CMPS 150 – Lab 2 – January 25, 2017

The following is an exercise in using your CMPS Lab Linux account, copying files from the CMPS server, using the IDLE environment (editor/Python interpreter) to run your Python source code, and finally, uploading 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

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

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

   Look for the file for today "lab2.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 at the back of the lab, login as "Guest"
   > Select "Go" from the menu bar, then "Applications"
   > Find the Python 3.5 applications, double-click on it, and select "IDLE"

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

   Select "File" from the menu bar, "Open" from the menu, then `lab2.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
   ```

6. ***Save your changes and run your code.***   ***(you can also simply press F5)***

7. ***Debug your code.***

We have purposely inserted errors into the **lab2.py** code. The interpreter will produce an error, with a line number, where it detects there is a problem with your code.

Edit your source code repeat step 6 until there are no errors and your code produces the output on the back.

8. *Testing the Code*
Use the following test data to see if your code produces correct output.

```
Angle          Sine      Cosine     Tangent
-----------------------------------------
    30        0.500      0.866       0.577
    45        0.707      0.707       1.000
    90        1.000      0.000  16331239353195370.000


Enter hours: 30
Enter rate: 10.50

Hours = 30
Rate = 10.5
Gross Pay = 315.0
```

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 Lab section on the Moodle site.
Here you will see the lab for today. Click on the link for Lab #2.
Click to "Add a Submission" then "Upload a File"
Select to "Choose a File" and go about the process of browsing/finding "lab2.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 #2" 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.