



Intro to JavaScript Week 5 Coding Assignment

Points possible: 75

URL to Your GitHub Repository:

https://github.com/beebejun2/Week_5.git

Instructions: In VS Code, or an IDE of your choice, write the code that accomplishes the objectives listed below. Ensure that the code compiles and runs as directed. Take screenshots of the code and of the running program (make sure to get screenshots of all required functionality) and paste them in this document where instructed below. Create a new repository on GitHub for this week's assignments and push this document, with your JavaScript project code, to the repository. Add the URL for this week's repository to this document where instructed and submit this document to your instructor when complete.

Coding Steps:

1. Create a menu app as seen in this week's video. What you create is up to you as long as it meets the following requirements.
 - a. Use at least one array.
 - b. Use at least two classes.
 - c. Your menu should have the options to create, view, and delete elements.

Screenshots of Code:



PROMINEO TECH

```
js Week_5_assignment.js > Menu > showArtistMenuOptions
1 // menu driven app - assignment
2 // I am going to create a menu for a music artist and songs
3
4 class Song {
5   constructor(name, singer) {
6     this.name = name;
7     this.singer = singer;
8   }
9
10  describe() {
11    return `${this.name} has this song by ${this.singer} on it their album.`;
12  }
13 }
14
15 class Artist {
16   constructor(name) {
17     this.name = name;
18     this.songs = [];
19   }
20
21   addSong(song) {
22     if (song instanceof Song) {
23       this.songs.push(song);
24     } else {
25       throw new Error(`This is not a correct song: ${song}`);
26     }
27   }
28
29   describe(){
30     return `${this.name} is one of ${this.songs.length}
31     songs.`;
32   }
33 }
34
35 class Menu {
36   constructor() {
37     this.artists = [];
38     this.selectedArtists = null;
39   }
40
41   start() {
42     let selection = this.showMainMenuOptions();
43     while (selection != 0) {
44       switch (selection) {
45         case '1':
46           this.createArtist();
47           break;
48         case '2':
49           this.viewArtist();
50           break;
51         case '3':
52           this.deleteArtist();
53           break;
54         case '4':
55           this.displayArtists();
56           break;
57         default:
58           selection = 0;
59       }
60       selection = this.showMainMenuOptions();
61     }
62
63     alert('Goodbye!');
64   }
65
66   showMainMenuOptions(){
67     return prompt(
68       `
69       0) exit
70       1) Create new Artist
71       2) View Artist
72       3) Delete Artist
73       4) Display all Artists
74       `);
75   }
76
77   showArtistMenuOptions(artistInfo){
78     return prompt(
79       `
80       0) back
81       1) Create Song
82       2) Delete Song
83       .....
84       ${artistInfo}
85       `);
86   }
87 }
```



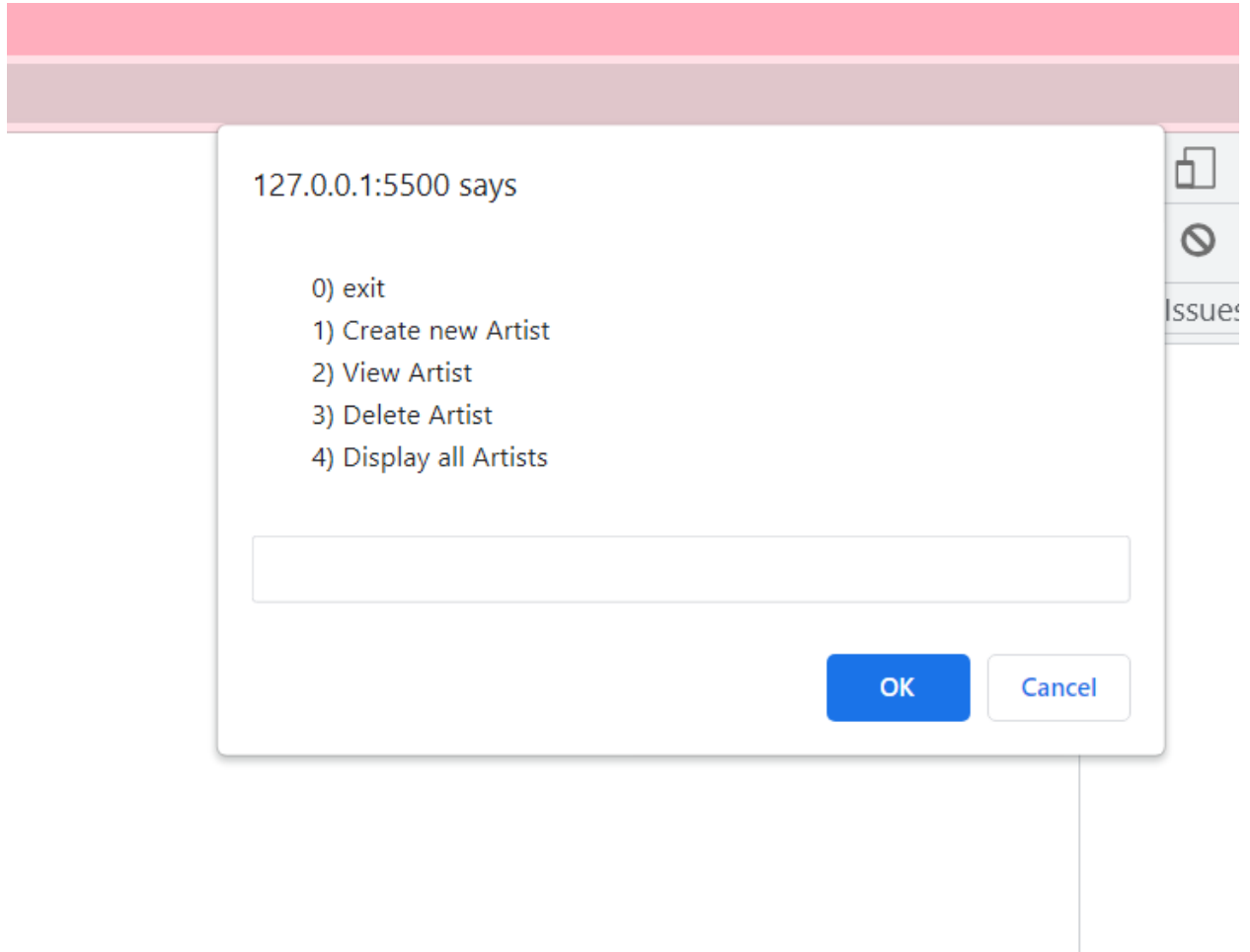
PROMINEO TECH

```
86
87 ~ displayArtists() {
88     let artistString = '';
89     for (let i = 0; i < this.artists.length; i++) {
90         artistString += i + ' ' + this.artists[i].name + '\n';
91     }
92     alert(artistString);
93 }
94 ~ displaySongs() {
95     let songString = '';
96     for (let i = 0; i < this.songs.length; i++) {
97         songString += i + ' ' + this.songs[i].name + '\n';
98     }
99     alert(songString);
100 }
101 ~ createArtist() {
102     let name = prompt('Enter name of new Artist:');
103     this.artists.push(new Artist(name));
104 }
105
106 ~ deleteArtist() {
107     let index = prompt('Enter the index of the Artist you wish to delete:');
108     if (index > -1 && index < this.artists.length) {
109         this.artists.splice(index, 1);
110     }
111 }
112
113 ~ viewArtist() {
114     let index = prompt('Enter the index of the Artist you wish to view:');
115     if (index > -1 && index < this.artists.length) {
116         this.selectedArtist = this.artists[index];
117         let description = 'Artist Name: ' + this.selectedArtist.name + '\n';
118
119         for (let i = 0; i < this.selectedArtist.songs.length; i++) {
120             description += i + ' ' + this.selectedArtist.songs[i].name + ' - ' + this.selectedArtist.songs[i].singer + '\n';
121         }
122
123         let selection = this.showArtistMenuOptions(description);
124         switch (selection) {
125             case '1':
126                 this.createSong();
127                 break;
128             case '2':
129                 this.deleteSong();
130                 break;
131         }
132     }
133 }
134
135 ~ createSong() {
136     let name = prompt('Enter name of the new Song:');
137     let singer = prompt('Enter name of Artist');
138     this.selectedArtist.songs.push(new Song(name, singer));
139 }
140
141 ~ viewSong() {
142     let index = prompt('Viewing songs:');
143     if (index > -1 && index < this.songs.length) {
144         this.selectedSong = this.songs[index];
145         let description = 'Song Name: ' + this.selectedSong.name + '\n';
146
147         for (let i = 0; i < this.selectedSong.songs.length; i++) {
148             description += i + ' ' + this.selectedSong.songs[i].singer + ' - ' + this.selectedSong.songs[i].singer + '\n';
149         }
150
151         let selection = this.showSongMenuOptions(description);
152         switch (selection) {
153             case '1':
154                 this.displaySongs();
155             }
156         }
157     }
158 }
159 ~ deleteSong() {
160     let index = prompt('Enter the index of the Song you wish to delete:');
161     if (index > -1 && index < this.selectedArtist.songs.length) {
162         this.selectedArtist.songs.splice(index, 1);
163     }
164 }
165
166 let menu = new Menu();
167 menu.start();
```



PROMINEO TECH

Screenshots of Running Application:





PROMINEO TECH

127.0.0.1:5500 says

- 0) exit
- 1) Create new Artist
- 2) View Artist
- 3) Delete Artist
- 4) Display all Artists

OK

Cancel



PROMINEO TECH

127.0.0.1:5500 says

Enter name of new Artist:

OK

Cancel



Issues



PROMINEO TECH

127.0.0.1:5500 says

- 0) exit
- 1) Create new Artist
- 2) View Artist
- 3) Delete Artist
- 4) Display all Artists

OK

Cancel

127.0.0.1:5500 says

Enter the index of the Artist you wish to view:

OK

Cancel



PROMINEO TECH

127.0.0.1:5500 says

0) back

1) Create Song

2) Delete Song

Artist Name: Etta James

1|

OK

Cancel

127.0.0.1:5500 says

Enter name of the new Song:

At Last|

OK

Cancel



127.0.0.1:5500 says

- 0) back
- 1) Create Song
- 2) Delete Song
-
- 0) At Last - Etta James

OK

Cancel

Multiple artists

127.0.0.1:5500 says

- 0) Etta James
- 1) Jelly Roll

OK



PROMINEO TECH

127.0.0.1:5500 says

- 0) exit
- 1) Create new Artist
- 2) View Artist
- 3) Delete Artist
- 4) Display all Artists

OK

Cancel

127.0.0.1:5500 says

Goodbye!

OK