

Intro to JavaScript Week 5 Coding Assignment

Points possible: 75

URL to Your GitHub Repository:

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

```
Coding Assign Wk5 > Js index.js > ← Author > ← addBook
           constructor(name, year) { // class will take the book name and year written
               this.name = name;
               this.year = year;
           describe() {
               return `${this.book} was written ${this.year}.`; // class will return the entered book name and year written
       class Author { // created a class named Author
          constructor(name) { //class will take the name of book author
               this.name = name;
               this.books = [];
           addBook(book) { // method to take a book
               if (book instanceof Book) { // check to see if a book is an instance of our book class
    this.books.push(book); // push a new book to the book array
                   throw new Error(`You can only add an instance of Book. Argurment is not a book: ${book}`);
               return `${this.name} has ${this.books.length} books.` // print out the name of author and how many of their books we have
      class Menu {
              this.authors = []; // array to collect multiple authors
               this.selectedAuthor = null; // show a selected author from array
               let selection = this.showMainMenuOptions(); // return the selection the user gives us
               while (selection != 0) { // get users input
JS index.js U X ⇔ index.html U
Coding Assign Wk5 > Js index.js >  43 Author >  9 addBook
                    switch (selection) { // display different selections for the user
                       case '1':
                            this.createAuthor();
                            this.viewAuthor();
                        case '3':
                           this.deleteAuthor():
                            this.displayAuthors();
                           selection = 0:
                    selection = this.showMainMenuOptions():
            showMainMenuOptions() {
               return prompt(
               0) exit
               1) create new author
               2) view author
               4) display all authors
            showAuthorMenuOptions (authorInfo) {
               return prompt(
               0) back
               ${authorInfo}
```

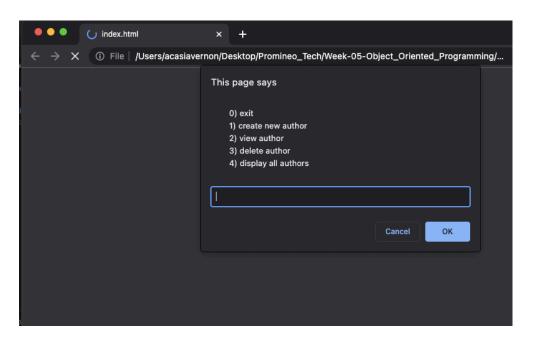


PROMINEO TECH

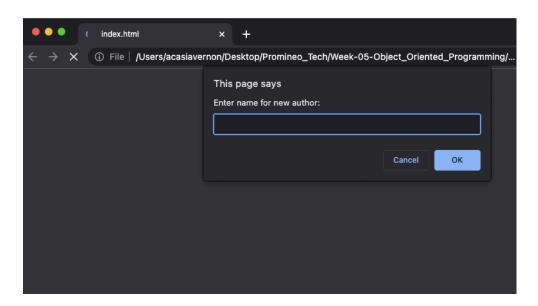
```
Coding Assign Wk5 > Js index.js > ♣ Author > ♠ addBook
          displayAuthors() {
               let authorString = ''; // create a blank string
               for (let i=0; i < this.authors.length; <math>i++) { // iterate through authors
                   authorString += i + ') ' + this.authors[i].name + '\n'; // get the name of each author numbered on a new line
               alert (authorString); // see all the authors
          createAuthor () { // method to create author
               let name = prompt ('Enter name for new author:'); // prompt the user to enter the name of an author
               this.authors.push(new Author(name)); // push new author to authors array
          viewAuthor() { // method to view author
               let index = prompt('Enter the index of the author you wish to view:'); // prompt user to enter index to view selected author
               if (index > -1 && index < this.authors.length) {
                   this.selectedAuthor = this.authors[index]; // set selected author class propterty to the author input by user
                   let description = 'Author:' + this.selectedAuthor.name + '\n';
                  for (let i = 0; i < this.selectedAuthor.books.length; i++) { // for loop to iterate through the selected authors books array
   description += i + ') ' + this.selectedAuthor.books[i].name + ' - ' + this.selectedAuthor.books[i].year + '\n';</pre>
                   let selection = this.showAuthorMenuOptions(description) // pass in description to display author and show options for author
                   switch (selection) { // created options under author - create or delete book
                          this.createBook();
                           this.deleteBook();
          deleteAuthor() { //method to delete author
              let index = prompt('Enter the index of the author you want to delete:'); //prompt user to enter the index of author they want to delete
Coding Assign Wk5 > Js index.js > ← Author > ← addBook
           deleteAuthor() { //method to delete author
                let index = prompt('Enter the index of the author you want to delete:'); //prompt user to enter the index of author they want to delete
                if (index > -1 && index < this.authors.length) {
                    this.authors.splice(index, 1); //delete the author under entered index
           createBook() { //method to create a book
                let name = prompt('Enter name for new book:'); // prompt user to enter the name and year of book
                let year = prompt('Enter year for new book:');
                this.selectedAuthor.books.push(new Book(name, year)); // push the new book, with its name and year, to the selected author's books array
           deleteBook() { // method to delete a book
                let index = prompt('Enter the index of the book you want to delete:'); //prompt user to enter index of book they want to delete
                if (index > -1 && index < this.selectedAuthor.books.length) {
                   this.selectedAuthor.books.splice(index, 1); // delete book under user entered index from the selected author's books array
       let menu = new Menu ();
       menu.start():
```



Screenshots of Running Application:

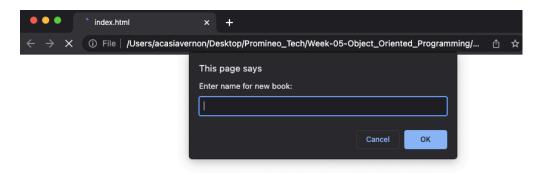


Created an author:

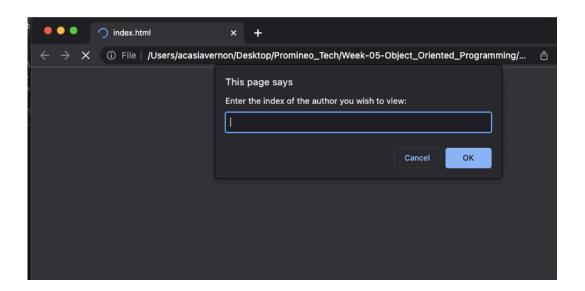




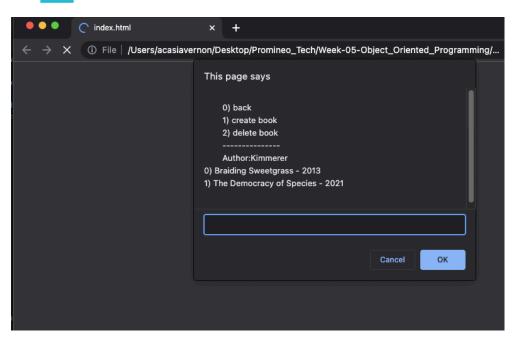
Created books



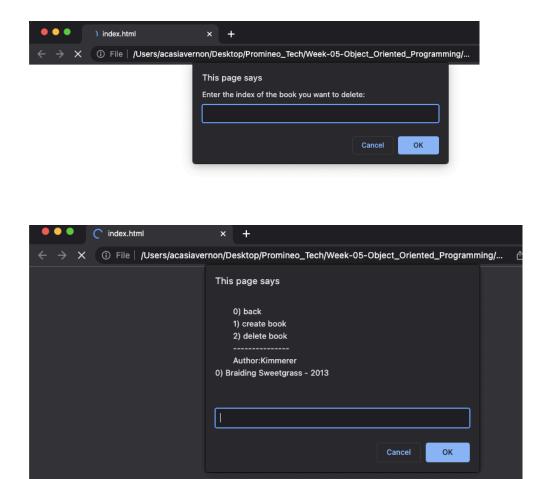
View Author with books displayed





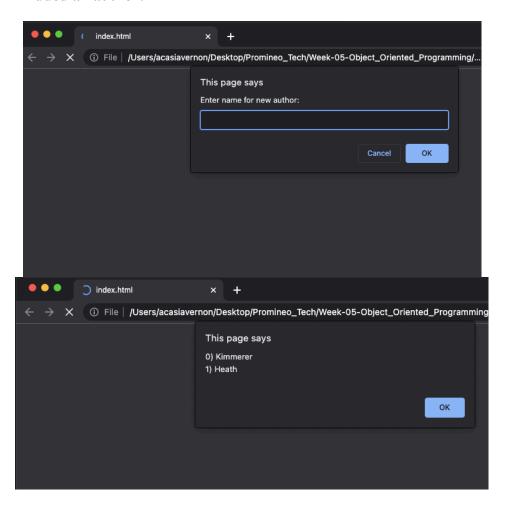


Deleted a book:





Added an author:





Deleted an author:

