


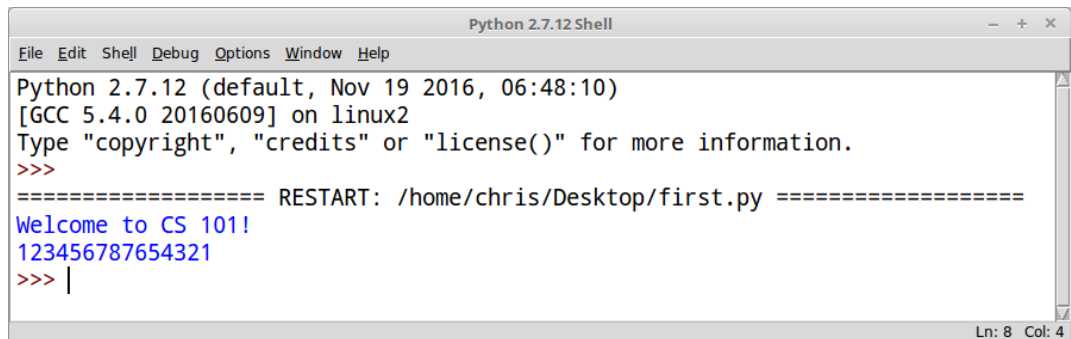
Model 1 Using IDLE

“IDLE is Python’s Integrated Development and Learning Environment. It has two main window types: the Shell window and the Editor window. It is possible to have multiple editor windows simultaneously.” (Source: <https://docs.python.org/2/library/idle.html>)



```
first.py - /home/chris/Desktop/first.py (2.7.12)
File Edit Format Run Options Window Help
# display a welcome message
print "Welcome to CS 101!"

# multiplying ones always gives you a palindrome
x = 11111111
print x * x
Ln: 7 Col: 0
```



```
Python 2.7.12 Shell
File Edit Shell Debug Options Window Help
Python 2.7.12 (default, Nov 19 2016, 06:48:10)
[GCC 5.4.0 20160609] on linux2
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: /home/chris/Desktop/first.py =====
Welcome to CS 101!
123456787654321
>>> |
Ln: 8 Col: 4
```

Questions (15 min)

Start time: _____

1. Which of the two screenshots in Model 1 is the Shell window? Which is the Editor window?
2. Explain the terms “Editor” and “Shell” based on what you learned previously in the course.
3. What is the name of the file in the editor? What directory is it saved in?

4. Explain the Python code in the editor window. What does each line do?

5. What is the output of the program? Where should you look for output?

6. Predict the output of each line below. Then type each line into the Shell window (one at a time) and check your answers.

a) `print 2 * 5`

b) `print 2 + 5`

c) `print "2 + 5"`

d) `print CS rocks!`

e) `print 2 # 5`

7. Explain the difference between b) and c) in the last question. Why are the results different?

8. What is wrong with the code in d)? Explain the error message. How do you fix the error?