



Reno Technology Academy

Multnomah University Reno/Tahoe

CIS104: Coding in Python

Lesson 4

Readings:

Learning Python

Chapter 15: The Documentation Interlude pp. 461-485

From *PyDoc: HTML Reports* (p. 470) through *Published Books* (p.481) is not needed in the class but is good to know for future reference.

Chapter 33: Exception Basics pp. 1119-1129

Chapter 34: Exception Coding Details pp. 1131-1159

Chapter 35: Exception Objects pp. 1161-1178

Chapter 36: Designing with Exceptions pp. 1179-1200**

unittest — Unit testing framework (<https://docs.python.org/3/library/unittest.html>)

*Note: Since we are reading the book out of order, some examples in the reading will have logic that we haven't covered yet. It's ok if you don't know what those are, just extract what the reading is concentrating on and we'll get to the other logic later.

**Note: There is a lot of advanced things in this chapter. I would like you to read it just so you know about it.

Lab/Homework (10 points)

All homework files can be added to GitHub repository in a folder. After you commit and sync the changes, submit the URL to the folder. I would suggest committing each file when you finish each part. You can sync the commits at the end. Feel free to commit and sync as many times as necessary. A commit/sync doesn't mean the project is finished. I will grade the closest submission that doesn't pass the due date. If you change your submission after the due date and before I grade it, you will receive 50% credit of the difference. For example, the submission before the due date is graded at 70%, but the latest submission grades as a 100%, the final grade will be an 85%.

Calculator:

Use the calculator.py and main.py files from the last assignment:

1. Properly document all functions in calculator.py.
2. In Main.py, handle all user-entered errors, i.e. anything the user enters that is not a number or one of the operators entered properly.
3. Add 3 unit tests for each function in calculator.py that tests that each test is functioning properly.