CS126 Lab 0

psp-02-01

1 Overview

CS126 Labs are typically run in this fashion:

1. Before coming to class, you should do any pre-lab work required for the lab. This should be independent work!
2. When you come to lab, sit down but do NOT log in to a computer until you have been assigned a lab partner.
3. A lab instructor will assign each student a lab partner for the lab.
4. Once you have been assigned a partner, you should work through as much of the lab assignment during the allotted time using pair programming.
5. You and your partner are expected to work togther outside of class to complete finish coding your solution and write a lab report.
6. You and your partner each submit your Python source code file and an PDF document of the lab report. Remember, to rate your partner using the grader comments field on BBLearn.

This first lab is less formal. The point of this lab is to help students setup the Python and IDLE environments that we will be using for the class, and thus, does not require a lab report to be written. Instead, should you lab instructors you have completed it and then move on to working on Lab 1, which does require a lab report.

2 Learning Outcomes

By the end of this project students should be able to:

- Create and run a simple program within the IDLE IDE environment.
- Write a Python Program that prints output to the console.
- Be able to check code for PEP8 compliance.

3 Pre-Lab Instructions

Do this part before you come to lab:

- Read Problem Space Chapter 2: Getting Started with Python.
- Review the NCSU video on pair programming:
  http://www.youtube.com/watch?v=rG_U12uqRhE

4 Setting up Python, and IDLE

The instructor will demonstrate how IDLE is configured and how to create a project called "Hello World".

5 Your first program

As you may have gathered, you use "print" to display text to the console.

6 Lab Instructions

Do this part in lab:

Part 1

Create a folder on your I drive called "CS126". Inside that folder add a file called "yourname_lab0.py". Each lab should be placed in a separate folder with a name corresponding to the lab number.

In this lab, each partner will create a project that prints a short poem:

Poem #1:

Oh freddled gruntbuggly,
Thy micturations are to me
As plurdled gabbleblotchits on a lurgid bee.
Groop, I implore thee, my foonting turlingdromes,
And hooptiously drangle me with crinkly bindlewurdles,
Or I will rend thee in the gobberwarts
With my blurglecruncheon, see if I don't!

Poem #2:

Gashee morphousite, thou expungiest quoopisk!
Fripping lyshus wimbgunts, awhilst moongrovenly kormzibs.
Bleem miserable venchit! Bleem forever mestinglish asunder frapt!
Gerond withoutitude form into formless bloit, why not then? Moose.

Part 2

For every lab your code will be expected to be PEP 8 compliant. pep8 is a simple program that will help you correct the formatting errors in your code to help make it PEP 8 compliant. You need to run the program against your code until all errors are corrected.

Instructions for running pep8:

1. Open up a terminal or cmd window.
2. To check all .py files in a directory enter the command:
   pep8 <directory or file name>
3. Read through the errors and correct the errors on the line number given. Here is an example output of running pep8 against your code:

   ```
   your_file.py:53:80: E501 line too long (85 > 79 characters)
   ```

   The number after the filename indicates which line the error is on, in this case line 53. This is followed by the error code and the description of the error, here the error is: E501 line too long (85 > 79 characters).
4. Correct your formatting errors and run this program until no errors are displayed.

For more details about how to run PEP8 see the PEP* document posted on BBLearn.