Brian Lee November 25th, 2019 Foundations of Programming: Python Assignment 05

## **Lists and Dictionaries**

## Introduction

In week 5, we covered the topics of creating scripts using lists and dictionaries, error handling, functions, script templates, and Github. This week for homework, we had to take a script already written and make updates to the code to capture user data as a To Do list and be able to save the data in a text file. We have also taken on learning a new tool for managing version control for the code we have written.

## Creating and Running My To Do List Script

After reviewing the given videos/course materials provided in Module 5, our fifth assignment was to create a script where the user is presented a menu of options to capture, edit, show or save the data collected. In comparison to Assignment 4, in this assignment we are taking an existing list and loading it into a dictionary, whereas in the last assignment we first collected the data and saved to a file. Another difference is that we needed to figure out a way to remove a Task in the To Do list. Finally, we needed to setup a GitHub account and save the work for this assignment in our repository.

Figure 1. Code in PyCharm

```
🁚 brianlee — -bash — 88×28
    5) Exit Program
Which option would you like to perform? [1 to 5]: 1
Homework, High
    Menu of Options
    1) Show current data
    2) Add a new item
    3) Remove an existing item
    4) Save Data to File
    5) Exit Program
Which option would you like to perform? [1 to 5]: 4
Data has been saved to ToDoList.txt
    Menu of Options
    1) Show current data
    2) Add a new item
    3) Remove an existing item
    4) Save Data to File
    5) Exit Program
Which option would you like to perform? [1 to 5]: 5
Program has ended!
Brians-MacBook-Pro:~ brianlee$
```

Figure 2. Running the Python Script in Terminal

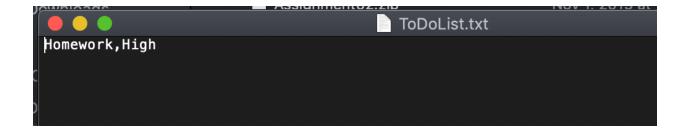


Figure 3. Output file from the Assignment5 Starter.py Script

## Summary

Overall this assignment was a bit of a challenge - I will need to spend more time practicing this type of script for a different use case. To me the biggest challenge from this assignment was the part of removing the Task from this list. I believe the code I've written will work but there could be cases of false positives, however, I will need to test if this would actually be the case.