

HTML & JavaScript Temperature Conversion Program

Objective

Create a responsive web-based Temperature Conversion Program using HTML, CSS (Bootstrap), and JavaScript.

Technologies Used

- HTML for structure
- CSS and Bootstrap for styling and layout
- JavaScript for functionality (temperature conversion, event handling)
- Bootstrap Modal for error handling interface

UI Features

- Two input fields for Celsius and Fahrenheit
- Two buttons: 'C to F' and 'F to C'
- Error modal pop-up for invalid inputs
- Styled with Bootstrap for modern appearance and responsiveness

Conversion Logic (JavaScript)

- C to F: $\text{Fahrenheit} = (\text{Celsius} \times 9/5) + 32$
- F to C: $\text{Celsius} = (\text{Fahrenheit} - 32) \times 5/9$
- Uses `parseFloat` and `isNaN` to validate input
- Uses Bootstrap's Modal instance for error feedback

How it Works

1. User enters a value in Celsius or Fahrenheit.
2. Clicking the corresponding button triggers a JS function.

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3. Input is validated and converted using standard formulas.
4. Result is displayed in the other input field.
5. If input is invalid, an error modal is shown.

File Name

temperature.html