

Web Assignment 1

Basic HTML -> JS

Q1) HTML & Variable Update

- **Task:**
 - Create an HTML page with a header (<h1>) and a paragraph (<p id="message">).
 - In JavaScript, declare a variable (e.g., let greeting = "Hello, World!") and use DOM manipulation to update the paragraph text with this value.

Q2) Bonus: Interactive Counter

- **Task:**
 - Create two buttons: "Increment" and "Decrement".
 - Declare a counter variable (e.g., let count = 0) and display its value in a .
 - Write functions to update and display the counter when each button is clicked.

Q3 Make a Calculator

- **Task:**
 - Create four separate functions in JavaScript for addition, subtraction, multiplication, and division.
 - Each function should accept two parameters and return the result.
 - Call these functions with different numbers and log the results to the console.

Q4) HTML & Variable Update

- **Task:**
 - Create an HTML page with a header (<h1>) and a paragraph (<p id="message">).
 - In JavaScript, declare a variable (e.g., let greeting = "Hello, World!") and use DOM manipulation to update the paragraph's text with this value.

Q5) Display Array Items in an HTML List

- **Task:**
 - Create an HTML page with an empty unordered list (e.g., <ul id="list">).
 - In your JavaScript, declare an array with several items (for example, names of your favorite animals).

- Write a function that loops through the array and, for each item, creates a new list element (), sets its text to the array item, and appends it to the unordered list.
- **Reference YouTube Video:**
[JavaScript DOM Tutorial for Beginners - Programming with Mosh](#)

Q6) Toggle Element Visibility

- **Task:**
 - Create an HTML page with a button and a content element (such as a <div> or <p>).
 - Write a JavaScript function that toggles the visibility of the content element each time the button is clicked. (Hint: You might change the element's CSS display property between "none" and "block" or "inline".)
- **Reference YouTube Video:**
[JavaScript Crash Course for Beginners - Traversy Media](#)

Here are some short YouTube video links covering HTML, JavaScript, JavaScript Arrays, DOM manipulation, and related topics:

- **HTML Guide:** <https://youtu.be/UB1O30fR-EE>
- **JavaScript Guide:** <https://youtu.be/hdl2bqOjy3c>
- **JavaScript Arrays:** <https://youtu.be/R8rmfD9Y5-c>
- **JavaScript DOM Tutorial:** <https://youtu.be/0ik6X4DJKCc>
- **Build a Calculator in JavaScript:** <https://youtu.be/ox8qRJJoxkl>