Day - 2

Forms and Semantic Elements

What are semantic elements ?

Semantic Elements are those elements which gives meaning to our elements

Common Semantic Elements

1. **\<header\>**: Represents a header section or a group of introductory content.
2. **\<main\>**: Represents the main content of your website
3. **\<nav\>**: Defines a set of navigation links.
4. **\<article\>**: Represents a self-contained piece of content.
5. **\<section\>**: Defines a section in a document.
6. **\<aside\>**: Represents content that is tangentially related to the content around it.
7. **\<footer\>**: Represents a footer section or a group of closing content.

Semantic Text Elements

1. **<p>**: Represents a paragraph.
2. **<blockquote>**: Represents a block of text that is a quotation from another source.
3. **<cite>**: Represents the title of a creative work or the name of its author.
4. **<q>**: Represents a short inline quotation.
5. **<abbr>**: Represents an abbreviation or acronym

Semantic Multimedia Elements

1. **<figure>**: Represents any content that is referenced from the main content, such as images, diagrams, or code snippets.
2. **<figcaption>**: Represents a caption or legend for a **<figure>** element.
3. **<audio>** and **<video>**: Embed multimedia content.

Form and Input

Forms and Inputs are used to gather information from users

Basic Structure of Form

1. <**form**>: Encloses all form elements.
2. <**input**> : Fundamental for user input.
3. <**label**>: Used to associate inputs visually and programmatically.

Common Input Types

1. **<input type="text">**: Single-line text input.
2. **<input type="password">**: Password input for secure data entry.
3. **<input type="email">**: Email address input with built-in validation.
4. **<input type="checkbox">**: Checkbox for binary choices.
5. **<input type="radio">**: Radio button for exclusive choices.
6. **<input type="submit">**: Button to submit the form.
7. **<input type="reset">**: Button to reset the form.
8. **<input type="file">**: File upload input.
9. **<input type="number">**: Number input with up/down controls.

Input Attributes

1. **Placeholder**: Provides a hint or example text.
2. **Required**: Specifies that the input must be filled out.
3. **Pattern**: Defines a regular expression for input validation.
4. **Maxlength and Minlength**: Limits the number of characters in a text input.
5. **Disabled**: Disables the input field.

Dropdown Menu

1. <**select**>: Creates a dropdown list.
2. <**option**>: Defines individual options within the dropdown.