime");

}

}

}

**JAVA PROGRAM TO CHECK WHETHER A GIVEN NUMBER IS AUTOMORPHIC OR NOT**

import java.util.\*;

class automorphic {

public static void main(String args[])

{

Scanner sc = new Scanner(System.in);

System.out.println("Enter a number");

int a = sc.nextInt();

int count=0;

int b=a\*a;

int temp=a;

while(a>0)

{

count++;

a=a/10;

}

int c =(int)(b%(Math.pow(10,count)));

if(c==temp)

{

System.out.println("automorphic");

}

else

{

System.out.println("not automorphic");

}

}

}

**JAVA PROGRAM TO CHECK WHETHER A GIVEN NUMBER IS A BUZZ NUMBER OR NOT**

import java.util.\*;

class automorphic {

public static void main(String args[])

{

Scanner sc = new Scanner(System.in);

System.out.println("Enter a number");

int a = sc.nextInt();

if((a%10)==7 ||(a/7)==0)

{

System.out.println("the number is buzz number ");

}

else

{

System.out.println("the number is not buzz number");

}

}

}

**JAVA PROGRAM TO INPUT ELEMENTS OF ARRAY**

import java.util.\*;

class array{

public static void main(String args[])

{

Scanner sc = new Scanner(System.in);

System.out.println("Enter the number of elements");

int n = sc.nextInt();

int ar[] = new int[n];

System.out.println("Enter the elements");

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

{

ar[i] = sc.nextInt();

}

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

{

System.out.println(ar[i]+" ");

}

}

}

**CALLING A FUNCTION FROM ANOTHER METHOD**

import java .util.\*;

class method

{

public static void main(String args[])

{

sum();

}

static void sum()

{

Scanner in = new Scanner(System.in);

System.out.println("Enter first number");

int a = in.nextInt();

System.out.println("Enter second number");

int b = in.nextInt();

int sum = a+b;

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

}

}

**PROGRAM TO PRINT 2 D ARRAYS IN JAVA**

import java.util.\*;

class array

{

public static void main(String args[])

{

int row,col;

Scanner sc = new Scanner(System.in);

System.out.println("Enter the number of rows");

row = sc.nextInt();

System.out.println("Enter the number of column");

col = sc.nextInt();

int ar[][]=new int[row][col];

System.out.println("Enter the elements of array");

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

{

for(int j=0;j<col;j++)

{

ar[row][col]=sc.nextInt();

}

System.out.println("Elements of array");

}

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

{

for(int j=0;j<col;j++)

{

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

}

System.out.println();

}

}

}

**ARRAY LINEAR SEARCH JAVA PROGRAM**

import java.util.\*;

class found

{

public static void main(String args[])

{

Scanner sc = new Scanner(System.in);

System.out.println("Enter the number that you want to search");

int num=sc.nextInt();

System.out.println("Enter the number of elements");

int n = sc.nextInt();

int ar[]=new int [n];

System.out.println("Enter the elements");

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

{

ar[i]=sc.nextInt();

}

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

{

System.out.println(ar[i]+" ");

}

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

{

if(ar[i]==num)

System.out.println("the number is found at index "+ i);

else

{

System.out.println("The number is not found");

}

}

}

}

**JAVA PROGRAM TO PRINT STRING**

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

String a = sc.nextLine();

System.out.println(a);

}

}

**JAVA PROGRAM TO FIND LENGTH OF STRING**

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

String a = sc.nextLine();

System.out.println(a);

int b = a.length();

System.out.println(b);

}

}

**JAVA PROGRAM TO CONVERT STRING TO LOWERCASE**

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

String a = sc.nextLine();

System.out.println(a);

String b = a.toLowerCase();

System.out.println(b);

}

}

**JAVA PROGRAM TO REVERSE A STRING**

class reversing {

public static void main(String[] args) {

StringBuffer a = new StringBuffer("Hrishika");

System.out.println(a.reverse());

}

}