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👉 3- Date Input Type

👉 4- Form Validation

CHAPTER - 1 1. Introduction to HTML 👉 HTML, which stands for HYPERTEXT MARKUP LANGUAGE , is the standard markup language used to create and design web pages. 👉 It provides a structure for the content on the web, allowing browsers to interpret and display information in a readable format. 👉 HTML consists of various elements and tags that define the structure and content of a webpage. 2. HTML Elements **†** HTML documents are built using various elements. 👉 An element typically consists of an opening tag, content, and a closing tag. Here's an example of a simple paragraph element. In this example : is the opening tag. THIS IS A SIMPLE PARAGRAPH. is the content. is the closing tag. **SUBSCRIBE MY CHANNEL CODE 10TB** 3. HTML Syntax + HTML has a simple and straightforward syntax. **†** The basic structure of an HTML document looks like this: Let's break down the structure : <!DOCTYPE html> : This declaration defines the document type and VERSION OF HTML . In this case, it's HTML5. <html>: This is the root element of an HTML document. <head> : This section contains meta-information about the document, such as the title. <title> : This tag specifies the title of the HTML document, which appears in the browser's title bar or tab. <body> : This is the main content of the HTML document. <h1> to : These are example tags representing various HTML elements like headings and paragraphs. 4. HTML Tags 👉 HTML tags define the structure and formatting of content on a webpage. Tags are keywords surrounded by angle brackets. Here are a few examples :

1. DOCTYPE Declaration ← This declaration defines the document type and VERSION OF HTML being used. 👉 It helps browsers understand how to interpret the document. 👉 The declaration usually comes at the very beginning of the HTML document. 2. HTML Element

```
← The < HTML > element is the root element of an HTML document
👉 It wraps all the content on the page.
```

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3. Head Section

- 👉 The < HEAD > section contains meta-information about the HTML document, such as the title, character set, linked stylesheets, and scripts.
- 👉 It doesn't contain the actual content visible to users.

4. Title

→ The < TITLE > element inside the < HEAD > section specifies the title of the HTML document, which is typically displayed in the browser's title bar or tab.

5. Body Section

The <BODY > section contains the actual content of the HTML document, such as text, images, links, and other elements visible to users.

■ CHAPTER - 3 1. Headings <h1> to <h6> Headings are used to define headings in HTML. \leftarrow There are six levels of headings, with < H1 > being the highest level and < H6 > the lowest. Example: 2. Paragraphs 👉 Paragraphs are used to define blocks of text. Example: **→** SUBSCRIBE MY CHANNEL CODE 10TB 3. Bold and Italic ← The STRONG > element is used to define important text that should be bold, while STRONG > is used for emphasizing text, making it italic. Example: 4. Line Breaks < br > ← The Selement is used to insert a line break within text. Example: 5. Horizontal Line < hr > ← The ← HR > element is used to create a horizontal line, typically used to separate content. Example:



🏮 CHAPTER - 5 📝 1. Ordered Lists ← Ordered lists are used when the order of items is important. **t** Each list item is numbered sequentially. Example: This will render as: 1. First item 2. Second item 3. Third item 2. Unordered Lists 👉 Unordered lists are used when the order of items is not important. **t** Each list item is represented by a bullet point. \leftarrow You create an unordered list using the tag, and each list item within it is represented by the tag. Example: <!DOCTYPE html> This will render as: Red Green Blue **SUBSCRIBE MY CHANNEL CODE 10TB** 3. List Items ← The Size the define each item within a list, whether it's an ordered or unordered list. Example:

This will render as:

- Apple
- Orange
- 1. Small 2. Medium
- 3. Large Grapes

In this example, there's an unordered list
 containing items "Apple", "Orange" and "Grapes".

The third item in the list is itself an ordered list with items "Small", "Medium" and "Large".



1. Image Tag

- 👉 It is a self-closing tag, meaning it does not have a closing tag.
- Here's the basic syntax.

- src Specifies the source (URL or path) of the image.
- **alt** Provides alternative text for the image. This is important for accessibility and SEO.
- height and width Optional attributes to specify the dimensions of the image.
- 👉 If not specified, the image will be displayed in its original size.

Example:

```
<!DOCTYPE html>
<html>
<head>
<title> Image </title>
</head>
<body>
<img src="code10tb.jpg" alt="A beautiful landscape" width="500" height="300">
</body>
</hd>
</rr>
</ra>

</body>
</html>
```

2. Alt Text

- 👉 This text is displayed if the image cannot be loaded or if the user is using a screen reader.
- 👉 It's crucial for accessibility and improves the user experience.

Example:

In this example, if the image fails to load, the user will see "Code 10TB profile picture" instead.



3. Image Maps

- 👉 Image maps allow you to define clickable regions on an image, turning different parts of the image into links.
- \leftarrow This is achieved using the < map > and < area > tags.

Example :

```
<!DOCTYPE html>
<html>
<head>
<!-- Meta-information and linked resources go here -->
<title> Image Maps </title>
</head>
<body>
<img src="world-map.jpg" alt="World Map" usemap="#worldmap">
<map name="worldmap">
<area shape="rect" coords="0,0,200,100" href="north-america.html" alt="North America">
<area shape="rect" coords="200,0,400,100" href="europe.html" alt="Europe">
<!-- Additional areas for other regions -->
</map>
</bdody>
</brown
</pre>
```

In this example, the image has been divided into clickable rectangles, each corresponding to a different region.

Clicking on these regions will navigate the user to the specified URLs.

```
1. Form Tag <form>
  👉 It is a container for various input elements such as text fields, radio buttons, checkboxes, and more.
  + Here's the basic syntax.
  description specifies the URL where the form data will be submitted.
  method Specifies the HTTP method (either "post" or "get") used when sending form data.
Example:
2. Input Elements
  👉 Input elements are used within a form to gather user input.
  👉 Here are some common types.
TEXT INPUT: < input type="text" >
PASSWORD INPUT: < input type="password" >
RADIO BUTTONS : < input type="radio" >
CHECKBOXES: < input type="checkbox" >
                          ★ SUBSCRIBE MY CHANNEL CODE 10TB
3. Textarea <textarea>
  † Textarea allows users to input multi-line text.
  👉 t is often used for comments or longer messages.
Example:
4. Select Dropdown <select> and <option>
  d Select dropdowns provide a list of options for the user to choose from.
Example:
5. Submit Button <input type="submit">
  👉 The submit button is used to send the form data to the server.
Example:
6. Practice
Example:
Output:
  Username:
  Password:
  Gender:
  Male
  Female
  This is a basic example of an HTML form with various input elements.
  ■ Subscribe to newsletter
  Message:
```

Country:

Submit

United States

This is a basic example of an HTML form with various input elements.

■ CHAPTER - 8 ▼ 1. Table Structure 👉 The basic structure of an HTML table consists of the following components. **table** This is the main container for the entire table. thead This section is used to define the header of the table. tbody This section contains the body of the table, where the actual data rows are placed. tfoot This section is optional and is used to define the footer of the table. Here's an example of a simple table structure 2. Table Headers for In the thead section of the table, header cells are defined using the table header element. ← The content within is typically bold and centered by default. + Header cells are used to label the columns of the table. Example of a table with headers : **SUBSCRIBE MY CHANNEL CODE 10TB** 3. Table Rows and Cells and \leftarrow The actual data in the table is placed within the < tbody > section. 👉 Rows are defined using the (table row) element, and individual cells within the rows are defined using > (table data) elements. Example of a table with data:

```
In this example, there are two rows in the  section, each containing three cells corresponding to the columns defined in the < thead >
```

4. Practice

section.

Example of a table

Output:

Name	Age	City	
John Doe	25	New York	
Jane Smith	30	Los Angeles	
Footer Row			

1. Header

```
← The  < header > element represents the introductory content of a section or a page.
```

👉 It often includes headings, logos, navigation menus, and other elements related to the overall introduction of the content.

Example:

2. Footer

- footer element represents the footer of a section or a page.
- + Header cells are used to label the columns of the table.

Example:

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3. Article

👉 The <article > element represents a self-contained piece of content that could be distributed and reused independently.

👉 It's commonly used for blog posts, news articles, forum posts, etc.

Example:

4. Section

- ← The < section > element is used to group related content together.
- 👉 helps in organizing the page's structure and provides a way to apply styles or scripts to a specific section of content.

Example:

4. Practice

Example:

Output:

Website Title

Home About Contact

Article Title Published on January 18, 2024

Article content goes here...

Section Title

Section content goes here...

© 2024 Website Name. All rights reserved.

Privacy Policy

© CHAPTER - 10 1. Audio Embedding Example: The **controls** attribute adds play, pause, and volume controls to the audio player. The <source> element specifies the audio file (example.mp3) and its type. 2. Video Embedding for embedding videos, you can use the <video> element. Example: The **height** and **width** attributes set the dimensions of the video player. The **controls** attribute adds play, pause, and volume controls. The <source> element specifies the video file (example.mp4) and its type. **★** SUBSCRIBE MY CHANNEL CODE 10TB 3. <iframe> for Embedding External Content 👉 The <mark>< iframe ></mark> tag is used to embed external content, such as videos, maps, or other webpages, within an HTML document. Example of Embedding a YouTube Video: The **height** and **width** attributes set the dimensions of the iframe. The src attribute specifies the source URL of the external content (replace "your_video_id" with the actual YouTube video ID). The **frameborder="0"** removes the iframe border. The allowfullscreen attribute allows the content to be viewed in fullscreen mode. Example of Embedding a Google Map :

CHAPTER - 11 ₹

1. Email Input Type

- 👉 It provides built-in validation for ensuring that the entered value is in a valid email format.

Example:

```
<!DOCTYPE html>
<html>
<head>
<title> Email Input Type </title>
</head>
<body>
<label for="email">Email:</label>
<input type="email" id="email" name="email" required>
</body>
</html>
```

The **required** attribute ensures that the field must be filled out before submitting the form.

2. Tel Input Type

- 👉 It is suitable for both landline and mobile phone numbers.

Example:

```
<!DOCTYPE html>
<html>
<head>
<title> Tel Input Type </title>
</head>
<body>
<label for="phone">Phone:</label>
<input type="tel" id="phone" name="phone" required>
</body>
</body>
</html>
```

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The <input > element with the type="date" attribute allows users to select a date from a date picker.

Example :

3. Date Input Type

```
<!DOCTYPE html>
<html>
<head>
<!-- Meta-information and linked resources go here -->
<title> Date Input Type </title>
</head>
<body>
<label for="birthdate">Birthdate:</label>
<input type="date" id="birthdate" name="birthdate" required>
</body>
</html>
```

4. Form Validation

- + HTML5 introduced client-side form validation, which means the browser can validate the user's input before submitting the form.
- ← This helps in reducing server requests and providing real-time feedback to users.
- ← As shown in the examples above, the required attribute is used to make a form field mandatory.
- The pattern attribute allows you to specify a regular expression for the expected input format.

Example :

```
<!DOCTYPE html>
<html>
<head>
<title> Form Validation </title>
</head>
<body>
<label for="password">Password (at least 8 characters, one uppercase, one lowercase, one digit):</label>
<input type="password" id="password" name="password" pattern="^(?=.*\d)(?=.*[a-z])(?=.*[A-Z]).{8,}$" required>
</body>
</html>
```

In this example, the pattern enforces that the password must be at least 8 characters long and contain at least one uppercase letter, one lowercase letter, and one digit.