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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.

2. 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>