

Homework #2: Maven, Logging and JUnit

For Homework #2, you are going to get some practice with Maven, Logging and JUnit.

Background: For this homework, you will be parsing the [Titanic data set](#).

Steps:

Step 1: Using the instructions from class, create a new Maven project. Your app should use the package name: `edu.bhcc`, and the application should be called `titanic`.

Step 2: Write a class called `TitanicReader`. `TitanicReader` should read in a file, parse it correctly, and count up the total number of passengers, and total number of passengers in each class. It should have the following public methods:

- `public TitanicReader(File file)`
- `public int getNumPassengers()`
- `public int getNumFirstClassPassengers()`
- `public int getNumSecondClassPassengers()`
- `public int getNumThirdClassPassengers()`

Step 3: Using the instructions from class, add various log messages to your `TitanicReader`. You must use Simple Logging Facade for Java (SLF4J) for this.

Step 4: Download the Titanic data set at:

<https://raw.githubusercontent.com/ecerami/CSC-285/main/class2/titanic.csv> and copy it to: `titanic/src/test/test_data/titanic.csv`

Step 5: Create a JUnit class called `TitanicReaderTest`. This class should read in `titanic.csv` and verify that all the public methods in `TitanicReader` return the correct values.

Step 6: Before you submit your homework, run: `mvn clean`. Then, zip everything up and post to Moodle.

