**Home Work**

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1. WAP to check if the number given is an Armstrong number.

import java.util.Scanner;

class Test

{

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

System.out.print("Enter any 3 digit number:");

int n=sc.nextInt();

int sum=0, m=n;

if(n>=100 && n<=999)

{

while (n>0)

{

sum+=(Math.pow(n%10, 3));

n/=10;

}

if (sum==m)

System.out.print(m+ " is an Armstrong number.");

else

System.out.print(m+ " is NOT an Armstrong number.");

}

else

System.out.print("You did not enter a 3 digit number.");

}

}

1. WAP to check if the given year is a Leap year or not.

import java.util.Scanner;

class Test

{

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

System.out.print("Enter any year:");

int y=sc.nextInt();

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

System.out.print(y+ " is a Leap year!");

else

System.out.print(y+ " is NOT a Leap year!");

}

}

1. WAP to display the factorial of the given number.

import java.util.Scanner;

class Test

{

public static void main(String args[])

{

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

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

long x=1;

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

System.out.print(n+"!= 1");

else

{

for(int i=n; i>=2; i--)

x\*=i;

System.out.print(n+"!= "+x);

}

}

}