ARMSTRONG NUMBER: is one whose sum of digits raised to the power three equals the number itself

Eg:

371 : 33  + 73 + 13 = 371

//ARMSTRONG NUMBER

//THIS CODE IS WRITTE BY AYUSH

import java.util.Scanner;

import java.lang.Math;

public class ArmstsrongNumberExample

{

//function to check if the number is Armstrong or not

static boolean isArmstrong(int n)

{

int temp, digits=0, last=0, sum=0;

//assigning n into a temp variable

temp=n;

//loop execute until the condition becomes false

while(temp>0)

{

temp = temp/10;

digits++;

}

temp = n;

while(temp>0)

{

//determines the last digit from the number

last = temp % 10;

//calculates the power of a number up to digit times and add the resultant to the sum variable

sum +=  (Math.pow(last, digits));

//removes the last digit

temp = temp/10;

}

//compares the sum with n

if(n==sum)

//returns if sum and n are equal

return true;

//returns false if sum and n are not equal

else return false;

}

//driver code

public static void main(String args[])

{

int num;

Scanner sc= new Scanner(System.in);

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

//reads the limit from the user

num=sc.nextInt();

System.out.println("Armstrong Number up to "+ num + " are: ");

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

//function calling

if(isArmstrong(i))

//prints the armstrong numbers

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

}

}