

1. Selecting Elements (DOM Traversal)

- `document.getElementById(id)`: Selects an element by its ID.
- `document.getElementsByClassName(className)`: Selects elements by class name.
- `document.getElementsByTagName(tagName)`: Selects elements by tag name.
- `document.querySelector(selector)`: Selects the first element matching a CSS selector.
- `document.querySelectorAll(selector)`: Selects all elements matching a CSS selector.

2. Modifying Elements

- `element.innerHTML = "New content"`: Changes the inner HTML.
- `element.textContent = "New text"`: Changes only text content (ignores HTML tags).
- `element.setAttribute(name, value)`: Sets an attribute.
- `element.getAttribute(name)`: Gets an attribute value.
- `element.removeAttribute(name)`: Removes an attribute.
- `element.classList.add("className")`: Adds a CSS class.
- `element.classList.remove("className")`: Removes a CSS class.
- `element.classList.toggle("className")`: Toggles a CSS class.

3. Creating and Removing Elements

- `document.createElement(tagName)`: Creates a new HTML element.
- `document.createTextNode(text)`: Creates a text node.
- `parent.appendChild(child)`: Appends a child element.
- `parent.insertBefore(newElement, referenceElement)`: Inserts before a reference element.

- `parent.removeChild(child)`: Removes a child element.
- `parent.replaceChild(newElement, oldElement)`: Replaces an element.

4. Event Handling

- `element.addEventListener(event, callback)`: Attaches an event listener.
- `element.removeEventListener(event, callback)`: Removes an event listener.
- `event.preventDefault()`: Prevents default behavior (e.g., stopping form submission).
- `event.stopPropagation()`: Stops event bubbling.

5. Traversing the DOM (List Nodes)

- `element.parentNode`: Gets the parent node.
- `element.children`: Gets all child elements.
- `element.firstChild`: Gets the first child node (includes text nodes).
- `element.firstElementChild`: Gets the first child element.
- `element.lastChild`: Gets the last child node.
- `element.lastElementChild`: Gets the last child element.
- `element.nextSibling`: Gets the next sibling (includes text nodes).
- `element.nextElementSibling`: Gets the next sibling element.
- `element.previousSibling`: Gets the previous sibling (includes text nodes).
- `element.previousElementSibling`: Gets the previous sibling element.

6. Working with Lists (`ul`, `ol`, `li`)

- `ul.appendChild(li)`: Adds a new list item.
- `ul.insertBefore(newLi, existingLi)`: Inserts a new list item before an existing one.
- `ul.removeChild(li)`: Removes a list item.
- `li.textContent = "Item 1"`: Changes list item text.

import into the document form