



Assignment 8



Project 1: Text Analyzer

◆ Objective:

Create a simple application where the user types text in a `<textarea>`, and when they click the button:

- It shows how many **words** are in the text.
 - It shows how many **characters** (letters, spaces, etc.) are in the text.
 - It converts the full text to **uppercase** and **lowercase** versions.
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Concepts Used:

- `text.length`: counts all characters in the string.
- `text.split(" ")`: splits the string into an array of words.
- `.trim()`: removes spaces from the beginning and end.
- `.toUpperCase()`, `.toLowerCase()`: changes the case of the text.



Project 2: Number Analyzer

◆ Objective:

Create an app where the user writes a number in an `<input>` field, and when they click the button, they see:

- The number **multiplied by 2**
 - The number **rounded** to the nearest integer
 - The number shown with **3 decimal places**
 - A **random decimal number** between 0 and 1
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Concepts Used:

- `parseFloat()`: converts string input to decimal.
- `Math.round()`: rounds the number to the nearest whole number.
- `toFixed(3)`: keeps 3 digits after the decimal point.
- `Math.random()`: generates a random number from 0 to 1.