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< IT FDN 100: Foundations of Programming (Python) >

< Assignment 07 >

Modify Existing Code, Add Structured Data Handling and Modify Permanent Data Store to Use Binary Data

# Introduction

Module 07 has taught me how to use binary data and structured error handling in python. Similarly, Assignment 07 requirements included adding structured error handling for user interaction, typecasting, and file access. I was also tasked with modifying the permanent data store to use binary data in assignment 07.

# Topic 1 – Pickling and Unpickling Data

I believe that Python Central’s web article, *How to Pickle: A Pickling and Unpickling Tutorial* [[1]](#footnote-1) explained the concept of pickling and unpickling data quite well. I like how this article compared the concept to pickling vegetables in saline solution. Instead of putting vegetables into a solution for preservation, we are putting python objects into a solution for preservation. This analogy has helped me comprehend python pickling. According to this article, pickling and unpickling is an easy way to pass data in between servers and to store it.

# Topic 1.1 – Pickling

I have learned that pickling, in python, converts data into bindary data / byte streams (0s and 1s). Pickling serializes data to make things easier and to preserve the data. Pickled binary data is dumped into files for writing and it is loaded from files, through unpickling, for reading.

I started this assignment by addressing the binary data requirement. First, I added the pickle module by inserting **import pickle** toward the top of my script, below the header, just like I saw in Dirk Biesinger’s Module 07, Part 2 video. Then I changed the file name extension, in my script, to **.dat** implying that it is a binary file.



Figure 1 - File .dat Edit

Then in the **write\_file** function, of my script, I add a **b** after the **w**, to indicate that I want to write a binary file, not a text file.



Figure 2 – addition of the b for indicating binary data

Now that I am using pickling to store my permanent data, I do not need to tell the program to write each cd of the table to the file, because pickling deals with storing all the data in a different way. I removed the following code:

for row in table:

lstValues = list(row.values())

lstValues[0] = str(lstValues[0])

objFile.write(','.join(lstValues) + '\n')

Closing the file is not necessary either, so I removed this line of code:

objFile.close()

Then I wrote code to dump the CD Inventory data into the binary data file (.dat file).



Figure 3 – pickle.dump() function

This line of code uses the **pickle.dump()** function. I added two arguments because that is required for this function. This function needs an argument for the data to pickle (preserve in binary format) and an argument for the file to store the pickled data into. In my script, I use **table** as my argument for my cd inventory and I use **objFile** as my argument for the binary **.dat** file.

In summation, the **pickle.dump()** function, in my script, pickles the cd inventory data referred to by **table**. It also writes all the data as an object to the binary file known as 'CDInventory.dat'.

# Topic 1.2 – Unpickling

To read binary data from files, the data that has been pickled needs to be unpickled. For my **read\_file()** function I added a **b** after the **r** in the open line, telling the program that I want to read binary data, not regular data.



Figure 4 - addition of the b for indicating binary data

Then I deleted the rest of the existing code because I did not need to tell the program to read each line in the CD Inventory or to close the program. I wrote a line of code telling the program to get the data from the CD Inventory 2D data structure and to unpickle the data. I used the **pickle.load()** function to do this. This function only requires one argument, which is the file to load the pickled (preserved) data. Once the program uses the **pickle.load()** function, it unpickles the CD Inventory data. I used the table variable for the unpickled CD data to be assigned to.

In the **read\_file** function, I also added structured error handing, per one of the requirements of this assignment. I wanted the program to keep running even if it detects the **FileNotFoundError**. Now that the try and except is in my program, it will continue to run, even if there is no binary data file that can be found.

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Figure 5 – structured error handling in the read\_file function

# Topic 2 – Exception Handling in Python

I believe that Real Python’s webpage on *Python Exceptions: An Introduction*[[2]](#footnote-2) is a great resource for learning about python exception handling. I like the comparisons between syntax errors and Exception errors on the webpage. There are a variety of syntax errors; some include having too many parentheses, a missing colon, a missing comman, or a wrong indent. Exception handling or structured error handling is guidance and structure on how to handle when the syntax of the code is correct, but an error is thrown due to something else. For instance, an error is thrown when someone enters a string when an integer is expected and an error is encountered when a file is not found. Exception handling offers ways to handle typical errors that can be predicted to occur. One example of structured error handling is using the **try** statement and the **except** clause. The main goal of the exception handling is to prevent the program from terminating and to communicate to a user clearly and nicely what is wrong and maybe how to stop the same error from happening again.

# Topic 2.1 – Try and Except in **get\_cd\_info** function

Per Assignment 07 requirements, I knew I had to add structured error handling for type casting. When I think of structured error handling for type casting, I think of the ValueError that occurred in the program previously when a user enters a string when an integer is expected.

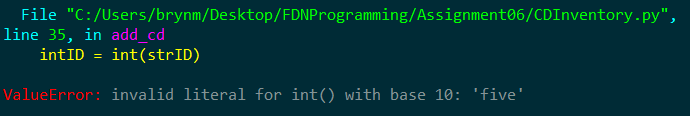


Figure – image of Error thrown in the Assignment I Submitted for Module 06

Previously, my script completely ended when a user entered word or letters. Naturally, no user wants a program that they are in to crash, close or end unexpectedly. If I am doing something wrong in a program, I would like to know so that I can rectify the situation. If I miss an instruction or understanding, I would like to know how to continue on in the correct way.

One way to ensure that a user enters an integer in python programming is to use a **try** statement with an **except** clause.

In the code below, the program is saying that while a user enters input for a cd ID it will check to see if what the user entered is an integer type and if it is, the program will break out of the loop and move on to the next part of the script. If the user enters a string type like letters or words, the program will use the **except** clause to tell the user that the answer was not a number and to ask the user to enter a numeric ID.

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEJyeW4gRHVuYmFyAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM2NQAAkpIAAgAAAAM2NQAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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hI0lrKGxiLUpUQAfdGxCQPqcn6mua+x/8ATT9KmtoY4JC0sMVyMY2S7wB7/KwP60uQftV/XoUUDF1EeS2fl29c102u2uqS+H9Km1GC9d4vN8+SZGLIC4xuJ6cdM1nTNbyQsiadaQsRw6GYlfpmQj8xVL7H/wBNP0qrMnnijr5kvUm1VY5HTSFsHFqm/ETjYCNg6MepJH41yEWnXc2nTX0UJa2gYLI4YfKT0460fY/+mn6VcE8qaU1hD5cUcjBpmRTulx03Ek8D0GKXK0V7SL3Mmuk8FrqB1mP7KLo2hLCfyw3lk7Djdjj86xfsf/TT9KPsf/TT9Kbi2rEqaTubPhmS/wBN8QCyle4tDLG48ly0e5yh25BxznGKk0lb9tbk/ttbx737I5tFuHKSFs8bC4OD97HHX3rC+x/9NP0o+x/9NP0pcr3GqiR1lrdXD6pbi7068gmhtbkia/bzHlGwkAkouQD9etN164kn0G5Ezb8RWUmT1LsjZY+5459q5X7H/wBNP0qSC3WKZXkRJ1HWOQMFP/fJB/Wk4X/r5jVVf18ikrFWDKSGByCD0rqb+71m98N6fLaXF9cReTKt00buwBDHh8f7JHXtWc0lsykDS7JSRgMDPke/MlUPsf8A00/Sm4tiU0upvabbatdeD9Rh8i9mhYQm2TY7KRvJOwdPrik0e71WTw3qFrY3F41zDJEY4YZG3omWDbQOcZIzisL7H/00/Sj7H/00/ShxbuHtErGz4XtNQm8VJNNb3MjRu4nkZGJVirfePY59adoFrNaJqMb2l2upIiGKKJvJn25+bZlSc4x0GcZrE+x/9NP0o+x/9NP0o5WHtIl7XZJ73U7dJbCe0uPKWMi5bMkxyQGYlV56DOO1Z97ZXGnXj2t7EYpo/vISDjjPUcVPbQrb3Cyukc4U58uVTtP1wQf1p175+oXkl1dz75ZDljtxRytA5xerKCBi6iPJbPy7eua6bXLfV38P6VcXsN60sPmmWWVXLR/ONu4np7ZrB+x/9NP0o+x/9NP0puLEpxVzoL+71m98N6fLaXF9cReTKt00buwBDHh8f7JHXtVyCaS1sdPfT9Nvr60NsPNjtpv3LuQQ4kQIecnuemPSuT+x/wDTT9KPsf8A00/Sk4FKojr7a7lg8Ox+SdgXS2lXA6MJ+D9R2Paub8TgDxRf4GP3xPFVPsf/AE0/SrkBghhVJNPtZ2HWSQyhj/3zIB+lHK73D2icbf1sT+G7eV0vbi2e6M0Ea7YbJts0mWwSGwSAO+B3rYlPleJopjHmU6S7yCZllLMI3HzkDDHgA8dq5u6ijuGUxQQ2oAwVi3kH3+ZjUH2P/pp+lDi2CqRRabxDqMzQGW6k82F2K3AdhJtbGV3Z+7x09zWl4sbVpdWnZmvJLB5g1u2WMTEjK7T0/KsP7H/00/Sj7H/00/Sjl2F7RWsbuvWuqy+HdLmv4Lx5IhN50kyOSgLjG4np7ZqW6S6vPD7ecuoaXHb26/upARazgYxjphiecfNmud+x/wDTT9KPsf8A00/SjldrD9pG9zoLe91q88JxDTbm+nniumWQQSOzqmwbcgc7eDjtXLHOTnr3zVn7H/00/Sj7H/00/Sny63J51axVoq19j/6afpR9j/6afpTsxcyKtFWvsf8A00/Sj7H/ANNP0osw5kVaKtfY/wDpp+lH2P8A6afpRZhzIq0Va+x/9NP0o+x/9NP0osw5kVaKtfY/+mn6UfY/+mn6UWYcyKtFWvsf/TT9KPsf/TT9KLMOZFWirX2P/pp+lH2P/pp+lFmHMirRVr7H/wBNP0o+x/8ATT9KLMOZFWirX2P/AKafpR9j/wCmn6UWYcyKtFWvsf8A00/Sj7H/ANNP0osw5kVaKtfY/wDpp+lH2P8A6afpRZhzIq0Va+x/9NP0o+x/9NP0osw5kVaKtfY/+mn6UfY/+mn6UWYcyKtFWvsf/TT9KPsf/TT9KLMOZFWirX2P/pp+lH2P/pp+lFmHMirRVr7H/wBNP0o+x/8ATT9KLMOZFWirX2P/AKafpR9j/wCmn6UWYcyKtT3f+uX/AK5R/wDoAp/2P/pp+lTXVnmZfn/5Zx9v9gUrMfMrE+rf8hq+/wCviT/0I1UoooWwS+Jmt4duLeLVIobixgujPKkYMwyEBbB46Hr3rWsLC0bxLrbvaxSrZrLJDC4xHkNxkDt7UUVM9NfJlw1VvNfqRajNbxWOla3Dp1kss3mJJb+VmFscA7c0a7cQSeCra4bTrGC4vJTte2gCbFU+vXJNFFJr8yk9fkc3bf8AHuv4/wA6loorY5HuFFFFAgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAqW5/1y/wDXNP8A0EUUUdR9D//Z)

Figure – First Attempt at Adding a Try Statement and Except Clause to the Get\_CD\_Info function

Unfortunately, the code above didn’t do exactly what I wanted it to do:

![A picture containing screenshot

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEJyeW4gRHVuYmFyAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM0MwAAkpIAAgAAAAM0MwAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figure – The Code Didn’t Work like I wanted it to at First

After telling the user to enter a numeric ID, it then asks the user to enter an ID again. To fix this, I realized I had to move the input prompt to enter a cd ID out of the while loop. I also decided to eliminate the print statement that I had written and combine it with the other instruction to the user and then assign that to **item\_id**.

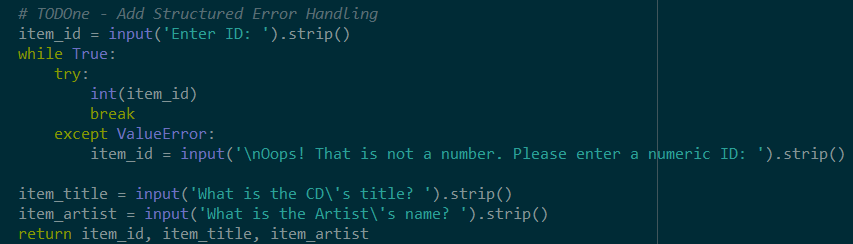


Figure – Modified the Code so that it wouldn’t ask the user to enter an ID 3 times

After I moved the **item\_id** line outside of the while loop, I ran the program and it did what I wanted it to do.

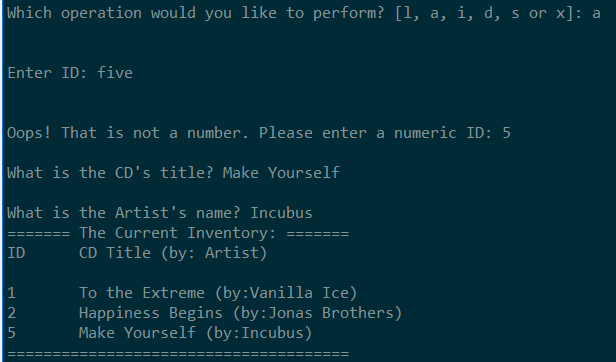


Figure – Image of the Code Working as I want it to

# Topic 2.1 – Try and Except in the Delete Section of the main body of Script

Another part of my script that asks a user for a cd ID is the delete section of the main body of the script. This is another part of the code where a user could potentially enter a string type causing the program to crash with an error. To prevent the program from unexpectedly ending, I added another try statement and except clause.

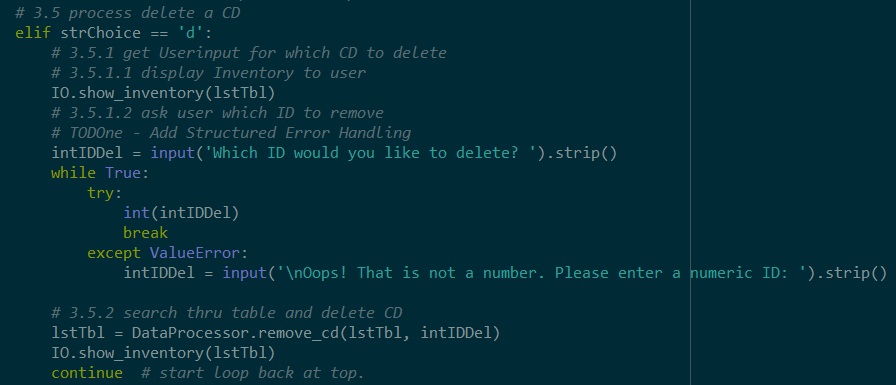


Figure – Added Structured Error Handling to Delete CD Section

# Summary

Module 07 was interesting. I thought the pickling and unpickling to write and read files was fun. I am pleased to know that my program now uses binary data for preserving it. Also, my program will not terminate if a binary data file (.dat) cannot be found. Additionally, I am confident that a user will not crash the CD Inventory script from entering the wrong type of value.

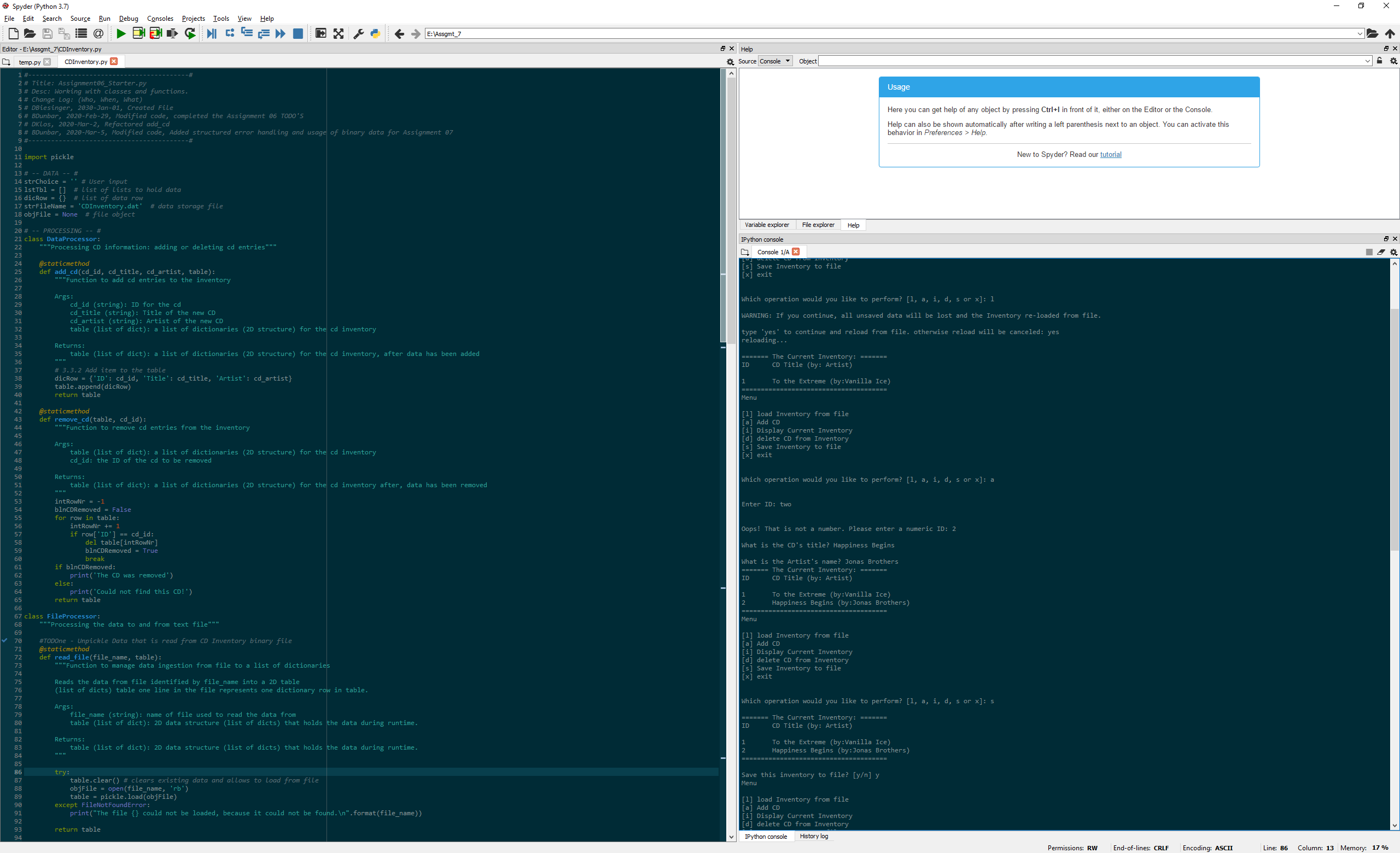


Figure 12 – Image of Working Script in Spyder –

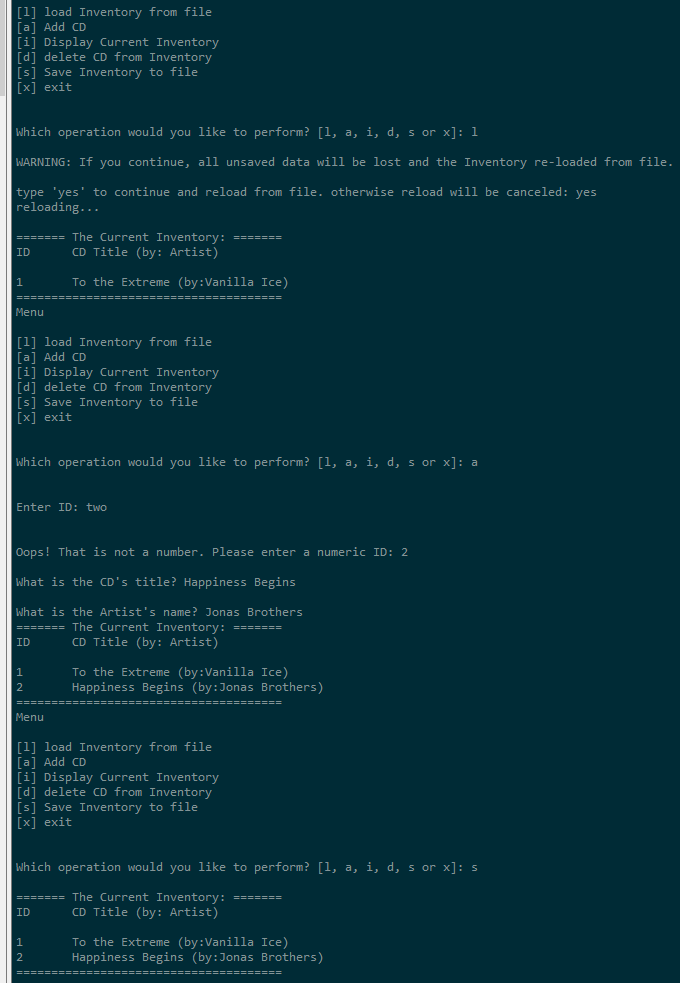


Figure 13 – Another Image of Working Script in Spyder –

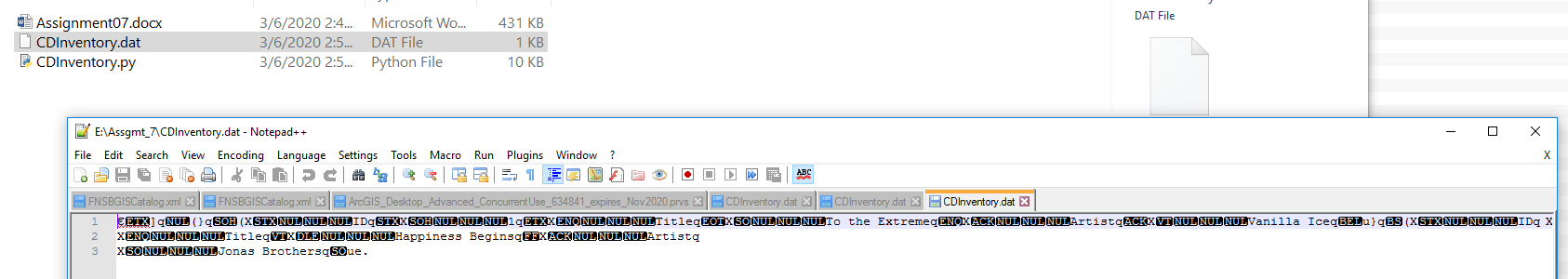


Figure 14 – File that the CD Inventory was saved to by Running Program in Spyder

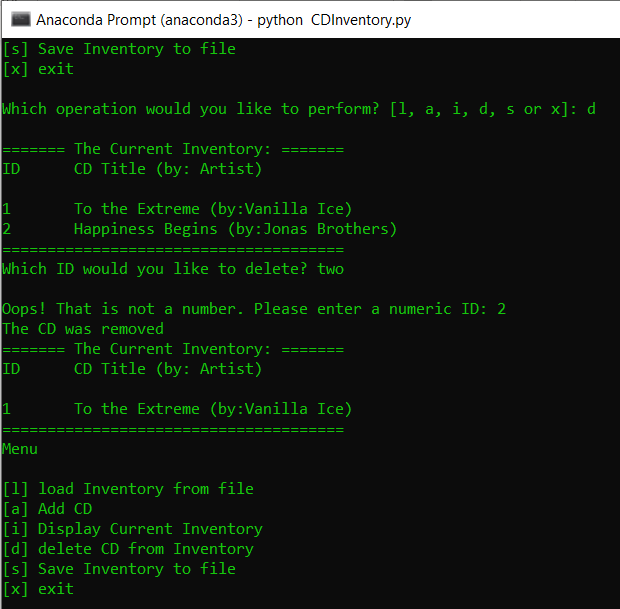


Figure 15 – Image of Working Script in Anaconda Terminal

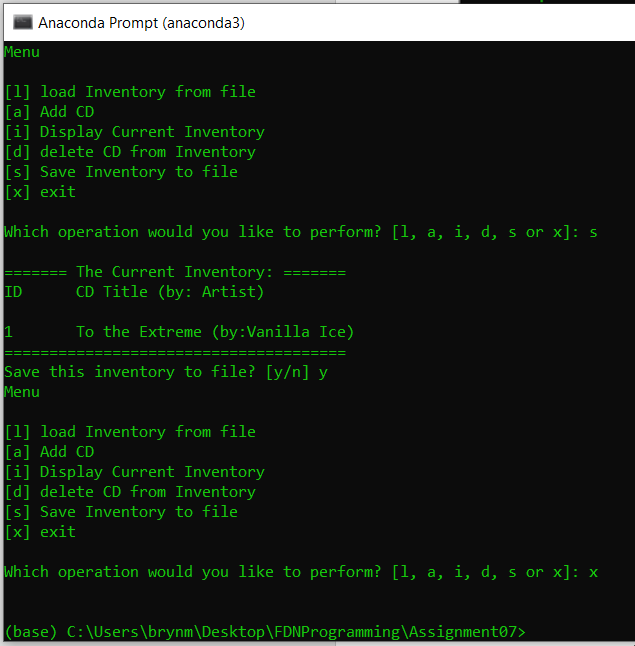


Figure 16 - Image of Working Script in Anaconda Terminal

# GitHub

My assignment 07 files are uploaded to GitHub: <https://github.com/brynbar/Assignment_07>

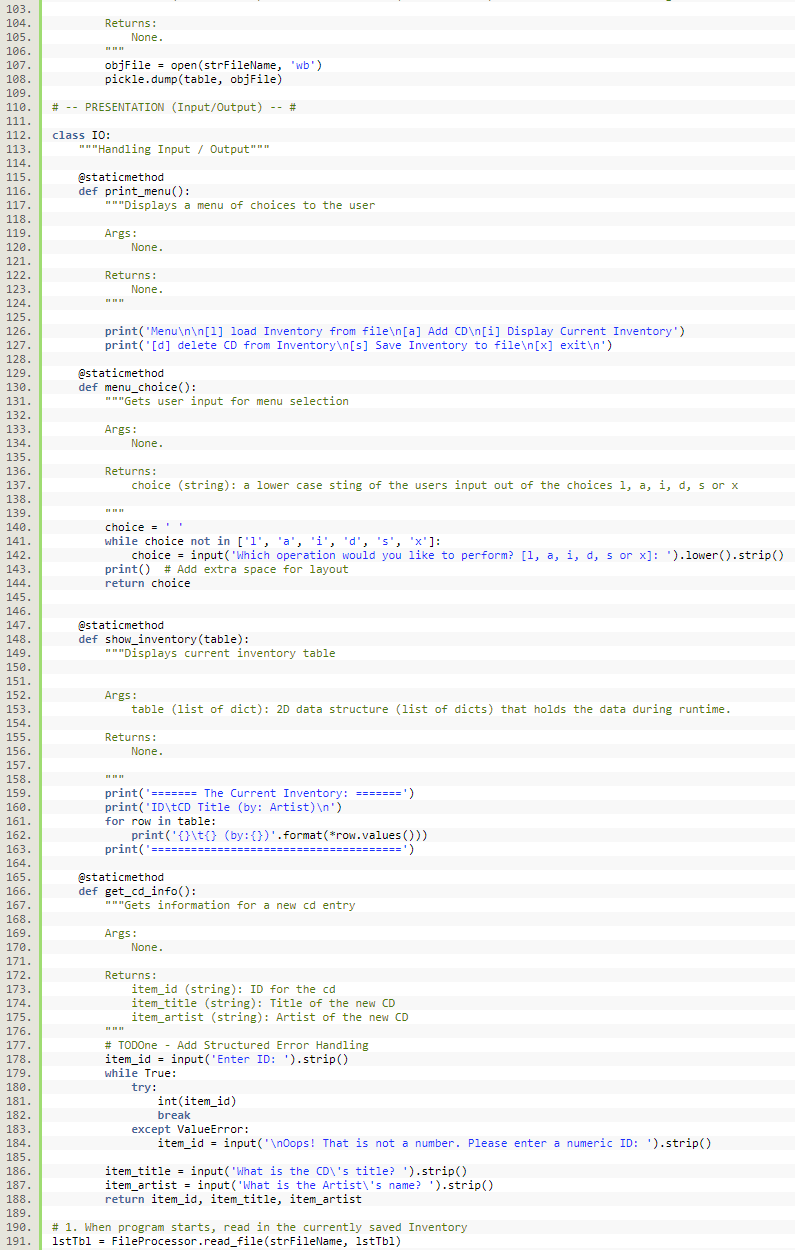
# Appendix

Using [PlanetB’s](http://www.planetb.ca/syntax-highlight-word) (external reference web page) [[3]](#footnote-3)

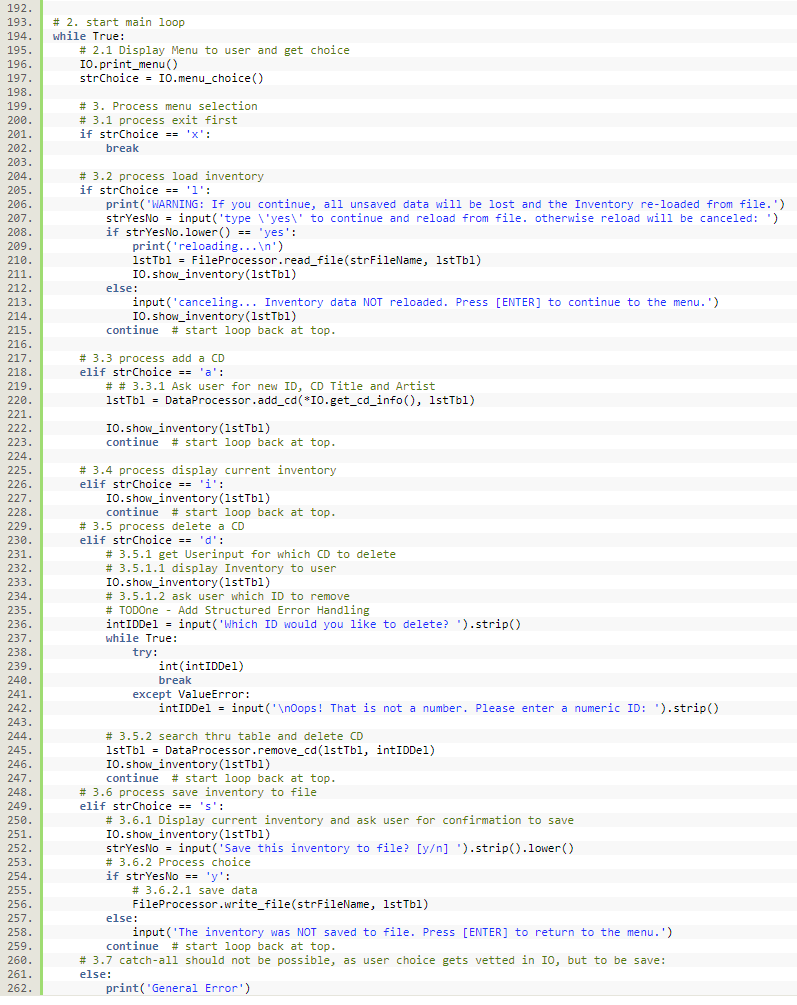
LISTING 1.0 – Source Code



LISTING 1.1 – Source Code



LISTING 1.2 – Source Code



1. PythonCentral. (2017-07-21). *How to Pickle: A Pickling and Unpickling Tutorial.* Retrieved from <https://www.pythoncentral.io/how-to-pickle-unpickle-tutorial/> on 2020-03-06 [↑](#footnote-ref-1)
2. Real Python. (). Python Exceptions: An Introduction. Retrieved from [↑](#footnote-ref-2)
3. <http://www.planetb.ca/projects/syntaxHighlighter/popup.php> - retrieved 6-March-20 [↑](#footnote-ref-3)