Assignment 07

# GitHub

# Introduction

This document describes my process through Assignment 07 for the Foundations of Programming (Python) course. The assignment involves updating the CD inventory menu list to use functions, classes, parameters/arguments, and structured error handling.

# Assignment 06 Process

In Spyder, I copied the script that Dirk created containing the script header, pseudocode, and base code. The starter code is very similar to last week’s assignment. I added structured error handling to decrease the chances of the program failing. Originally I copied and pasted the try{}except{} code in numerous spots before it occurred to me to put this error handling in its own class, and create functions for checking valid integers, valid strings, and whether a valid file exists. This allowed me to only call the functions when needed.

The major errors I tried to prevent were if the user types in a string when an integer is expected, an integer typed in when a string is expected, and if a file isn’t created when using it in the program. I believe the type conversion error is already handled in my valid\_int() and valid\_str() functions so I did not use any try{}except{} code when changing from strings to integers. It wasn’t until I was typing this ReadMe.doc file that I forgot to add in pickling of the data so it’s saved in binary.

# Assignment 06 Results

Below are screenshots of the results when running the script through both Spyder and the terminal.

Text

Description automatically generated

Figure 1: Results of the script when run through Spyder

# Text Description automatically generated

Figure : Results of the script when run through the Terminal

# Summary

In this assignment, I learned about various concepts like functions, classes, structured error handling, and writing/reading binary. The assignment went well; I made sure to cover my bases when writing the structured error handling code. It wasn’t until I was writing out this document that I forgot to actually pickle the data and write in binary. After I did this, I did a little testing to make sure it worked, but didn’t go as thoroughly as I did before pickling because of a lack of time.

I feel like my error handling around the pickling and un-pickling of the data could be better handled, although I’m not sure how. I would also be curious to see if and how to pickle data to a .csv file (or if that’s even a good idea). Something else I wasn’t sure about is how my GitHub account is looking. I feel like I might not be fully utilizing all of it’s functionality (right now I’ve only just been uploading files and putting details in the commits).

**Note:** formatting of Python code throughout this document is done using [saravjishut](https://saravjishut.org/syntax) syntax highlighter [external reference]