

WEB Technologies LAB EXERCISE-HTML [JQUERY]

Beginner-Level Questions

1. **Change Text on Button Click**

Suppose you have a webpage with a button and a paragraph. When the user clicks the button, the text inside the paragraph should change to a new message (like "Hello, World!").

Hint: Use `.click()` and `.text()`.

2. **Hide and Show Paragraph**

Imagine a webpage with some description text. Add two buttons labelled "Hide" and "Show". When "Hide" is clicked, the paragraph should disappear, and when "Show" is clicked, it should reappear.

Hint: Use `.hide()` and `.show()`.

3. **Toggle an Image**

Create a webpage with an image and a button. Each time the user clicks the button, the image should toggle between being visible and hidden.

This is useful in real apps like showing/hiding ads or banners.

Hint: Use `.toggle()`.

4. **Change Background Color**

Design a div (box) on the page. When a button is clicked, the background color of the box should change to another color, like blue or red. This simulates color themes or highlight effects.

Hint: Use `.css("background-color", "blue")`.

5. **Add New List Item**

Start with an unordered list (``) that has a few items. Add a button called "Add Item". When clicked, it should insert a new `` item at the bottom of the list.

Hint: Use `.append("Item")`.

6. **Fade In and Fade Out**

Create an image on the page with two buttons: "Fade In" and "Fade Out". Clicking each button should smoothly show or hide the image with fading animation.

Hint: Use `.fadeIn()` and `.fadeOut()`.

7. **Simple Form Alert**

Add a form with a text input and a submit button. When the form is submitted, show the entered text in an alert popup without actually submitting the form to the server.

Hint: Use `.submit()` and `.val()`.

8. **Change Image Source**

Build a small gallery with one large image and a few small thumbnails. When a thumbnail is clicked, the large image should change to match the thumbnail.

Hint: Use `.attr("src")`.

9. **Hover Effect**

Write a paragraph of text on your page. When the user hovers the mouse over it, the color should change (say from black to red). When the mouse moves away, it should return to normal.

Hint: Use `.hover()` with two functions.

10. **Slide Up and Slide Down**

Create a simple menu (like a drop-down). When clicked, it should expand downwards showing the hidden items. When clicked again, it should slide back up.

Hint: Use `.slideToggle()`.

Moderate-Level Questions

1. Form Validation (Required Fields)

Build a signup form with fields like Name and Email. Before submission, check that none of the fields are empty and that the email is in the correct format. Show a warning message if validation fails.

Hint: Use `.each()` and regex for email validation.

2. Accordion for FAQ Section

Create a list of frequently asked questions. When a user clicks on a question, the answer should slide down. If another question is clicked, the previous answer should close.

Hint: Use `.slideToggle()` and `.not()`.

3. Character Counter in Textarea

Add a textarea for typing (like posting a tweet). Below it, display how many characters are remaining out of 100. Update the counter as the user types.

Hint: Use `.keyup()` and `.val().length`.

4. Scroll-to-Top Button

On long pages, add a "Scroll to Top" button that only appears after the user scrolls down a few hundred pixels. When clicked, it smoothly scrolls the page back to the top.

Hint: Use `.scroll()` and `.animate()`.

5. Tab Navigation

Build a tab system with multiple tabs like "Home", "About", "Contact". Clicking each tab should display its related content while hiding the others.

Hint: Use `.hide()` / `.show()` with tab selectors.

6. Disable Submit Until Terms Checked

On a signup form, add a "Terms and Conditions" checkbox. The



"Submit" button should stay disabled until the checkbox is selected.

Hint: Use `.prop("disabled", true/false)` inside `.change()`.

7. **Dynamic Table Filter**

Create an employee table with columns like Name, Department, and Email. Above the table, add a search box. As the user types in the box, show only the rows that match the text.

Hint: Use `.filter()` and `.toggle()`.

8. **Shopping Cart Calculation**

Design a shopping cart table with product names, prices, and quantity input boxes. When the quantity changes, automatically recalculate and update the total cost.

Hint: Use `.change()` on inputs and `.text()` to update totals.

9. **Simple AJAX Call**

Add a button "Load Users". When clicked, fetch a JSON list of users (like name and email) from a file or API and display them in a list on the page.

Hint: Use `$.getJSON()` and `.append()`.

10. **Dark Mode Toggle**

Add a switch button that lets the user switch between light and dark themes for the page. Change background and text colors accordingly.

Hint: Use `.toggleClass("dark-mode")`.
