

Intro to JavaScript Week 5 Coding Assignment

Points possible: 70

Category	Criteria	% of Grade
Functionality	Does the code work?	25
Organization	Is the code clean and organized? Proper use of white space, syntax, and consistency are utilized. Names and comments are concise and clear.	25
Creativity	Student solved the problems presented in the assignment using creativity and out of the box thinking.	25
Completeness	All requirements of the assignment are complete.	25

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:

- 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.
 - Use at least one array.
 - Use at least two classes.
 - Your menu should have the options to create, view, and delete elements.

Screenshots of Code:

```

C:\Users\1102\Documents> Front End Course > Week 5 > week5codingassignment.js > Menu > constructor
1 class Student {
2   constructor(name, role, grade) {
3     this.name = name;
4     this.role = role;
5     this.grade = grade;
6   }
7 }
8
9 class Club {
10  constructor(name) {
11    this.name = name;
12    this.students = [];
13  }
14
15  addStudent(student) {
16    if (student instanceof Student){
17      this.students.push(student);
18    }
19  }
20 }
21
22
23 class Menu {
24  constructor() {
25    this.clubs = [];
26    this.selectedClub = null;
27  }
28
29  start() {
30    let selection = this.showMainMenuOptions();
31
32    while (selection != 0) {
33      switch (selection) {
34        case '1':
35          this.createClub();
36          break;
37        case '2':
38          this.viewClub();
39          break;
40        case '3':
41          this.deleteClub();
42          break;
43        case '4':
44          this.displayClubs();
45          selection = 0;
46        default:
47          selection = 0;
48      }
49      selection = this.showMainMenuOptions();
50    }
51  }
52 }

```

```

C:\Users\1102\Documents> Front End Course > Week 5 > week5codingassignment.js > Menu > constructor
22
23 class Menu {
24  constructor() {
25    this.clubs = [];
26    this.selectedClub = null;
27  }
28
29  start() {
30    let selection = this.showMainMenuOptions();
31
32    while (selection != 0) {
33      switch (selection) {
34        case '1':
35          this.createClub();
36          break;
37        case '2':
38          this.viewClub();
39          break;
40        case '3':
41          this.deleteClub();
42          break;
43        case '4':
44          this.displayClubs();
45          selection = 0;
46        default:
47          selection = 0;
48      }
49      selection = this.showMainMenuOptions();
50    }
51    alert('Leaving Menu Prompt. ');
52  }
53
54  showMainMenuOptions() {
55    return prompt('
56    0. Exit
57    1. Add New a Club
58    2. View a Club
59    3. Delete a Club
60    4. Display All of the Clubs
61    ');
62  }
63
64  showClubMenuOptions(clubInfo) {
65    return prompt('
66    0. Return to Menu
67    1. Add a Student
68    2. Delete a Student
69    -----
70    4. Club Info

```

```

54 showMainMenuOptions() {
55     return prompt('
56     0. Exit
57     1. Add New a Club
58     2. View a Club
59     3. Delete a Club
60     4. Display All of the Clubs
61     ');
62 }
63
64 showClubMenuOptions(clubInfo) {
65     return prompt('
66     0. Return to Menu
67     1. Add a Student
68     2. Delete a Student
69     -----
70     ${clubInfo}
71     ');
72 }
73
74 displayClubs() {
75     let clubString = '';
76     for(let i = 0; i < this.clubs.length; i++){
77         clubString += i + ' ' + this.clubs[i].name + '\n';
78     }
79     alert(clubString);
80 }
81
82 createClub() {
83     let name = prompt('Please enter the name of the club:');
84     this.clubs.push(new Club(name));
85 }
86
87 viewClub() {
88     let index = prompt('Please enter the number of the club you would like to view:');
89     if(index > -1 && index < this.clubs.length) {
90         this.selectedClub = this.clubs[index];
91         let description = 'Club Name: ' + this.selectedClub.name + '\n';
92
93         for (let i = 0; i < this.selectedClub.students.length; i++) {
94             description += i + ' ' + this.selectedClub.students[i].name + ' - ' + this.selectedClub.students[i].position + '\n';
95         }
96
97         let selection = this.showClubMenuOptions(description);
98         switch (selection) {
99             case '1':
100                 this.createStudent();
101             case '2':

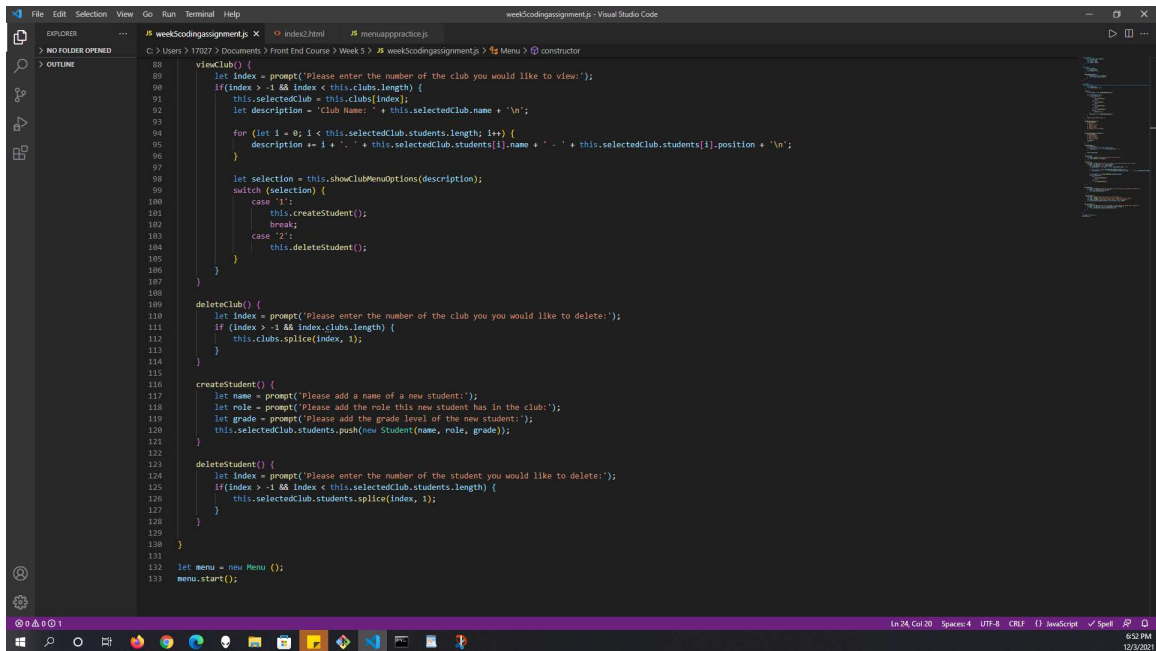
```

```

C:\Users\12027\Documents> Front End Course > Week 5 > JS week5codingassignment.js > Menu > constructor
88 viewClub() {
89     let index = prompt('Please enter the number of the club you would like to view:');
90     if(index > -1 && index < this.clubs.length) {
91         this.selectedClub = this.clubs[index];
92         let description = 'Club Name: ' + this.selectedClub.name + '\n';
93
94         for (let i = 0; i < this.selectedClub.students.length; i++) {
95             description += i + ' ' + this.selectedClub.students[i].name + ' - ' + this.selectedClub.students[i].position + '\n';
96         }
97
98         let selection = this.showClubMenuOptions(description);
99         switch (selection) {
100             case '1':
101                 this.createStudent();
102                 break;
103             case '2':
104                 this.deleteStudent();
105         }
106     }
107 }
108
109 deleteClub() {
110     let index = prompt('Please enter the number of the club you would like to delete:');
111     if (index > -1 && index < this.clubs.length) {
112         this.clubs.splice(index, 1);
113     }
114 }
115
116 createStudent() {
117     let name = prompt('Please add a name of a new student:');
118     let role = prompt('Please add the role this new student has in the club:');
119     let grade = prompt('Please add the grade level of the new student:');
120     this.selectedClub.students.push(new Student(name, role, grade));
121 }
122
123 deleteStudent() {
124     let index = prompt('Please enter the number of the student you would like to delete:');
125     if(index > -1 && index < this.selectedClub.students.length) {
126         this.selectedClub.students.splice(index, 1);
127     }
128 }
129
130 }
131
132 let menu = new Menu ();
133 menu.start();

```

Screenshots of Running Application:



```
88 viewClub() {
89   let index = prompt('Please enter the number of the club you would like to view:');
90   if(index > -1 && index < this.clubs.length) {
91     this.selectedClub = this.clubs[index];
92     let description = 'Club Name: ' + this.selectedClub.name + '\n';
93
94     for(let i = 0; i < this.selectedClub.students.length; i++) {
95       description += i + '. ' + this.selectedClub.students[i].name + ' - ' + this.selectedClub.students[i].position + '\n';
96     }
97
98     let selection = this.showClubMenuOptions(description);
99     switch(selection) {
100       case '1':
101         this.createStudent();
102         break;
103       case '2':
104         this.deleteStudent();
105       }
106   }
107 }
108
109 deleteClub() {
110   let index = prompt('Please enter the number of the club you would like to delete:');
111   if(index > -1 && index < this.clubs.length) {
112     this.clubs.splice(index, 1);
113   }
114 }
115
116 createStudent() {
117   let name = prompt('Please add a name of a new student:');
118   let role = prompt('Please add the role this new student has in the club:');
119   let grade = prompt('Please add the grade level of the new student:');
120   this.selectedClub.students.push(new Student(name, role, grade));
121 }
122
123 deleteStudent() {
124   let index = prompt('Please enter the number of the student you would like to delete:');
125   if(index > -1 && index < this.selectedClub.students.length) {
126     this.selectedClub.students.splice(index, 1);
127   }
128 }
129
130 }
131
132 let menu = new Menu();
133 menu.start();
```

URL to GitHub Repository:

<https://github.com/MonicaHunter0812/week5assignment>