Intro to JavaScript Week 5 Coding Assignment

Points possible: 75

URL to Your GitHub Repository: https://github.com/harberts01/week5.git

YouTube URL: https://youtu.be/EnqR7MAX__A

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

menuapp.js > CollectionCreation > viewCollection

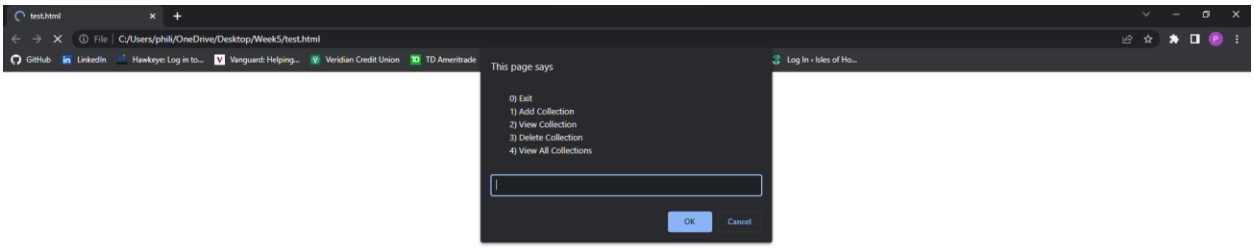
```
class LegoBuild {
    constructor (name, number) {
        this.name = name;
        this.number = number;
    }

    describe() {
        return `The Lego set ${this.name} has the ID number: ${this.number}`
    }
}
class Collection {
    constructor (name){
        this.name = name
        this.legoSets = []
    }

    addLegoSet (legoset){
        if(legoset instanceof LegoBuild) {
            this.legoSets.push(legoset)
        }else {
            throw new Error(`You can only add an instance of LegoBuild. Argument is not a LegoBuild ${legoset}`);
        }
    }

    describe() {
        return `The ${this.name} Collection consists of ${this.legoSets.length} Lego Sets`
    }
}

class CollectionCreation{
    constructor() {
        this.collections = [];
        this.selectedCollection = null;
    }

    start() {
        let selection = this.creationOptions();

        while (selection != 0){
            switch(selection) {
                case '1':
                    this.createCollection();
                    break;
                case '2':
                    this.viewCollection();
                    break;
                case '3':
                    this.deleteCollection();
                    break;
                case '4':
                    this.displayAllCollections();
                    break;
                default:
                    selection = 0;
            }
            selection = this.creationOptions();
        }

        alert('Have a nice day!');
    }


    creationOptions(){
        return prompt(`
        0) Exit
        1) Add Collection
        2) View Collection
        3) Delete Collection
        4) View All Collections
        `)
    }
```

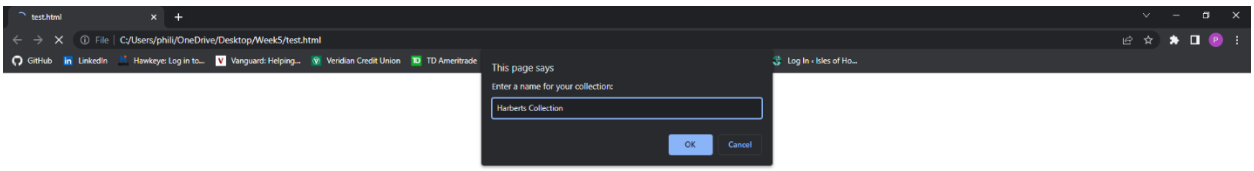
PROMINEO TECH

JS menuapp.js > CollectionCreation > viewCollection

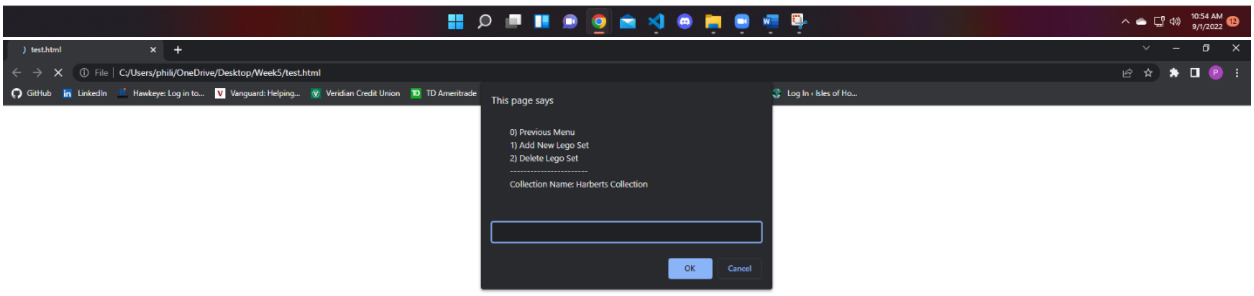
```
    showCollectionMenuOptions(collectionInfo){
        return prompt(`
        0) Previous Menu
        1) Add New Lego Set
        2) Delete Lego Set
        ----------------------
        ${collectionInfo}
        `);
    }

    displayAllCollections(){
        let collectionsString='';
        for(let i=0; i < this.collections.length; i++){
            collectionsString += i + ') ' + this.collections[i].name + '\n';
        }
        alert(collectionsString);
    }

    deleteCollection(){
        let num = prompt('Enter the collection number you would like to delete: ');
        if(num >-1 && num < this.collections.length){
            this.collections.splice(num, 1);
        }
    }

    createCollection(){
        let name = prompt('Enter a name for your collection: ')
        this.collections.push(new Collection(name));
    }

    viewCollection(){
        let num = prompt('Enter the number for the collection you would like to view');
        if (num > -1 && num < this.collections.length){
            this.selectedCollection = this.collections[num];
            let description = 'Collection Name: ' + this.selectedCollection.name + '\n';

            for(let i = 0; i < this.selectedCollection.legoSets.length; i++){
                description += i + ') ' + this.selectedCollection.legoSets[i].name + ' - '+ this.
                selectedCollection.legoSets[i].number + '\n';

            }


        let selection = this.showCollectionMenuOptions(description);

        switch (selection){
            case '1':
                this.createLegoSet();
                break;
            case '2':
                this.deleteLegoSet();
            }
    }}

    createLegoSet(){
        let name = prompt('Enter Name of Lego Set')
        let number = prompt('Enter Build Number for Lego Set: ')
        this.selectedCollection.legoSets.push(new LegoBuild(name, number));
    }

    deleteLegoSet(){
        let num = prompt('Enter the listed number for the Lego Set you would like to delete: ')
        if(num >-1 && num < this.selectedCollection.legoSets.length){
            this.selectedCollection.legoSets.splice(num, 1);
        }
    }
}

let startCollection = new CollectionCreation();
startCollection.start();
```

Screenshots of Running Application:





test.html
File | C:/Users/phili/OneDrive/Desktop/Week5/test.html
GitHub
LinkedIn
Hawkeye: Log in to...
Vanguard: Helping...
Veridian Credit Union
TD Ameritrade
Log In ‹ Isles of Ho...
This page says
Enter the number for the collection you would like to view
0
OK
Cancel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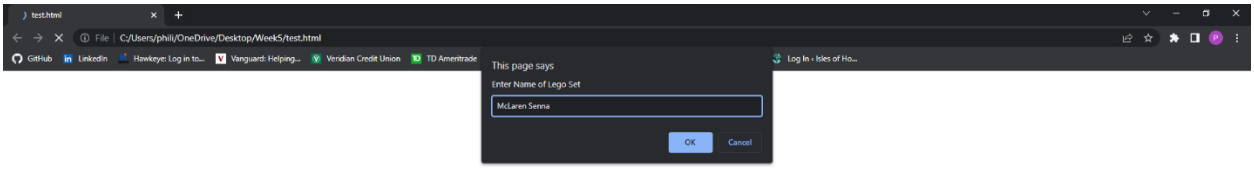
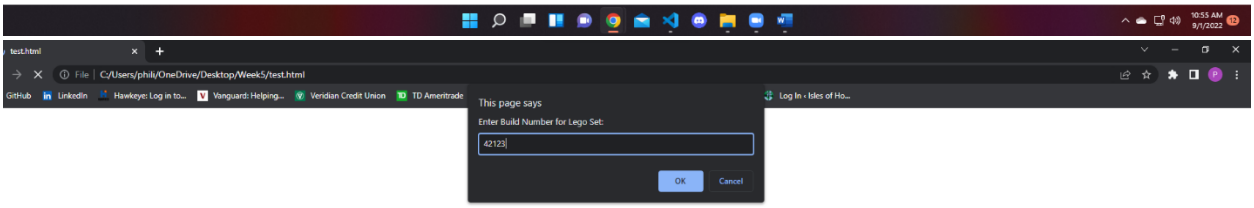
This page says
0) Previous Menu
1) Add New Lego Set
2) Delete Lego Set

Collection Name: Harberts Collection
OK
Cancel

PROMINEO TECH





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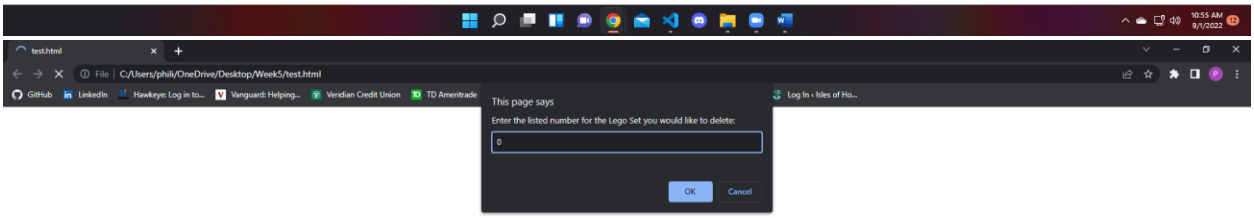
This page says
0) Previous Menu
1) Add New Lego Set
2) Delete Lego Set
Collection Name: Harberts Collection
0) McLaren Senna - 42123
OK
Cancel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Enter the listed number for the Lego Set you would like to delete:
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OK
Cancel

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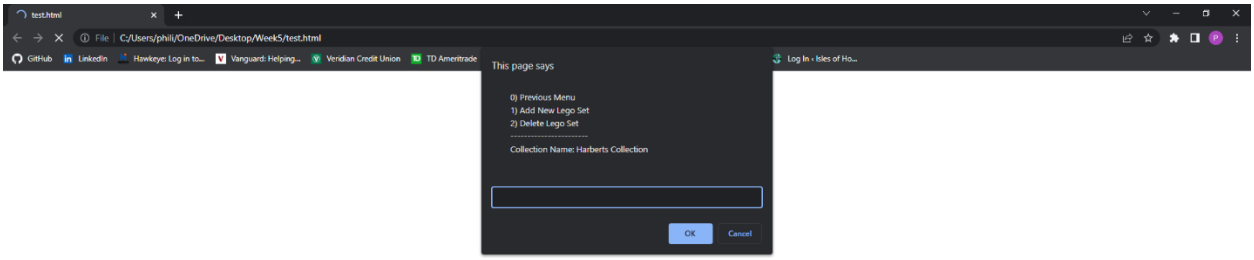

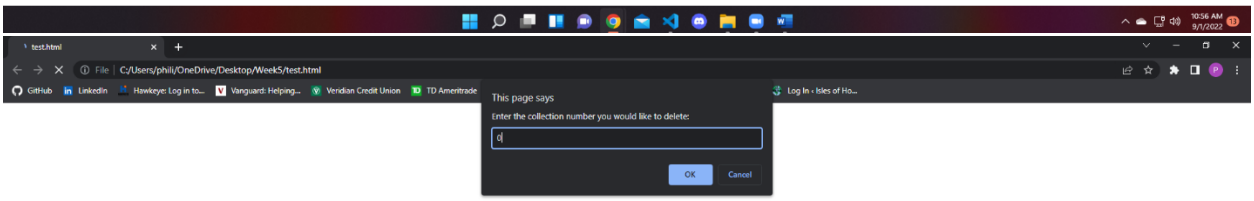

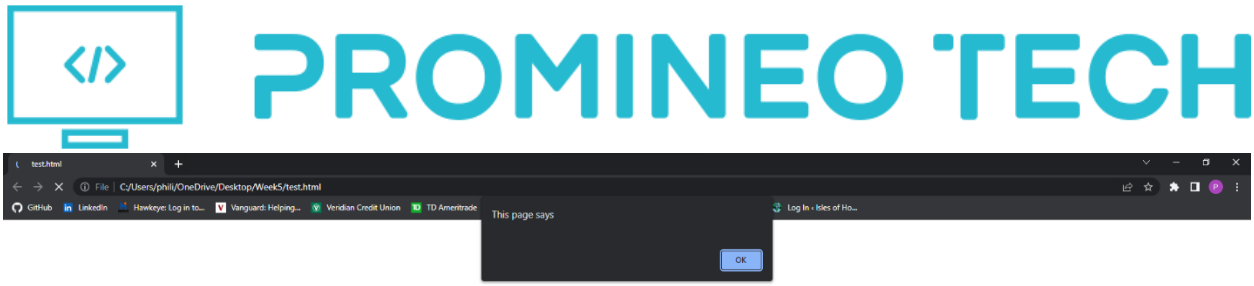
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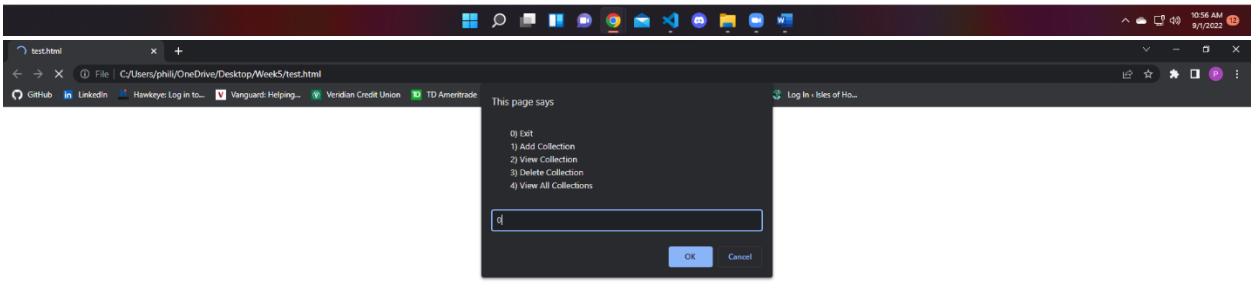
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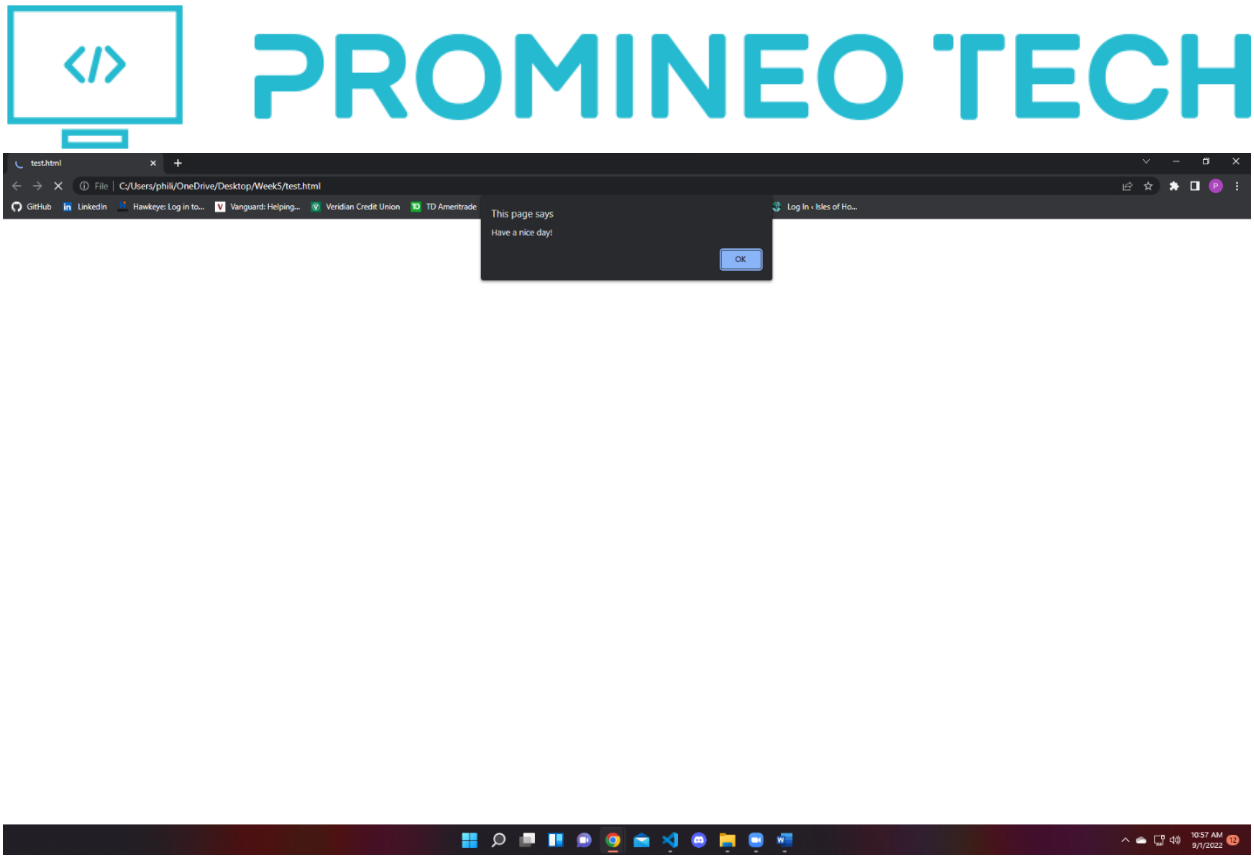
2) View Collection
3) Delete Collection
4) View All Collections
0
OK
Cancel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This page says
Have a nice day!
OK
10:57 AM
9/1/2022