Nathan Fenske

3/13/2022

Intro To Python

Assignment 7

**Introduction**

The goal of this assignment is to allow the user to create a CD inventory list by presenting a menu he/she may interact with. The menu allows the user to add a CD with the artist, view the current inventory list, save it, and exit. Error handling is added to ensure the user has a working inventory list and prevents erroneous data or unclear errors and crashes.

**Summary**

The following program, shown below in Figure 1, uses defined function to keep the code organized and clean as well as error handling using try statements. Error handling is placed in defined functions where user input is required. This allows the user to know exactly what he or she did incorrectly as well as prevents the program from closing or crashing without any explanation. Pickling is also used to sore and retrieve data.

Text

Description automatically generatedFigure 1: The program

**Details**

**Main Menu**

The code below in Figure 2 imports the pickle module to preserve data. The code defines blank sets of data such as user input, lists, and dictionaries.

A screenshot of a computer

Description automatically generated with medium confidence

Figure 2: Data

**Delete Data Error Handling**

Skipping to line 48 in Figure 3, the delete data error handling is shows. If the user enters a CD ID that does not exist in the inventory, an error prompt is displayed telling the user such. You can see the result of this in Figure 4. The user entered 4 in the ID when there are only IDs 1 and 2 in the inventory.

Text

Description automatically generated

Figure 3: Delete Data Error Handling

Text

Description automatically generated

Figure 4: Delete Data Error Handling Example

**Write to File Error Handling**

Lines 98-113 add error handling to the write to file function as seen in Figure 5. If the user enters nothing or anything but “Y” or “N”, an error is displayed informing the user of this as Figure 6 shows. The pickle module is utilized here in order to store the data in binary form.

A screenshot of a computer

Description automatically generated with medium confidence

Figure 5: Write to File Error Handling

Text

Description automatically generated

Figure 6: Write to File Error Handling Example

**GitHub Link**

The complete program can be found at the link below.

<https://github.com/thefenske/Assignment07>