



## Intro to JavaScript Week 5 Coding Assignment

**Points possible:** 75

**URL to Your GitHub Repository:**

<https://github.com/pat-in-a-hat/week-5-tamagoppy-menu>

**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

```
//Yes, the daycare also sells scissors and counts how many you own
buyScissors() {
  let payment = prompt('To purchase a pair of our deluxe snippers, please enter your preferred form of payment')
  let counter = this.scissorCount
  if (payment >= this.scissorCost){
    this.scissorCount += 1
    if (this.scissorCount > 1){
      alert('You successfully purchased a pair of scissors! You now own ${this.scissorCount} pairs of scissors.')
    } else {
      alert('You successfully purchased a pair of scissors! You now own ${this.scissorCount} pair of scissors.')
    }
  } else {
    alert('Scissors ain't free, honey. Come back when you got the goods.')
  }
}

describe(){
  alert('Welcome to ${this.name}! You currently have ${this.tamagoppys.length} tamagoppys in our tender, loving, extra sharp care.')
}
}

//Menu class to actually run the display and show options to the user
class Menu {
  constructor () {
    //this.tamagoppylist = []; ended up storing this in the daycare class
    //this.selectedTamagoppy = null; thought I might use this to toggle to a specific pet but left it
    this.daycare = new Daycare(); //this creates an instance of daycare because we only want 1 and we can now reference it
  }

  //custom start screen you only see once
  start(){
    this.daycare.describe()
    let begin = this.mainMenu();
  }

  //main menu that invokes the menuScreen list and has interactive options
  //took LOONG time to get this to work without just closing with a bad command
  //figured out "cancel" in prompt leads to null input, so fixed the while loop to only end on null
  //and had to make another method that threw you back to main menu if the input was bad
  //not sure I'd use a while loop here in the future, although this works nicely now
  mainMenu(){
    let selection = this.menuScreen();

    while (selection != null) {
      switch (selection) {
        case '1':
          this.createTamagoppy();
          break;
        case '2':
          this.viewTamagoppys();
          break;
        case '3':
          this.disposeTamagoppy();
          break;
        ...
      }
    }
  }
}
```



# PROMINEO TECH

```
JS week5menuchallenge.js X week5htmlshell.html
Users > patrickwarner > Documents > Montana_Code_School > Week-05-Object_Oriented_Programming > Week-5-Menu_Challenge > JS week5menuchallenge.js > ...
1 //Promineo Week 5 Coding Challenge
2 //Code written by Patrick Warner
3 //September 2022
4
5 /*The plan for this project is to utilize a series of classes, arrays and prompts to view a "menu"
6 where one can create, view, and delete elements
7 */
8 //we are building a rudimentary start screen menu for a rip off game called Tamagoppy
9
10 class Tamagoppy {
11   constructor(name,color) {
12     this.name = name;
13     this.color = color;
14     this.health = 5; // added these in case I wanted to actually make an interactive game later
15     this.weight = 15; // was going to have feeding etc... but that was too involved
16   }
17
18   describe(){
19     return `Your pet tamagoppy, ${this.name}, is a beautiful ${this.color} and weighs ${this.weight} kilos`;
20   }
21 }
22
23
24 class Daycare {
25   constructor(){
26     this.name = "Sally's Scissors and Tamagoppy Daycare Emporium";
27     this.tamagoppys = []; // to store any created tamagoppys
28     this.scissorCost = 10;
29     this.scissorCount = 0;
30     //this.selectedTamagoppy = null; didn't end up using this, just the storage array
31   }
32
33   //a method to add a new tamagoppy to the storage array. error line probably not necessarily as its filtered
34   //already in the menu class
35   addTamagoppy(goppy) {
36     if (goppy instanceof Tamagoppy) {
37       this.tamagoppys.push(goppy);
38     } else {
39       throw new Error('This tamagoppy does not exist. Perhaps it is a figment of your imagination?')
40     }
41   }
42
43   //method used to remove tamagoppys from the list. Tried to use the filter function but it was being funky so instead
44   //just splicing the chosen deletion out of the list by passing its index into the method
45   removeTamagoppy(i) {
46     console.log(i)
47     if (this.tamagoppys[i] instanceof Tamagoppy){
48       //console.log(this.tamagoppys[i])
49       alert(`${this.tamagoppys[i].name} has been removed...`
50
51       `${this.tamagoppys[i].weight} pounds you no longer have to deal with`)
52       //console.log(this.tamagoppys)
53       this.tamagoppys.splice(i,1);
54       //console.log(this.tamagoppys)
55     } else {
56       alert('Looks like Bob took a smoke break... Please come again soon.')
57     }
58   }
59 }
```

## Screenshots of Running Application:



# PROMINEO TECH

mming/Week-5-Menu\_Challenge/week5htmlshell.html

127.0.0.1:3000 says

Type 1 to create a new tamagoppy  
Type 2 to view the tamagoppys in our care  
Type 3 for tamagoppy disposal services  
Type 4 to purchase a pair of our world class clippahs

Press cancel to exit

Cancel

OK

X ⓘ 127.0.0.1:3000/Users/patrickwarner/Documents/Montana\_Code\_School/Week-05-Object\_Oriented\_Programming/Week-5--Menu\_Challenge/week5htmlshell.html

127.0.0.1:3000 says

Welcome to Sally's Scissors and Tamagoppy Daycare Emporium!  
You currently have 0 tamagoppys in our tender, loving, extra sharp  
care.

OK