



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:

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 index.js U X  index.html U
C: > Users > trepv > OneDrive > Desktop > Week 2 > JS index.js > Student
1  class Student {
2      constructor(name, tall) {
3          this.name = name;
4          this.tall = tall;
5      }
6
7      describe() {
8          return `${this.name} is this ${this.tall} tall.`;
9      }
10 }
11
12 class Group {
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         } else {
22             throw new Error(`You can only add an instance of Student. Argument is a student: ${student}`);
23         }
24     }
25
26     describe() {
27         return `${this.name} has ${this.students.length} many students in it.`;
28     }
29 }
30
31 class Menu {
32     constructor() {
33         this.groups = [];
34         this.selectedGroup = null;
35     }
36
```

```
JS index.js U X  index.html U
C: > Users > trepv > OneDrive > Desktop > Week 2 > JS index.js > Menu > start
34     this.selectedGroup = null;
35 }
36
37 start() {
38     let selection = this.showMainMenuOptions();
39     while (selection != 0) {
40         switch (selection) {
41             case '1':
42                 this.createGroup();
43                 break;
44             case '2':
45                 this.viewGroup();
46                 break;
47             case '3':
48                 this.deleteGroup();
49                 break;
50             case '4':
51                 this.displayGroups();
52                 break;
53             default:
54                 selection = 0;
55         }
56
57         selection = this.showMainMenuOptions();
58     }
59
60     alert('Good luck with the project!');
61 }
62
63
64 showMainMenuOptions() {
65     return prompt(`
66     0) exit
67     1) create a new group
68     2) view group
69     3) delete a group
70     4) display all groups
71     `);

```



PROMINEO TECH

```
C:\Users\trepr> OneDrive > Desktop > Week 2 > JS index.js > Menu > start

71     });
72   }
73
74   showGroupMenuOptions(groupInfo) {
75     return prompt(
76       0) back
77       1) create student
78       2) delete student
79       3) view students
80     |-----|
81     ${groupInfo}
82   })
83 }
84
85 displayGroups() {
86   let groupString = ''
87   for (let i = 0; i < this.groups.length; i++) {
88     groupString += i + ' ' + this.groups[i].name + '\n';
89   }
90   alert(groupString);
91 }
92
93 createGroup() {
94   let name = prompt('Enter the name of your new group:');
95   this.groups.push(new Group(name));
96 }
97
98 viewGroup() {
99   let index = prompt('Enter the index of the group you need to view');
100
101   if (index > -1 && index < this.groups.length) {
102     this.selectedGroup = this.groups[index];
103     let description = 'Group name: ' + this.selectedGroup.name + '\n';
104
105     for (let i = 0; i < this.selectedGroup.students; i++) {
106       description += i + ' ' + this.selectedGroup.students[i].name + ' - ' + this.selectedGroup.students[i].tall + '\n';
107     }
108   }
109 }
```

Ln 42, Col 41 Spaces: 4 UTF-8 CRLF {}

```
JS index.js U X index.html U
C:\Users\trepr> OneDrive > Desktop > Week 2 > JS index.js > Menu > start

105     for (let i = 0; i < this.selectedGroup.students; i++) {
106       description += i + ' ' + this.selectedGroup.students[i].name + ' - ' + this.selectedGroup.students[i].tall + '\n';
107     }
108
109     let selection = this.showGroupMenuOptions(description)
110     switch (selection) {
111       case '1':
112         this.createStudent();
113         break;
114       case '2':
115         this.deleteStudent();
116         break;
117       case '3':
118         this.viewStudents();
119     }
120   }
121 }
122
123 deleteGroup() {
124   let index = prompt('Enter the index of the group you wish to delete:');
125   if (index > -1 && index < this.groups.length) {
126     this.groups.splice(index, 1);
127   }
128 }
129
130 createStudent() {
131   let name = prompt('Enter the name of the new student: ');
132   let tall = prompt('Enter height of new player in inches: ');
133   this.selectedGroup.students.push(new Student(name, tall));
134 }
135
136 deleteStudent() {
137   let index = prompt('Enter the index of the student you need to delete:');
138   if (index > -1 && index < this.selectedGroup.students.length) {
139     this.selectedGroup.students.splice(index, 1);
140   }
141 }
```



PROMINEO TECH

```
JS index.js U X index.html U
C: > Users > trepv > OneDrive > Desktop > Week 2 > JS index.js > Menu > start

115         case '2':
116             this.deleteStudent();
117             break;
118         case '3':
119             this.viewStudents();
120         }
121     }
122 }
123
124 deleteGroup() {
125     let index = prompt('Enter the index of the group you wish to delete:');
126     if (index > -1 && index < this.groups.length) {
127         this.groups.splice(index, 1);
128     }
129 }
130
131 createStudent() {
132     let name = prompt('Enter the name of the new student: ');
133     let tall = prompt('Enter height of new player in inches: ');
134     this.selectedGroup.students.push(new Student(name, tall));
135 }
136
137 deleteStudent() {
138     let index = prompt('Enter the index of the student you need to delete:');
139     if (index > -1 && index < this.selectedGroup.students.length) {
140         this.selectedGroup.students.splice(index, 1);
141     }
142 }
143
144 }
145
146 let menu = new Menu();
147 menu.start();
```

```
JS index.js U index.html U
C: > Users > trepv > OneDrive > Desktop > Week 2 > index.html > ...

1 <html>
2   <head><meta charset="UTF-8">
3     <script src="index.js"></script>
4   </head>
5 </html>
6
```

Screenshots of Running Application:



PROMINEO TECH

file://

- 0) exit
- 1) create a new group
- 2) view group
- 3) delete a group
- 4) display all groups

☐ Prevent this page from creating additional dialogs

OK Cancel

file://

- 0) exit
- 1) create a new group
- 2) view group
- 3) delete a group
- 4) display all groups

☐ Prevent this page from creating additional dialogs

OK Cancel



PROMINEO TECH

file://

Enter the name of your new group:

The Abe's

☐ Prevent this page from creating additional dialogs

OK Cancel

file://

0) exit
1) create a new group
2) view group
3) delete a group
4) display all groups

2

☐ Prevent this page from creating additional dialogs

OK Cancel



PROMINEO TECH

🌐 file://

Enter the index of the group you need to view

☐ Prevent this page from creating additional dialogs

OK Cancel

🌐 file://

0) back
1) create student
2) delete student
|-----|
Group name: The Abe's

☐ Prevent this page from creating additional dialogs

OK Cancel



PROMINEO TECH

file://

Enter the name of the new student:

☐ Prevent this page from creating additional dialogs

OK Cancel

file://

Enter height of new player in inches:

☐ Prevent this page from creating additional dialogs

OK Cancel



PROMINEO TECH

file://

0) back
1) create student
2) delete student
|-----|
Group name: The Abe's

2

☐ Prevent this page from creating additional dialogs

OK Cancel

file://

Enter the index of the student you need to delete:

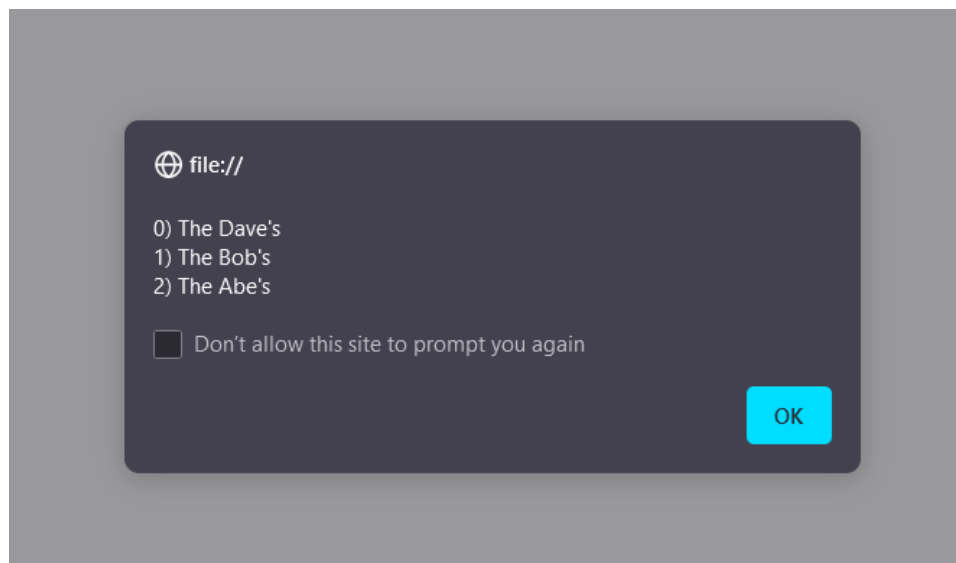
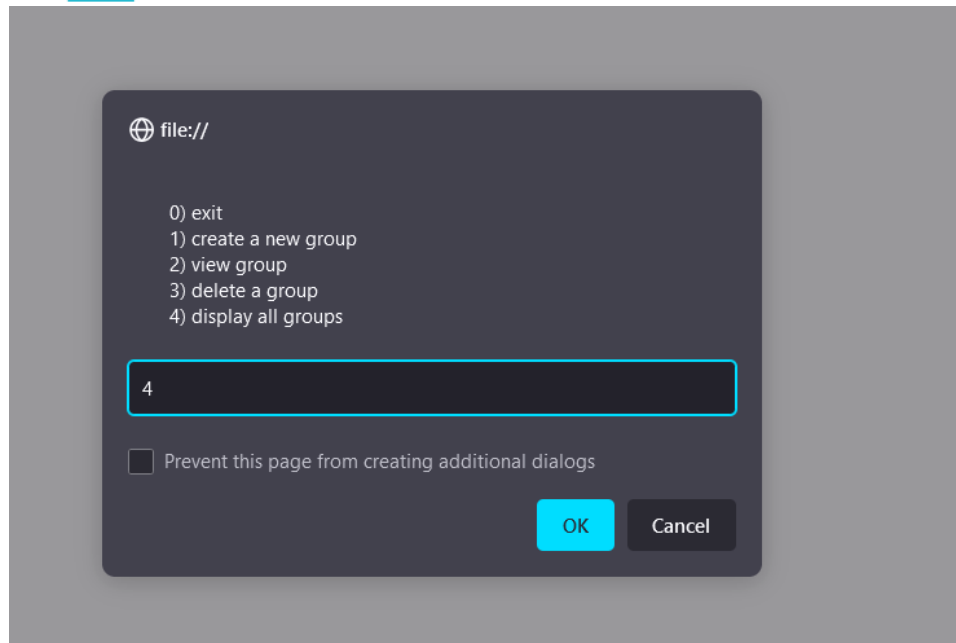
0|

☐ Prevent this page from creating additional dialogs

OK Cancel



PROMINEO TECH





PROMINEO TECH

file://

- 0) exit
- 1) create a new group
- 2) view group
- 3) delete a group
- 4) display all groups

3

☐ Prevent this page from creating additional dialogs

OK

Cancel

file://

Enter the index of the group you wish to delete:

2

☐ Prevent this page from creating additional dialogs

OK

Cancel



PROMINEO TECH

🌐 file://

- 0) exit
- 1) create a new group
- 2) view group
- 3) delete a group
- 4) display all groups

☐ Prevent this page from creating additional dialogs

OK Cancel

🌐 file://

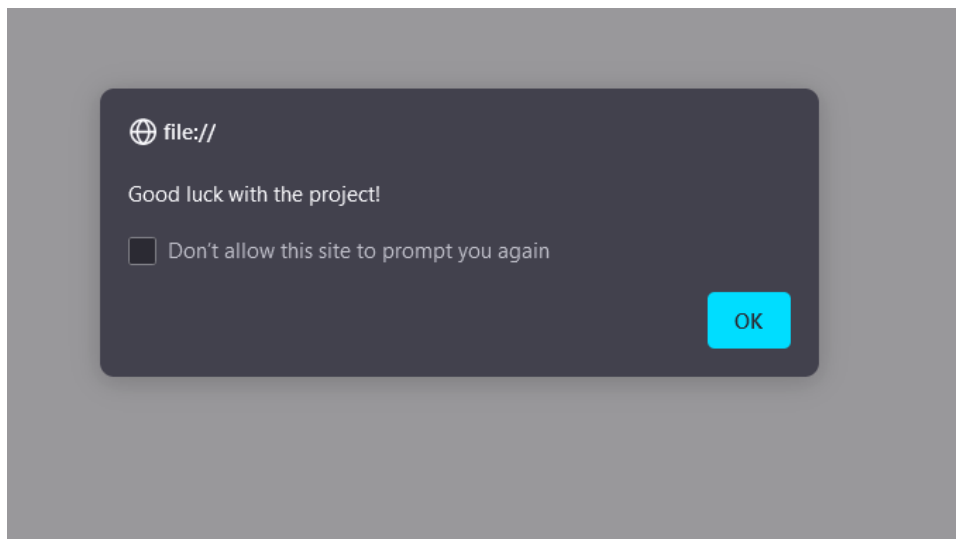
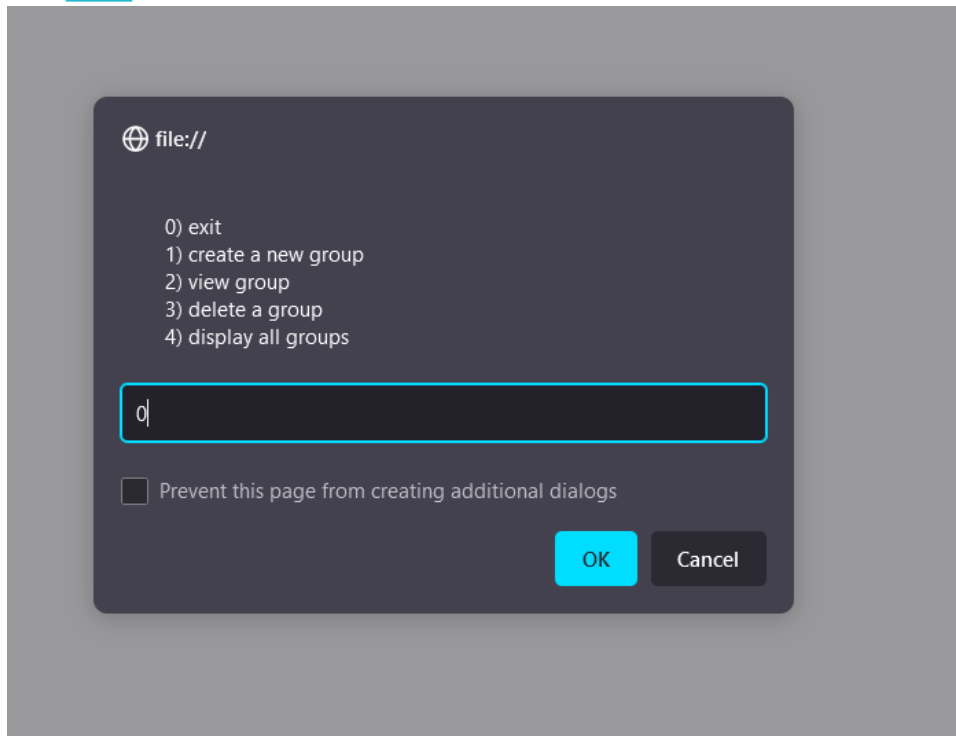
- 0) The Dave's
- 1) The Bob's

☐ Don't allow this site to prompt you again

OK



PROMINEO TECH



URL to GitHub Repository:

<https://github.com/trepvox/JavaScript-Week-5-coding-assignment>