```
1 /**
   * Created by Grand Circus Student on 6/29/2017.
 4 import java.util.Scanner;
 5
 6 /* 153
          ---> 1
              1*1*1 + 5*5*5 + 3*3*3
 7
 8
                1
                    + 125 + 27
                       153
                                 <--- ex. of an Armstrong
  number: whose sum of the cubes of the
10
                                           numbers digit's is
   equal to the number itself
11 */
12
13
14 public class mathChallenge {
15
16
       public static void main(String arg[]) {
17
           Scanner scnr = new Scanner(System.in);
18
19
           int n, temp, sum = 0, r;
20
21
           System.out.println("Enter a Number : ");
22
          n = scnr.nextInt();
23
24
                                                     // n
           temp = n;
  being the sum of the cubes of each digit
25
26
          while (temp!=0) {
27
               r = temp % 10;
               sum = sum + (r * r * r);
28
                                                     //
  finding the sum of the cubes of each digit
29
               temp = temp / 10;
30
           }
31
               if (sum == n) {
                   System.out.println("TRUE"); // if sum
32
    is equal to n, then the statement is true
33
34
           } else {
35
36
               System.out.println("FALSE");
                                                   // if sum
    is not equal to n, then the statement is false
37
               }
38
39
           }
```

File - C:\U	sers/Grand Circ	us Student\IdeaProject	s/Deliverable 1/src/ma	tnCnallenge.java	
40					
41	}				