13. Interactive Element Tags

Interactive Element Tags

- `<button>` : A clickable button is created. The `onclick` attribute is used here to display an alert dialog box when the button is clicked.
- `<details>` and `<summary>` : These tags create a collapsible section. `<details>` is the container, and `<summary>` provides a clickable heading. Content placed within `<details>` but outside `<summary>` is hidden or shown when the user clicks on the `<summary>` .
- `<dialog>` : Represents a dialog box or other interactive component. JavaScript is used to show and hide the dialog.
- `<progress>` : Displays a progress bar. The `value` attribute specifies the current progress.
- `<input type="range">` : Creates a slider for selecting a numerical value within a specified range.
- `<select>` and `<option>` : Create a dropdown list. `<select>` defines the dropdown, and `<option>` elements represent the options within the dropdown.

```html
<!DOCTYPE html>
<html>
<head>
    <title>Interactive Elements Example</title>
    <style>
        dialog {
            border: 1px solid #000;
            border-radius: 5px;
            padding: 10px;
        }
    </style>
</head>
<body>
    <h2>Interactive HTML Elements</h2>

    <h3>Button</h3>
    <button onclick="alert('Hello World!')">Click Me!</button>

    <h3>Details and Summary</h3>
    <details>
        <summary>More Information</summary>
        <p>This is additional information that the user can view on demand.</p>
    </details>

    <h3>Dialog</h3>
    <button onclick="document.getElementById('myDialog').showModal();">Open Dialog</button>
    <dialog id="myDialog">
        <p>This is a dialog window. You can include any content here.</p>
        <button onclick="document.getElementById('myDialog').close();">Close</button>
    </dialog>

    <h3>Progress Bar</h3>
    <label for="file">Downloading progress:</label>
    <progress id="file" max="100" value="70">70%</progress>

    <h3>Range Slider</h3>
    <label for="volume">Volume Control:</label>
    <input type="range" id="volume" name="volume" min="0" max="11">

    <h3>Select Dropdown</h3>
    <label for="cars">Choose a car:</label>
    <select id="cars">
        <option value="volvo">Volvo</option>
        <option value="saab">Saab</option>
        <option value="mercedes">Mercedes</option>
        <option value="audi">Audi</option>
```

```
    </select>
</body>
</html>
```