

## Problem Set 1 Exercise #18: Magnitude

**Reference:** Lecture 3 notes

**Learning objective:** Selection statements

**Estimated completion time:** 15 minutes

### Problem statement:

Scientists classify the severity of an earth quake by the following Richter Magnitude Scale:

Richter Scale	Classification
magnitude < 4.0	Minor
4.0 <= magnitude < 6.0	Moderate
6.0 <= magnitude < 6.9	Strong
6.9 <= magnitude	Major

Write a program **PS1\_Ex18\_Magnitude.java** that asks user for magnitude and then reports the classification.

### Sample run #1:

```
Magnitude: 6.0
Classification: Strong
```

### Sample run #2:

```
Magnitude: 4
Classification: Moderate
```