

National University of Computer and Emerging Sciences



Lab 3

Web Engineering

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FAST School of Computing

Q1: Create a simple Restaurant Billing System webpage using HTML, CSS, and basic JavaScript. The webpage should include:

- An input field to enter the total bill amount.
- An input field to enter the tip percentage.
- An input field to enter the number of people sharing the bill.
- A "Calculate" button that, when clicked, calculates:
 - The total bill amount, including tip and tax (assume a fixed tax rate if desired).
 - The amount each person needs to pay.
- Display the calculated total bill and the amount each person owes.

Use HTML for the structure, CSS for styling, and JavaScript for the calculations. Make the design clean and user-friendly!

Calculate Your Bill

Total Bill

1000

Tips %

2

People

- 2 +

Calculate

Summary

Total Bill	\$1000
Tips Amount	\$20
Tax5%	\$10.05

Total Per Person	\$ 515.02

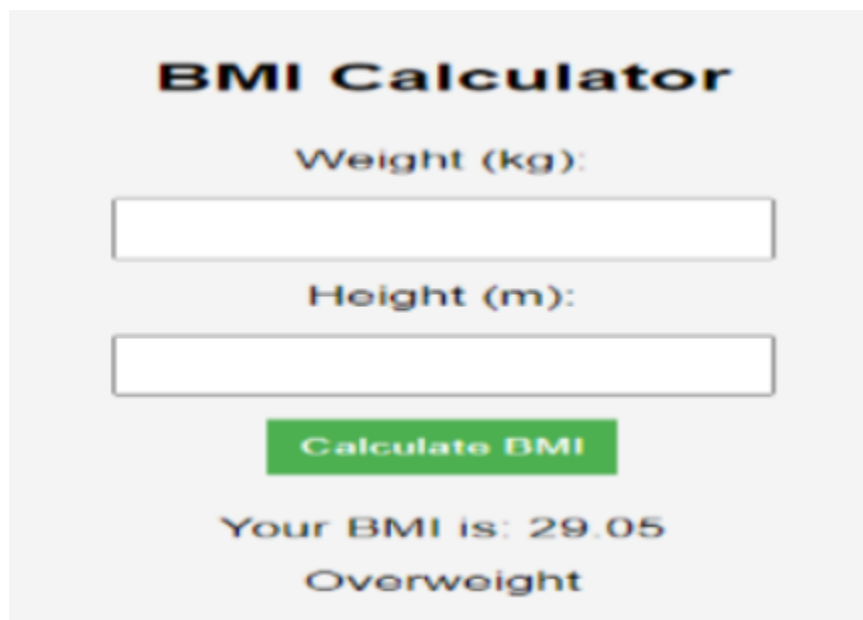
Q2: Create a simple BMI (Body Mass Index) calculator using:

- **HTML** for the frontend structure
- **CSS** for styling
- **JavaScript** for the BMI calculation

The calculator should allow users to enter their weight (kg) and height (m), and upon clicking a button, it should display the calculated BMI along with a category (Underweight, Normal, Overweight, Obese).

Files Required:

- index.html (for the structure)
- style.css (for styling)
- script.js (for BMI calculation logic)



The image shows a web form titled "BMI Calculator". It contains two input fields: "Weight (kg):" and "Height (m):". Below these fields is a green button labeled "Calculate BMI". At the bottom, the form displays the result: "Your BMI is: 29.05" and "Overweight".

Q3: Simple Web Page Layout

Create a simple "**My Portfolio**" webpage using HTML, CSS, and JavaScript:

- A **header** section with your name and a small introduction.
- A **navigation bar** with three links: "Home," "About," and "Contact."
- A **form** that allows users to enter their name and email.
- A **submit button** that, when clicked, displays "Form Submitted Successfully!" using JavaScript.

Q4: Table and Form Design

Create a webpage that includes:

- A **table** with three columns: Name, Age, and Course. Add at least 3 rows of data.
- A **form** below the table with the following fields:
 - **Full Name** (Text Input)
 - **Email** (Text Input)
 - **Select Course** (Dropdown: HTML, CSS, JavaScript)
 - **Submit Button**
- Style the table using **CSS**:
 - Add a border to each cell.
 - Alternate row colors (even rows: light gray, odd rows: white).

Q5: JavaScript Counter

Create a simple **counter application** using HTML, CSS, and JavaScript:

- Add a **number display area** in the center of the page.
- Add two **buttons: Increase and Decrease**.
- When clicking the **Increase** button, the number should increment by **1**.
- When clicking the **Decrease** button, the number should decrement by **1** (but should not go below 0).