Javascript Specialist Designation Program

Lab Exercise #16

We're now at our last chapter in the Javascript course! We're going to create an object named Phone and pass in 3 keys to specify a specific phone.

Lab Instructions

1) Run your Brackets development environment, create a new file and quickly save it under the file name **final_javascript_lab.html**

2) Key in the basic HTML document structure and set **Lab #16** as the content for the title tag.

3) In the body of the HTML document add a heading 1 tag with the content, "Creating an object".

4) We're going to create three input boxes then give each of them a unique id and placeholder.

The first input box should have an id of "phoneModel" and placeholder of "Model" so the user knows what to input.

The second input box should have an id of "phoneColor" and a placeholder of "Color".

The last input box should have an id of "phoneNetwork" and a placeholder of "Network"

Under the input boxes open a button tag, give it an id of "submitBtn" and content of "Show Object". Close the tag.

Your code should look something like this:

```html
<h1> Creating an object </h1>
<input type='text' id='phoneModel'
placeholder='Model' />
<input type='text' id='phoneColor'
placeholder="Color" />
<input type='text' id='phoneNetwork'
placeholder="Network" />
<button id='submitBtn'> Show Object
</button>
```

5) Now for some Javascript. Create a separate Javascript file and quickly save it as **main.js**.

Link the HTML file to the Javascript file.

6) Open your **main.js** file and create a window.onload function. Inside this function search the document for an element with the id "submitBtn", then attach an event listener and on "click" invoke "createPhone".

```javascript
window.onload = function() {
document.getElementById('submitBtn').addE
ventListener('click', createPhone)
}
```

Create the createPhone() function.

Inside the createPhone() function, we're going to first declare three variables and initialize them with the value of each input box.

Each variable will have the same name as its corresponding input id.

For example:

```javascript
var phoneModel =
document.getElementById('phoneModel').value
```

Go ahead and create the other two variables, "phoneColor" and "phoneNetwork".

9) Still inside the "createPhone()" function, declare a new variable named "newPhone" then initialize it with a new instance of the Phone class which takes in 3 parameters, "phoneModel, phoneColor, phoneNetwork).

Console log the variable "newPhone".

Your function should look something like this:

```
function createPhone() {

  var phoneModel =
  document.getElementById('phoneModel').v
  alue;

  var phoneColor =
  document.getElementById('phoneColor').v
  alue;

  var phoneNetwork =
  document.getElementById('phoneNetwork')
  .value;

  var newPhone = new Phone(phoneModel,
  phoneColor, phoneNetwork);

  console.log(newPhone);

}
```

10) Great! Now for the final step which is the class. Create the class with the name Phone (with a capital P). It will take 3 parameters for its keys – phoneModel, phoneColor, phoneNetwork.

Using the this keyword, we will assign values to that instance. "Model" will be assigned to phoneModel. "Color" will be assigned to phoneColor. "Network" will be assigned to phoneNetwork.

```
function Phone(phoneModel, phoneColor,
phoneNetwork) {

  this.Model = phoneModel;

  this.Color = phoneColor;

  this.Network = phoneNetwork;

}
```

11) Click File Save to save the current version of your document. Navigate to the HTML document using your operating system and double click it. The document should open in your default browser.

Add your favorite model of phone, your favorite color and your favorite network then click "Show Object". Check your console!

Challenge Yourself

Enhance your skills by attempting the exercises below.

1) Write a JavaScript program to remove items from a dropdown list. Look up the remove() function.

2) Put your site on the web. We've arranged a special deal with Blue Host. Visit **http://www.bluehost.com/track/learntoprogra m/** and click "Get Stated Now." You will be able to access web hosting plans as low as $3.49 a month. Once Blue Host takes you through the process of creating your domain and web server upload your lab and post the URL for the others in the class to see.