

```
1 //33. Create a program to check if a number is an
   Armstrong number.
2 import java.util.Scanner;
3
4 public class ArmstrongCheck {
5     public static void main(String[] args) {
6         Scanner scanner = new Scanner(System.in);
7
8         System.out.print("Enter a number: ");
9         int num = scanner.nextInt();
10        int originalNum = num;
11
12        int sum = 0;
13        int digits = String.valueOf(num).length();
14
15        while (num != 0) {
16            int digit = num % 10;
17            sum += Math.pow(digit, digits);
18            num /= 10;
19        }
20
21        if (sum == originalNum) {
22            System.out.println(originalNum + " is an
Armstrong number.");
23        } else {
24            System.out.println(originalNum + " is not
an Armstrong number.");
25        }
26
27        scanner.close();
28    }
29 }
30
31
```