JavaScript: Calling Functions

Calculating Average & Creating Forms

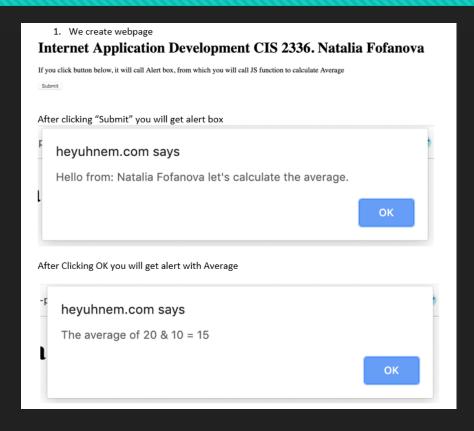
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CIS 2336

Wednesday 5:30 pm - 7pm

Create webpage to Calculate Average

- The goal of this assignment is to create a simple webpage with a button that prompts the user with 2 dialogue boxes.
- First dialogue box should display a statement of introduction and what is going to happen when user clicks ok.
- Second dialogue box should display the arithmetic and the result of it using JavaScript.
- To start create a JS and HTML file where your going to write your website and function.



Start with JavaScript

- Its best to start with JavaScript because we can make an average function easy.
- Call all variables that will be needed for this assignment (Firstname, Lastname, a and b)
- "a and b" can be any number

```
example is a second sec
```

Creating Our First Function

- Once all variables have been called we make our first function to solve the arithmetic side.
- O Since we are making a simple average function we will use this equation to get out average.
- Note that if we needed to get user input we would have to use arrays in our equation.

```
function getAverage(a,b){
    return (a+b) / 2;
}
```

Creating Alert boxes

- We create another function that can be named as you see fit
- Use alert(); and add info required as shown in the image.

```
alert("Hello from: " + Firstname + " " + Lastname + " " + "let's calculate the average.");
alert("The average of " + a + " & " + b + " = " + getAverage(a, b));
}
```

Moving to HTML

- Set it up as a normal HTML page first
- Then add <script> tags inside the <head> tag
- In the opening <script> tag write type and src of the .js file.
- O There is two script tags because without it when you call the function it wont work for some reason.

```
<script type="text/javascript" src="example.js"></script>
<script>
</script>
```

Making Our Button

- Once the location of the .js file has been determined in HTML its time for creating our button.
- Creating <button> tag is the next thing to do (inside body tag).
- Just make the onClick = "myFunction()"
- And that's all it take to make a webpage with a button to find average.

<button type="button" onclick="myFunction()">Click me!</button>

Creating A Form in HTML

- Start off by making a html and setting up the basics
- In the body use <form> tags to create a form
- Add desired info and create input tag as shown in picture
- Once its done close it

```
<html>
<head>
   <link rel="stylesheet" href="FormStyle.css">
</head>
   <body>
       <form>
       First name: <input type="text" name ="fname" required pattern = "[A-Za-z]+"><br>
       Last name: <input type="text" name = "lname" required><br>
       Email: <input type = "text" name = "email" required><br>
       Phone: <input type = "text" name = "phone" size = 12
               required pattern = "[0-9]{3}[ -][0-9]{4}"><br>
       <button type = "submit" value = "Submit">Submit
       <button type = "reset" value = "Reset">Reset</button>
       </form>
   </script>
   </body>
</html>
```

Styling Our Form

- Using CSS you can style the form any way you would like
- Or you can leave them default
- For my case I styled them as shown in the picture

```
/* Style inputs with type="text", select elements and textare
 input[type=text], select, textarea {
  width: 30%; /* Full width */
  padding: 12px; /* Some padding */
  border: 1px solid #ccc; /* Gray border */
  border-radius: 4px; /* Rounded borders */
  box-sizing: border-box; /* Make sure that padding and width
  margin-top: 6px; /* Add a top margin */
  margin-bottom: 16px; /* Bottom margin */
  resize: vertical /* Allow the user to vertically resize the
 /* Style the submit button with a specific background color e
 input[type=submit] {
  background-color: #4CAF50;
  color: white;
  padding: 12px 20px;
  border: none;
  border-radius: 4px;
  cursor: pointer;
/* When moving the mouse over the submit button, add a darker
input[type=submit]:hover {
  background-color: #45a049;
/* Add a background color and some padding around the form */
- .container {
  border-radius: 5px;
  background-color: #f2f2f2;
  padding: 20px;
```

First name:	
Last name:	
Email:	
Phone:	
Submit Reset	