

CMPS 150 – Lab 5 – February 15, 2017

The following is an exercise in using Python selection statements. When done, upload your completed lab to your TA on Moodle. 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 file for today “lab5.py” and save the file 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 `lab5.py` from the list of files.

5. Edit these lines of the code to have **YOUR** name/clid/section.)

```
# Author:      Your-Name
# CLID/Section: Your-CLID & section-number go here
```

Write the code to ask the user for an x,y coordinate on a graph.

Next, respond to the user with one of the following:

- which quadrant (I, II, III or IV) the input coordinate “falls into”
- OR
- that the input coordinate is on an axis (**NOT which axis**, just simply that it is ON an axis)
- OR
- that the input coordinate is the origin.

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

Enter a coordinate pair (separated by a comma): 4, -5

This point is in Quadrant IV

Another Sample Run

Enter a coordinate pair (separated by a comma): 0, 8

This point is on an axis

Yet Another Sample Run

Enter a coordinate pair (separated by a comma): 0, 0

This point is the origin

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, go to YOUR specific Lab Upload section on the Moodle site.

Here you will see the lab for today. Click on the link for Lab #5 Submission.

Click to “Add a Submission” then “Upload a File”

Select to “Choose a File” and go about the process of browsing/finding “lab5.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 #5 Submission” 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.