

CMPS 150 – Lab 1 – January 18, 2017

The following is an exercise in using your CMPS Lab Linux account, the IDLE interactive development environment, the Python interpreter to run your Python source code, and finally, uploading your completed lab to your TA on Moodle. This exercise is available online on Moodle if you wish to use it again.

1. Log in to CMPS Lab

- The machine you are using is running a Linux Operating System.
- Login to the CMPS lab (use sheet provided to you by the CMPS 150 Instructor or TA).

REMEMBER -- DO NOT LOSE THIS LOGIN SHEET !!!

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. You may now issue Linux (Unix) commands.

3. Launch the IDLE interactive development environment.

`idle3.5`

Or, on the MacMini at the back of the lab, login as "Guest"
select "Go" from the menu bar, then "Applications"
Find the Python 3 applications, double-click on it, and select "IDLE"

4. Create a new source code file by selecting "File" from the menu bar, then "New File" from that menu.

5. Enter the following code. (Type it exactly as it is written, except in the comments, use **your** name/clid/section.)

```
# Author: actually type your name here
# CLID/Section: actually type your lecture section here, either 001 or 002

# get user input
state = input("Enter a state abbreviation: ")
length = eval(input("Enter the approximate length of this room: "))
width = eval(input("Enter the approximate width of this room: "))

# compute age in days
area = length * width

# print output
print()
print("The state you entered is:", state)
print("The area of this room is", area, "square feet!")
```

6. When you have completed entering the program, go to the "File" menu and select "Save As"

Name the file: *lab1.py*

7. When done saving, go to the "Run" menu and select "Run Module" (you can also simply press F5)

See Reverse for More Instructions

8. If you get any errors, debug your code. (Hopefully you won't need this step!)

The interpreter will produce an error, with a line number, should there be a problem with your code. Edit your Python code to correct the error. Run it through the interpreter again (step 7) until it runs with no errors.

9. Testing the Code

Use the following test data to see if your code produces correct output.

```
Enter a state abbreviation: CA
Enter the approximate length of this room: 50
Enter the approximate width of this room: 30
```

```
The state you entered is: CA
The area of this room is 1500 square feet!
```

10. 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).

11. Exit Terminal

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

12. 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 section on the Moodle site.
Here you will see the lab for today. Click on the link for Lab #1.
Click to “Upload a File”
Select to “Choose a File” and go about the process of browsing/finding “lab1.py” on the computer and “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 #1” screen. This time you should see your source code file listed on it.

13. Logout of Moodle

14. Logout of Linux

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