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1  """
2  sdddsddsaddad
3  """
4
5  import csv
6
7
8  def main():
9      menu_selection = ""
10     while menu_selection != "Q":
11         open_file = open("songs.csv")
12         song_list = list(csv.reader(open_file, delimiter=","))
13         print("-----Songs To Learn 1.0 - by YangYang Li-----")
14         print(len(song_list), "songs loaded")
15         print("Menu:\n L - List songs\n A - Add new song\n C - Complete a song\n Q - Quit")
16         menu_selection = input("Enter the choice: ").upper()
17         open_file.close()
18         # Display song list prints a formatted table of songs from song_list
19         if menu_selection == "L":
20             not_learned_songs = 0
21             learned_songs = 0
22             for index, data in enumerate(song_list):
23                 if data[3] == "u":
24                     print(index, "{:40s} - {:30s} ({})" .format(data[0], data[1], data[2]))
25                     not_learned_songs += 1
26                 else:
27                     print(index, "{:40s} - {:30s} ({})" .format(data[0], data[1], data[2]))
28                     learned_songs += 1
29             print("{} songs learned, {} songs still need to learn" .format(learned_songs, not_learned_songs))
30
31         # Adds songs details from user input and adds it to the song list
32         elif menu_selection == "A":
33             title = str(input("Title:"))
34             while title == "":
35                 print("Input cannot be blank.")

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36     title = str(input("Title:"))
37     artist = str(input("Artist:"))
38
39     while artist == "":
40         print("Input cannot be blank.")
41         artist = str(input("Artist:"))
42
43     while True:
44         try:
45             year = int(input("Year: "))
46             if year <= 0:
47                 print("Numbers must be >0")
48             else:
49                 break
50         except ValueError:
51             print("Invalid input; enter valid numbers")
52
53     new_song = [title, artist, year, 'u']
54     song_list.append(new_song)
55     print("{} by {} ({} added to song list".format(title, artist, year))
56     # open_file = open('SongList.csv', 'w', newline='')
57     # song_list.append(new_song)
58     # writer = csv.writer(open_file, delimiter=",")
59     # for lines in song_list:
60         # writer.writerow(lines)
61     # open_file.close()
62
63     # Gets a song number from the user and marks the song as completed
64     elif menu_selection == "C":
65         completed_song = 0
66         for complete in song_list:
67             if complete[3] == "u":
68                 completed_song -= 1
69         if completed_song != 0:
70             # valid_input = False
71             # while not valid_input:

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71 while True:
72     try:
73         song_learned = int(input("Enter a number of a song to mark as learned: "))
74         if song_learned < 0:
75             print("Number must be more than >= 0")
76         elif song_learned > len(song_list):
77             print("Song number not in the list. The list goes up to {}".format(len(song_list)
78                                     ) - 1))
79         else:
80             break
81         except ValueError:
82             print("Invalid input; enter a valid number.")
83         for index, data in enumerate(song_list):
84             if index == song_learned:
85                 if data[3] == "u":
86                     data[3] = "l"
87                     print("{} by {} learned".format(data[0], data[1]))
88                 else:
89                     print("You have already learned {}".format(data[0]))
90             else:
91                 print("No more song to learn!")
92         open_file = open("songs.csv", "w", newline="")
93         writer = csv.writer(open_file, delimiter=",")
94         for lines in song_list:
95             writer.writerow(lines)
96         open_file.close()
97         # Exit the program
98         elif menu_selection == "Q":
99             menu_selection = "Q"
100             open_file = open("songs.csv", "w", newline="")
101             writer = csv.writer(open_file, delimiter=",")
102             for lines in song_list:
103                 writer.writerow(lines)
104             open_file.close()

```

File - C:\Users\liyan\PycharmProjects\test\test_song2.py

```
105     print(len(song_list), "songs saved to songs.csv\n Have a nice day :)")
106     else:
107         print("Invalid menu choice! Please enter again!")
108         print("Menu:\n      L - List songs\n      A - Add new song\n      C - Complete a song\n      Q - Quit")
109         menu_selection = input("Enter the choice: ").upper()
110
111
112 main()
113
```