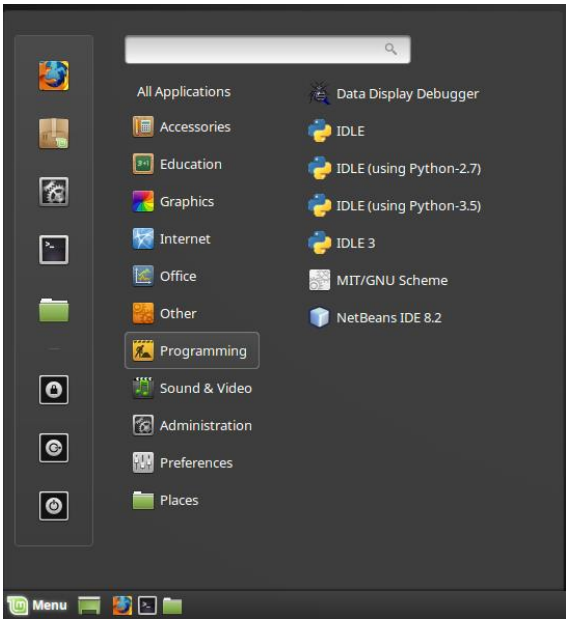
CMPS 150 – Lab 1 Handout

The following is an exercise in using the CMPS Lab, 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. This is a screenshot to launch IDLE on a Linux machine

Click on the Menu button in the lower left corner to access the Menu.

Scroll/Mouse over “Programming” and select “IDLE (using Python-3.5)”



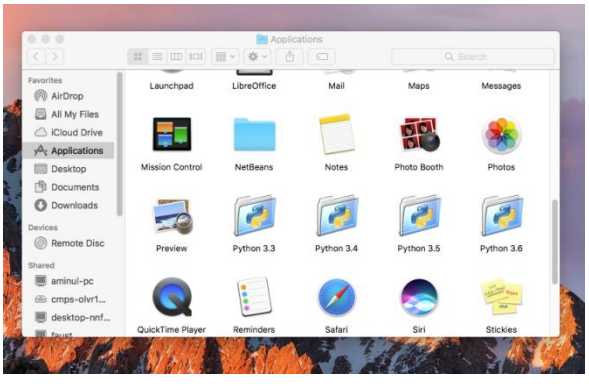
OR

1. This is a screenshot to launch IDLE on the Mac machine

Click on “Go” on the menu bar at the top of the screen.

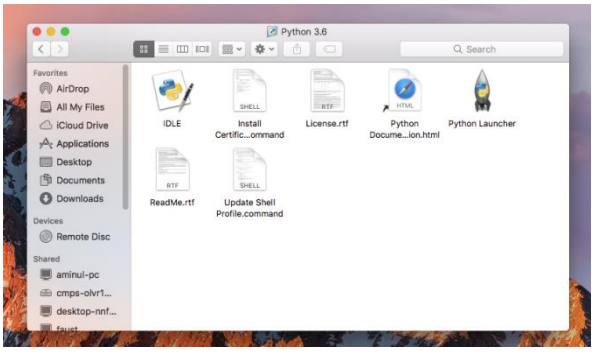
Select “Applications” on the pull down menu that appears and you will see the window at the right.

Double-click the icon labelled “Python 3.7”



The window at the right appears, which is the Python 3.7 window.

Double-click the icon labelled “IDLE”



2. You will be in the Python/IDLE Shell.

Create a new source code file by selecting **"File"** from the menu bar, then **"New File"** from that menu. This opens a new editor file for you to begin typing your Python source code file.

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

```
# Author:       actually type your name here
# ULID/Section: actually type your ULID & lecture section #

# get user input
myCity = input("Enter your hometown: ")
speed = eval(input("Enter the speed of a vehicle in mph: "))
hours = eval(input("Enter the hours a vehicle traveled: "))

# compute distance vehicle traveled
distance = speed * hours

# print output
print()
print("Your hometown is:", myCity)
print("The vehicle traveled", distance, "miles!")
```

NOTE:

Do not type your home town, or a speed, or the hours the vehicle traveled!

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

Name the file: `lab1.py`

5. When done saving, go to the "Run" menu and select "Run Module"

6. 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.

7. Testing the Code

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

```
Enter your hometown: Lafayette
Enter the speed of a vehicle in mph: 80
Enter the hours a vehicle traveled: 5

Your hometown is: Lafayette
The vehicle traveled 400 miles!
```

NOTE:

This is when you will type your hometown, speed, and hours traveled.

8. Exit Python

Close the Python IDLE editor, then close the Python IDLE shell.

9. Upload to Moodle

Get in a browser 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 submission link. 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.

10. Logout of Moodle