**Day-1 Programs**

//Hello World

class HelloWorld {

public static void main(String[] args) {

System.out.println("Hello, World!");

}

}

OUTPUT

Hello, World

1.

//Simple Interest

import java.util.\*;

class SimpleInterest{

public static void main(String[] args)

{

Scanner s=new Scanner(System.in);

int si, p, r, t;

boolean isSenior;

System.out.println("Enter the Principal amount:");

p=s.nextInt();

if(p<0)

{

System.out.println("Enter a valid Principal Amount");

}

else{

System.out.println("Are you a senior citizen(True or False):");

isSenior=s.nextBoolean();

if(isSenior)

{

System.out.println("Rate of interest is 12%");

r=12;

}

else{

System.out.println("Rate of interest is 10%");

r=10;

}

System.out.println("Enter the Time Period:");

t=s.nextInt();

if(t<0)

{

System.out.println("Enter a valid Time Period");

}

else{

si=(p\*r\*t)/100;

System.out.printf("The Simple Interest is %d",si);

}

}

}

}

OUTPUT

Enter the Principal amount:

10000

Are you a senior citizen(True or False):

false

Rate of interest is 10%

Enter the Time Period:

20

The Simple Interest is 20000

Process finished with exit code 0

2.

Addition

import java.util.\*;

class Addition{

public static void main(String[] args)

{

Scanner s=new Scanner(System.in);

int a,b,c;

System.out.println("Enter 1st number:");

a=s.nextInt();

System.out.println("Enter 2nd number:");

b=s.nextInt();

c=a+b;

System.out.println("Output = "+c);

}

}

**OUTPUT**

Enter 1st number:

20

Enter 2nd number:

30

Output = 50

Process finished with exit code 0

3.

//Farenheit to Celsius

import java.util.Scanner;

class Fahrenheit {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

int f, fin;

System.out.println("Enter the Farenheit Temperature: ");

f = s.nextInt();

fin = (f-32)\*5/9;

System.out.println("The equivalent Celsius value for given is = " + fin);

}

}

**OUTPUT**

Enter the Farenheit Temperature:

98

The equivalent Celsius value for given is = 36

Process finished with exit code 0

4.

//Even or Odd

import java.util.Scanner;

class EvenOrOdd {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

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

int num;

num=s.nextInt();

if(num%2==0)

{

System.out.printf("The number %d is EVEN",num);

}

else

{

System.out.printf("The number %d is ODD",num);

}

}

}

OUTPUT

Enter the Number:

45

The number 45 is ODD

Process finished with exit code 0

5.

//Leap Year or not

import java.util.Scanner;

class HelloWorld {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

int year;

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

year=s.nextInt();

if((year%4==0&&year%100!=0)||year%400==0)

{

System.out.printf("The given year %d is a leap year\n",year);

}

else

{

System.out.printf("The given year %d is not a leap year\n",year);

}

}

}

OUTPUT

Enter the year number:

2003

The given year 2003 is not a leap year

Process finished with exit code 0

6.

//Voting Eligibility

import java.util.\*;

class Voting{

public static void main(String[] args)

{

Scanner s=new Scanner(System.in);

int age,elg;

System.out.print("Enter your AGE:");

age=s.nextInt();

elg=18-age;

if(age>=18)

{

System.out.println("You are Eligible for Voting\n");

}

else if(age<18)

{

System.out.printf("You are Not Eligible for Voting\nYou'll be eligilble after %d Years\n",elg);

}

else if(age<=0)

{

System.out.println("Enter a Valid AGE\n");

}

}

}

OUTPUT

Enter your AGE:15

You are Not Eligible for Voting

You'll be eligilble after 3 Years

Process finished with exit code 0

7.

//Positive Negative

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

int num;

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

num=s.nextInt();

if(num<0)

{

System.out.printf("Given number %d is a negative number\n",num);

}

else if(num==0)

{

System.out.printf("Given number %d is zero\n",num);

}

else if(num>0)

{

System.out.printf("Given number %d is a positive number\n",num);

}

}

}

OUTPUT

Enter a number:

-52

Given number -52 is a negative number

Process finished with exit code 0

8.

//College and Departments

import java.util.\*;

class MyProgram{

public static void main(String[] args)

{

Scanner s=new Scanner(System.in);

String dept;

System.out.print("Enter the Department name:");

dept=s.nextLine();

if(dept.equals("CSE")||dept.equals("ECE")||dept.equals("MECH")||dept.equals("CIVIL")||dept.equals("ENEE"))

{

System.out.print("Belongs to SSE college\n");

}

else if(dept.equals("CARDIO")||dept.equals("NEURO"))

{

System.out.print("Belongs to SMC college\n");

}

else if(dept.equals("BCOM")||dept.equals("BSC"))

{

System.out.print("Belongs to SCLAS college\n");

}

else if(dept.equals("FASHION")||dept.equals("ARCHITECTURE"))

{

System.out.print("Belongs to SCAD college\n");

}

}

}

OUTPUT

Enter the Department name:CSE

Belongs to SSE college

Process finished with exit code 0

9.

//Sum of N numbers

import java.util.\*;

class MyProgram {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

int n,i;

int sum=0;

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

n=s.nextInt();

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

{

sum=sum+i;

}

System.out.printf("The sum of given %d numbers is = %d",n,sum);

}

}

OUTPUT

Enter the number:10

The sum of given 10 numbers is = 55

Process finished with exit code 0

10.

//Prime Number or not

import java.util.\*;

class PrimeNumber{

public static void main(String[] args)

{

int n, m=0, i, flag=0;

Scanner s=new Scanner(System.in);

System.out.print("Enter a number:");

n=s.nextInt();

m=n/2;

if(n==0 || n==1)

{

System.out.printf("%d is Not a Prime Number",n);

}

else{

for(i=2;i<=m;i++)

{

if(n%i==0)

{

System.out.printf("%d is Not a Prime Number",n);

flag=1;

break;

}

}

if(flag==0)

{

System.out.printf("%d is a Prime Number",n);

}

}

}

}

OUTPUT

Enter a number:13

13 is a Prime Number

Process finished with exit code 0

11.

//Factorial of a number

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

int n;

int fact;

System.out.print("Enter the number to find factorial:");

n=s.nextInt();

fact=1;

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

fact\*=i;

}

System.out.printf("The factorial of given number %d is %d\n",n,fact);

}

}

OUTPUT

Enter the number to find factorial:5

The factorial of given number 5 is 120

Process finished with exit code 0

12.

//Fibonacci Series

import java.util.\*;

class MyProgram{

public static void main(String[] args)

{

Scanner s=new Scanner(System.in);

int n,a=0,b=1,c;

System.out.print("Enter the number of terms in series:");

n=s.nextInt();

System.out.print("Fibonacci Series: ");

System.out.println(a+","+b+",");

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

{

c=a+b;

System.out.println(c+",");

a=b;

b=c;

}

}

}

OUTPUT

Enter the number of terms in series:5

Fibonacci Series: 0,1,

1,

2,

3,

Process finished with exit code 0

13.

//Reverse a number

import java.util.\*;

class ReverseNum{

public static int reverse(int n)

{

int rev=0;

int rem;

while(n>0)

{

rem=n%10;

rev=(rev\*10)+rem;

n=n/10;

}

return rev;

}

public static void main(String[] args)

{

int n;

Scanner s=new Scanner(System.in);

System.out.print("Enter a number to reverse:");

n=s.nextInt();

System.out.println("Reverse of given number is = "+reverse(n));

}

}

OUTPUT

Enter a number to reverse:12354

Reverse of given number is = 45321

Process finished with exit code 0

14.

//Palindrome

//Choice:1 for Number, Choice:2 for String

import java.util.\*;

class Palindrome{

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

int choice;

System.out.print("Enter Choice=1 for Number\nEnter Choice=2 for String\n");

System.out.print("Enter your choice:");

choice=s.nextInt();

System.out.print("Enter the string: ");

String value = s.next();

switch(choice){

case 1:

int num = Integer.parseInt(value);

int rev = 0,rem,num2=num;

while(num!=0){

rem = num%10;

rev = rev\*10+rem;

num = num/10;

}

if(num2==rev)

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

else

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

break;

case 2:

StringBuffer s1 = new StringBuffer(value);

s1.reverse();

String s2 = s1.toString();

if (value.equals(s2))

System.out.println("the strings are pallindrome");

else

System.out.println("the strings are not pallindrome");

break;

default:

System.out.print("Enter a valid choice:");

}

}

}

OUTPUT

Enter Choice=1 for Number

Enter Choice=2 for String

Enter your choice:1

Enter the string: 12321

the number is palindrome

Process finished with exit code 0

15.

//Armstrong Number

import java.util.\*;

class ArmstrongNum{

public static void main(String[] args)

{

Scanner s=new Scanner(System.in);

int n,temp,r,sum=0;

System.out.print("Enter a number:");

n=s.nextInt();

temp=n;

while(n>0)

{

r=n%10;

n=n/10;

sum=sum+r\*r\*r;

}

if(temp==sum)

{

System.out.print("It is a Armstrong Number");

}

else{

System.out.print("It is not a Armstrong Number");

}

}

}

OUTPUT

Enter a number:153

It is a Armstrong Number

Process finished with exit code 0

**ASSIGNMENT-1**

1.

// Reversing a String

// Assignment 1 Q-1

import java.util.\*;

class ReverseWord{

public static void main(String[] args)

{

Scanner s=new Scanner(System.in);

String inputString, reversedString;

System.out.print("Enter a String:");

inputString = s.nextLine();

reversedString = reverseString(inputString);

System.out.println("The Reversed string is:"+reversedString);

}

public static String reverseString(String input)

{

char[] charArray = input.toCharArray();

int start = 0;

int end = input.length() - 1;

while(start<end)

{

char temp = charArray[start];

charArray[start] = charArray[end];

charArray[end] = temp;

start++;

end--;

}

return new String(charArray);

}

}

2.

// Username is valid or not

//Assignment 1 Q-2

import java.util.\*;

class Username{

public static void main(String[] args)

{

Scanner s=new Scanner(System.in);

String Username1, Username2;

System.out.print("Enter the Username1:");

Username1=s.nextLine();

System.out.print("Enter the Username2:");

Username2=s.nextLine();

if(Username1.equals(Username2))

{

System.out.print("Username is Valid");

}

else{

System.out.print("Username is Invalid");

}

}

}

3.

//Voting Eligibility

//Assignment 1 Q-3

import java.util.\*;

class Voting{

public static void main(String[] args)

{

Scanner s=new Scanner(System.in);

int age,elg;

System.out.print("Enter your AGE:");

age=s.nextInt();

elg=18-age;

if(age>=18)

{

System.out.println("You are Eligible for Voting\n");

}

else if(age<18)

{

System.out.printf("You are Not Eligible for Voting\nYou'll be eligilble after %d Years\n",elg);

}

else if(age<=0)

{

System.out.println("Enter a Valid AGE\n");

}

}

}

4.

//Simple Interest

//Assignment 1 Q-4

import java.util.\*;

class SimpleInterest{

public static void main(String[] args)

{

Scanner s=new Scanner(System.in);

int si, p, r, t;

boolean isSenior;

System.out.println("Enter the Principal amount:");

p=s.nextInt();

if(p<0)

{

System.out.println("Enter a valid Principal Amount");

}

else{

System.out.println("Are you a senior citizen(True or False):");

isSenior=s.nextBoolean();

if(isSenior)

{

System.out.println("Rate of interest is 12%");

r=12;

}

else{

System.out.println("Rate of interest is 10%");

r=10;

}

System.out.println("Enter the Time Period:");

t=s.nextInt();

if(t<0)

{

System.out.println("Enter a valid Time Period");

}

else{

si=(p\*r\*t)/100;

System.out.printf("The Simple Interest is %d",si);

}

}

}

}

5.

//Calculate No of Years, Days, Weeks from given no of days

// Assignment 1 Q-5

import java.util.\*;

class DaystoYearsWeeksDays{

public static void main(String[] args)

{

Scanner s=new Scanner(System.in);

int noofdays, years, weeks, days, rdays;

System.out.print("Enter No of Days:");

noofdays=s.nextInt();

if(noofdays<0)

{

System.out.print("Enter valid No of Days");

}

else if(noofdays>=0) {

years = noofdays/365;

rdays = noofdays%365;

weeks = rdays/7;

days = rdays%7;

System.out.println("No of Years is : "+years);

System.out.println("No of Weeks is :"+weeks);

System.out.println("No of Days is :"+days);

}

}

}