The following is an exercise in using programmer-defined functions. This exercise will be available online on Moodle if you wish to use it again.

Log in to CMPS Lab

1. Copy/Save the lab source code file for today from the Moodle Lecture Site

Look for the files for today "lab8.py" AND "lab8.grades" and save the files to your machine.

2. At the Linux desktop, open a terminal window (i.e., command line window)

Do this by right-clicking on the desktop and selecting "Open Terminal" from the menu.

3. Launch IDLE.

idle3.5

Or, on the MacMini, select "Go" from the menu bar, then "Applications" Find the Python 3.5 applications, double-click on it, and select "IDLE"

4. Open the source code file just copied to your home directory.

Select "File" from the menu bar, "Open" from the menu, then lab9.py from the list of files.

5. Edit the first two lines of the code to have **your** name/clid/section.)

Author: Your-Name

CLID/Section: Your-CLID & section-number go here

The task this week is to write a program that computes YOUR current grade in this class.

The input file contains exactly eleven (11) lines of data. The first seven(7) lines are lab grades. The next three(3) lines are programming assignment grades. The final line is an exam grade.

Task #1: Call three (3) separate functions to compute: 1) a lab average, 2) a programming assignment average, and 3) an exam average. Send the appropriate parameter(s) to your functions. All functions must return the average to your main (driver) function.

Task #2: Use the following weights to compute an "overall" average.

- 10% labs
- 15% programming assignments
- 75% exams

6. Save your changes and run your code.

(you can also simply press F5)

7. Debug your code (perhaps you can skip this step).

If you have any errors in your code, the interpreter will produce an error, with a line number, where it detects there is a problem with your code. Return to the editor and correct the error. Run it through the interpreter again (step 6) until it runs with no errors.

8. Sample Run

9. Exit Python

Close the Python IDLE editor by clicking the X in the upper right corner (or selecting File/Exit from the menus). Close the Python IDLE shell by clicking the X in the upper right corner (or typing Ctrl-D).

10. Exit Terminal

Close the terminal window by clicking the X in the upper right corner (or typing Ctrl-D).

11. Upload to Moodle

Get in a browser (the globe icon on the toolbar at the top) and login to Moodle.

Instead of going to the Lecture Section (section 0), go to YOUR specific Upload section on the Moodle site.

Here you will see the lab for today. Click on the link for Lab #8.

Click to "Add a Submission" then "Upload a File"

Select to "Choose a File" and go about the process of browsing/finding "lab8.py" on the computer Select to "Upload this File"

When returned to the Upload screen, MAKE SURE to click on the "Save Changes" button.

You will be returned to the "Lab #8" screen. This time you should see your source code file listed on it.

12. Logout of Moodle

13. Logout of Linux

Logout is found on the System (toolbar at the top) menu.