Program to find whether the given number is Armstrong number or not

CODE:

import java.util.Scanner;

public class ArmstrongNumber {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

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

int number = scanner.nextInt();

scanner.close();

if (isArmstrong(number))

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

else

System.out.println(number + " is not an Armstrong number.");

}

public static boolean isArmstrong(int num) {

int originalNum, remainder, result = 0, n = 0;

originalNum = num;

// Count number of digits

for (; originalNum != 0; originalNum /= 10, ++n);

originalNum = num;

// Calculate sum of nth power of individual digits

for (; originalNum != 0; originalNum /= 10) {

remainder = originalNum % 10;

result += Math.pow(remainder, n);

}

// Check if number is Armstrong

if (result == num)

return true;

else

return false;

}

}

OUTPUT:

C:\javap>java ArmstrongNumber

Enter a number: 10

10 is not an Armstrong number.

