

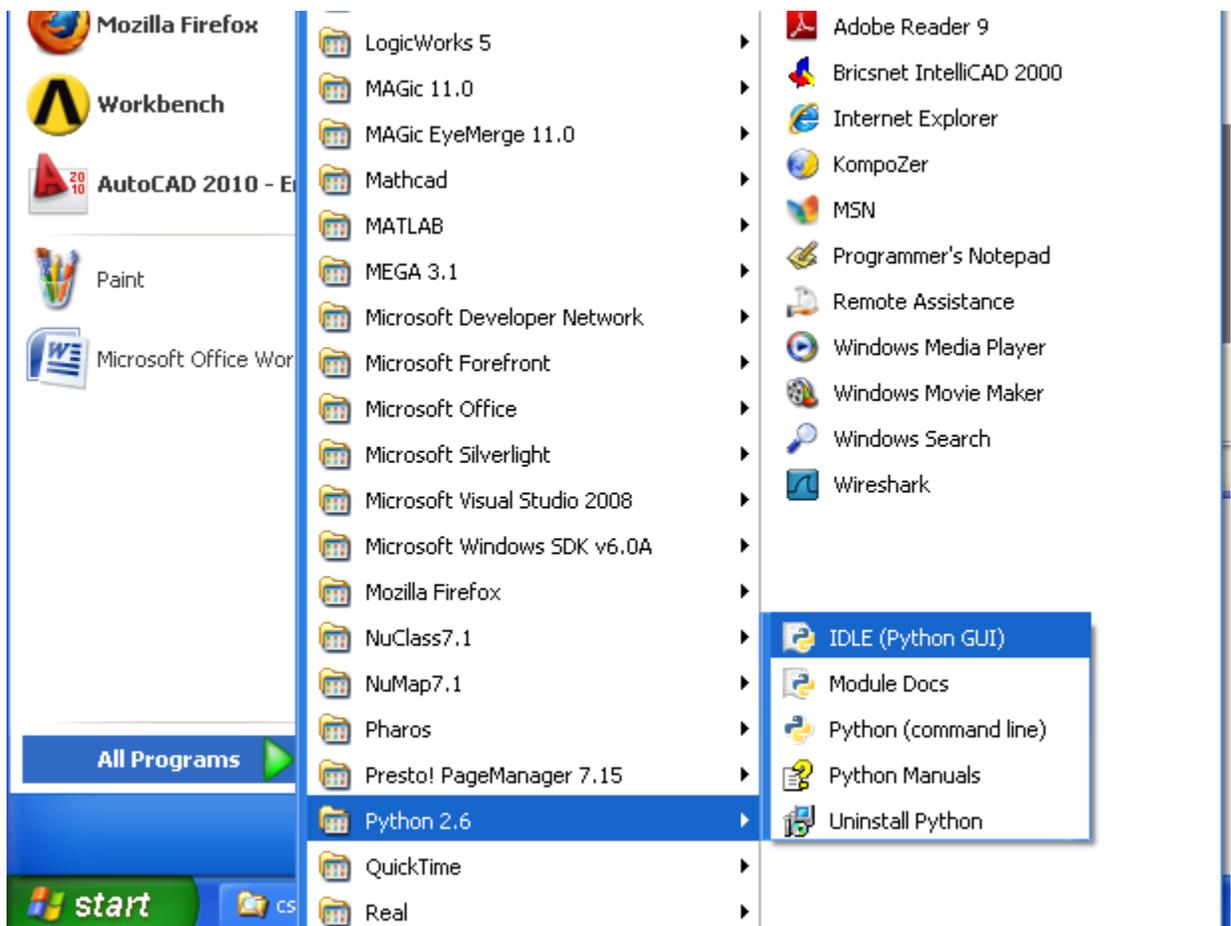
Getting Started with Python

If installing Python onto your own computer, use a 2.x version for this course.

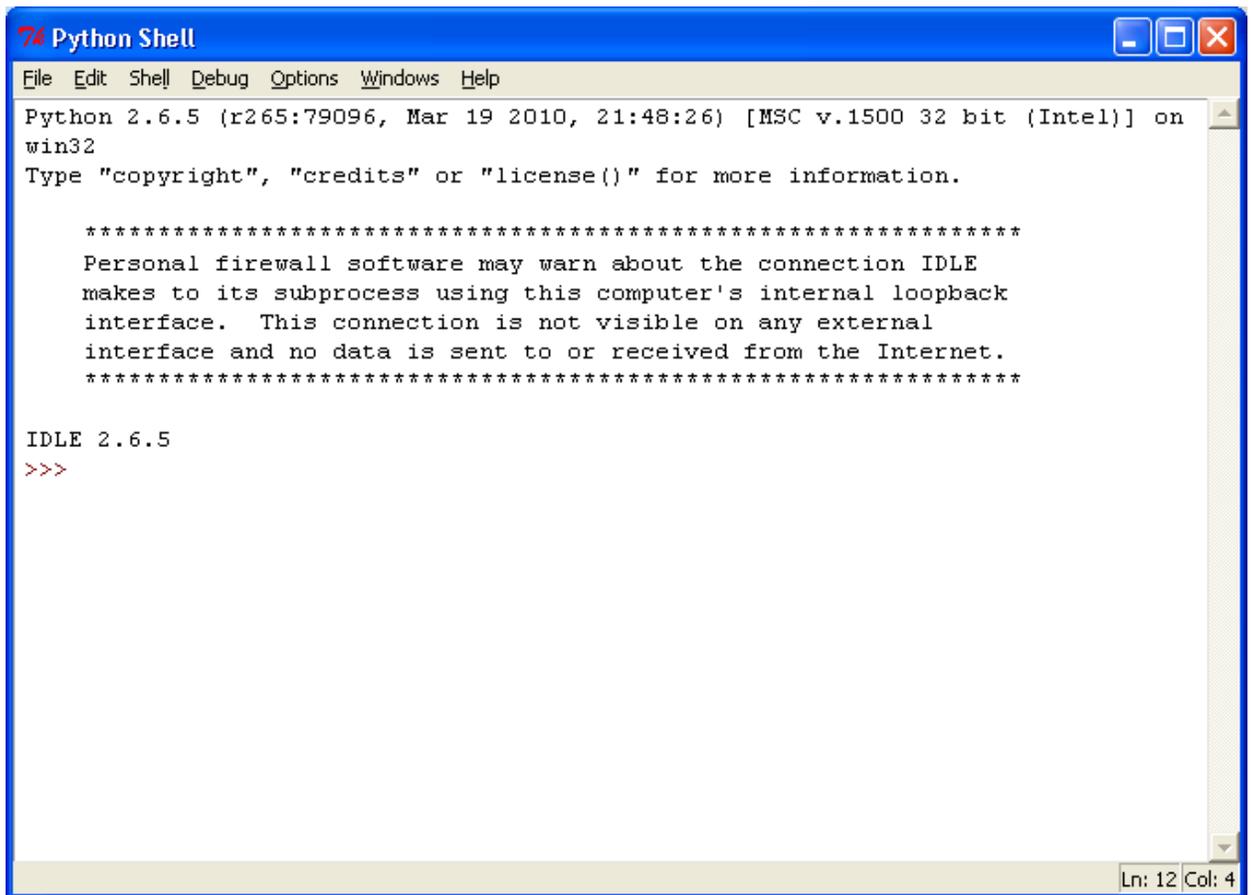
Using Python on Windows.

There are several ways to run Python on Windows; I'll show how using the IDLE development environment.

- 1) Open Python



2) You will get the Python shell:



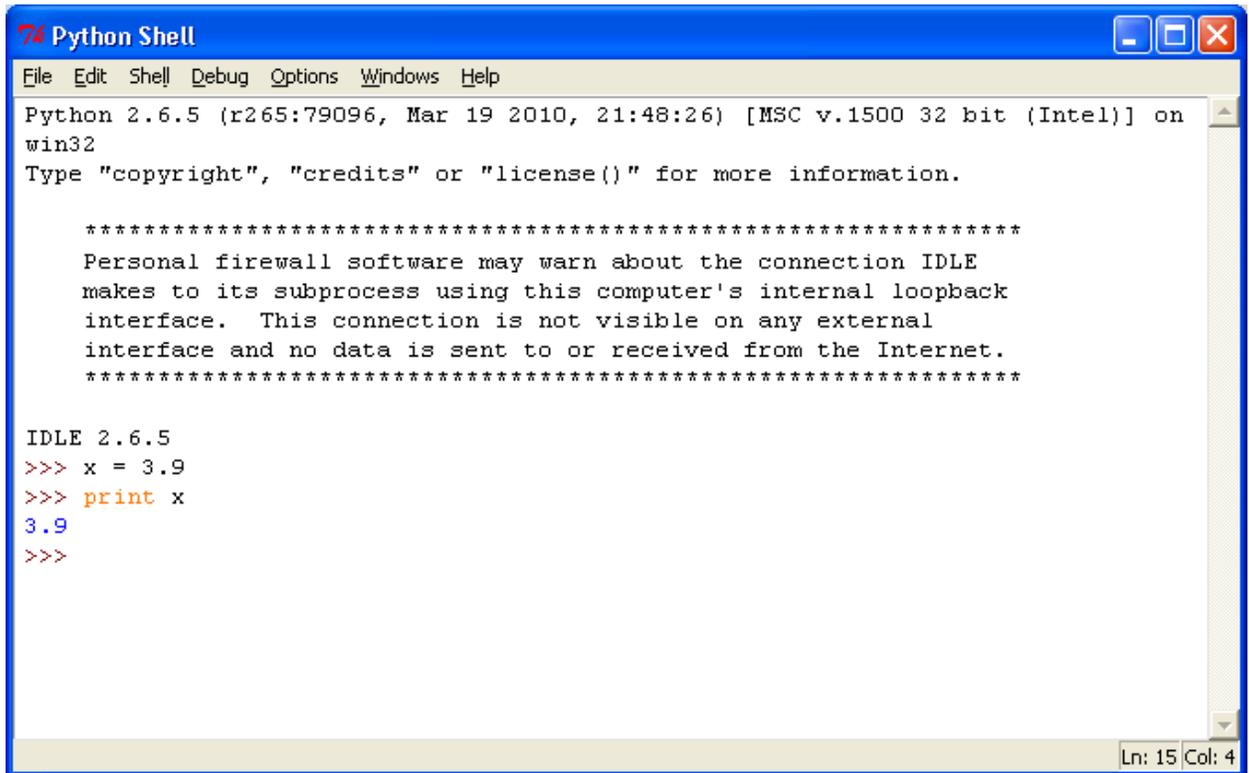
```
Python Shell
File Edit Shell Debug Options Windows Help
Python 2.6.5 (r265:79096, Mar 19 2010, 21:48:26) [MSC v.1500 32 bit (Intel)] on
win32
Type "copyright", "credits" or "license()" for more information.

*****
Personal firewall software may warn about the connection IDLE
makes to its subprocess using this computer's internal loopback
interface. This connection is not visible on any external
interface and no data is sent to or received from the Internet.
*****

IDLE 2.6.5
>>>
```

Ln: 12 Col: 4

- 3) The Python shell is like using a calculator; you get a response as you type in your program.



```
Python Shell
File Edit Shell Debug Options Windows Help
Python 2.6.5 (r265:79096, Mar 19 2010, 21:48:26) [MSC v.1500 32 bit (Intel)] on
win32
Type "copyright", "credits" or "license()" for more information.

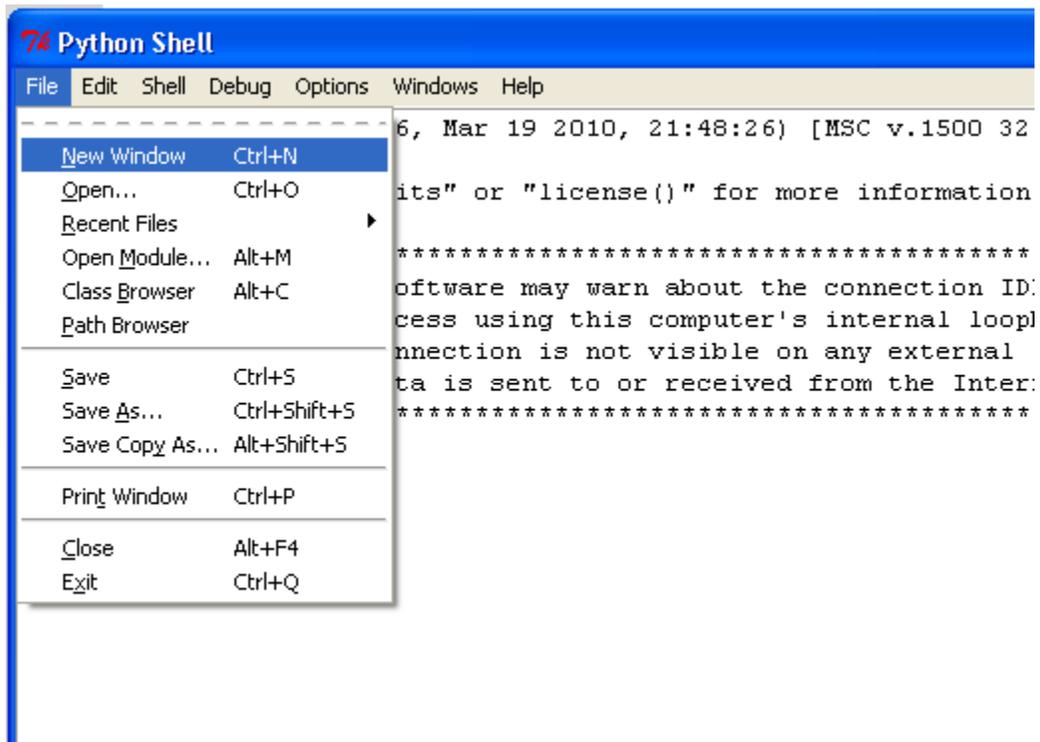
*****
Personal firewall software may warn about the connection IDLE
makes to its subprocess using this computer's internal loopback
interface. This connection is not visible on any external
interface and no data is sent to or received from the Internet.
*****

IDLE 2.6.5
>>> x = 3.9
>>> print x
3.9
>>>

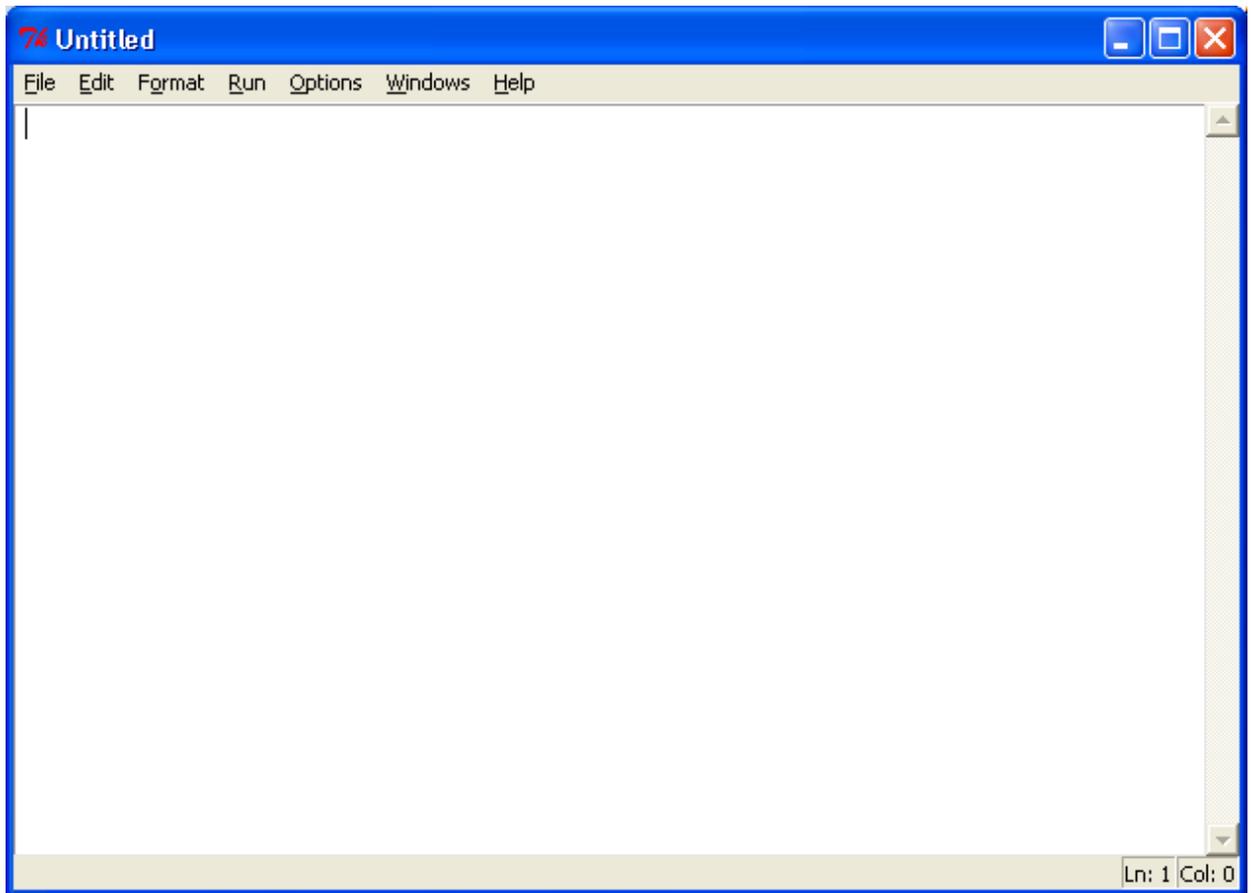
Ln: 15 Col: 4
```

This is fine for testing a few lines of code, but for larger programs that you wish to save you will probably want to open an editor.

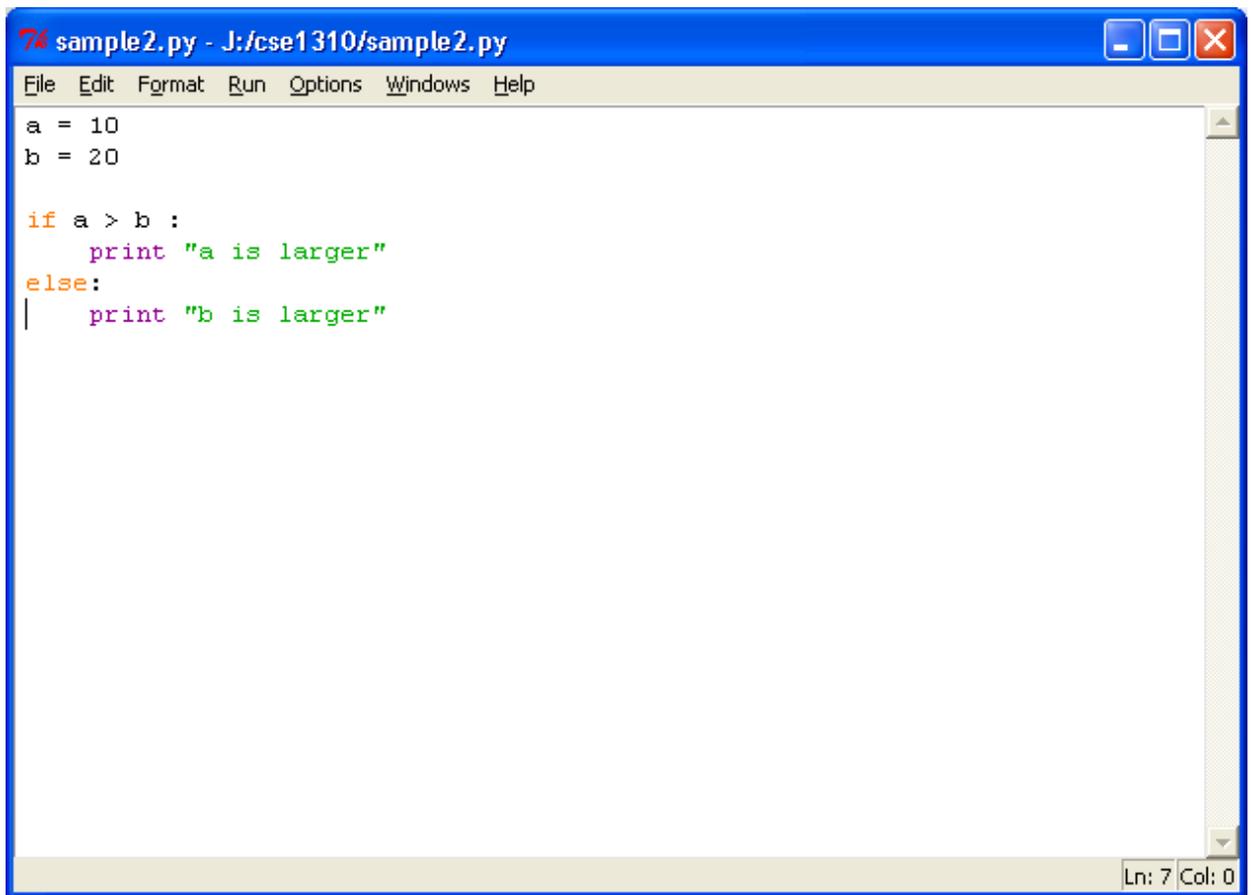
4) Open the editor by choosing File >> New Window:



5) This will open a window that looks like this:



- 6) From the editor, you can type in your code, save it, and run it. You can also open an existing program.



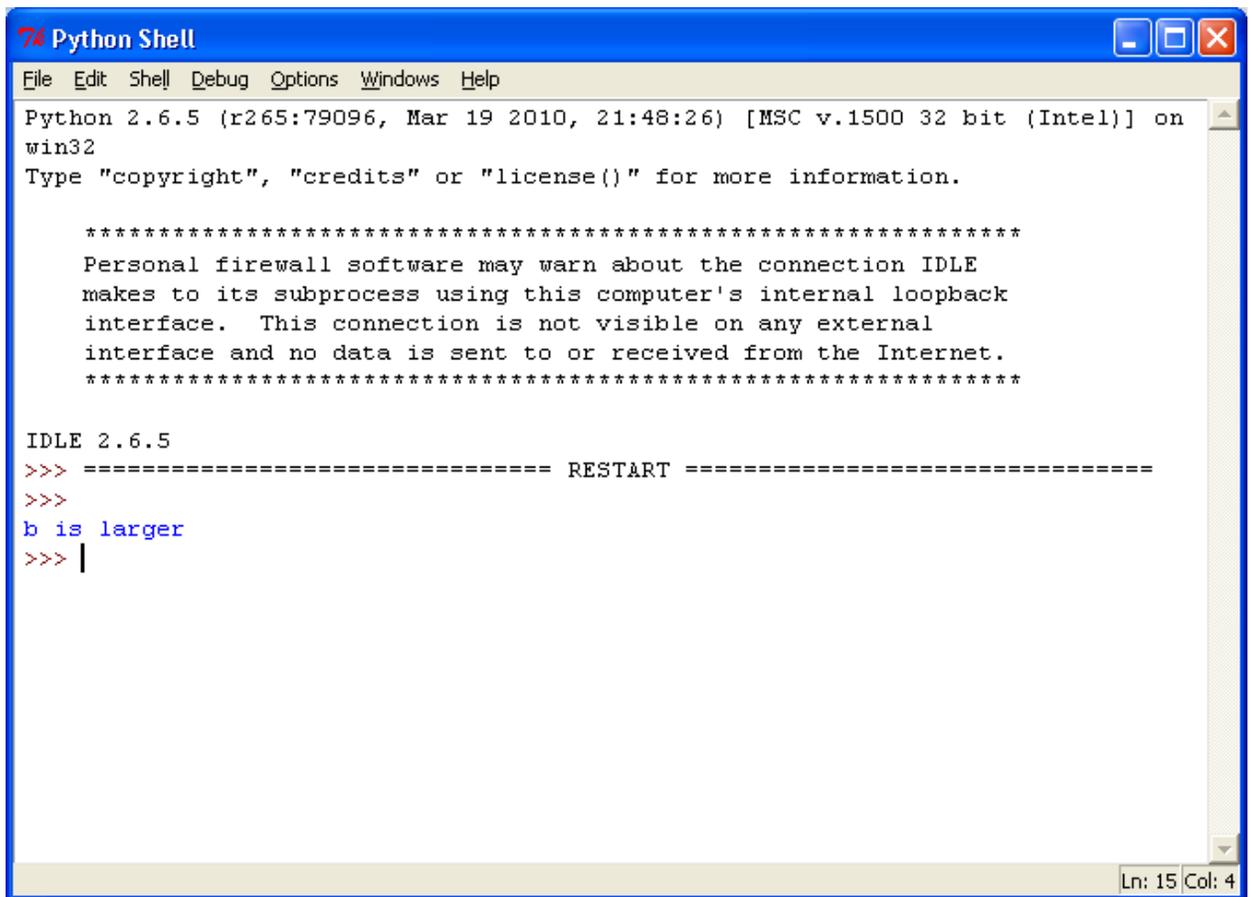
The image shows a screenshot of a Python IDE window titled "74 sample2.py - J:/cse1310/sample2.py". The window has a menu bar with "File", "Edit", "Format", "Run", "Options", "Windows", and "Help". The main text area contains the following Python code:

```
a = 10
b = 20

if a > b :
    print "a is larger"
else:
    print "b is larger"
```

The status bar at the bottom right indicates "Ln: 7 Col: 0".

- 7) To run this program, I choose Run >> Run Module from the menu. The result is shown in the Python shell:



```
Python Shell
File Edit Shell Debug Options Windows Help
Python 2.6.5 (r265:79096, Mar 19 2010, 21:48:26) [MSC v.1500 32 bit (Intel)] on
win32
Type "copyright", "credits" or "license()" for more information.

*****
Personal firewall software may warn about the connection IDLE
makes to its subprocess using this computer's internal loopback
interface. This connection is not visible on any external
interface and no data is sent to or received from the Internet.
*****

IDLE 2.6.5
>>> ===== RESTART =====
>>>
b is larger
>>> |
```

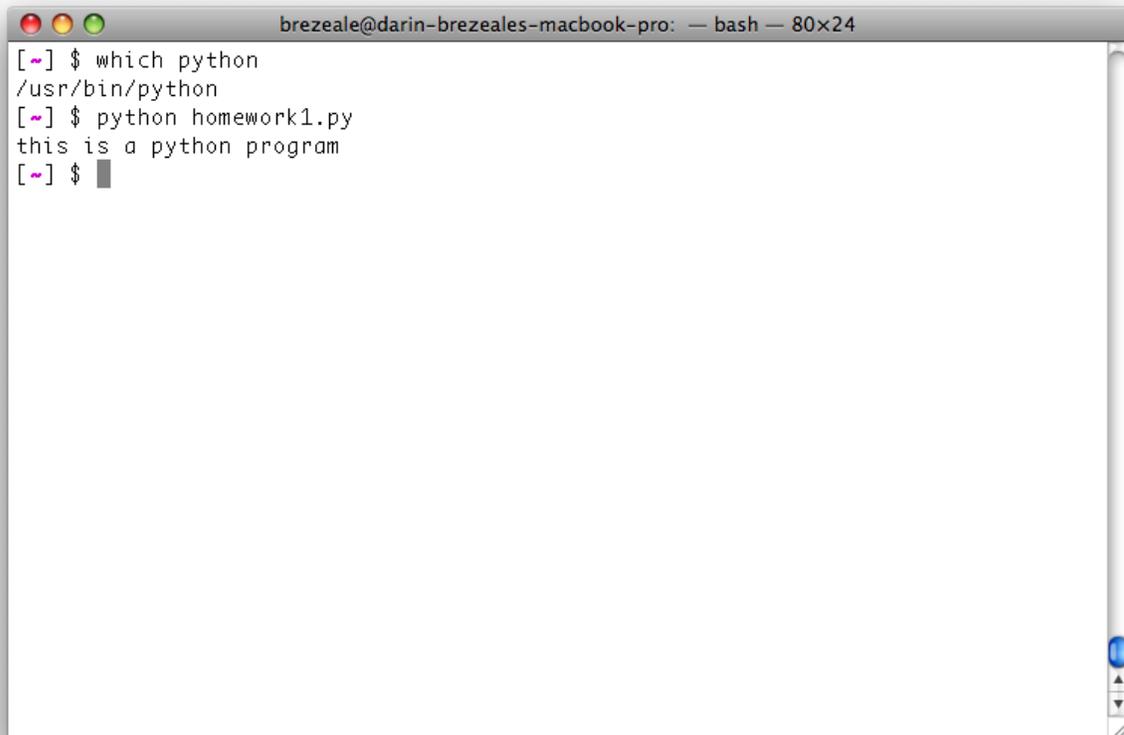
You can find more information at <http://docs.python.org/faq/windows>

If using the OIT computers on the second floor of Nedderman Hall, DO NOT SAVE YOUR WORK ON THE LOCAL MACHINE. If you do, it will be erased when you log off. Instead, save to the J drive (<http://www.uta.edu/oit/eos/files/student.php>), which is networked storage that you have access to in all OIT labs.

Using Python on Mac OS

The way I run Python on a Mac is to open a terminal window and run Python from the command prompt. You can check if Python is installed and in your path by using the 'which' command. If it returns the location of python, then you will be able to run your program. If not, then it is either not installed (likely) or it is not in your path (unlikely).

If we have a program called **homework1.py**, then we can run it using 'python homework1.py'.

A screenshot of a macOS terminal window. The title bar shows the user 'brezeale@darwin-brezeales-macbook-pro' and the shell 'bash' with dimensions '80x24'. The terminal content shows the following sequence of commands and outputs:

```
[~] $ which python
/usr/bin/python
[~] $ python homework1.py
this is a python program
[~] $ █
```