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Script Use and Augmentation: Unit 4

Script #1:

This is an example of an **onClick** Script that someone has created in JavaScript. The `onClick` is used to execute something when a user clicks on a button, link, etc.

```
<script>
function ss()
{
alert("Thank you!")
}
</script>
<form>
<input type="button" value="Click here" onclick="ss()">
</form>
```

(Retrieved from:<https://www.codeproject.com/articles/755/javascript-for-beginners>)

Critique for Script #1:

- Lack of use of the script type "text/javascript" on the starting tag
- Lack of proper indentation

- Should name the function instead declaring it as “ss”
- It’s good practice to add a semicolon “;” after the alert method
- Lack of comments to explain the use of the “ss” function

The first critique I have for this code is that there is no proper indentation. Proper indentation is used to make code more readable, easier to edit, keep things organized, and to match up branches and present the logic of the program. The second thing that stuck out was the lack of comments. Comments help identify the code to anyone who may come across it in the future. This is a good practice to maintain when using JavaScript. The third thing I identified as bad practice was the use of “ss” as a declaration of a function. As good practice you should always give a function a specific Name in order to find it later. It will need an individual name you will remember to do this. Most likely something associated to its function. The fourth item I identified was they forgot to use the "text/javascript" on the starting tag. This is not wrong, yet again it is bad practice. Lastly, there was a small punctuation mistake I found in the script. I noticed there was no semicolon “;” after the alert method. This would still allow the code to work but it is not proper punctuation and is very bad practice.

Good practices for Script #1:

- All tags are in the correct order
- The code is in working order

I did find a few positive practices with this script. I found that all the tags were in order. This is extremely important when programming in JavaScript, and the second thing I found was the script, with all its errors, did work when tested.

Script #1: Rewrite

```

/* ---This function pops up an alert when clicking on a button -- */
<script type="text/javascript" >
function showAlert()           //defining the showAlert function
    {
        alert("Thank you!");   //defining an alert method to display the alert
    }
</script>
<form>
    <input type="button" value="Click here" onclick=" showAlert()"> //---using
input tag as button that displays the alert "Thank you" upon clicking by calling the showAlert
function--*/
</form>

```

Here I added Comments to the script to identify what it is, and what I have done. I also properly indented the script in order to match up the branches and make it more organized and readable. I declared the should name the function as “showAlert” instead of “ss” in order to find it easier. To maintain good JavaScript practice, I added the "text/javascript" on the start of the script tag. Lastly, I added the semicolon “;” after the alert method for good practice.

Template for Mapping Your Activities to Learning Outcomes

Learning Outcome	Evidence of Meeting the Learning Outcome	Your Own Assessment of the Grade You Believe Would Be Appropriate	Tutor's Justification of Grading (optional)
Apply a structured approach to identifying needs, interests, and functionality of a website.		A, B, C, D	
Design dynamic websites that meet specified needs and interests.		A, B, C, D	
Write well-structured, easily maintained, standards-compliant, accessible HTML code.		A, B, C, D	
Write well-structured, easily maintained, standards-compliant CSS code to present HTML pages in different ways.		A, B, C, D	
Use JavaScript to add dynamic content to pages.	I believe the Javascript content I decided to use will give my webpage something extra. An appreciation to my users by adding a "Thank-You" Alert after they enter their information into the comment box and click ok.	B,	
Critique JavaScript code written by others,	In my opinion I did a good job critiquing the	A,	

<p>identifying examples of both good and bad practice.</p>	<p>JavaScript code I found. I was able to identify 5 bad practices and 2 good practices. I believe I was able to successfully rewrite the code into proper JavaScript standards.</p>		
<p>Select appropriate HTML, CSS, and JavaScript code from public repositories of open source and free scripts that improves your site and that enhances the experience of site visitors.</p>		<p>A, B, C, D</p>	
<p>Modify existing HTML, CSS, and JavaScript code to extend and alter its functionality, and to correct errors and cases of poor practice.</p>		<p>A, B, C, D</p>	