

DOM Challenge 2

index.html — Your webpage

This file creates the structure of your page. It includes a heading, a button, and a paragraph where the greeting will appear.

```
html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Greeting with JavaScript</title>
</head>
<body>
  <!-- Main heading of the page -->
  <h1>Hello!</h1>

  <!-- Button the user will click -->
  <button id="greetButton">Click here</button>

  <!-- Empty paragraph where the greeting message will appear -->
  <p id="responseText"></p>

  <!-- This line connects the JavaScript file to the HTML page -->
  <script src="script.js"></script>
</body>
</html>
```

script.js — Your JavaScript file

This file contains the instructions that tell the button what to do when clicked.

```
javascript
// This line finds the button using its ID and listens for a click
document.getElementById("greetButton").addEventListener("click", () => {

  // When the button is clicked, this line changes the text inside the paragraph
  document.getElementById("responseText").textContent = "Nice to meet you! 😊";
});
```

What each part does

- `document.getElementById("greetButton")`: Finds the button on the page.
- `.addEventListener("click", ...)`: Waits for the user to click the button.
- `document.getElementById("responseText").textContent = ...`: Changes the paragraph to show a friendly message.

How to run it

1. Open Visual Studio Code.
2. Save both files (`index.html` and `script.js`) inside a folder called `greeting`.
3. Right-click on `index.html` and choose "Open with Live Server."
4. Your browser will open and show the page.
5. Click the button — you'll see the greeting appear!