

Exercise 3: HTML and JavaScript

This exercise will give you a feel for how to use HTML and JavaScript together. You'll build a page that has a text box for first and last name, and then when you click a button, it will display the full name.

Simple HTML and JavaScript

1. Create a new file and paste in text for empty HTML.

```
<!DOCTYPE HTML>
<html>
<body>

</body>
</html>
```

2. Inside the `<body>` tags, add a paragraph that contains the text "First name" and then a text box for entering a first name. The text box is created with the **input** tag. Give it an **id** attribute of "first".

```
<p>First name: <input type = "text" id="first"></p>
```

3. Under that, add a second paragraph for last name. The **id** attribute should have a value of "last".
4. Next, add a button with an **onclick** attribute with a value of "getName()". Give it some text, like "Click me". The **getName()** function will be called when the button is clicked.

```
<button onclick="getName()">Get Name</button>
```

5. Then add an empty paragraph with an **id** attribute of "fullName".
6. Finally, add a script element that contains a function called **getName**. It will set the inner HTML of the **fullName** paragraph with a string. Note that you need to add a space in between the first and last name.

```
<script>
function getName() {
    fullName.innerHTML =
        "Full name: " + first.value + " " + last.value;
}
</script>
```

Your full code should look like this:

```
<!DOCTYPE HTML>
<html>
<body>

<p>First name: <input type = "text" id="first"></p>

<p>Last name: <input type = "text" id="last"></p>

<button onclick="getName()">Get Name</button>

<p id="fullName"></p>

<script>
function getName() {
    fullName.innerHTML =
        "Full name: " + first.value + " " + last.value;
}
</script>

</body>
</html>
```

Save it as **JavaScriptAndHtml.html**, and open it in the browser. Put in a first and last name and click **Get Name**.

Add a Second Button

Hopefully you understood that, but just in case, I am going to test you by having you add a second button. Add a second button that says “Last Name First”. When you click it, it calls a new function that replaces the **fullName** paragraph with the last name, a comma, and then the first name. You can name the button and function whatever you want. The function can be between the same script tags as the first function.

In other words, Janet Smith should appear as “Smith, Janet” when you click the “Last Name First” button. Make sure there is a space after the comma. (You are a writer, after all!)

If you have trouble, don’t forget to open the JavaScript console and see if it gives you a hint as to why it’s not working. Search on “JavaScript Browser” and your browser’s name. For example, in Firefox, it’s called the Browser Console. In Safari, it’s the Developer Console, and in Internet Explorer, it’s the Script Console.

If you really have trouble getting it working, you can see how I did it here:

<http://sdkbridge.com/prog1/Exercise3Answers.pdf>.