CS 112 - Lab Assignment #1 Specification (Printing and the IDLE environment)

The purpose of this lab is to gain experience using the IDLE development environment for Python and the command line interface. The completed lab must be submitted via Blackboard NLT (no later than) the beginning of the following week's lab session (i.e. one week after assignment). If you have questions, use the Blackboard discussion forums (and instructor/TA office hours) to obtain assistance.

Lab Requirements:

- The source code for this lab must be submitted in a file named **lab1.py**
- The source code file must contain a **file header** formatted as follows:

```
# source_file_name.py
# Student Name: Josephine Student
# Assignment: Lab #1
# Submission Date: 09/09/9999
# Honor Code Statement: I received no assistance on this assignment that
#                       violates the guidelines as set forth by the instructor
#                       and the class syllabus.
# References: (This should be a list of web sites, texts, and any other resources
#              used as references)
# Comments: (This should be a note to the grader as to any problems or
#            uncompleted aspects of the assignment)
```

- The source code file should use **self-documenting code** and additional comments (as required) to improve code readability.

Grading Rubric: This assignment will be graded as follows (see rubric for more details):

- File header (0-2 points)
- Properly formatted output (0-3 points)
- Answers to written questions (5 points)

Total: (0-10 points) **Note:** decimal grades will be given for partial credit

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Lab Procedure:

In this lab you will create a simple Python program to print out your name on one line and your major on a second line. The program should then pause and wait for the user to hit enter. Then print Good bye and exit the program.

What to turn in

On Blackboard you should submit 2 files.

1. You program named lab1.py (make sure it includes the comment header above). It can be created either using IDLE or a standard text editor.
2. A text file with answers to the following questions:
   - Q1. What steps do you take to create a program using IDLE? (Include creating a new file, saving it, and executing it)
   - Q2. What steps do you take to create a program (using a text editor) in your operating system? (Include creating a new file, saving it, and executing it)
   - Q3. Is it possible to create a program using the method from Q1 and execute it using the method from Q2?

Sample Program Output #1

```
>>>  python lab1.py
Bob Johnson
Computer Science


Press enter to continue...
Good bye
```

Lab Assignment #1

	Excellent (85% or higher)	Average (60% or higher)	Needs Improving (Less then 60%)	Points
Core Concepts (Topics of Focus)	• Printed output correctly follows sample program. • Prompt for user to press enter is shown	• Printed output is there, but some parts are formatted differently (spacing, line breaks) • Missing user prompt	• Code doesn't run or printing and prompts are all missing.	3
File Header	• File Header is present and correct	• File header is correct, but missing parts or poorly formatted	• File header is missing	2
Answers to written questions	• Questions are answered clearly and correctly for both types of execution environments.	• One of the questions is not answered correctly or clearly.	• Questions are not answered or both are incorrectly answered.	5
Final Score				10