

## 15.isarmstrong

```
import java.util.*;
public class isarmstrong {
    public static void main(String[] args) {
        int sum = 0;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter a number to check Armstrong number: ");
        int num = sc.nextInt();
        int copy = num;
        String n = Integer.toString(num);
        int len = n.length();
        while(num != 0) {
            int rem = num % 10;
            int mul = 1;
            for(int i = 1; i <= len; i++) {
                mul *= rem;
            }
            sum += mul;
            num /= 10;
        }
        if(sum == copy) {
            System.out.println(copy + " is an Armstrong number");
        } else {
            System.out.println(copy + " is not an Armstrong number");
        }
    }
}
```

The screenshot shows an IDE window with the following components:

- EXPLORER:** A list of files in the 'DAY-1' project, including 'add.java', 'celtofare.java', 'factorial.java', 'fibonacci.java', 'inputadd.java', 'isarmstrong.java' (selected), 'leapyear.java', 'oddoreven.java', 'palindrome.java', 'primenumber.java', 'print.java', 'simpleinterst.java', 'stringinput.java', 'sum\_of\_n\_naturalnum.java', and 'voting.java'.
- EDITOR:** The source code for 'isarmstrong.java' is displayed, matching the code provided in the previous block.
- TERMINAL:** The output of the program is shown, including the prompt 'Enter a number to check Armstrong number:', the input '153', and the output '153 is an Armstrong number'. A second run shows the input '123' and the output '123 is not an Armstrong number'.
- DEBUG CONSOLE:** Shows the execution of the Java command: `PS C:\Users\heman\Desktop\java\Day-1> & 'C:\Program Files\Java\jdk-21\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\heman\AppData\Roaming\Code\User\workspaceStorage\5d3f3e7447782df4a4971f9b5d2e0367\redhat.java\jdt_ws\Day-1_1d7faf7\bin' 'isarmstrong'`.