Yogita Rakasi

02/27/2022

Foundations of Programming: Python

Assignment 5: Continue to work on CD Inventory assignment and add options for deleting an entry, listing the contents of file and showing current inventory
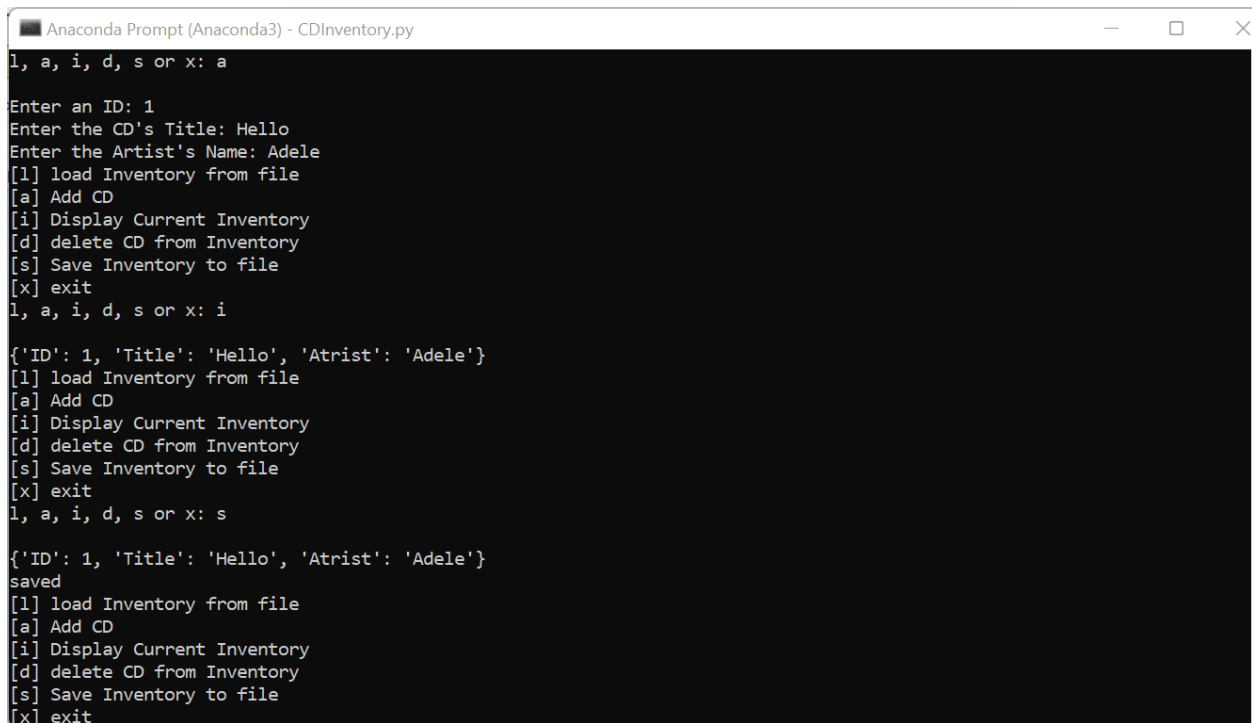
Dictionary:

Learnt about Dictionaries – which are a collection of key/value pairs. While Strings are mutable, keys in dictionary cannot be changed. Learning about different methods for key value pairs in dictionary. Also converted list from previous assignment into Dictionary for storing and retrieving values.

Reading/writing data to a file:

Continued to use read and write modes for writing data to files.

Assignment screenshots:

```python
        if strChoice == 'l':
            # TODO Add the functionality of loading existing data
            objFile = open(strFileName, 'r')
            for row in objFile:
                print (row)
            objFile.close()
            pass
        elif strChoice == 'a':  # no elif necessary, as this code is only reached if strChoice
            # 2. Add data to the table (2d-list) each time the user wants to add data
            strID = input('Enter an ID: ')
            strTitle = input('Enter the CD\'s Title: ')
            strArtist = input('Enter the Artist\'s Name: ')
            intID = int(strID)
            dicRow = {'ID':intID, 'Title':strTitle, 'Atrist':strArtist}
            #  print(dicRow)
            lstTbl.append(dicRow)
            pass
        elif strChoice == 'i':
            # 3. Display the current data to the user each time the user wants to display the
            for row in lstTbl:
                print(row)
            pass
        elif strChoice == 's':
            # 4. Save the data to a text file CDInventory.txt if the user chooses so
            for row in lstTbl:
                print(row)
                strRow+= str(row) + ','
                strRow = strRow[:-1] + '\n'
                objFile = open(strFileName, 'w')
                objFile.write(strRow)
                objFile.close()
                print('saved')
            pass
        elif strChoice == 'd':
            # TODO Add functionality of deleting an entry
            intDel = input('enter the ID you want to delete')
            objFile = open(strFileName, 'r')
            for row in objFile:
                dicRow = row
                for key, val in dicRow.items():
                    if val == intDel:
                        del(dicRow.key)
                    break
            break

            objFile.close()
            pass
        else:
            print('Please choose either l, a, i, d, s or x!')
```

Summary:

This was a tough assignment even though the starter file was provided. I could not figure out how to delete the files. I tried to get the key value pair from the list and match the data for deletion but could not figure out the issue with error. Also, somewhere in the code between s and l options, duplicates are

being written into the code and I could not figure out the issue with that either. Overall, the list conversion to Dictionary seemed to be simple, but there definitely were curve balls.

Appendix: