

Intro to JavaScript Week 5 Coding Assignment

Points possible: 75

URL to Your GitHub Repository:

https://github.com/angelcruz9/promineotech/blob/master/folders/Week-05-Object_Oriented_Programming/index.js

URL to Your Coding Assignment Video:

<https://youtu.be/OvtPtEVy9TA>

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.

Video Steps:

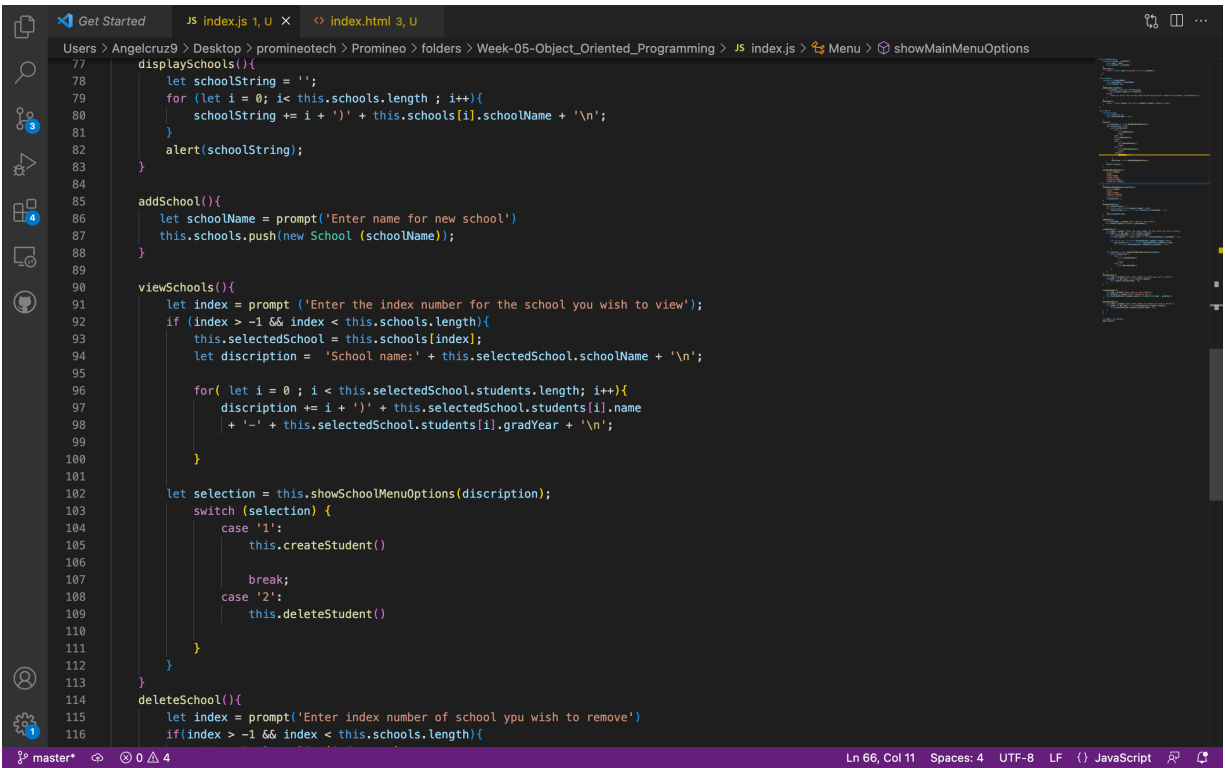
Create a video, up to five minutes max, showing and explaining how your project works with an emphasis on the portions you contributed. This video should be done using screen share and voice over. This can easily be done using Zoom, although you don't have to use Zoom, it's just what we recommend. You can create a new meeting, start screen sharing, and start recording. This will create a video recording on your computer. This should then be uploaded to a publicly accessible site, such as YouTube, Dropbox, or Google Drive. **MAKE SURE THE LINK YOU SHARE IS PUBLIC or UNLISTED.** If it is not accessible by your grader, your project will be graded based on what they can access. The link should be pasted in the submission text box after the GitHub repo link. **REQUIRED: PUBLIC link to video, and GitHub repo link with everything listed above!**

Screenshots of Code:

```
Get Started JS index.js 1, U X index.html 3, U
Users > Angelcruz9 > Desktop > promineotech > Promineo > folders > Week-05-Object_Oriented_Programming > JS index.js > Menu > showMainMenuOptions
1 class StudentGrad {
2   constructor(name, gradYear){
3     this.name = name;
4     this.gradYear = gradYear;
5   }
6   describe(){
7     return `${this.name} Graduated in ${this.gradYear}`;
8   }
9 }
10
11 class School {
12   constructor(schoolName){
13     this.schoolName = schoolName;
14     this.students = [];
15   }
16   addStudent(student){
17     if (student instanceof StudentGrad){
18       this.students.push(this.students);
19     }else{
20       throw new Error('You can Only Add current and previous student with GradYear ${StudentGrad}');
21     }
22   }
23   describe(){
24     return `${this.School} has ${this.students.length} students alumni `
25   }
26 }
27
28 class Menu {
29   constructor(){
30     this.schools = [];
31     this.selectedSchool = null;
32   }
33   start(){
34     let selection = this.showMainMenuOptions();
35     while(selection != 0){
36       switch(selection){
37         case '1':
38           this.addSchool();
39           break;
40
```

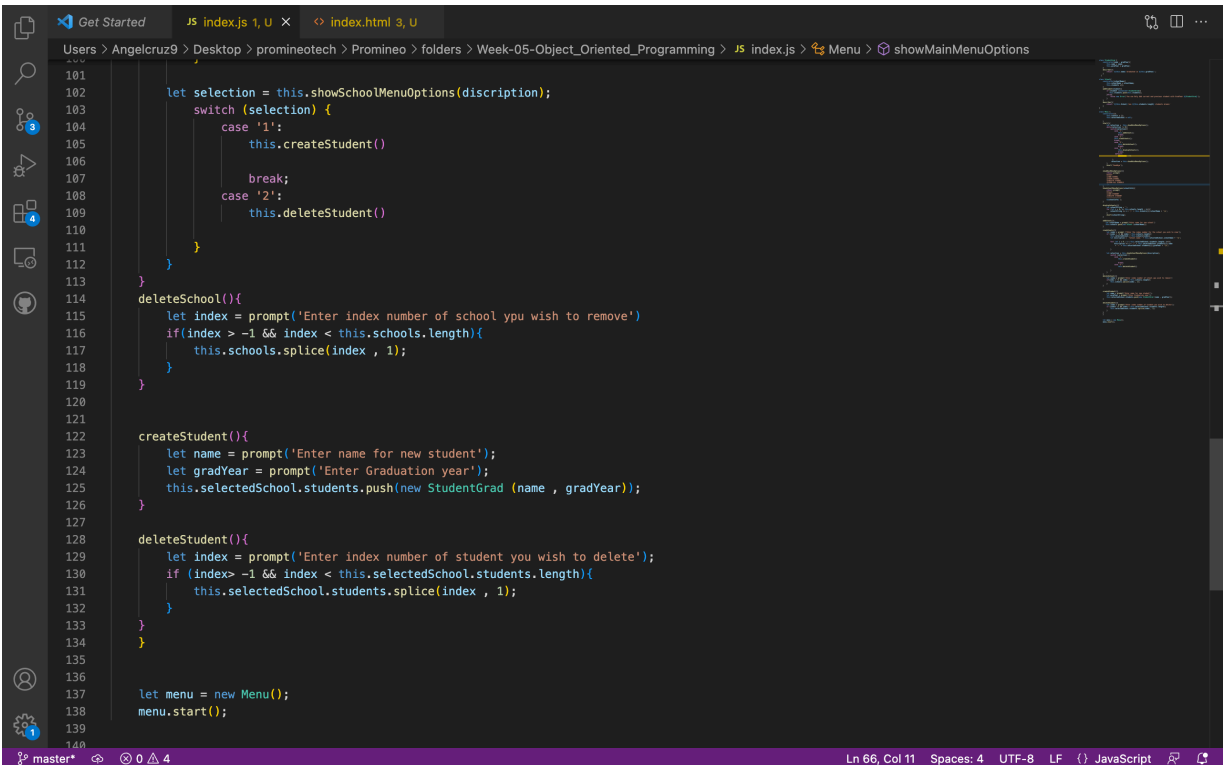
```
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Get Started JS index.js 1, U X index.html 3, U
Users > Angelcruz9 > Desktop > promineotech > Promineo > folders > Week-05-Object_Oriented_Programming > JS index.js > Menu > showMainMenuOptions
39 this.addSchool();
40 break;
41 case '2':
42   this.viewSchools();
43   break;
44 case '3':
45   this.deleteSchool();
46   break;
47 case '4':
48   this.displaySchools();
49   break;
50 default:
51   selection = 0;
52 }
53 selection = this.showMainMenuOptions();
54 }
55 alert('Goodbye');
56 }
57
58
59 showMainMenuOptions(){
60   return prompt(`
61   0)EXIT
62   1)ADD SCHOOL
63   2)VIEW SCHOOL
64   3)DELETE SCHOOL
65   4)VIEW ALL SCHOOLS
66   `);
67 }
68 showSchoolMenuOptions(schoolInfo){
69   return prompt(`
70   0)back
71   1)ADD STUDENT
72   2)DELETE STUDENT
73   -----
74   ${schoolInfo}`);
75 }
76
77 displaySchools(){
78   let schoolString = '';
79   for (let i = 0; i < this.schools.length; i++){

```



```
77 displaySchools(){
78   let schoolString = '';
79   for (let i = 0; i < this.schools.length; i++){
80     schoolString += i + ' ' + this.schools[i].schoolName + '\n';
81   }
82   alert(schoolString);
83 }
84
85 addSchool(){
86   let schoolName = prompt('Enter name for new school');
87   this.schools.push(new School (schoolName));
88 }
89
90 viewSchools(){
91   let index = prompt ('Enter the index number for the school you wish to view');
92   if (index > -1 && index < this.schools.length){
93     this.selectedSchool = this.schools[index];
94     let discription = 'School name:' + this.selectedSchool.schoolName + '\n';
95
96     for( let i = 0 ; i < this.selectedSchool.students.length; i++){
97       discription += i + ' ' + this.selectedSchool.students[i].name
98       + '-' + this.selectedSchool.students[i].gradYear + '\n';
99     }
100
101     let selection = this.showSchoolMenuOptions(discription);
102     switch (selection) {
103       case '1':
104         this.createStudent()
105         break;
106       case '2':
107         this.deleteStudent()
108     }
109   }
110 }
111
112 deleteSchool(){
113   let index = prompt('Enter index number of school ypu wish to remove')
114   if(index > -1 && index < this.schools.length){
115
116
```

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```
101
102 let selection = this.showSchoolMenuOptions(discription);
103 switch (selection) {
104   case '1':
105     this.createStudent()
106     break;
107   case '2':
108     this.deleteStudent()
109 }
110 }
111
112
113
114 deleteSchool(){
115   let index = prompt('Enter index number of school ypu wish to remove')
116   if(index > -1 && index < this.schools.length){
117     this.schools.splice(index , 1);
118   }
119 }
120
121
122 createStudent(){
123   let name = prompt('Enter name for new student');
124   let gradYear = prompt('Enter Graduation year');
125   this.selectedSchool.students.push(new StudentGrad (name , gradYear));
126 }
127
128 deleteStudent(){
129   let index = prompt('Enter index number of student you wish to delete');
130   if (index > -1 && index < this.selectedSchool.students.length){
131     this.selectedSchool.students.splice(index , 1);
132   }
133 }
134
135
136
137 let menu = new Menu();
138 menu.start();
139
140
```

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Screenshots of Running Application:

