CS215 Chapter4A Lab – Functions Intro Name: Jake Gadaleta

1 SO THAT YOU DON'T LOSE SILLY POINTS ON LABS/HOMEWORK

1. Create a Python script called LearningFunctions.py.

2. Add the correct header info. You must include:
   - the file name WITH the .py at the end
   - a description that says what the program does (saying "HW 3.12" is not good enough)
   - your name

```
"""
LearningFunctions.py
Lab 4A:  We write several basic functions in this lab.
@author YOUR NAME
"""
```

3. Note: I will deduct 1 point from every lab/homework that is missing the correct header.

4. Note: I will deduct another 1 point if your code does not include descriptive comments that explain your code processing. Also, these comments are especially important at the point in your program where there are calculations. So you should explain any math/logic that you use at the "complicated" portion of the program.

5. Note: I will deduct 1 point for not including a documentation comment in every function you define, on every lab/homework. So if you miss one comment, it's a point off for the whole program.

6. Note: I will deduct 1 point for not naming your variables according to camelCase convention (or the underscore lowercase convention for those of you partial to that).

7. Note: I will deduct 1 point for not using meaningful variable names.

8. In Summary: Sign below (by typing) your name to indicate that you understand that you will lose:

   - 2 points on each homework that does have the correct header/appropriate comments
   - 1 point on any lab does not have the correct header
   - 1 point on every lab/homework that has a function without a descriptive documentation comment.
   - 1-2 points for not having meaningful variable names that follow conventions.

Your Signature: Jake Gadaleta

2 YOUR FIRST PYTHON FUNCTION: LETTER GRADES

1. Define a Python function called "findLetterGrade" that takes in a variable called score.

2. Include a documentation comment that says "Determines the letter grade for any given numeric grade."

3. Use if logic to return 'A' for all scores that are at least 90, 'B' for all scores that are at least 80, etc. Anyone who receives under a 60 should be given an 'F.'

4. Test your code by printing the output of your function for a 95, 75, and a 52.

3 YOUR SECOND PYTHON FUNCTION: STADIUM SEATING

1. There are three seating categories at a stadium. Class A seats cost $20, Class B seats cost $15, and Class C seats cost $10. Define a Python function called "calculateStadiumSales" that takes in how many class A, B, and C seats were sold and calculates the amount of income generated from these sales.

2. Be sure to include a documentation comment for the function.

3. Outside of your function: Ask a user to provide how many tickets of each class were sold.

4. Pass the user's input to your method to calculate the sales income.

5. Outside of your function: Tell the user how much income has been generated.

6. Test your output and make sure that the following cases provide the correct input.

   A: 72
   B: 155
   C: 325
   Total Income: $7015

SUBMISSION INFO

TO GET CREDIT FOR THIS LAB, UPLOAD THESE 2 DOCUMENTS TO THE SUBMISSION AREA.

- LabCh4A.pdf (should have your "signature")
- LearningFunctions.py