

Day 19 coding Statement : Write a program to identify if the number is Armstrong number or not

Description : Get an input number from user and check whether the given number is an Armstrong number or not.

E.g. Let the number be 1634,

Here $1^4 + 6^4 + 3^4 + 4^4 = 1634$

Therefore, this is an Armstrong number

Input : 153

Output : Armstrong number

Input : 121

Output : Not an Armstrong number

Program :

```
package com.talentbattle.codingchallenge;

import java.util.Scanner;
import java.lang.Math;

public class Armstrong {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner scan = new Scanner(System.in);
        System.out.println("Enter a Number ");
        int n = scan.nextInt();
        int temp = n;
        int rem;
        int sum=0;

        while(temp !=0) {
            rem = temp % 10;
            sum = (int) (sum +Math.pow(rem, 3));
            temp = temp/10;
        }
        if(sum==n) {
            System.out.println("Armstrong number");
        }
        else {
            System.out.println("Not a Strong Number");
        }
    }
}
```

