Week 1 – Day 5: Personal Portfolio (HTML)

Project-Based Practical Lecture
Topic: Personal Portfolio Website using Semantic HTML & Forms
Mode: Practical Lab + Mentoring | Assignment 1 (A1) Released

🎯 Learning Objectives

• Plan a multi-page portfolio structure and navigation.

• Apply semantic HTML sections (header, nav, main, section, article, footer).

• Create an accessible contact form with validation.

• Organize project content using readable headings and lists.

• Prepare a portfolio layout for future CSS styling.

⏱ Warm-Up Review (5 Minutes)

• What is the purpose of the <nav> element?

• Why should every page have only one <main>?

• What makes a form accessible?

🧩 Project Overview (10 Minutes)

Goal: Build a simple multi-page personal portfolio that can be styled later with CSS.

Pages to create:

• index.html — Home / About

• projects.html — Project highlights

• contact.html — Contact form

• resume.html (optional) — Skills and experience

📁 Recommended Folder Structure

```
portfolio/
 index.html
 projects.html
 contact.html
 assets/
   images/
```

☑ Key Requirements

• Consistent header and navigation on every page.

• Clear heading hierarchy (one h1 per page, then h2/h3).

• Semantic sections for better readability and SEO.

• A contact form with labels and validation.

💻 Demo: Base Layout (15 Minutes)

Starter header and navigation (repeat on every page):

```
<header>
 <h1>Amna Khan</h1>
 <p>Frontend Developer | HTML | CSS | JavaScript</p>
 <nav>
  <a href="index.html">Home</a>
  <a href="projects.html">Projects</a>
  <a href="contact.html">Contact</a>
 </nav>
</header>
```

📄 Page 1: Home / About (10 Minutes)

Purpose: Introduce yourself to visitors.

Suggested sections:

• About Me (short bio)

• Skills (list)

• Highlights (bullet points)

Example:

```
<main>
 <section>
  <h2>About Me</h2>
  <p>I build clean, user-friendly websites and enjoy learning new tools.</p>
 </section>
 <section>
  <h2>Skills</h2>
  <ul>
   <li>HTML5</li>
   <li>CSS3</li>
   <li>Responsive Design</li>
```

```
    </ul>
  </section>
</main>
```

📄 Page 2: Projects (10 Minutes)

Purpose: Showcase 2–3 projects using article cards.

```
<main>
  <section>
    <h2>Projects</h2>
    <article>
      <h3>Landing Page</h3>
      <p>A responsive landing page built with semantic HTML.</p>
      <a href="#">View project</a>
    </article>
    <article>
      <h3>Recipe Blog</h3>
      <p>A simple blog layout using sections and lists.</p>
      <a href="#">View project</a>
    </article>
  </section>
</main>
```

📄 Page 3: Contact (10 Minutes)

Purpose: Collect messages from visitors.

Form requirements:

• Labels linked using for/id attributes

• Required name and email fields

• Optional message field

Example Form:

```
<form>
  <label for="full-name">Full Name</label>
  <input id="full-name" name="full-name" type="text" required />

  <label for="email">Email</label>
  <input id="email" name="email" type="email" required />

  <label for="message">Message</label>
  <textarea id="message" name="message" rows="5"></textarea>
```

```
 <button type="submit">Send</button>
</form>
```

♿ Accessibility Reminders (5 Minutes)

• Use only one <h1> per page.

• Always provide alt text for images.

• Ensure form labels clearly describe inputs.

✏️ Practical Lab & Mentoring (30–40 Minutes)

Task:

• Build the multi-page portfolio using the structure above.

• Add your real content (bio, skills, projects).

• Validate HTML and check navigation links.

Instructor Support Focus:

• Help with page-to-page navigation links.

• Ensure semantic structure is correct.

• Review form labels and required fields.

🔨 Assignment 1 (A1) Released

• Share assignment instructions and due date.

• Remind students to submit their complete portfolio folder.

☑️ Wrap-Up (5 Minutes)

• Why is consistent navigation important?

• Which semantic tag holds the main page content?

• What input type validates email?

🏠 Homework (Optional)

• Add a Resume page.

• Add a Projects image gallery (with alt text).

• Add a simple footer with contact links.