**HTML <optgroup> Tag**

* In HTML, the <optgroup> tag means the grouping of options.
* This <optgroup> tag is used to create a grouping of options within <select > tag in HTML.
* The <optgroup> tag has <select> tag in the form of its parent.
* The <optgroup> tag requires both opening (start) tag and closing(end) tag.
* Syntax: <optgroup>content</optgroup>

**HTML <optgroup> Tag Attributes**

* disabled: This attribute is used to disable a group of options in a drop-down list.
* label: This attribute is used to provide a label to a group of options, This attribute is a mandatory attribute.

Example:

Demo.html

<!DOCTYPE html>

<html>

<head>

<title>select tag with optiongroup example</title>

</head>

<body>

    Select your Vehicle Type:

    <select>

      <optgroup label="2-wheelers">

        <option>Cycle</option>

        <option>Bike</option>

      </optgroup>

      <optgroup label="3-wheelers">

        <option>Auto</option>

        <option>Rikshaw</option>

      </optgroup>

      <optgroup label="4-wheelers" disabled>

        <option>Car</option>

        <option>Jeep</option>

      </optgroup>

    </select>

  </body>

</html>

**HTML <textarea> Tag**

* In HTML, to create a multi-line plain editing control <textarea> tag is used.
* The <textarea> tag is useful when you want to allow users to enter a sizeable amount of free-form text, for example, a comment on a review or feedback form.
* The <textarea> tag also accepts several attributes common to form <input>s, such as autocomplete, autofocus, disabled, placeholder, readonly, and required.
* this is an Inline element.
* To specify the size of textarea; we use cols and rows attributes of <textarea> tag.
* It is recommended to give labels using <label> tag to a textarea.
* The <textarea> element requires the start(opening) tag and end(closing) tag.

Example:

Demo.html

<!DOCTYPE html>

<html>

<head>

<title> text-area tag example</title>

</head>

<body>

    <label>Describe Your Self: </label>

    <textarea rows="3" cols="20">

    </textarea>

    <hr>

    <label>Describe Your Self: </label>

    <textarea rows="3" cols="20"

    style="background-color: bisque; color: red" autofocus>

    </textarea>

    <hr>

    <label>Describe Your Self: </label>

    <textarea rows="3" cols="20"

    style="background-color: bisque; color: red"

     disabled>

    </textarea>

</body>

</html>

Example2:

Demo.html

<!DOCTYPE html>

<html lang="en">

<head>

    <title>text area tag example</title>

</head>

<body>

    <form action="sample.html">

        <textarea rows = "4" cols = "36"

        placeholder = "Enter comments here" autofocus

        required></textarea>

        <br>

        <input type="submit" value="submit">

    </form>

    <hr>

    <form action="sample.html">

      <textarea rows = "4" cols = "36"

      placeholder = "Enter comments here" readonly

      required></textarea>

      <br>

      <input type="submit" value="submit">

  </form>

  <hr>

    <form action="sample.html">

      <textarea rows = "4" cols = "36"

      placeholder = "Enter comments here" disabled

      required></textarea>

      <br>

      <input type="submit" value="submit">

  </form>

</body>

</html>

**HTML <textarea> Tag Attributes**

* **name**: Inside <textarea> area tag, the name attribute is used to specify the name of the control.
* **minlength**: The minimum number of characters (Unicode code points) required that the user should enter.
* **maxlength**: The Maximum number of characters (Unicode code points) required that the user should enter.
* **cols**: This attribute is used to specify the width of the textarea.
* **rows**: This attribute is used to specify the number of visible lines in a textarea
* **wrap**: This attribute indicates how the control wraps text. Possible values are: hard, soft and off
* **spellcheck**: Specifies whether the textarea is subject to spell checking by the underlying browser/OS; true, false and default are three values of spellcheck attribute
* **required**: This attribute ensures that it is a required filled or this field must be filled
* **readonly**: This attribute specifies that a given textarea is a read-only type
* **autofocus**: This attribute specifies textarea gets focus automatically whenever the web page gets loaded.
* **form**: This attribute specifies the form to which textarea belongs to

example:

demo.html

<!DOCTYPE html>

<html lang="en">

<head>

    <title>text area tag example</title>

</head>

<body>

    <form action="sample.html">

        <textarea rows = "4" cols = "36" name="first\_form"

        placeholder = "Enter comments here" minlength="10"

        maxlength="100" wrap="soft" required></textarea>

        <br>

        <input type="submit" value="submit">

    </form>

</body>

</html>

**HTML <fieldset> Tag**

* HTML <fieldset> tag is used to group related HTML elements in a single box, by drawing a bordered box around the grouped elements.
* This is mostly used when we create a form on webpage.
* Grouping the related fields in a form displays the form fields in a more organized manner.
* This is a block-level element.
* The <fieldset> element requires the start(opening) tag and end(closing) tag.
* Syntax: <fieldset>content</fieldset>
* We can also use the <legend> tag just after the opening <fieldset> tag to provide a heading for the grouping.
* Syntax: <fieldset><legend>content</legend></fieldset>

**HTML <fieldset> Tag Attributes**

* name: Specifies a name for the fieldset
* disabled: Disables the text area or specifies that a group of related form elements should be disabled.
* form: Specifies one or more forms the fieldset belongs to or refers to the id of a form.

Example:

Demo.html

<!DOCTYPE html>

<html lang="en">

<head>

    <title>Field set tag example</title>

</head>

<body>

    <fieldset>

      <legend>login form</legend>

      <form>

        Enter UserName:<input type="text"><br><br>

        Enter Password:<input type="password"><br><br>

        <input type="submit" value="login">

      </form>

    </fieldset>

    <fieldset>

      <legend style="text-align: center;color:red;">signup form</legend>

      <form style="margin-left:150px">

        Enter Your First Name:<input type="text"><br><br>

        Enter Your Last Name:<input type="text"><br><br>

        Enter Your Email:<input type="email"><br><br>

        Enter UserName:<input type="text"><br><br>

        Enter Password:<input type="password"><br><br>

        <input type="submit" value="Signup">

      </form>

    </fieldset>

</body>

</html>