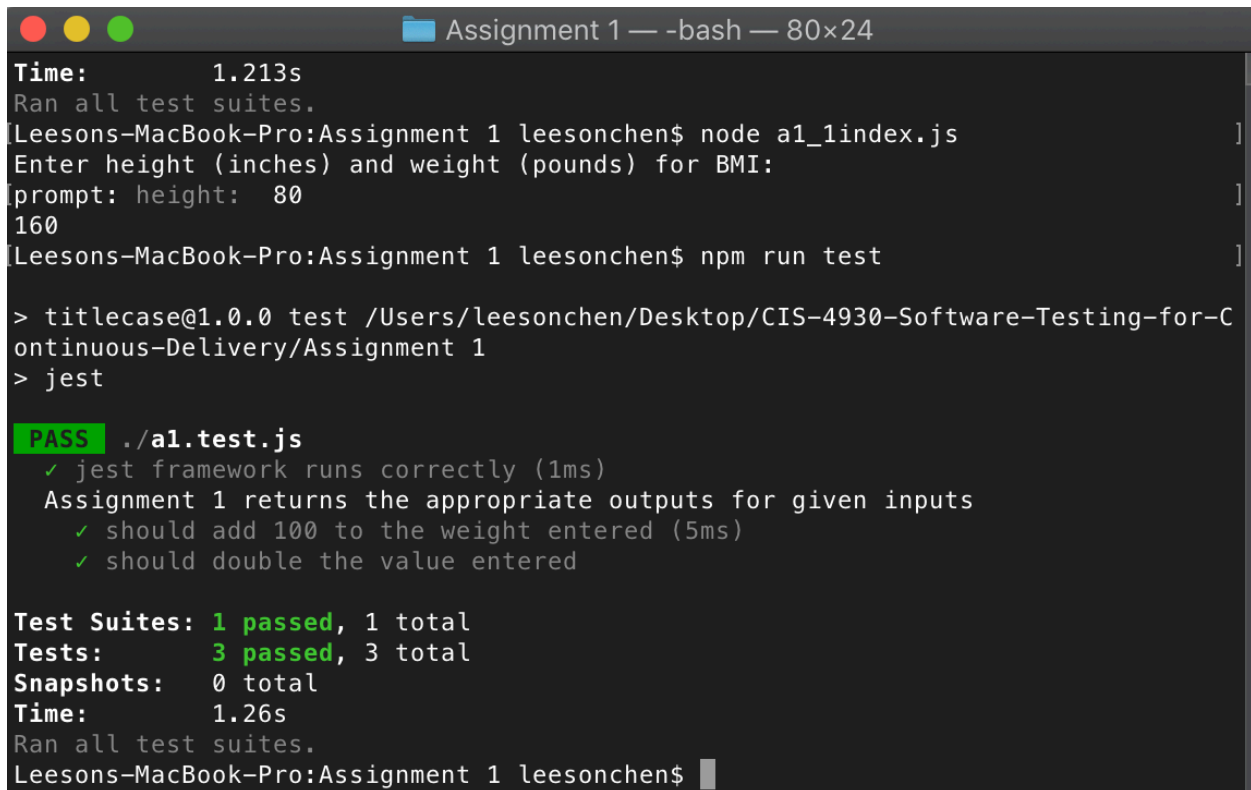SWT PPA 1 Project Report
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1. Naming and organizational conventions: The language I am using is Javascript. Because of this, my tests will be using the Jest testing framework. The names of my tests will follow the naming format it('should… [condition]'). For example, a test that expects to add 100 to any number input will be named it('should add 100 to the input number', …

2. The tests use Jest, which I downloaded from the Mac OS command line with "npm install --save-dev jest". The test script was compiled and run from the command line as well ("node a1index.js" to run the code filed as a1index.js, and "npm run test" to run the test suite named a1.test.js).

3. [screenshot of all tests passing]

4. [code coverage report]

5. I think that unit testing and TDD are useful additional steps to the programming process. Although they are a time investment, the investment pays off. TDD is of course very useful for a real programming project, as it reduces time spent on maintenance and ensuring code changes don't break old features. The benefits to TDD are as listed above: that it reduces time spent on maintenance and makes

sure code changes don't break old features; additionally, the tests serve as documentation and specifications of their own. The drawbacks to TDD are that writing tests at the beginning takes longer than just starting to write the program, which can be less useful for code that is simple and may not need a full suite of tests for long-term maintenance.