

Problem Set 02: Intermediate practice exercises

These exercises will help intermediate users solidify their understanding of HTML while exploring **new** concepts like forms, accessibility, and semantic elements.

Exercise 1: Create a Multi-Page Website

1. Create a simple website with the following pages:
 - **index.html**: Home page with a navigation menu.
 - **about.html**: About page with a brief description of yourself or a fictional company.
 - **contact.html**: Contact page with a form containing the following fields:
 - Name (text input)
 - Email (email input)
 - Message (textarea)
 - Submit button
 2. Ensure all pages are linked using an <nav> element with hyperlinks (<a> tags).
-

Exercise 2: Design a Table with Nested Elements

1. Create a table to represent a class schedule:
 - Include a header row with the days of the week.
 - Each row should represent a time slot (e.g., Morning, Afternoon, Evening).
 - In at least one cell, including nested elements like a list of tasks or subjects.

Day	Seminar		
	Schedule		Topic
	Begin	End	
Monday	8:00 a.m.	5:00 p.m.	Introduction to XML
			Validity: DTD and Relax NG
Tuesday	8:00 a.m.	11:00 a.m.	XPath
	11:00 a.m.	2:00 p.m.	
	2:00 p.m.	5:00 p.m.	XSL Transformations
Wednesday	8:00 a.m.	12:00 p.m.	XSL Formatting Objects

2.

Exercise 3: Create an HTML Form with Validation

1. Build a form for event registration with the following fields:
 - Full Name (required)
 - Email Address (required, validate format)
 - Password (required, minimum length 8 characters)
 - Event Date (date input)
 - Dropdown to select event type (e.g., Workshop, Seminar)
 - Submit button
2. Use HTML5 form validation features.

Event Registration Form

Full Name:

Email Address:



Please fill out this field.

Password:

Event Date:



Event Type:



3.

Exercise 4: Add Media Embeds

1. Create a page that includes:
 - A YouTube video embedded using the `<iframe>` tag.
 - An audio file embedded using the `<audio>` tag with controls.
 - A local or external PDF file linked for download.
-

Exercise 5: Use Semantic HTML

1. Recreate the structure of a blog post using semantic tags:
 - Use <header> for the title and publication date.
 - Use <article> for the main content.
 - Include a <section> for related links.
 - Add <footer> for the author's name and social media links.
-

Exercise 6: Design a Modal Popup

1. Create a page with a button that says "Click Me".
 2. When the button is clicked, a modal (popup) appears with some text and a "Close" button.
 3. Use only HTML and CSS to create the popup.
-

Exercise 7: Build a Progress Bar

1. Create an HTML page with a simulated file upload progress bar using the `<progress>` tag.
2. Add a label above the progress bar to indicate its current state (e.g., "50% Completed").

File Upload Progress

Uploading File: 

50% completed

3.
