CISC106 Spring 2013 Lab01

- This lab an all subsequent labs will be due Thursday at 11:55 PM EDT on Sakai.

Assignment

1. If you plan on using your own computer to do this (and future) labs, you'll have to install Python. If you're running Windows, you can follow the walkthru here: `http://www.udel.edu/CIS/106/keffer/python-primer/`[1] If you're using a Mac, you can still reference the first screenshot to see where to go to get the Python installer.

2. Go to the following URL `http://www.udel.edu/CIS/106/keffer/13S/labs` There you can download the file 'test.py' (you may have to right-click on it and go to save as.)[2]

3. Now, you should run IDLE as per the instructions in the walkthru from part 1 (if you're on a Mac, simply double clicking on test.py should open IDLE, as far as I know. This should even in work in Windows, actually.)

4. If you didn't double click on test.py to run IDLE, you'll have to open it. Going to File→Open will bring up a file open dialog where you can find test.py.

5. Now that you've opened test.py, you should be confronted with a window containing the text `print('That wasn't so bad, was it?')`. In this Window, go to Run→Run Module (as the shortcut key hint on this menu suggests, you could also hit the `F5` key on your keyboard.) If the Python Shell Window gets raised to the front and you see the message 'That wasn't so bad, was it?' printed in it, everything is working right.

6. What you just did was run a very simple python program. Next you're going to get the chance to create your own simple program. To do that, you'll need an empty window in IDLE. Just go to File→New Window from the Python Shell (or type Ctrl+N) and you should soon be greeted with an empty window.

7. Now enter the following lines in that new window:

```
x = 10
a = 15
b = 20
print(x)
x = a + b
print(x)
a = 5
print(x)
x = 9
a = 13
b = 42
print(x)
```

[1] While the walkthru specifies Python version **3.2.3**, it has since been updated to version **3.3.0**, so you'll want to download that. Everything else will be the same.

[2] It'd probably be a good idea to make a lab01 folder in your Documents directory or where ever you like to store such things and save test.py there,

Each of these lines is a *statement* in Python. You'll notice there are two different kinds of statements here - *assignment* statements which assign a *value* (such as 10 to a *variable* (such as x) and *print* statements, which will simply display values to the screen (if you print a variable, the value displayed will be the value assigned to that variable.)

8. Now save this to a file by going to File→Save As. In the save dialog that pops up, you should probably go to the the lab01 folder you created. Name the file `simple.py` and then click save.

9. Start another new file (doing the same thing you did in part 6). Type in what you think the output of simple.py will be (hint: there are four print statements, so you should have four lines of output.) Don't worry about the accuracy of your guess - you won't be graded on it being right or wrong. Save this file as `guess.txt`.

10. Now go back to the window where simple.py is open. Run simple.py the same way you ran test.py (by going to Run→Run Module or by hitting `F5`). What did it actually output? Is this different than what you expected it to be? Whether or not it's different or the same as what you expected, can you explain why the output is what it is? Answer these questions in guess.txt. (You *will* be graded on the quality of your explanation.)

You should submit simple.py along with guess.txt any other docs required by your TA on Sakai.