**CSE 1321L: Programming and Problem Solving I Lab**

**Lab 2**

**Getting Started with Coding**

For each lab program you develop, make sure to include the following header - replace the dots with your section number, semester, your full name, your instructor’s name, and lab number:

Class: CSE 1321L

Section: ...

Term: ... Instructor: ... Name: ...

 Lab#: ...

Make sure to put the correct comment characters before the above lines in each file. Python uses # for comments.

Lab2A: MadLibs. For this assignment, we’re going to code a MadLib. Your program should ask the user for two names, a verb and an adverb. These responses will get plugged into a prewritten sentence. An example output is shown below. **User input is denoted in bold.** The filename should be called Lab2A.py.

Sample run:

Enter a name: **Tiffany**

Enter another name: **Bubba**

Enter a verb: **eat**

Enter an adverb: **wickedly**

Once upon a time, there was a person named Tiffany who had a child named Bubba. This child would eat wickedly while singing to strangers.

Lab2B: Design and implement a program to print out the following shape using stars (SHIFT-8) and underscores (SHIFT-minus). The filename should be called Lab2B.py.

Sample run:

 \* \_

\_ \*\_\*\_\_

\_\*\_\*\_\*\_

\*\_\*\_\*\_\*

\_\*\_\*\_\*\_

 \*\_\*\_\_ \_\_\_\* \_

Lab2C: For this assignment, create a program that will read in a width and height from the user and calculates the area and perimeter of a rectangle. The formula for perimeter is P = 2\*(height+width) and the formula for area is A = (height\*width). Format the outputs following this sample run. **User input is in bold.** The class and filename should be called Lab2C.py.

Sample run:

Enter a width: **4**

Enter a height: **8**

The area is 32

The perimeter is 24

Instructions:

1. Programs must be working correctly.
2. Programs must be called the correct file name.
3. If working in Java or C#, class names must be correct.
4. Programs must be completed and checked before working the assignment.
5. Programs must be checked by the end of the designated lab session.
6. Programs (source code files) must be uploaded to Gradescope by due date.