COM S 127 - Lab Week 15 Grading Rubric

This lab was assigned for week 15 of the Fall semester.

This lab is due by 11:59 p.m. of the sixth day after the student's initial lab meeting day. Meaning, for example, if a student has their lab on **THURSDAY**, they would have until the following **WEDNESDAY** to complete their work.

Lab Objective

The purpose of this lab is for students to begin working with files.

Instructions

Submission 'Check Offs'

For students to receive credit for their lab work, they must 'check off' their exercises with either the Graduate TA or Undergraduate TA (UGTA) for their lab section. If the lab cannot be completed during the assigned lab hours, the student **MUST** either attend a **Graduate TAs/ Undergraduate TAs** office hours to complete the 'check off' process, or arrange for a Zoom/ WebEx meeting with either a Graduate TA or an Undergraduate TA to receive credit for their work.

This means that **STUDENTS WILL NO LONGER BE ABLE TO SUBMIT THEIR WORK ON CANVAS**. As such, **all work MUST 'checked off' in person or via a Zoom/ WebEx appointment BEFORE the student's next lab meeting**. This means that students will no longer be able to send an email about completed work *before* the deadline, and then check off that work *after* the deadline.

For clarity: **ALL WORK MUST BE CHECKED OFF BEFORE THE FINAL DEADLINE**.

There is a list of Graduate TA office hours and email addresses at the top of the syllabus on Canvas.

There is a list of Undergraduate TA office hours and email addresses at the top of the syllabus on Canvas.

Important Notes:

All scripts should include the student's name and the date they programmed the script on the top line of the file. The student should also include the week of the lab, and the exercise number on the second line. Example:

```
# <Student Name>         <The Date>
# Lab Week <week of the lab> - Exercise #<exercise number>

# Matthew Holman         11-27-2022
# Lab Week 15 - Exercise #1
```

Readings:

Files

- 11.1. Working with Data Files
- 11.2. Finding a File on your Disk
- 11.3. Reading a File
- 11.4. Iterating over lines in a file
- 11.5. Alternative File Reading Methods
- 11.6. Writing Text Files
- 11.7. With Statements
- 11.8. Fetching Something From The Web
- 11.9. Glossary

Lab Challenge Activities:

- **Create a script** called **exercise1.py**, such that it completes the task in **Exercise 1** of the **labWeek15Files.pptx** file.

Deliverables:

- **Verbally explain all the concepts in the Readings section of this document to a Graduate TA/ UGTA without looking at the website, such that the Graduate TA/ UGTA is confident you fully understand these concepts.**

- **exercise1.py** which completes the tasks laid out in the **Lab Challenge Activities** section of this document.

- **All the deliverable scripts should be shown to a Graduate TA/ UGTA**

Resources:

- Official Python Tutorial for Reading and Writing Files: https://docs.python.org/3/tutorial/inputoutput.html#reading-and-writing-files

- Wikipedia: Relation (database) article: https://en.wikipedia.org/wiki/Relation_(database)

- Wikipedia: Primary key article: https://en.wikipedia.org/wiki/Primary_key

- Wikipedia: Foreign key article: https://en.wikipedia.org/wiki/Foreign_key

Files Provided

- labWeek15Files.pptx
- scores.txt
- students.txt

Example Code/ Output

Exercise 1:

```
Student ID,Name,Total Scores,Sum of All Scores,Score Average
123456,John Smith,5,408,81.6
654321,Jane Smith,3,147,49.0
246810,Trevor Smith,3,222,74.0
135791,Sally Smith,4,176,44.0
```

Grading Items

- (**Attendance**) Was the student present at the lab or had made arrangements to attend virtually?: _____ / 5
- (**Reading**) Has the student demonstrated that they have completed their reading by verbally explaining the concepts in the **Reading** section to a Graduate TA/ UGTA?: _____ / 15
- (**exercise1.py**) Did the student successfully complete a script which generates correct output as per the **Lab Challenge Activities** section?: _____ / 10

TOTAL _____ **/ 30**