Day-3 : HTML Forms, Semantic Tags & Media

1. HTML Forms

What is a Form?

A form is a section on a webpage where users can enter data like their name, email, feedback, or upload files. The data is sent to a server for processing.

Basic Form Structure

html

```
<form action="/submit" method="post">
  <label for="name">Name:</label>
  <input type="text" id="name" name="name">
  <button type="submit">Submit</button>
</form>
```

> <form>: Wraps form elements.
> action: URL to send data.
> method: How to send data (POST or GET).

Common Input Types

> Text input: <input type="text">
> Email input: <input type="email"> (validates emails)
> Password: <input type="password"> (hidden input)
> Checkbox: <input type="checkbox"> (multiple choices)
> Radio buttons: <input type="radio"> (single choice)
> File upload: <input type="file">

Submit button: <input type="submit"> or <button type="submit">

Label Tag

Labels connect text to input fields, improving accessibility and usability.

html

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

Textarea

For multi-line user input like comments.

html

```
<textarea name="message" rows="4" cols="30"></textarea>
```

Select Dropdown

Allows choosing one option from a list.

html

```
<select name="language">
  <option value="html">HTML</option>
  <option value="css">CSS</option>
  <option value="js">JavaScript</option>
</select>
```

2. Semantic HTML Tags

Semantic tags give meaning to your page sections. They help browsers, search engines, and developers understand the structure.

Tag	Purpose
<header>	Top part of the page (logo, title)
<nav>	Navigation menu with links
<main>	Main content area
<section>	Logical grouping of content
<article>	Standalone content block (like blog post)
<aside>	Sidebar or extra info
<footer>	Bottom area (contact, credits)

Example Semantic Layout

html

```
<header>
 <h1>My Website</h1>
</header>

<nav>
 <a href="#">Home</a> | <a href="#">About</a>
</nav>

<main>
 <section>
  <h2>Welcome</h2>
  <p>This is a semantic layout example.</p>
 </section>
</main>

<footer>
 <p>© 2025 Sagar Patil</p>
</footer>
```

3. Media Tags

Audio

Embed audio with controls to play/pause.

html

```
<audio controls>
  <source src="audio.mp3" type="audio/mp3">
  Your browser does not support audio.
</audio>
```

Video

Embed video with controls.

html

```
<video width="320" height="240" controls>
  <source src="video.mp4" type="video/mp4">
  Your browser does not support video.
</video>
```

Embed YouTube Video

Use iframe to embed YouTube videos.

```
<iframe width="560" height="315"
src="https://www.youtube.com/embed/VIDEO_ID"
title="YouTube video player" frameborder="0" allowfullscreen></iframe>
```

Replace VIDEO_ID with the actual video code.

4. Final Mini Project Idea

Build a simple webpage with:

Header: Page title
Navigation Bar: 2–3 links using <nav>
Main Section: One <section> containing a form with:
Name (text input)
Email (email input)
Feedback (textarea)
Select topic (dropdown)
Submit button
Media Embed: Add either a YouTube video or an audio file
Footer: Contact info or credits