Computer Science — Python — HW #2

Assigned on Wed, 2017-01-25. Due on Tue, 2017-01-31.

The current means of turning in assignments is to email them to [jay.coskey@xxxx.xxx](mailto:jay.coskey@nyhs.org).

1. Run the following commands in ipython, and ensure that you understand their corresponding outputs.
   1. print('Hello, world!')
   2. print("Hello, world!") # Double quotes work also.
   3. print('Hello, ' + 'world!')
   4. print('Hello' \* 4)
   5. print(len('Hello'))
   6. ?len
   7. print(+2) # The single plus emphasizes that the value is positive, not negative.
   8. print(3\*\*2 + 4\*4) # An expression can be passed to print()
   9. x = 27; print(x) # Multiple statements on one line separated by semi-colon
   10. 3\*\*2 + 4\*4 # The resulting value is printed by default, even without the print() function.
   11. type(25)
   12. type(25.0)
   13. x = 42; print(x) # Commas can separate statements in the same line
   14. x = 42; y = 816357492; print('x={0:d}, y={1:d}'.format(x, y)) # Args to the formatted string are numbered
   15. x = 42; y = 816357492; print('x={0:d}, y={1:,d}'.format(x, y)) # 'd' for integers. Note the added comma.
   16. import math; print(math.pi)
   17. import math; print('pi={0:.2f}'.format(math.pi)) # 'f' for floating point numbers
   18. import IPython; IPython.\_\_version\_\_ # Two double underscores before and after “version”
   19. import this # <https://en.wikipedia.org/wiki/Easter_egg_(media)>
2. **[Turn in]** Run these commands in ipython and, in your own words and in complete sentences (one sentence for each part should suffice), briefly describe and explain the errors you get. Submit the results by email.
   1. True = True
   2. print 'Hello'
   3. print(2+)
   4. asdf
   5. (3\*5) + 7) + (4 + (2\*6)
3. Install PyCharm from <https://www.jetbrains.com/pycharm/> # This is a development tool for Python scripts.

EDIT: Install the Community edition, not the

1. Play lightbot, levels 2-1 through 2-4. Or further, if you’d like.