

```

1  """
2  sddsddsaddad
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.")
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         new_song = [title, artist, year, 'u']
53         song_list.append(new_song)
54         print("{} by {} ({} ) added to song list".format(title,
artist, year))
55         # open_file = open('SongList.csv', 'w', newline='')
56         # song_list.append(new_song)
57         # writer = csv.writer(open_file, delimiter=",")
58         # for lines in song_list:
59         #     writer.writerow(lines)
60         # open_file.close()
61
62         # Gets a song number from the user and marks the song as
completed
63         elif menu_selection == "C":
64             completed_song = 0
65             for complete in song_list:
66                 if complete[3] == "u":
67                     completed_song -= 1
68             if completed_song != 0:
69                 # valid_input = False
70                 # while not valid_input:
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) - 1))
78                             else:
79                                 break
80                             except ValueError:
81                                 print("Invalid input; enter a valid number."
)
82                     for index, data in enumerate(song_list):
83                         if index == song_learned:
84                             if data[3] == "u":
85                                 data[3] = "l"
86                                 print("{} by {} learned".format(data[0
], data[1]))
87                             else:
88                                 print("You have already learned {}".
format(data[0]))
89                         else:
90                             print("No more song to learn!")
91                             open_file = open("songs.csv", "w", newline="")
92                             writer = csv.writer(open_file, delimiter=",")
93                             for lines in song_list:
94                                 writer.writerow(lines)
95                             open_file.close()
96

```

```
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()
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
```