PROMINEO TECH

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.
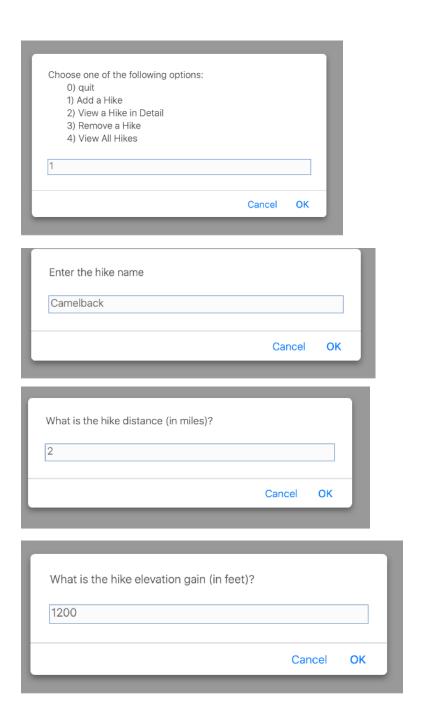
Screenshots of Code:

```
1    /* Week 5 Assignment - Menu App - Hikes
 1   * Use at least two classes, at least one array, menu
 2   * with the option to create, view and delete element */
 3
 4  class Hikes{
 5       constructor(name, distance, elevation){
 6            this.name = name;
 7            this.distance = distance;
 8            this.elevation = elevation;
 9       }
10       hikeStats(){
11            return `${this.name} is ${this.distance} miles long and has ${this.eleva
    tion} feet of elevation gain.`;
12       }
13 }
14
15 class Menu{
16       constructor(){
17            this.hikes = [];
18            this.selectedHike = null;
19       }
20       start(){
21            let choice = this.showMenu();
22            while (choice != 0){
23                 switch (choice){
24                      case '1':
25                           this.addHike();
26                           break;
27                      case '2':
28                           this.viewHike();
29                           break;
30                      case '3':
31                           this.deleteHike();
32                           break;
33                      case '4':
34                           this.viewHikeList();
35                           break;
36                      default:
37                           choice = 0;
38                 }
39            choice = this.showMenu();
40            }
41       }
42       showMenu(){
assignment.js                                              1,39          Top
```

```
40              choice = this.showMenu();
39              }
38          }
37      showMenu(){
36              return prompt(`Choose one of the following options:
35              0) quit
34              1) Add a Hike
33              2) View a Hike in Detail
32              3) Remove a Hike
31              4) View All Hikes`);
30          }
29      addHike(){
28              let hikeName = prompt('Enter the hike name');
27              let hikeDistance = prompt('What is the hike distance (in miles)?');
26              let hikeElevation = prompt('What is the hike elevation gain (in feet)?')
;
25              this.hikes.push(new Hikes(hikeName,hikeDistance,hikeElevation));
24          }
23      viewHike(){
22              let index = prompt("Enter the index of the hike you'd like to view: ");
21              if (index > -1 && index < this.hikes.length){
20                  this.selectedHike = this.hikes[index];
19                  window.alert(`${this.selectedHike.name} is ${this.selectedHike.d
istance} miles long and has ${this.selectedHike.elevation} feet of elevation gain.`);
18              }
17          }
16      viewHikeList(){
15              let hikeList = "";
14              for (let x = 0; x < this.hikes.length; x++){
13                  hikeList += x + ')' + this.hikes[x].hikeStats() + "\n";
12              }
11              alert(hikeList);
10          }
 9      deleteHike(){
 8              let index = prompt('Enter the index of the hike you would like to remove
');
 7              if (index > -1 && index < this.hikes.length){
 6                  this.hikes.splice(index,1);
 5              }
 4          }
 3 }
 2
 1 let menu = new Menu();
80 menu.start();
assignment.js                                        80,13                Bot
```
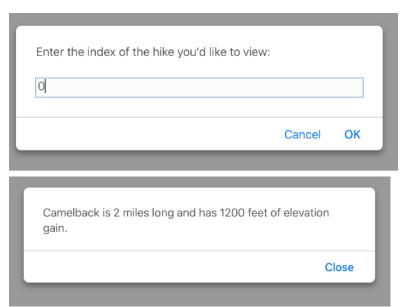
Screenshots of Running Application:

Choose one of the following options:
    0) quit
    1) Add a Hike
    2) View a Hike in Detail
    3) Remove a Hike
    4) View All Hikes

1

Cancel   OK

Enter the hike name

Camelback

Cancel   OK

What is the hike distance (in miles)?

2

Cancel   OK

What is the hike elevation gain (in feet)?

1200

Cancel   OK

Choose one of the following options:
      0) quit
      1) Add a Hike
      2) View a Hike in Detail
      3) Remove a Hike
      4) View All Hikes

2

Cancel   OK

Enter the index of the hike you'd like to view:

0

Cancel   OK

Camelback is 2 miles long and has 1200 feet of elevation gain.

Close

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[At this point, I added a few more hikes using option 1]

Choose one of the following options:
    0) quit
    1) Add a Hike
    2) View a Hike in Detail
    3) Remove a Hike
    4) View All Hikes

    4

                                    Cancel   OK

0)Camelback is 2 miles long and has   1200 feet of
elevation gain.
1)Piestewa is 3 miles long and has   1500 feet of
elevation gain.
2)Humphreys is 9 miles long and has   3000 feet of
elevation gain.

                                                    Close

Choose one of the following options:
    0) quit
    1) Add a Hike
    2) View a Hike in Detail
    3) Remove a Hike
    4) View All Hikes

    3

                            Cancel   OK

Enter the index of the hike you would like to remove

2

Cancel   OK

Choose one of the following options:
　　0) quit
　　1) Add a Hike
　　2) View a Hike in Detail
　　3) Remove a Hike
　　4) View All Hikes

4

Cancel   OK

0)Camelback is 2 miles long and has 1200 feet of elevation gain.
1)Piestewa is 3 miles long and has 1500 feet of elevation gain.

Close

URL to GitHub Repository:

https://github.com/blentz100/Week5

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