## **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.

<u>Lab2A:</u> 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.

<u>Lab2B:</u> 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:



<u>Lab2C:</u> 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.