# 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. C# & Java use // for comments.

**Lab2A:** MadLibs. Several years ago, parents would buy their kids a copy of MadLibs before going on a long car trip. Basically, one person would ask another to provide a name, an adverb, an adjective, a number, and so on. The responses would then get plugged into a pre-written script, and the results would be bizarrely funny. For this assignment, we're going to code a short version of that. Your program should behave like the following code. User input is denoted in **bold**. Both the class and filename should be called Lab2A (.java, .cs, .cpp).

#### 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). Both the class and filename should be called Lab2B (.java, .cs, .cpp).

### Sample run:



**Lab2C:** Design and implement a program that will read in a width and height from the user and then calculate and display the *area* and *perimeter* of a rectangle. Format the outputs following this sample run. User input is in **bold**. Both the class and filename should be called Lab2C (.java, .cs, .cpp).

## 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.