■ HTML – Day 5: Mini Project & Best Practices

1. Bringing It All Together

So far, you have learned: - Day 1: Basic structure, headings, paragraphs. - Day 2: Formatting, lists, hyperlinks. - Day 3: Images, audio, video, tables. - Day 4: Forms & semantic elements. Today, you will combine all of these to build a mini personal website.

2. Mini Project: Personal Website

Project Requirements: Create a 3-page website with the following pages:
- ■ Page 1 – Home (index.html): Heading, intro paragraph, nav bar, and an image.
- ■ Page 2 – About (about.html): Headings, paragraphs, skills table, embedded YouTube video.
- ■ Page 3 – Contact (contact.html): A form with inputs, checkboxes, dropdown, textarea, and footer.

Example File Structure:
```
project/
■■■ index.html
■■■ about.html
■■■ contact.html
■■■ images/
■       ■■■ profile.jpg
■■■ media/
        ■■■ intro.mp4
```

Example Code (index.html):
```html
<!DOCTYPE html>
<html>
<head>
  <title>My Website</title>
</head>
<body>
  <header>
    <h1>Welcome to My Website</h1>
    <nav>
      <a href="index.html">Home</a> |
      <a href="about.html">About</a> |
      <a href="contact.html">Contact</a>
    </nav>
  </header>

  <section>
    <h2>Introduction</h2>
    <p>Hello! My name is Alex. This is my first website built using HTML.</p>
    <img src="images/profile.jpg" alt="Profile Picture" width="300">
  </section>

  <footer>
    <p>&copy; 2025 My Website</p>
  </footer>
</body>
</html>
```

3. Best Practices in HTML

- ■ Always use <!DOCTYPE html> at the top.
- ■ Indent your code properly.
- ■ Use semantic elements (<header>, <section>, <footer>) instead of <div> everywhere.
- ■ Always include alt text for images.
- ■ Use comments (<!-- -->) to explain complex code.
- ■ Keep file names lowercase (about.html, not About.HTML).
- ■ Validate your HTML with W3C Validator.

4. Practice Tasks

- Task 1: Build Your Website – Create all 3 pages (Home, About, Contact). Add images, video, table, and a form.
- Task 2: Experiment – Add a Gallery page with 4 images arranged in a table.
- Task 3: Improve Accessibility – Add alt text, use labels for form inputs, and descriptive titles.

5. Self-Check Questions

- 1. Why is it important to use semantic elements like <header> and <footer>?
- 2. Which tag is used to link multiple pages together?
- 3. What is the difference between relative and absolute paths in images?
- 4. Why should you always use the alt attribute for images?
- 5. How do you validate your HTML code?