

# 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:

```
File Edit Selection View Go Run Terminal Help
weekScodingassignment.js - Visual Studio Code

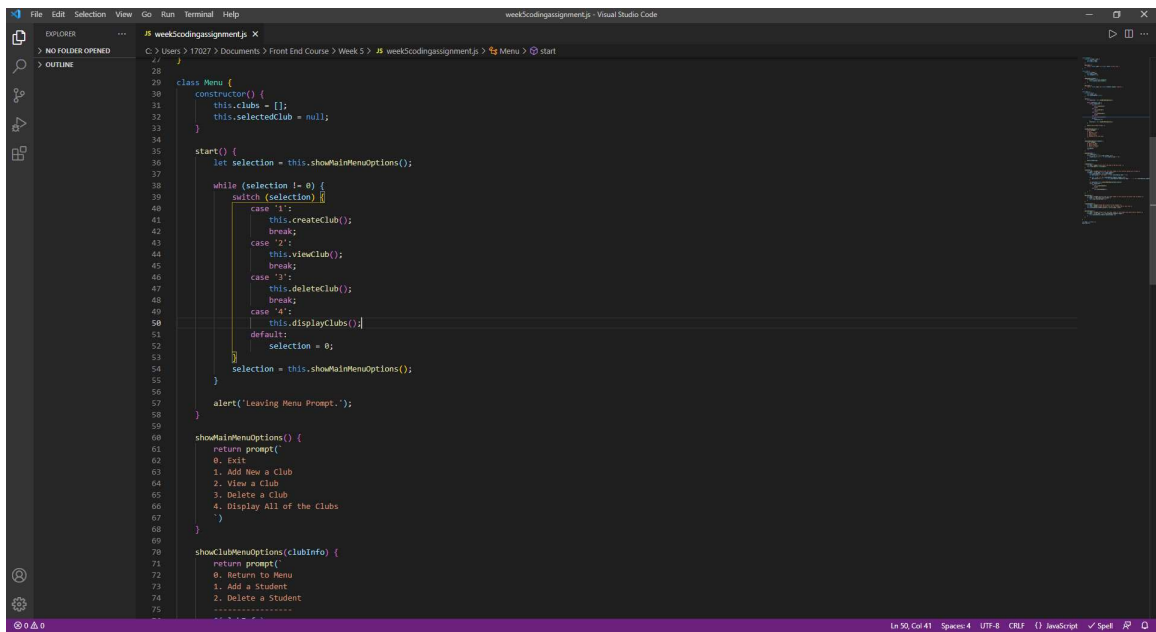
EXPLORER
> NO FOLDER OPENED
> OUTLINE

C:\Users\17027\Documents\Front End Course\Week 5> .\weekScodingassignment.js
1 class Student {
2   constructor(name, role) {
3     this.name = name;
4     this.role = role;
5   }
6
7   describe() {
8     return `${this.name} is a ${this.role} in this club.`;
9   }
10 }
11
12 class Club {
13   constructor(name) {
14     this.name = name;
15     this.students = [];
16   }
17
18   addStudent(student) {
19     if (student instanceof Student) {
20       this.students.push(student);
21     }
22   }
23
24   describe() {
25     return `${this.name} has ${this.students.length} students.`;
26   }
27 }
28
29 class Menu {
30   constructor() {
31     this.clubs = [];
32     this.selectedClub = null;
33   }
34
35   start() {
36     let selection = this.showMainMenuOptions();
37
38     while (selection !== 0) {
39       switch (selection) {
40         case '1':
41           this.createClub();
42           break;
43         case '2':
44           this.viewClub();
45           break;
46         case '3':
47           this.deleteClub();
48           break;
49         case '4':
50           this.displayClubs();
51           break;
52         case '0':
53           selection = 0;
54       }
55       selection = this.showMainMenuOptions();
56     }
57
58     alert('Leaving Menu Prompt.');
```

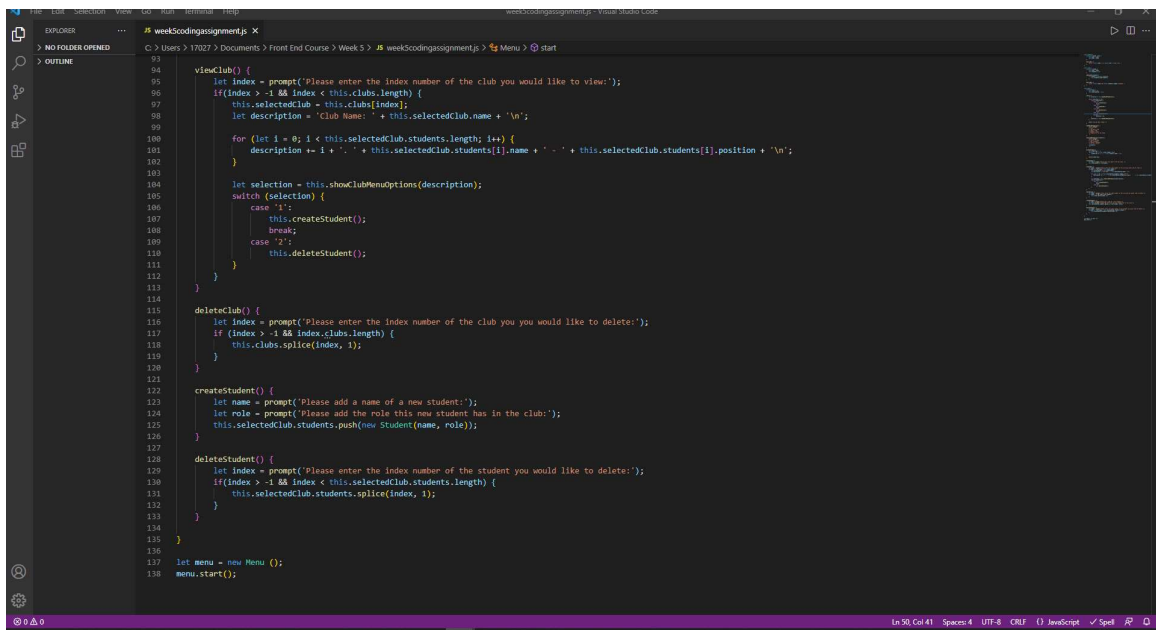
```
File Edit Selection View Go Run Terminal Help
weekScodingassignment.js - Visual Studio Code

EXPLORER
> NO FOLDER OPENED
> OUTLINE

C:\Users\17027\Documents\Front End Course\Week 5> .\weekScodingassignment.js
1 class Student {
2   constructor(name, role) {
3     this.name = name;
4     this.role = role;
5   }
6
7   describe() {
8     return `${this.name} is a ${this.role} in this club.`;
9   }
10 }
11
12 class Club {
13   constructor(name) {
14     this.name = name;
15     this.students = [];
16   }
17
18   addStudent(student) {
19     if (student instanceof Student) {
20       this.students.push(student);
21     }
22   }
23
24   describe() {
25     return `${this.name} has ${this.students.length} students.`;
26   }
27 }
28
29 class Menu {
30   constructor() {
31     this.clubs = [];
32     this.selectedClub = null;
33   }
34
35   start() {
36     let selection = this.showMainMenuOptions();
37
38     while (selection !== 0) {
39       switch (selection) {
40         case '1':
41           this.createClub();
42           break;
43         case '2':
44           this.viewClub();
45           break;
46         case '3':
47           this.deleteClub();
48           break;
49         case '4':
50           this.displayClubs();
51           break;
52         case '0':
53           selection = 0;
54       }
55       selection = this.showMainMenuOptions();
56     }
57
58     alert('Leaving Menu Prompt.');
```



```
28 }
29
30 class Menu {
31   constructor() {
32     this.clubs = [];
33     this.selectedClub = null;
34   }
35
36   start() {
37     let selection = this.showMainMenuOptions();
38     while (selection != 0) {
39       switch (selection) {
40         case '1':
41           this.createClub();
42           break;
43         case '2':
44           this.viewClub();
45           break;
46         case '3':
47           this.deleteClub();
48           break;
49         case '4':
50           this.displayClubs();
51           break;
52         default:
53           selection = 0;
54       }
55       selection = this.showMainMenuOptions();
56     }
57     alert('Leaving Menu Prompt. ');
58   }
59
60   showMainMenuOptions() {
61     return prompt('
62     0. Exit
63     1. Add New a Club
64     2. View a Club
65     3. Delete a Club
66     4. Display All of the Clubs
67   ');
68 }
69
70 showClubMenuOptions(clubInfo) {
71   return prompt('
72   0. Return to Menu
73   1. Add a Student
74   2. Delete a Student
75   ');
76 }
```



```
93
94
95 viewClub() {
96   let index = prompt('Please enter the index number of the club you would like to view:');
97   if (index > -1 && index < this.clubs.length) {
98     this.selectedClub = this.clubs[index];
99     let description = 'Club Name: ' + this.selectedClub.name + '\n';
100     for (let i = 0; i < this.selectedClub.students.length; i++) {
101       description += i + ' ' + this.selectedClub.students[i].name + ' - ' + this.selectedClub.students[i].position + '\n';
102     }
103     let selection = this.showClubMenuOptions(description);
104     switch (selection) {
105       case '1':
106         this.createStudent();
107         break;
108       case '2':
109         this.deleteStudent();
110     }
111   }
112 }
113
114 deleteClub() {
115   let index = prompt('Please enter the index number of the club you would like to delete:');
116   if (index > -1 && index < this.clubs.length) {
117     this.clubs.splice(index, 1);
118   }
119 }
120
121 createStudent() {
122   let name = prompt('Please add a name of a new student:');
123   let role = prompt('Please add the role this new student has in the club:');
124   this.selectedClub.students.push(new Student(name, role));
125 }
126
127 deleteStudent() {
128   let index = prompt('Please enter the index number of the student you would like to delete:');
129   if (index > -1 && index < this.selectedClub.students.length) {
130     this.selectedClub.students.splice(index, 1);
131   }
132 }
133
134
135
136
137 let menu = new Menu ();
138 menu.start();
```

## Screenshots of Running Application:

```
103 viewClub() {
104   let index = prompt('Please enter the index number of the club you would like to view:');
105   if(index > -1 && index < this.clubs.length) {
106     this.selectedClub = this.clubs[index];
107     let description = 'Club Name: ' + this.selectedClub.name + '\n';
108     for (let i = 0; i < this.selectedClub.students.length; i++) {
109       description += i + 1 + ' ' + this.selectedClub.students[i].name + ' - ' + this.selectedClub.students[i].position + '\n';
110     }
111     let selection = this.showClubMenuOptions(description);
112     switch (selection) {
113       case '1':
114         this.createStudent();
115         break;
116       case '2':
117         this.deleteStudent();
118     }
119   }
120 }
121
122 deleteClub() {
123   let index = prompt('Please enter the index number of the club you would like to delete:');
124   if (index > -1 && index < this.clubs.length) {
125     this.clubs.splice(index, 1);
126   }
127 }
128
129 createStudent() {
130   let name = prompt('Please add a name of a new student:');
131   let role = prompt('Please add the role this new student has in the club:');
132   this.selectedClub.students.push(new Student(name, role));
133 }
134
135 deleteStudent() {
136   let index = prompt('Please enter the index number of the student you would like to delete:');
137   if(index > -1 && index < this.selectedClub.students.length) {
138     this.selectedClub.students.splice(index, 1);
139   }
140 }
141
142 let menu = new Menu ();
143 menu.start();
```

URL to GitHub Repository:

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