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6/11/2023

Week 10 Research Assignment

1. **List and explain the JavaScript methods that enable us to select elements from the DOM.**

In JavaScript, there are several methods that allow us to select elements from the DOM (Document Object Model). These methods provide a way to access and manipulate HTML elements dynamically. Here are some commonly used methods:

1. `getElementById`: This method allows us to select an element by its unique ID attribute. It returns the element as an object.

2. `getElementsByClassName`: This method enables us to select elements based on their class name. It returns a collection of elements that match the specified class name.

3. `getElementsByTagName`: This method selects elements by their HTML tag name. It returns a collection of elements that have the specified tag.

4. `querySelector`: This method allows us to select elements using CSS selectors. It returns the first matching element.

5. `querySelectorAll`: Similar to `querySelector`, this method selects elements using CSS selectors but returns all matching elements in a collection.

These methods provide powerful ways to traverse and manipulate the DOM in JavaScript, making it easier to interact with and modify web page content.

1. **What is the document object? What are some other methods available on the document object that don't select elements from the DOM?**

The document object represents the HTML document in JavaScript. It serves as the entry point for accessing and manipulating the content of a web page. Apart from the methods mentioned earlier for selecting elements from the DOM, the document object also provides other useful methods. Here are a few examples:

1. `createElement`: This method creates a new HTML element specified by its tag name. It returns the newly created element as an object.

2. `createTextNode`: This method creates a new text node with the specified text. Text nodes are used to add or modify textual content within HTML elements.

3. `querySelector`: Although this method was mentioned earlier for selecting elements, it can also be used without the document object to select elements within a specific context, such as within a particular element.

4. `write`: This method is primarily used for testing purposes. It writes a string of HTML or text directly into the HTML document at the current position.

**References**

<https://developer.mozilla.org/en-US/docs/Web/CSS/clearfix>

<https://developer.mozilla.org/en-US/docs/Web/API/Document>