# Lab 2 Compsci 280

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## 1  How did you go about completing each task and how does each solution work?

The first task was quite straightforward - the tests were simple to implement as they were just assertEqual to values that are known (for example, it is very easy to validate an add function and the Fibonacci test case was basically given. It also took a little bit of time to figure out how to make the Fibonacci function return the right value, but as the assertEqual showed us what the outcome was versus the expected one (8 != 5), from there it was easy to figure out what to do, it just took more time figuring out how the Fibonacci function actually worked.

The second task required a little bit more work as honestly, I didn't (and still kind of don't) really know how to convert between bases and it took a lot of googling to try and figure out what the actual outcome would be if I put in a test case. The third task took even more time as I had to make a new class but I think it works ok - it checks that the error message and info message is the same as what it is built in to be with a message passed into the function.

I don't really understand what you mean by how the solutions work - all of the tests were built in and just check a case with an example. The third task has a class which assigns a message and then checks if the message was an error/info message and if it came out properly according to the example string.

## 2  What difficulties did you face while attempting these tasks?

It took a little while to understand what they meant by a test case - I thought that maybe it had to be less specific but the first two tasks were quite easy. The third one took a little longer to understand what was going on but it worked out okay in the end.

## 3  What did you learn from the tasks?

I learned how to write unit test cases and what they actually are, and how they can be used to fix errors in specific sections of your code.

# 4 How do you think this lab will help you in understanding software development?

This lab taught me how to write the test cases first and then write/fix the code later. It also reinforced the importance of unit testing and how to actually implement that in real examples.