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HTML BASICS (HTML ki foundation)

HTML SYNTAX:

```
<tagName attribute="value">Content</tagName>
```

HTML DOCUMENT STRUCTURE:

```
<!DOCTYPE html>
<html>
<head>
  <!-- Meta information -->
</head>
<body>
  <!-- Visible content -->
</body>
</html>
```

HTML KAISE ADD KARE:

- Save file with .html extension
- Open in browser to view
- Use code editor for writing



DOCUMENT STRUCTURE (HTML skeleton)

1. <!DOCTYPE html>

Kya karta hai: Browser ko batata hai ki ye HTML5 document hai
Kaise use kare: Hamesha file ke top pe likhte hain
Example: <!DOCTYPE html>

2. <html></html>

Kya karta hai: Poora webpage iske andar aata hai
Example: <html lang="en">...</html>

3. <head></head>

Kya karta hai: Website ki metadata (title, CSS links etc)
Example: <head><title>Meri Website</title></head>

4. <title></title>

Kya karta hai: Browser tab mein title dikhata hai
Example: <title>Meri Website - Home Page</title>

5. <meta>

Kya karta hai: Page ki metadata provide karta hai
Types:

- <meta charset="UTF-8"> (Character encoding)
- <meta name="viewport" content="width=device-width, initial-scale=1.0">
- <meta name="description" content="Page description">
- <meta name="keywords" content="html, css, javascript">

6. <link>

Kya karta hai: External files ko link karta hai
Examples:

- <link rel="stylesheet" href="style.css"> (CSS file)
- <link rel="icon" href="favicon.ico"> (Favicon)

7. <style></style>

Kya karta hai: Internal CSS likhne ke liye
Example: <style>body { background: red; }</style>

8. <script></script>

Kya karta hai: JavaScript code ke liye
Examples:

- <script src="script.js"></script> (External JS)
- <script>alert('Hello');</script> (Internal JS)



HEADER LAYOUT TAGS

9. <body></body>

Kya karta hai: Jo content user ko dikhta hai wo sab yahan
Example: <body><h1>Welcome</h1></body>

10. <header></header>

Kya karta hai: Page/section header
Example: <header>
 <h1>Website Title</h1>
 <nav>Navigation here</nav>
</header>

11. <nav></nav>

Kya karta hai: Navigation links container

Example:

```
<nav>
  <ul>
    <li><a href="/">Home</a></li>
    <li><a href="/about">About</a></li>
  </ul>
</nav>
```

NAVIGATION LINKS

12. `<a>`

Kya karta hai: Hyperlinks banane ke liye

Different types:

- `External link`
- `Internal page`
- `Same page section`
- `Email link`
- `Phone link`

Example Header Structure:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>My Website</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <header>
    <h1>Website Logo</h1>
    <nav>
      <ul>
        <li><a href="#home">Home</a></li>
        <li><a href="#about">About</a></li>
      </ul>
    </nav>
  </header>
```



MAIN LAYOUT CONTAINERS

13. `<main></main>`

Kya karta hai: Main content area

Example: `<main><article>Main content</article></main>`

14. `<section></section>`

Kya karta hai: Thematic content sections

Example: `<section><h2>About Us</h2></section>`

15. `<article></article>`

Kya karta hai: Independent content

Example: `<article><h2>Blog Post</h2></article>`

16. `<aside></aside>`

Kya karta hai: Sidebar/related content

Example: `<aside><h3>Related Links</h3></aside>`

17. `<div></div>`

Kya karta hai: Generic block container
Example: `<div class="container">Content group</div>`

18. ``
Kya karta hai: Generic inline container
Example: `highlighted text`

HEADING TAGS (Content hierarchy)

19. `<h1>` to `<h6>`
Kya karta hai: Headings (h1 sabse bada, h6 sabse chota)
Examples:
- `<h1>Main Title</h1>`
- `<h2>Sub Title</h2>`
- `<h3>Section Title</h3>`

TEXT CONTENT TAGS

20. `<p></p>`
Kya karta hai: Paragraph banane ke liye
Example: `<p>Ye mera paragraph hai</p>`
21. `
`
Kya karta hai: Line break (new line)
Example: `First line
Second line`
22. `<hr>`
Kya karta hai: Horizontal rule (divider line)
Example: `Content 1<hr>Content 2`
23. `<pre></pre>`
Kya karta hai: Preformatted text
Example: `<pre>Text with spaces</pre>`
24. `<blockquote></blockquote>`
Kya karta hai: Long quotation
Example: `<blockquote>Ye ek famous quote hai</blockquote>`

TEXT FORMATTING TAGS

25. ``
Kya karta hai: Important text (bold + semantic)
Example: `Ye bahut important hai!`
26. ``
Kya karta hai: Emphasized text (italic + semantic)
Example: `Dhyan se suno`
27. ``
Kya karta hai: Bold text (visual only)
Example: `Bold text`
28. `<i></i>`
Kya karta hai: Italic text (visual only)
Example: `<i>Italic text</i>`
29. `<u></u>`
Kya karta hai: Underlined text
Example: `<u>Underlined text</u>`
30. `<mark></mark>`

Kya karta hai: Highlighted text
Example: `<mark>Important note</mark>`

31. `<small></small>`
Kya karta hai: Smaller text
Example: `<small>Fine print</small>`
32. ``
Kya karta hai: Subscript
Example: H`₂`O
33. ``
Kya karta hai: Superscript
Example: E = mc`²`
34. `<code></code>`
Kya karta hai: Code snippet
Example: Use `<code>console.log()</code>`



MEDIA CONTENT TAGS

35. ``
Kya karta hai: Images display karne ke liye
Example: ``
36. `<figure></figure>`
Kya karta hai: Image with caption container
Example: `<figure>

 <figcaption>Sales Data</figcaption>
</figure>`
37. `<video></video>`
Kya karta hai: Video player
Example: `<video controls>
 <source src="movie.mp4" type="video/mp4">
</video>`
38. `<audio></audio>`
Kya karta hai: Audio player
Example: `<audio controls>
 <source src="song.mp3" type="audio/mp3">
</audio>`
39. `<iframe></iframe>`
Kya karta hai: Embed other pages
Example: `<iframe src="https://youtube.com/embed/VIDEO_ID"></iframe>`



LIST TAGS

40. ``
Kya karta hai: Unordered list (bullet points)
Example: `
 First item
 Second item
`

41. ``
Kya karta hai: Ordered list (numbers)
Example: ``
 `First step`
 `Second step`
 ``
42. ``
Kya karta hai: List item
Example: `List item`
43. `<dl></dl>`
Kya karta hai: Description list
Example: `<dl>`
 `<dt>HTML</dt>`
 `<dd>HyperText Markup Language</dd>`
 `</dl>`

TABLE TAGS

44. `<table></table>`
Kya karta hai: Table container
Example: `<table border="1">...content...</table>`
45. `<tr></tr>`
Kya karta hai: Table row
Example: `<tr><td>Cell 1</td><td>Cell 2</td></tr>`
46. `<th></th>`
Kya karta hai: Table header cell
Example: `<th>Header</th>`
47. `<td></td>`
Kya karta hai: Table data cell
Example: `<td>Data</td>`
48. `<thead></thead>`, `<tbody></tbody>`, `<tfoot></tfoot>`
Kya karta hai: Table sections
Example: `<thead><tr><th>Name</th></tr></thead>`

INTERACTIVE CONTENT TAGS

49. `<details></details>`
Kya karta hai: Collapsible content
Example: `<details>`
 `<summary>Click to expand</summary>`
 `<p>Hidden content</p>`
 `</details>`
50. `<summary></summary>`
Kya karta hai: Details heading
Example: `<summary>More Information</summary>`



FORM CONTAINER

51. `<form></form>`

Kya karta hai: Form container
Example: `<form action="submit.php" method="post">`

INPUT ELEMENTS

52. `<input>`
Kya karta hai: Various input types
Text Inputs:
- `<input type="text" placeholder="Enter name">`
- `<input type="email" placeholder="Email">`
- `<input type="password" placeholder="Password">`

Selection Inputs:
- `<input type="checkbox">` Checkbox
- `<input type="radio" name="group">` Radio button

Other Types:
- `<input type="file">` File upload
- `<input type="date">` Date picker
- `<input type="submit" value="Submit">`
53. `<textarea></textarea>`
Kya karta hai: Multi-line text input
Example: `<textarea rows="4" cols="50"></textarea>`
54. `<select></select>`
Kya karta hai: Dropdown select
Example: `<select>`
 `<option value="option1">Option 1</option>`
 `<option value="option2">Option 2</option>`
 `</select>`
55. `<option></option>`
Kya karta hai: Select options
Example: `<option value="mumbai">Mumbai</option>`

FORM LABELS AND GROUPING

56. `<label></label>`
Kya karta hai: Input labels
Example: `<label for="name">Name:</label>`
 `<input id="name" type="text">`
57. `<fieldset></fieldset>`
Kya karta hai: Group related form elements
Example: `<fieldset>`
 `<legend>Personal Info</legend>`
 `<input type="text" placeholder="Name">`
 `</fieldset>`
58. `<legend></legend>`
Kya karta hai: Fieldset title
Example: `<legend>Contact Details</legend>`

FORM CONTROLS

59. `<button></button>`
Kya karta hai: Clickable buttons
Types:
- `<button type="submit">Submit</button>`
- `<button type="reset">Reset</button>`

- <button type="button">Custom</button>

60. <progress></progress>

Kya karta hai: Progress bar

Example: <progress value="70" max="100">70%</progress>

Complete Form Example:

```
<form action="submit.php" method="post">
  <fieldset>
    <legend>Personal Information</legend>

    <label for="name">Name:</label>
    <input type="text" id="name" required>

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

    <button type="submit">Submit</button>
  </fieldset>
</form>
```



FOOTER LAYOUT

61. <footer></footer>

Kya karta hai: Page/section footer

Example: <footer>

```
  <p>&copy; 2025 Company. All rights reserved.</p>
</footer>
```



TECHNICAL TAGS

62. <canvas></canvas>

Kya karta hai: Drawing area for graphics

Example: <canvas id="myCanvas" width="400"></canvas>

63. <svg></svg>

Kya karta hai: Scalable Vector Graphics

Example: <svg><circle cx="50" cy="50" r="40"/></svg>

64. <noscript></noscript>

Kya karta hai: Content when JavaScript disabled

Example: <noscript>Please enable JavaScript</noscript>



RESPONSIVE TAGS

Mobile Viewport:

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

Responsive Images:

```
<picture>
  <source media="(min-width: 800px)" srcset="large.jpg">
  
</picture>
```



GLOBAL ATTRIBUTES

Core Attributes:

- id="unique-id" - Unique identifier
- class="class-name" - CSS class
- style="color: red;" - Inline CSS
- title="tooltip text" - Tooltip on hover

Data Attributes:

- data-*="value" - Custom data

Example: data-user-id="123"

ARIA (Accessibility):

- role="button" - Element role
- aria-label="Description" - Accessible name

Events (JavaScript):

- onclick="function()" - Click event
- onload="function()" - Load event



COMPLETE HTML TEMPLATE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Complete Website</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <!-- HEADER -->
  <header>
    <h1>My Website</h1>
    <nav>
      <ul>
        <li><a href="#home">Home</a></li>
        <li><a href="#about">About</a></li>
        <li><a href="#contact">Contact</a></li>
      </ul>
    </nav>
  </header>

  <!-- MAIN CONTENT -->
  <main>
    <section id="home">
      <h2>Welcome</h2>
      <p>This is home section.</p>
    </section>

    <section id="about">
      <h2>About Us</h2>
      <article>
        <h3>Our Story</h3>
        <p>Company information here.</p>
      </article>
    </section>

    <section id="contact">
      <h2>Contact</h2>
```

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

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

  <button type="submit">Send</button>
</form>
</section>
</main>

<!-- FOOTER -->
<footer>
  <p>&copy; 2025 My Website. All rights reserved.</p>
</footer>
</body>
</html>
```



HTML BEST PRACTICES



STRUCTURE TIPS:

- Always use <!DOCTYPE html> for HTML5
- Include lang attribute: <html lang="en">
- Use semantic tags for better SEO
- Nest tags properly



ACCESSIBILITY TIPS:

- Always use alt attribute for images
- Use proper heading hierarchy (h1, h2, h3...)
- Associate labels with form inputs



SEO TIPS:

- Write descriptive title tags
- Use meta descriptions
- Use proper heading structure



PERFORMANCE TIPS:

- Optimize images
- Use lazy loading: loading="lazy"
- Minimize HTML file size



REMEMBER THESE POINTS:

1. HTML tags must be properly closed
2. Use lowercase for tag names
3. Quote all attribute values
4. Validate your HTML regularly
5. Use semantic HTML over div soup
6. Keep code clean and indented



MODERN HTML FEATURES:

- Progressive Web Apps (PWA)
- CSS Grid and Flexbox for layouts
- Web Components
- Service Workers
- Responsive Design



CONGRATULATIONS! YOU'VE MASTERED HTML!





HEADER SECTION TAGS (Website ka top area)

DOCUMENT STRUCTURE (HTML skeleton)

1. `<!DOCTYPE html>`
Kya karta hai: Browser ko batata hai ki ye HTML5 document hai
Kaise use kare: Hamesha file ke top pe likhte hain
Example: `<!DOCTYPE html>`
2. `<html></html>`
Kya karta hai: Poora webpage iske andar aata hai
Kaise use kare: Sabse starting aur ending tag
Example: `<html lang="en">...</html>`
3. `<head></head>`
Kya karta hai: Website ki metadata (title, CSS links etc)
Kaise use kare: User ko dikhta nahi, but browser ke liye important
Example: `<head><title>Meri Website</title></head>`
4. `<title></title>`
Kya karta hai: Browser tab mein title dikhata hai
Kaise use kare: `<title>Page Title</title>`
Example: `<title>Meri Website - Home Page</title>`
5. `<meta>`
Kya karta hai: Page ki metadata provide karta hai
Types:
 - `<meta charset="UTF-8">` (Character encoding)
 - `<meta name="viewport" content="width=device-width, initial-scale=1.0">`
 - `<meta name="description" content="Page description">`
 - `<meta name="keywords" content="html, css, javascript">`
 - `<meta name="author" content="Your Name">`
 - `<meta http-equiv="refresh" content="30">` (Auto refresh)
6. `<link>`
Kya karta hai: External files ko link karta hai
Examples:
 - `<link rel="stylesheet" href="style.css">` (CSS file)
 - `<link rel="icon" href="favicon.ico">` (Favicon)
 - `<link rel="preconnect" href="https://fonts.googleapis.com">`
7. `<style></style>`
Kya karta hai: Internal CSS likhne ke liye
Example: `<style>body { background: red; }</style>`
8. `<script></script>`
Kya karta hai: JavaScript code ke liye
Examples:
 - `<script src="script.js"></script>` (External JS)
 - `<script>alert('Hello');</script>` (Internal JS)
9. `<base>`
Kya karta hai: Page ke liye base URL set karta hai
Example: `<base href="https://example.com/" target="_blank">`

HEADER LAYOUT TAGS

10. `<body></body>`

Kya karta hai: Jo content user ko dikhta hai wo sab yahan
Kaise use kare: Visible content yahan likhte hain
Example: `<body><h1>Welcome</h1></body>`

11. `<header></header>`

Kya karta hai: Page/section header
Example: `<header>
 <h1>Website Title</h1>
 <nav>Navigation here</nav>
</header>`

12. `<nav></nav>`

Kya karta hai: Navigation links container
Example: `<nav>

 Home
 About
 Contact

</nav>`



NAVIGATION LINKS

13. `<a>`

Kya karta hai: Hyperlinks banane ke liye
Different types:

- `External link`
- `Internal page`
- `Same page section`
- `Email link`
- `Phone link`
- `Download link`
- `New tab`
- `No follow`

Example Header Structure:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>My Website</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <header>
        <h1>Website Logo</h1>
        <nav>
            <ul>
                <li><a href="#home">Home</a></li>
                <li><a href="#about">About</a></li>
                <li><a href="#services">Services</a></li>
                <li><a href="#contact">Contact</a></li>
            </ul>
        </nav>
    </header>
```



MAIN CONTENT AREA TAGS (Website ka middle content)

MAIN LAYOUT CONTAINERS

14. `<main></main>`

Kya karta hai: Main content area

Example: `<main>`

```
    <article>Main article content</article>
    <aside>Sidebar content</aside>
</main>
```

15. `<section></section>`

Kya karta hai: Thematic content sections

Example: `<section>`

```
    <h2>About Us</h2>
    <p>Company information here</p>
</section>
```

16. `<article></article>`

Kya karta hai: Independent content

Example: `<article>`

```
    <h2>Blog Post Title</h2>
    <p>Blog content here</p>
    <footer>Published on: July 31, 2025</footer>
</article>
```

17. `<aside></aside>`

Kya karta hai: Sidebar/related content

Example: `<aside>`

```
    <h3>Related Links</h3>
    <ul><li>Link 1</li><li>Link 2</li></ul>
</aside>
```

18. `<div></div>`

Kya karta hai: Generic block container

Example: `<div class="container">Content group</div>`

19. ``

Kya karta hai: Generic inline container

Example: `<p>This is highlighted text</p>`

HEADING TAGS (Content hierarchy)

20. `<h1>` to `<h6>`

Kya karta hai: Headings (h1 sabse bada, h6 sabse chota)

Examples:

- `<h1>Main Title</h1>`
- `<h2>Sub Title</h2>`
- `<h3>Section Title</h3>`
- `<h4>Sub Section</h4>`
- `<h5>Small Heading</h5>`
- `<h6>Smallest Heading</h6>`

TEXT CONTENT TAGS

21. `<p></p>`

Kya karta hai: Paragraph banane ke liye

Example: `<p>Ye mera paragraph hai with bold text.</p>`

22. `
`

Kya karta hai: Line break (new line)

Example: First line
Second line
Third line

23. <hr>
Kya karta hai: Horizontal rule (divider line)
Example: Content 1<hr>Content 2
24. <pre></pre>
Kya karta hai: Preformatted text (spaces preserve hote hain)
Example: <pre>
Text with multiple spaces
And indentation
</pre>
25. <blockquote></blockquote>
Kya karta hai: Long quotation
Example: <blockquote cite="source.com">Ye ek famous quote hai.</blockquote>
26. <q></q>
Kya karta hai: Short inline quotation
Example: He said <q>Hello World</q> to everyone.
27. <cite></cite>
Kya karta hai: Citation (book, movie names etc)
Example: <cite>Harry Potter</cite> is a famous book.
28. <abbr></abbr>
Kya karta hai: Abbreviation with full form
Example: <abbr title="HyperText Markup Language">HTML</abbr>
29. <address></address>
Kya karta hai: Contact information
Example: <address>123 Street, City
Email: test@email.com</address>
30. <time></time>
Kya karta hai: Date/time information
Example: <time datetime="2025-07-31">July 31, 2025</time>

🧐 TEXT FORMATTING TAGS (Text styling)

31.
Kya karta hai: Important text (bold + semantic meaning)
Example: Ye bahut important hai!
32.
Kya karta hai: Emphasized text (italic + semantic meaning)
Example: Dhyan se suno
33.
Kya karta hai: Bold text (visual only)
Example: Bold text
34. <i></i>
Kya karta hai: Italic text (visual only)
Example: <i>Italic text</i>
35. <u></u>
Kya karta hai: Underlined text
Example: <u>Underlined text</u>
36. <s></s>
Kya karta hai: Strikethrough text
Example: <s>Cut kiya gaya text</s>

37. `<mark></mark>`
Kya karta hai: Highlighted text (yellow background)
Example: `<mark>Important note</mark>`
38. `<small></small>`
Kya karta hai: Smaller text
Example: `<small>Fine print</small>`
39. ``
Kya karta hai: Deleted text
Example: Price: `₹100` ₹80
40. `<ins></ins>`
Kya karta hai: Inserted text
Example: Updated: `<ins>New content added</ins>`
41. ``
Kya karta hai: Subscript
Example: H`₂`O, CO`₂`
42. ``
Kya karta hai: Superscript
Example: E = mc`²`, 10`th` grade
43. `<code></code>`
Kya karta hai: Code snippet
Example: Use `<code>console.log()</code>` for debugging
44. `<kbd></kbd>`
Kya karta hai: Keyboard input
Example: Press `<kbd>Ctrl</kbd>` + `<kbd>C</kbd>` to copy
45. `<samp></samp>`
Kya karta hai: Sample output
Example: Output: `<samp>Hello World</samp>`
46. `<var></var>`
Kya karta hai: Variable names
Example: Let `<var>x</var>` = 10
47. `<dfn></dfn>`
Kya karta hai: Definition term
Example: `<dfn>HTML</dfn>` is a markup language
48. `<ruby></ruby>`, `<rt></rt>`, `<rp></rp>`
Kya karta hai: Ruby annotations (Asian languages)
Example: `<ruby>漢<rt>han</rt></ruby>`

MEDIA CONTENT TAGS (Images, videos, audio)

49. ``
Kya karta hai: Images display karne ke liye
Attributes:
- `src="image.jpg"` (Image source)
- `alt="Description"` (Alternative text)
- `width="300" height="200"` (Dimensions)
- `title="Tooltip text"`
- `loading="lazy"` (Lazy loading)
- `srcset="small.jpg 480w, large.jpg 800w"` (Responsive)
Example: ``
50. `<picture></picture>`
Kya karta hai: Responsive images

Example: `<picture>`
 `<source media="(min-width: 800px)" srcset="large.jpg">`
 ``
`</picture>`

51. `<figure></figure>`

Kya karta hai: Image with caption container

Example: `<figure>`
 ``
 `<figcaption>2025 Sales Data</figcaption>`
`</figure>`

52. `<figcaption></figcaption>`

Kya karta hai: Caption for figure

Example: `<figcaption>Image caption here</figcaption>`

53. `<video></video>`

Kya karta hai: Video player

Attributes:

- controls (Show controls)
- autoplay (Auto start)
- loop (Repeat)
- muted (No sound)
- poster="thumbnail.jpg" (Thumbnail)

Example: `<video controls width="400" poster="thumb.jpg">`
 `<source src="movie.mp4" type="video/mp4">`
 `<source src="movie.webm" type="video/webm">`
 Video not supported
`</video>`

54. `<audio></audio>`

Kya karta hai: Audio player

Example: `<audio controls>`
 `<source src="song.mp3" type="audio/mp3">`
 `<source src="song.ogg" type="audio/ogg">`
 Audio not supported
`</audio>`

55. `<source>`

Kya karta hai: Media source for video/audio

Example: `<source src="video.mp4" type="video/mp4">`

56. `<track>`

Kya karta hai: Subtitles for video

Example: `<track src="subtitles.vtt" kind="subtitles" srclang="en">`

57. `<embed>`

Kya karta hai: External content embed

Example: `<embed src="document.pdf" type="application/pdf" width="600" height="400">`

58. `<object></object>`

Kya karta hai: External object embed

Example: `<object data="flash.swf" type="application/x-shockwave-flash"></object>`

59. `<param>`

Kya karta hai: Parameters for object

Example: `<param name="movie" value="flash.swf">`

60. `<iframe></iframe>`

Kya karta hai: Inline frame (embed other pages)

Example: `<iframe src="https://youtube.com/embed/VIDEO_ID" width="560" height="315"></iframe>`

LIST TAGS (Content organization)

61.

Kya karta hai: Unordered list (bullet points)

Example:

```
    <li>First item</li>
    <li>Second item</li>
    <li>Third item</li>
</ul>
```

62.

Kya karta hai: Ordered list (numbers)

Attributes:

- type="1" (Numbers: 1,2,3)
- type="A" (Letters: A,B,C)
- type="a" (Small letters: a,b,c)
- type="I" (Roman: I,II,III)
- type="i" (Small roman: i,ii,iii)
- start="5" (Start from 5)
- reversed (Reverse order)

Example: <ol type="A" start="3">

```
    <li>Third item (C)</li>
    <li>Fourth item (D)</li>
</ol>
```

63.

Kya karta hai: List item

Attributes:

- value="5" (Custom number for ordered lists)

Example: <li value="10">This will be number 10

64. <dl></dl>

Kya karta hai: Description list

Example: <dl>

```
    <dt>HTML</dt>
    <dd>HyperText Markup Language</dd>
    <dt>CSS</dt>
    <dd>Cascading Style Sheets</dd>
</dl>
```

65. <dt></dt>

Kya karta hai: Description term

Example: <dt>JavaScript</dt>

66. <dd></dd>

Kya karta hai: Description definition

Example: <dd>Programming language for web</dd>

TABLE TAGS (Data presentation)

67. <table></table>

Kya karta hai: Table container

Example: <table border="1">...table content...</table>

68. <caption></caption>

Kya karta hai: Table title

Example: <caption>Student Marks Sheet</caption>

69. <thead></thead>

Kya karta hai: Table header section

Example: <thead><tr><th>Name</th><th>Marks</th></tr></thead>

70. `<tbody></tbody>`
Kya karta hai: Table body section
Example: `<tbody><tr><td>John</td><td>85</td></tr></tbody>`
71. `<tfoot></tfoot>`
Kya karta hai: Table footer section
Example: `<tfoot><tr><td>Total</td><td>170</td></tr></tfoot>`
72. `<tr></tr>`
Kya karta hai: Table row
Example: `<tr><td>Cell 1</td><td>Cell 2</td></tr>`
73. `<th></th>`
Kya karta hai: Table header cell
Attributes:
 - `scope="col"` (Column header)
 - `scope="row"` (Row header)
 - `colspan="2"` (Span 2 columns)
 - `rowspan="2"` (Span 2 rows)Example: `<th scope="col" colspan="2">Student Details</th>`
74. `<td></td>`
Kya karta hai: Table data cell
Attributes:
 - `colspan="2"` (Merge 2 columns)
 - `rowspan="2"` (Merge 2 rows)
 - `headers="header1"` (Associate with header)Example: `<td colspan="2">Merged cell</td>`
75. `<col>`
Kya karta hai: Column properties
Example: `<col span="2" style="background-color: yellow">`
76. `<colgroup></colgroup>`
Kya karta hai: Group columns
Example: `<colgroup><col span="2"><col style="color: red"></colgroup>`

Complete Table Example:

```
<table border="1">
  <caption>Class Results</caption>
  <colgroup>
    <col style="background: lightblue">
    <col span="2" style="background: lightgreen">
  </colgroup>
  <thead>
    <tr>
      <th scope="col">Student</th>
      <th scope="col">Math</th>
      <th scope="col">Science</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <th scope="row">Rahul</th>
      <td>85</td>
      <td>90</td>
    </tr>
    <tr>
      <th scope="row">Priya</th>
      <td>92</td>
      <td>88</td>
    </tr>
  </tbody>
</table>
```

```

<tfoot>
  <tr>
    <th scope="row">Average</th>
    <td>88.5</td>
    <td>89</td>
  </tr>
</tfoot>
</table>

```



INTERACTIVE CONTENT TAGS

77. `<details></details>`
 Kya karta hai: Collapsible content
 Example: `<details>`
 `<summary>Click to expand</summary>`
 `<p>Hidden content here</p>`
 `</details>`
78. `<summary></summary>`
 Kya karta hai: Details heading
 Example: `<summary>More Information</summary>`
79. `<dialog></dialog>`
 Kya karta hai: Modal dialog
 Example: `<dialog open>`
 `<p>This is a dialog box</p>`
 `<button>Close</button>`
 `</dialog>`
80. `<data></data>`
 Kya karta hai: Machine-readable data
 Example: `<data value="12345">Product #12345</data>`



FORM SECTION TAGS (User input area)



FORM CONTAINER

81. `<form></form>`
 Kya karta hai: Form container
 Attributes:
- `action="submit.php"` (Where to send data)
 - `method="post"` (How to send: get/post)
 - `enctype="multipart/form-data"` (For file uploads)
 - `target="_blank"` (Where to open result)
 - `autocomplete="off"` (Disable autocomplete)
 - `novalidate` (Disable validation)
- Example: `<form action="process.php" method="post" enctype="multipart/form-data">`



INPUT ELEMENTS

82. `<input>`
 Kya karta hai: Various input types
 Text Inputs:
- `<input type="text" placeholder="Enter name">`
 - `<input type="email" placeholder="Email address">`
 - `<input type="password" placeholder="Password">`
 - `<input type="search" placeholder="Search here">`

- `<input type="url" placeholder="Website URL">`
- `<input type="tel" placeholder="Phone number">`

Number Inputs:

- `<input type="number" min="1" max="100" step="1">`
- `<input type="range" min="0" max="10" value="5">`

Date/Time Inputs:

- `<input type="date">`
- `<input type="time">`
- `<input type="datetime-local">`
- `<input type="month">`
- `<input type="week">`

Selection Inputs:

- `<input type="checkbox" checked>`
- `<input type="radio" name="gender" value="male">`
- `<input type="radio" name="gender" value="female">`

File and Color:

- `<input type="file" accept=".jpg,.png" multiple>`
- `<input type="color" value="#ff0000">`

Buttons:

- `<input type="submit" value="Submit Form">`
- `<input type="reset" value="Clear Form">`
- `<input type="button" value="Click Me">`

Hidden:

- `<input type="hidden" name="user_id" value="123">`

83. `<textarea></textarea>`

Kya karta hai: Multi-line text input

Attributes:

- `rows="4"` (Height in lines)
- `cols="50"` (Width in characters)
- `placeholder="Enter message"`
- `maxlength="500"` (Character limit)
- `wrap="hard"` (Text wrapping)

Example: `<textarea rows="5" cols="40" placeholder="Your message here"></textarea>`

84. `<select></select>`

Kya karta hai: Dropdown select

Attributes:

- `multiple` (Allow multiple selections)
- `size="3"` (Show 3 options at once)

Example: `<select name="city" multiple>`

```

    <option value="mumbai">Mumbai</option>
    <option value="delhi" selected>Delhi</option>
    <option value="bangalore">Bangalore</option>
</select>

```

85. `<option></option>`

Kya karta hai: Select options

Attributes:

- `value="option_value"` (Value sent to server)
- `selected` (Pre-selected option)
- `disabled` (Cannot select)

Example: `<option value="india" selected>India</option>`

86. `<optgroup></optgroup>`

Kya karta hai: Group options

Example: `<optgroup label="Indian Cities">`

```
        <option value="mumbai">Mumbai</option>
        <option value="delhi">Delhi</option>
    </optgroup>
```

🔗 FORM LABELS AND GROUPING

87. `<label></label>`
Kya karta hai: Input labels
Methods:
- `<label for="name">Name:</label><input id="name" type="text">`
- `<label>Name: <input type="text"></label>`
Example: `<label for="email" class="required">Email*</label>`
88. `<fieldset></fieldset>`
Kya karta hai: Group related form elements
Example: `<fieldset>`
 `<legend>Personal Information</legend>`
 `<input type="text" placeholder="Name">`
 `<input type="email" placeholder="Email">`
 `</fieldset>`
89. `<legend></legend>`
Kya karta hai: Fieldset title
Example: `<legend>Contact Details</legend>`

🔗 FORM CONTROLS

90. `<button></button>`
Kya karta hai: Clickable buttons
Types:
- `<button type="submit">Submit Form</button>`
- `<button type="reset">Clear Form</button>`
- `<button type="button">Custom Action</button>`
- `<button disabled>Disabled Button</button>`
Example: `<button type="submit" class="btn-primary">Send Message</button>`
91. `<datalist></datalist>`
Kya karta hai: Predefined options for input
Example: `<input list="browsers">`
 `<datalist id="browsers">`
 `<option value="Chrome">`
 `<option value="Firefox">`
 `<option value="Safari">`
 `</datalist>`
92. `<output></output>`
Kya karta hai: Calculation result
Example: `<output name="result" for="a b">0</output>`
93. `<progress></progress>`
Kya karta hai: Progress bar
Example: `<progress value="70" max="100">70%</progress>`
94. `<meter></meter>`
Kya karta hai: Gauge/meter
Example: `<meter value="8" min="0" max="10">8 out of 10</meter>`

Complete Form Example:

```
<form action="submit.php" method="post" enctype="multipart/form-data">
    <fieldset>
        <legend>Personal Information</legend>
```

```

<label for="name">Full Name*</label>
<input type="text" id="name" name="name" required>

<label for="email">Email*</label>
<input type="email" id="email" name="email" required>

<label for="phone">Phone</label>
<input type="tel" id="phone" name="phone">

<label for="dob">Date of Birth</label>
<input type="date" id="dob" name="dob">

<label for="website">Website</label>
<input type="url" id="website" name="website">
</fieldset>

<fieldset>
  <legend>Preferences</legend>

  <label for="city">City</label>
  <select id="city" name="city">
    <option value="">Select City</option>
    <optgroup label="Metro Cities">
      <option value="mumbai">Mumbai</option>
      <option value="delhi">Delhi</option>
      <option value="bangalore">Bangalore</option>
    </optgroup>
  </select>

  <fieldset>
    <legend>Gender</legend>
    <label><input type="radio" name="gender" value="male"> Male</label>
    <label><input type="radio" name="gender" value="female"> Female</label>
    <label><input type="radio" name="gender" value="other"> Other</label>
  </fieldset>

  <label><input type="checkbox" name="newsletter"> Subscribe to
newsletter</label>

  <label for="photo">Profile Photo</label>
  <input type="file" id="photo" name="photo" accept="image/*">

  <label for="message">Message</label>
  <textarea id="message" name="message" rows="4" placeholder="Your message
here"></textarea>
</fieldset>

  <button type="submit">Submit Form</button>
  <button type="reset">Clear Form</button>
</form>

```

🚩 FOOTER SECTION TAGS (Website ka bottom area)

👉 FOOTER LAYOUT

95. <footer></footer>
 Kya karta hai: Page/section footer
 Example: <footer>
 <p>© 2025 Company Name. All rights reserved.</p>
 <nav>Footer navigation</nav>

</footer>

TECHNICAL AND SPECIALIZED TAGS

96. `<noscript></noscript>`
Kya karta hai: Content when JavaScript disabled
Example: `<noscript>Please enable JavaScript</noscript>`
97. `<template></template>`
Kya karta hai: HTML template for JavaScript
Example: `<template id="my-template">
 <div>Template content</div>
</template>`
98. `<slot></slot>`
Kya karta hai: Web Components slot
Example: `<slot name="header">Default header</slot>`
99. `<canvas></canvas>`
Kya karta hai: Drawing area for graphics
Example: `<canvas id="myCanvas" width="400" height="200"></canvas>`
100. `<svg></svg>`
Kya karta hai: Scalable Vector Graphics
Example: `<svg width="100" height="100">
 <circle cx="50" cy="50" r="40" fill="red"/>
</svg>`
101. `$$`
Kya karta hai: Mathematical expressions
Example: `<math><mrow><mi>x</mi><mo>=</mo><mn>2</mn></mrow></math>`
102. `<bdi></bdi>`
Kya karta hai: Bidirectional isolation
Example: `<bdi>عربي</bdi> text in English sentence`
103. `<bdo></bdo>`
Kya karta hai: Bidirectional override
Example: `<bdo dir="rtl">This text will be right-to-left</bdo>`
104. `<wbr>`
Kya karta hai: Word break opportunity
Example: `This<wbr>Is<wbr>A<wbr>Very<wbr>Long<wbr>Word`
105. `<area>`
Kya karta hai: Image map areas
Example: `<area shape="rect" coords="0,0,50,50" href="link.html">`
106. `<map></map>`
Kya karta hai: Image map container
Example: `<map name="imagemap">
 <area shape="circle" coords="50,50,25" href="circle.html">
</map>`

RESPONSIVE AND MOBILE TAGS

Mobile Viewport:
`<meta name="viewport" content="width=device-width, initial-scale=1.0">`

Responsive Images:

```
<picture>
  <source media="(min-width: 1200px)" srcset="large.jpg">
  <source media="(min-width: 768px)" srcset="medium.jpg">
  
</picture>
```

Preload Resources:

```
<link rel="preload" href="font.woff2" as="font" type="font/woff2" crossorigin>
<link rel="prefetch" href="next-page.html">
<link rel="dns-prefetch" href="//example.com">
```



GLOBAL ATTRIBUTES (Har tag mein use kar sakte hain)

Core Attributes:

- `id="unique-id"` - Unique identifier
- `class="class-name"` - CSS class
- `style="color: red;"` - Inline CSS
- `title="tooltip text"` - Tooltip on hover

Language:

- `lang="en"` - Content language
- `dir="ltr"` or `"rtl"` - Text direction
- `translate="yes"` or `"no"` - Translation hint

Interaction:

- `tabindex="1"` - Tab order
- `accesskey="k"` - Keyboard shortcut
- `contenteditable="true"` - Editable content
- `draggable="true"` - Drag and drop
- `hidden` - Hide element
- `spellcheck="true"` - Spell checking

Data:

- `data-*="value"` - Custom data attributes
Example: `data-user-id="123"`, `data-toggle="modal"`

ARIA (Accessibility):

- `role="button"` - Element role
- `aria-label="Description"` - Accessible name
- `aria-hidden="true"` - Hide from screen readers
- `aria-expanded="false"` - Collapsed state

Events (JavaScript):

- `onclick="function()"` - Click event
- `onload="function()"` - Load event
- `onchange="function()"` - Change event
- `onsubmit="function()"` - Form submit



COMPLETE WEBSITE TEMPLATE - HEADER TO FOOTER

```
<!DOCTYPE html>
<html lang="en">
<head>
  <!-- HEADER METADATA -->
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta name="description" content="Complete HTML example website">
  <meta name="keywords" content="html, tutorial, example">
```



```

<meta name="author" content="Your Name">

<!-- TITLE AND RESOURCES -->
<title>Complete HTML Example</title>
<link rel="icon" href="favicon.ico">
<link rel="stylesheet" href="styles.css">
<link rel="preconnect" href="https://fonts.googleapis.com">
</head>
<body>
  <!-- HEADER SECTION -->
  <header>
    <h1>My Complete Website</h1>
    <nav>
      <ul>
        <li><a href="#home">Home</a></li>
        <li><a href="#about">About</a></li>
        <li><a href="#services">Services</a></li>
        <li><a href="#contact">Contact</a></li>
      </ul>
    </nav>
  </header>

  <!-- MAIN CONTENT AREA -->
  <main>
    <!-- HOME SECTION -->
    <section id="home">
      <h2>Welcome to Our Website</h2>
      <p>This is a <strong>complete example</strong> of HTML elements.</p>

      <!-- MEDIA CONTENT -->
      <figure>
        
        <figcaption>Our amazing product</figcaption>
      </figure>

      <!-- VIDEO CONTENT -->
      <video controls width="400">
        <source src="intro.mp4" type="video/mp4">
        <track src="subtitles.vtt" kind="subtitles" srclang="en">
        Your browser doesn't support video.
      </video>
    </section>

    <!-- ABOUT SECTION -->
    <section id="about">
      <h2>About Us</h2>
      <article>
        <h3>Our Story</h3>
        <p>We started in <time datetime="2020">2020</time> with a simple
idea.</p>

        <blockquote cite="founder.html">
          "Innovation is our key to success"
        </blockquote>

        <!-- LISTS -->
        <h4>Our Values</h4>
        <ul>
          <li><strong>Quality</strong> - We deliver the best</li>
          <li><em>Innovation</em> - Always thinking ahead</li>
          <li><mark>Customer First</mark> - You are our priority</li>
        </ul>

        <!-- DEFINITION LIST -->
        <dl>

```

```

        <dt>Mission</dt>
        <dd>To provide excellent service to our customers</dd>
        <dt>Vision</dt>
        <dd>To be the leading company in our industry</dd>
    </dl>
</article>
</section>

<!-- SERVICES SECTION -->
<section id="services">
    <h2>Our Services</h2>

    <!-- TABLE -->
    <table border="1">
        <caption>Service Pricing</caption>
        <thead>
            <tr>
                <th scope="col">Service</th>
                <th scope="col">Price</th>
                <th scope="col">Duration</th>
            </tr>
        </thead>
        <tbody>
            <tr>
                <td>Web Design</td>
                <td>₹25,000</td>
                <td>2 weeks</td>
            </tr>
            <tr>
                <td>SEO</td>
                <td>₹15,000</td>
                <td>1 month</td>
            </tr>
        </tbody>
    </table>

    <!-- INTERACTIVE CONTENT -->
    <details>
        <summary>More Services</summary>
        <p>We also offer mobile app development and digital
marketing.</p>
    </details>
</section>

<!-- CONTACT FORM SECTION -->
<section id="contact">
    <h2>Contact Us</h2>

    <!-- CONTACT FORM -->
    <form action="submit.php" method="post" enctype="multipart/form-
data">
        <fieldset>
            <legend>Personal Information</legend>

            <label for="name">Full Name*</label>
            <input type="text" id="name" name="name" required>

            <label for="email">Email*</label>
            <input type="email" id="email" name="email" required>

            <label for="phone">Phone</label>
            <input type="tel" id="phone" name="phone">
        </fieldset>

```

```

<fieldset>
  <legend>Project Details</legend>

  <label for="service">Service Needed</label>
  <select id="service" name="service">
    <option value="">Select Service</option>
    <option value="web-design">Web Design</option>
    <option value="seo">SEO</option>
    <option value="mobile-app">Mobile App</option>
  </select>

  <label for="budget">Budget Range</label>
  <input type="range" id="budget" name="budget" min="10000"
max="100000" value="25000">
  <output for="budget">₹25,000</output>

  <fieldset>
    <legend>Project Type</legend>
    <label><input type="radio" name="type" value="new"> New
Project</label>
    <label><input type="radio" name="type" value="redesign">
Redesign</label>
    <label><input type="radio" name="type"
value="maintenance"> Maintenance</label>
  </fieldset>

  <label><input type="checkbox" name="urgent"> Urgent
Project</label>

  <label for="files">Upload Files</label>
  <input type="file" id="files" name="files" multiple
accept=".pdf, .doc, .jpg, .png">

  <label for="message">Project Description</label>
  <textarea id="message" name="message" rows="5"
placeholder="Describe your project requirements"></textarea>
</fieldset>

  <button type="submit">Send Request</button>
  <button type="reset">Clear Form</button>
</form>

<!-- CONTACT INFORMATION -->
<address>
  <strong>Our Office:</strong><br>
  123 Business Street<br>
  Mumbai, Maharashtra 400001<br>
  Email: <a
href="mailto:info@company.com">info@company.com</a><br>
  Phone: <a href="tel:+919876543210">+91 98765 43210</a>
</address>
</section>
</main>

<!-- SIDEBAR -->
<aside>
  <h3>Latest News</h3>
  <article>
    <h4>Company Update</h4>
    <time datetime="2025-07-31">July 31, 2025</time>
    <p>We're expanding our services...</p>
  </article>

  <h3>Quick Links</h3>

```

```

    <nav>
      <ul>
        <li><a href="portfolio.html">Portfolio</a></li>
        <li><a href="blog.html">Blog</a></li>
        <li><a href="careers.html">Careers</a></li>
      </ul>
    </nav>
  </aside>

  <!-- FOOTER SECTION -->
  <footer>
    <div>
      <h4>Company Info</h4>
      <p>&copy; 2025 My Company. All rights reserved.</p>
      <small>Design by Your Name</small>
    </div>

    <nav>
      <h4>Quick Links</h4>
      <ul>
        <li><a href="privacy.html">Privacy Policy</a></li>
        <li><a href="terms.html">Terms of Service</a></li>
        <li><a href="sitemap.html">Sitemap</a></li>
      </ul>
    </nav>
  </footer>

  <!-- JAVASCRIPT AND FALLBACKS -->
  <script src="script.js"></script>
  <noscript>
    <p>Please enable JavaScript for better experience.</p>
  </noscript>
</body>
</html>

```

HTML BEST PRACTICES (Header to Footer workflow)

✅ HEADER SECTION TIPS:

- Always start with <!DOCTYPE html>
- Include proper meta tags in <head>
- Link CSS files before JavaScript
- Use semantic <header> and <nav> tags
- Organize navigation logically

✅ MAIN CONTENT TIPS:

- Use proper heading hierarchy (h1, h2, h3...)
- Group related content in <section>
- Use <article> for independent content
- Optimize images with alt attributes
- Structure lists and tables properly

✅ FORM SECTION TIPS:

- Use proper form validation
- Associate labels with inputs
- Group related fields with <fieldset>
- Provide clear error messages
- Make forms accessible

✅ FOOTER SECTION TIPS:

- Include important links and info
- Add copyright information

- Use semantic <footer> tag
- Keep it organized and clean

✅ OVERALL STRUCTURE:

- Follow semantic HTML5 structure
- Use proper nesting and indentation
- Validate HTML regularly
- Ensure accessibility compliance
- Optimize for SEO and performance

🔥 MODERN HTML FEATURES

```
<!-- Progressive Web App -->
<link rel="manifest" href="manifest.json">
<meta name="theme-color" content="#000000">

<!-- Service Workers -->
<script>
if ('serviceWorker' in navigator) {
    navigator.serviceWorker.register('sw.js');
}
</script>

<!-- Web Components -->
<template id="my-template">
    <style>
        :host { display: block; }
    </style>
    <slot></slot>
</template>

<!-- Modern Input Types -->
<input type="color" value="#ff0000">
<input type="range" min="0" max="100" value="50">
<input type="date">
<input type="time">
```

📖 YE COMPLETE HTML ENCYCLOPEDIA HAI!

🗑️ HEADER SE FOOTER TAK ORGANIZED!

Total Tags Covered: 106+ tags with workflow examples

Ab aap perfectly organized tarike se HTML likh sakte hain! 🚀💪

1. <!DOCTYPE html>

Kya karta hai: Browser ko batata hai ki ye HTML5 document hai

Kaise use kare: Hamesha file ke top pe likhte hain

Example: <!DOCTYPE html>

2. <html></html>

Kya karta hai: Poora webpage iske andar aata hai

Kaise use kare: Sabse starting aur ending tag

Example: <html lang="en">...</html>

3. <head></head>

Kya karta hai: Website ki information (title, CSS links etc)

Kaise use kare: User ko dikhta nahi, but browser ke liye important

Example: <head><title>Meri Website</title></head>

4. <body></body>

Kya karta hai: Jo content user ko dikhta hai wo sab yahan
Kaise use kare: Visible content yahan likhte hain
Example: `<body><h1>Welcome</h1></body>`

TEXT FORMATTING TAGS (Text ko style karne ke liye)

5. `<h1>` to `<h6>`
Kya karta hai: Headings banane ke liye (h1 sabse bada, h6 sabse chota)
Kaise use kare: `<h1>Main Title</h1>`, `<h2>Sub Title</h2>`
Example: `<h1>Mera Blog</h1> <h2>Chapter 1</h2>`
6. `<p></p>`
Kya karta hai: Paragraph banane ke liye
Kaise use kare: Normal text likhne ke liye
Example: `<p>Ye mera first paragraph hai.</p>`
7. `
`
Kya karta hai: Line break (new line)
Kaise use kare: Self-closing tag, ending tag nahi chahiye
Example: First line
`
`Second line
8. `<hr>`
Kya karta hai: Horizontal line banata hai
Kaise use kare: Content ko separate karne ke liye
Example: `<hr>` (divider line)
9. ``
Kya karta hai: Text ko bold banata hai (important content)
Kaise use kare: `Important text`
Example: `Dhyan se padhiye!`
10. ``
Kya karta hai: Text ko italic banata hai (emphasis)
Kaise use kare: `Emphasized text`
Example: `Ye important point hai`
11. ``
Kya karta hai: Text ko bold banata hai (visual effect)
Kaise use kare: `Bold text`
Example: `Bold heading`
12. `<i></i>`
Kya karta hai: Text ko italic banata hai (visual effect)
Kaise use kare: `<i>Italic text</i>`
Example: `<i>Movie ka naam</i>`
13. `<u></u>`
Kya karta hai: Text ko underline karta hai
Kaise use kare: `<u>Underlined text</u>`
Example: `<u>Important note</u>`
14. `<mark></mark>`
Kya karta hai: Text ko highlight karta hai (yellow background)
Kaise use kare: `<mark>Highlighted text</mark>`
Example: `<mark>Ye exam mein aayega</mark>`
15. `<small></small>`
Kya karta hai: Text ko chota banata hai
Kaise use kare: `<small>Small text</small>`
Example: `<small>Copyright notice</small>`

16. ``

Kya karta hai: Subscript text (neech wala text)

Kaise use kare: `H₂O`

Example: Chemical formula: `H₂O`

17. ``

Kya karta hai: Superscript text (upar wala text)

Kaise use kare: `x²`

Example: Math formula: `x² + y²`



LINK AND MEDIA TAGS (Links aur images ke liye)

18. `<a>`

Kya karta hai: Link banane ke liye

Kaise use kare: `Link text`

Example: `Google pe jao`

Different types:

- External link: `Google`
- Internal link: `About page`
- Email link: `Email karo`
- Phone link: `Call karo`
- Same page link: `Section 1`

19. ``

Kya karta hai: Image dikhane ke liye

Kaise use kare: ``

Example: ``

20. `<video></video>`

Kya karta hai: Video player banane ke liye

Kaise use kare: `<video controls><source src="video.mp4"></video>`

Example: `<video controls width="400">`

`<source src="movie.mp4" type="video/mp4">`
`</video>`

21. `<audio></audio>`

Kya karta hai: Audio player banane ke liye

Kaise use kare: `<audio controls><source src="song.mp3"></audio>`

Example: `<audio controls>`

`<source src="song.mp3" type="audio/mp3">`
`</audio>`



LIST TAGS (Lists banane ke liye)

22. ``

Kya karta hai: Unordered list (bullets wali list)

Kaise use kare: `Item 1Item 2`

Example: ``

`Aam`
`Kela`
`Seb`
``

23. ``

Kya karta hai: Ordered list (numbers wali list)

Kaise use kare: `FirstSecond`

Example: ``

```
        <li>Ghar se niklo</li>
        <li>Bus stand jao</li>
        <li>Bus pakdo</li>
    </ol>
```

24.

Kya karta hai: List item (har item ke liye)

Kaise use kare: List item

Example: Shopping list item

25. <dl></dl>

Kya karta hai: Description list

Kaise use kare: <dl><dt>Term</dt><dd>Description</dd></dl>

Example: <dl>

```
    <dt>HTML</dt>
```

```
    <dd>HyperText Markup Language</dd>
```

```
</dl>
```

26. <dt></dt>

Kya karta hai: Description term

Example: <dt>CSS</dt>

27. <dd></dd>

Kya karta hai: Description definition

Example: <dd>Cascading Style Sheets</dd>



TABLE TAGS (Tables banane ke liye)

28. <table></table>

Kya karta hai: Table banane ke liye main container

Kaise use kare: <table>...table content...</table>

29. <tr></tr>

Kya karta hai: Table row (horizontal line)

Kaise use kare: <tr><td>Cell 1</td><td>Cell 2</td></tr>

30. <td></td>

Kya karta hai: Table data cell

Kaise use kare: <td>Cell content</td>

31. <th></th>

Kya karta hai: Table header cell (bold aur center)

Kaise use kare: <th>Header title</th>

32. <thead></thead>

Kya karta hai: Table header section

Example: <thead><tr><th>Name</th><th>Age</th></tr></thead>

33. <tbody></tbody>

Kya karta hai: Table body section

Example: <tbody><tr><td>Raj</td><td>25</td></tr></tbody>

34. <tfoot></tfoot>

Kya karta hai: Table footer section

Example: <tfoot><tr><td>Total</td><td>100</td></tr></tfoot>

Complete Table Example:

```
<table>
```

```
  <thead>
```

```
    <tr><th>Student</th><th>Marks</th></tr>
```

```
</thead>
```



```
<tbody>
  <tr><td>Rahul</td><td>85</td></tr>
  <tr><td>Priya</td><td>92</td></tr>
</tbody>
</table>
```

FORM TAGS (Forms banane ke liye)

35. <form></form>

Kya karta hai: Form container

Kaise use kare: <form action="submit.php" method="post">...</form>

36. <input>

Kya karta hai: Different input fields

Types:

- <input type="text" placeholder="Name likho">
- <input type="email" placeholder="Email address">
- <input type="password" placeholder="Password">
- <input type="number" placeholder="Age">
- <input type="date">
- <input type="checkbox"> Checkbox
- <input type="radio" name="gender"> Radio button
- <input type="file"> File upload
- <input type="submit" value="Submit karo">

37. <textarea></textarea>

Kya karta hai: Large text input (multiple lines)

Kaise use kare: <textarea rows="4" cols="50" placeholder="Message likho"></textarea>

38. <select></select>

Kya karta hai: Dropdown menu

Kaise use kare: <select><option>Option 1</option></select>

39. <option></option>

Kya karta hai: Dropdown options

Example: <option value="mumbai">Mumbai</option>

40. <label></label>

Kya karta hai: Input field ka label

Kaise use kare: <label for="name">Name:</label><input id="name" type="text">

41. <button></button>

Kya karta hai: Clickable button

Kaise use kare: <button type="submit">Submit</button>

Form Example:

```
<form>
  <label for="name">Name:</label>
  <input type="text" id="name" required>

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

  <button type="submit">Submit karo</button>
</form>
```

LAYOUT AND CONTAINER TAGS (Page layout ke liye)

42. `<div></div>`
Kya karta hai: Generic container (block element)
Kaise use kare: Content ko group karne ke liye
Example: `<div class="container">Content yahan</div>`
43. ``
Kya karta hai: Inline container (line ke andar)
Kaise use kare: Text ke part ko style karne ke liye
Example: `<p>Ye red text hai</p>`
44. `<header></header>`
Kya karta hai: Page ya section ka header
Kaise use kare: `<header><h1>Website Title</h1></header>`
45. `<nav></nav>`
Kya karta hai: Navigation menu container
Kaise use kare: `<nav>Home</nav>`
46. `<main></main>`
Kya karta hai: Page ka main content
Kaise use kare: `<main>Main content yahan</main>`
47. `<section></section>`
Kya karta hai: Content sections
Kaise use kare: `<section><h2>About Us</h2></section>`
48. `<article></article>`
Kya karta hai: Independent content (blog post, news)
Kaise use kare: `<article><h2>Blog Post</h2></article>`
49. `<aside></aside>`
Kya karta hai: Sidebar content
Kaise use kare: `<aside>Related links yahan</aside>`
50. `<footer></footer>`
Kya karta hai: Page ya section ka footer
Kaise use kare: `<footer>© 2025 My Website</footer>`

💡 IMPORTANT ATTRIBUTES (Har tag mein use hone wale)

- `id="unique-name"` - Unique identifier
- `class="class-name"` - CSS styling ke liye
- `style="color: red;"` - Inline CSS
- `title="tooltip text"` - Hover pe dikhta hai
- `lang="en"` - Language specify karta hai
- `hidden` - Element ko hide karta hai
- `data-*` - Custom data attributes

🚀 QUICK TIPS (Yaad rakhne wale points)

- ✅ Hamesha opening tag ka closing tag lagao
Wrong: `<p>Text`
Right: `<p>Text</p>`
- ✅ Self-closing tags mein ending tag nahi chahiye
Examples: `
`, `<hr>`, ``, `<input>`

- ✔ Tags ko properly nest karo
Wrong: <p>Text</p>
Right: <p>Text</p>
- ✔ Attribute values ko quotes mein rakho
Wrong:
Right:
- ✔ HTML case-insensitive hai but lowercase use karo
Both work: <P> and <p>
Better: <p>

BASIC WEBSITE TEMPLATE

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Meri Website</title>
</head>
<body>
  <header>
    <h1>Welcome to My Website</h1>
    <nav>
      <a href="#home">Home</a>
      <a href="#about">About</a>
      <a href="#contact">Contact</a>
    </nav>
  </header>

  <main>
    <section id="home">
      <h2>Home Section</h2>
      <p>Ye home page hai.</p>
    </section>

    <section id="about">
      <h2>About Section</h2>
      <p>Humhare baare mein janiye.</p>
    </section>
  </main>

  <footer>
    <p>&copy; 2025 Meri Website. All rights reserved.</p>
  </footer>
</body>
</html>
```

-
1. <!DOCTYPE html>
Kya karta hai: Browser ko batata hai ki ye HTML5 document hai
Kaise use kare: Hamesha file ke top pe likhte hain
Example: <!DOCTYPE html>
 2. <html></html>
Kya karta hai: Poora webpage iske andar aata hai
Kaise use kare: Sabse starting aur ending tag
Example: <html lang="en">...</html>

3. `<head></head>`
Kya karta hai: Website ki metadata (title, CSS links etc)
Kaise use kare: User ko dikhta nahi, but browser ke liye important
Example: `<head><title>Meri Website</title></head>`
4. `<body></body>`
Kya karta hai: Jo content user ko dikhta hai wo sab yahan
Kaise use kare: Visible content yahan likhte hain
Example: `<body><h1>Welcome</h1></body>`
5. `<title></title>`
Kya karta hai: Browser tab mein title dikhata hai
Kaise use kare: `<title>Page Title</title>`
Example: `<title>Meri Website - Home Page</title>`
6. `<meta>`
Kya karta hai: Page ki metadata provide karta hai
Types:
 - `<meta charset="UTF-8">` (Character encoding)
 - `<meta name="viewport" content="width=device-width, initial-scale=1.0">`
 - `<meta name="description" content="Page description">`
 - `<meta name="keywords" content="html, css, javascript">`
 - `<meta name="author" content="Your Name">`
 - `<meta http-equiv="refresh" content="30">` (Auto refresh)
7. `<link>`
Kya karta hai: External files ko link karta hai
Examples:
 - `<link rel="stylesheet" href="style.css">` (CSS file)
 - `<link rel="icon" href="favicon.ico">` (Favicon)
 - `<link rel="preconnect" href="https://fonts.googleapis.com">`
8. `<style></style>`
Kya karta hai: Internal CSS likhne ke liye
Example: `<style>body { background: red; }</style>`
9. `<script></script>`
Kya karta hai: JavaScript code ke liye
Examples:
 - `<script src="script.js"></script>` (External JS)
 - `<script>alert('Hello');</script>` (Internal JS)
10. `<base>`
Kya karta hai: Page ke liye base URL set karta hai
Example: `<base href="https://example.com/" target="_blank">`



TEXT CONTENT TAGS (Text formatting ke liye)

11. `<h1>` to `<h6>`
Kya karta hai: Headings (h1 sabse bada, h6 sabse chota)
Examples:
 - `<h1>Main Title</h1>`
 - `<h2>Sub Title</h2>`
 - `<h3>Section Title</h3>`
 - `<h4>Sub Section</h4>`
 - `<h5>Small Heading</h5>`
 - `<h6>Smallest Heading</h6>`
12. `<p></p>`
Kya karta hai: Paragraph banane ke liye
Example: `<p>Ye mera paragraph hai with bold text.</p>`

13. `
`
Kya karta hai: Line break (new line)
Example: First line
`
`Second line
`
`Third line
14. `<hr>`
Kya karta hai: Horizontal rule (divider line)
Example: Content 1

Content 2
15. `<pre></pre>`
Kya karta hai: Preformatted text (spaces preserve hote hain)
Example: `<pre>`
Text with multiple spaces
And indentation
`</pre>`
16. `<blockquote></blockquote>`
Kya karta hai: Long quotation
Example: `<blockquote cite="source.com">`Ye ek famous quote hai.`</blockquote>`
17. `<q></q>`
Kya karta hai: Short inline quotation
Example: He said `<q>`Hello World`</q>` to everyone.
18. `<cite></cite>`
Kya karta hai: Citation (book, movie names etc)
Example: `<cite>`Harry Potter`</cite>` is a famous book.
19. `<abbr></abbr>`
Kya karta hai: Abbreviation with full form
Example: `<abbr title="HyperText Markup Language">`HTML`</abbr>`
20. `<address></address>`
Kya karta hai: Contact information
Example: `<address>`123 Street, City
`
`Email: test@email.com`</address>`
21. `<time></time>`
Kya karta hai: Date/time information
Example: `<time datetime="2025-07-31">`July 31, 2025`</time>`

🔧 TEXT FORMATTING TAGS (Text styling ke liye)

22. ``
Kya karta hai: Important text (bold + semantic meaning)
Example: ``Ye bahut important hai!``
23. ``
Kya karta hai: Emphasized text (italic + semantic meaning)
Example: ``Dhyan se suno``
24. ``
Kya karta hai: Bold text (visual only)
Example: ``Bold text``
25. `<i></i>`
Kya karta hai: Italic text (visual only)
Example: `<i>`Italic text`</i>`
26. `<u></u>`
Kya karta hai: Underlined text
Example: `<u>`Underlined text`</u>`

27. `<s></s>`
Kya karta hai: Strikethrough text
Example: `<s>Cut kiya gaya text</s>`
28. `<mark></mark>`
Kya karta hai: Highlighted text (yellow background)
Example: `<mark>Important note</mark>`
29. `<small></small>`
Kya karta hai: Smaller text
Example: `<small>Fine print</small>`
30. ``
Kya karta hai: Deleted text
Example: Price: `₹100` ₹80
31. `<ins></ins>`
Kya karta hai: Inserted text
Example: Updated: `<ins>New content added</ins>`
32. ``
Kya karta hai: Subscript
Example: H`₂`O, CO`₂`
33. ``
Kya karta hai: Superscript
Example: E = mc`²`, 10`th` grade
34. `<code></code>`
Kya karta hai: Code snippet
Example: Use `<code>console.log()</code>` for debugging
35. `<kbd></kbd>`
Kya karta hai: Keyboard input
Example: Press `<kbd>Ctrl</kbd>` + `<kbd>C</kbd>` to copy
36. `<samp></samp>`
Kya karta hai: Sample output
Example: Output: `<samp>Hello World</samp>`
37. `<var></var>`
Kya karta hai: Variable names
Example: Let `<var>x</var>` = 10
38. `<dfn></dfn>`
Kya karta hai: Definition term
Example: `<dfn>HTML</dfn>` is a markup language
39. `<ruby></ruby>`, `<rt></rt>`, `<rp></rp>`
Kya karta hai: Ruby annotations (Asian languages)
Example: `<ruby>漢<rt>han</rt></ruby>`



LINK AND NAVIGATION TAGS

40. `<a>`
Kya karta hai: Hyperlinks banane ke liye
Different types:
- `External link`
- `Internal page`
- `Same page section`

- `Email link`
- `Phone link`
- `Download link`
- `New tab`
- `No follow`

41. `<nav></nav>`

Kya karta hai: Navigation container

Example: `<nav>Home | About</nav>`



MEDIA TAGS (Images, Videos, Audio)

42. ``

Kya karta hai: Images display karne ke liye

Attributes:

- `src="image.jpg"` (Image source)
- `alt="Description"` (Alternative text)
- `width="300" height="200"` (Dimensions)
- `title="Tooltip text"`
- `loading="lazy"` (Lazy loading)
- `srcset="small.jpg 480w, large.jpg 800w"` (Responsive)

Example: ``

43. `<picture></picture>`

Kya karta hai: Responsive images

Example: `<picture>`

`<source media="(min-width: 800px)" srcset="large.jpg">`

``

`</picture>`

44. `<figure></figure>`

Kya karta hai: Image with caption container

Example: `<figure>`

``

`<figcaption>2025 Sales Data</figcaption>`

`</figure>`

45. `<figcaption></figcaption>`

Kya karta hai: Caption for figure

Example: `<figcaption>Image caption here</figcaption>`

46. `<video></video>`

Kya karta hai: Video player

Attributes:

- `controls` (Show controls)
- `autoplay` (Auto start)
- `loop` (Repeat)
- `muted` (No sound)
- `poster="thumbnail.jpg"` (Thumbnail)

Example: `<video controls width="400" poster="thumb.jpg">`

`<source src="movie.mp4" type="video/mp4">`

`<source src="movie.webm" type="video/webm">`

Video not supported

`</video>`

47. `<audio></audio>`

Kya karta hai: Audio player

Example: `<audio controls>`

`<source src="song.mp3" type="audio/mp3">`

`<source src="song.ogg" type="audio/ogg">`

Audio not supported
</audio>

48. <source>
Kya karta hai: Media source for video/audio
Example: <source src="video.mp4" type="video/mp4">
49. <track>
Kya karta hai: Subtitles for video
Example: <track src="subtitles.vtt" kind="subtitles" srclang="en">
50. <embed>
Kya karta hai: External content embed
Example: <embed src="document.pdf" type="application/pdf" width="600" height="400">
51. <object></object>
Kya karta hai: External object embed
Example: <object data="flash.swf" type="application/x-shockwave-flash"></object>
52. <param>
Kya karta hai: Parameters for object
Example: <param name="movie" value="flash.swf">
53. <iframe></iframe>
Kya karta hai: Inline frame (embed other pages)
Example: <iframe src="https://youtube.com/embed/VIDEO_ID" width="560" height="315"></iframe>

LIST TAGS (Different types of lists)

54.
Kya karta hai: Unordered list (bullet points)
Example:
 First item
 Second item
 Third item

55.
Kya karta hai: Ordered list (numbers)
Attributes:
- type="1" (Numbers: 1,2,3)
- type="A" (Letters: A,B,C)
- type="a" (Small letters: a,b,c)
- type="I" (Roman: I,II,III)
- type="i" (Small roman: i,ii,iii)
- start="5" (Start from 5)
- reversed (Reverse order)
Example: <ol type="A" start="3">
 Third item (C)
 Fourth item (D)

56.
Kya karta hai: List item
Attributes:
- value="5" (Custom number for ordered lists)
Example: <li value="10">This will be number 10

57. `<dl></dl>`
Kya karta hai: Description list
Example: `<dl>`
 `<dt>HTML</dt>`
 `<dd>HyperText Markup Language</dd>`
 `<dt>CSS</dt>`
 `<dd>Cascading Style Sheets</dd>`
 `</dl>`
58. `<dt></dt>`
Kya karta hai: Description term
Example: `<dt>JavaScript</dt>`
59. `<dd></dd>`
Kya karta hai: Description definition
Example: `<dd>Programming language for web</dd>`



TABLE TAGS (Complete table structure)

60. `<table></table>`
Kya karta hai: Table container
Example: `<table border="1">...table content...</table>`
61. `<caption></caption>`
Kya karta hai: Table title
Example: `<caption>Student Marks Sheet</caption>`
62. `<thead></thead>`
Kya karta hai: Table header section
Example: `<thead><tr><th>Name</th><th>Marks</th></tr></thead>`
63. `<tbody></tbody>`
Kya karta hai: Table body section
Example: `<tbody><tr><td>John</td><td>85</td></tr></tbody>`
64. `<tfoot></tfoot>`
Kya karta hai: Table footer section
Example: `<tfoot><tr><td>Total</td><td>170</td></tr></tfoot>`
65. `<tr></tr>`
Kya karta hai: Table row
Example: `<tr><td>Cell 1</td><td>Cell 2</td></tr>`
66. `<th></th>`
Kya karta hai: Table header cell
Attributes:
- `scope="col"` (Column header)
- `scope="row"` (Row header)
- `colspan="2"` (Span 2 columns)
- `rowspan="2"` (Span 2 rows)
Example: `<th scope="col" colspan="2">Student Details</th>`
67. `<td></td>`
Kya karta hai: Table data cell
Attributes:
- `colspan="2"` (Merge 2 columns)
- `rowspan="2"` (Merge 2 rows)
- `headers="header1"` (Associate with header)
Example: `<td colspan="2">Merged cell</td>`
68. `<col>`

Kya karta hai: Column properties

Example: `<col span="2" style="background-color: yellow">`

69. `<colgroup></colgroup>`

Kya karta hai: Group columns

Example: `<colgroup><col span="2"><col style="color: red"></colgroup>`

Complete Table Example:

```
<table border="1">
  <caption>Class Results</caption>
  <colgroup>
    <col style="background: lightblue">
    <col span="2" style="background: lightgreen">
  </colgroup>
  <thead>
    <tr>
      <th scope="col">Student</th>
      <th scope="col">Math</th>
      <th scope="col">Science</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <th scope="row">Rahul</th>
      <td>85</td>
      <td>90</td>
    </tr>
    <tr>
      <th scope="row">Priya</th>
      <td>92</td>
      <td>88</td>
    </tr>
  </tbody>
  <tfoot>
    <tr>
      <th scope="row">Average</th>
      <td>88.5</td>
      <td>89</td>
    </tr>
  </tfoot>
</table>
```



FORM TAGS (Complete form elements)

70. `<form></form>`

Kya karta hai: Form container

Attributes:

- `action="submit.php"` (Where to send data)
- `method="post"` (How to send: get/post)
- `enctype="multipart/form-data"` (For file uploads)
- `target="_blank"` (Where to open result)
- `autocomplete="off"` (Disable autocomplete)
- `novalidate` (Disable validation)

Example: `<form action="process.php" method="post" enctype="multipart/form-data">`

71. `<input>`

Kya karta hai: Various input types

Text Inputs:

- `<input type="text" placeholder="Enter name">`
- `<input type="email" placeholder="Email address">`

- `<input type="password" placeholder="Password">`
- `<input type="search" placeholder="Search here">`
- `<input type="url" placeholder="Website URL">`
- `<input type="tel" placeholder="Phone number">`

Number Inputs:

- `<input type="number" min="1" max="100" step="1">`
- `<input type="range" min="0" max="10" value="5">`

Date/Time Inputs:

- `<input type="date">`
- `<input type="time">`
- `<input type="datetime-local">`
- `<input type="month">`
- `<input type="week">`

Selection Inputs:

- `<input type="checkbox" checked>`
- `<input type="radio" name="gender" value="male">`
- `<input type="radio" name="gender" value="female">`

File and Color:

- `<input type="file" accept=".jpg,.png" multiple>`
- `<input type="color" value="#ff0000">`

Buttons:

- `<input type="submit" value="Submit Form">`
- `<input type="reset" value="Clear Form">`
- `<input type="button" value="Click Me">`

Hidden:

- `<input type="hidden" name="user_id" value="123">`

72. `<textarea></textarea>`

Kya karta hai: Multi-line text input

Attributes:

- `rows="4"` (Height in lines)
- `cols="50"` (Width in characters)
- `placeholder="Enter message"`
- `maxlength="500"` (Character limit)
- `wrap="hard"` (Text wrapping)

Example: `<textarea rows="5" cols="40" placeholder="Your message here"></textarea>`

73. `<select></select>`

Kya karta hai: Dropdown select

Attributes:

- `multiple` (Allow multiple selections)
- `size="3"` (Show 3 options at once)

Example: `<select name="city" multiple>`

```

    <option value="mumbai">Mumbai</option>
    <option value="delhi" selected>Delhi</option>
    <option value="bangalore">Bangalore</option>
</select>

```

74. `<option></option>`

Kya karta hai: Select options

Attributes:

- `value="option_value"` (Value sent to server)
- `selected` (Pre-selected option)
- `disabled` (Cannot select)

Example: `<option value="india" selected>India</option>`

75. `<optgroup></optgroup>`

Kya karta hai: Group options

Example: `<optgroup label="Indian Cities">
 <option value="mumbai">Mumbai</option>
 <option value="delhi">Delhi</option>
</optgroup>`

76. `<label></label>`

Kya karta hai: Input labels

Methods:

- `<label for="name">Name:</label><input id="name" type="text">`
- `<label>Name: <input type="text"></label>`

Example: `<label for="email" class="required">Email*</label>`

77. `<fieldset></fieldset>`

Kya karta hai: Group related form elements

Example: `<fieldset>
 <legend>Personal Information</legend>
 <input type="text" placeholder="Name">
 <input type="email" placeholder="Email">
</fieldset>`

78. `<legend></legend>`

Kya karta hai: Fieldset title

Example: `<legend>Contact Details</legend>`

79. `<button></button>`

Kya karta hai: Clickable buttons

Types:

- `<button type="submit">Submit Form</button>`
- `<button type="reset">Clear Form</button>`
- `<button type="button">Custom Action</button>`
- `<button disabled>Disabled Button</button>`

Example: `<button type="submit" class="btn-primary">Send Message</button>`

80. `<datalist></datalist>`

Kya karta hai: Predefined options for input

Example: `<input list="browsers">
 <datalist id="browsers">
 <option value="Chrome">
 <option value="Firefox">
 <option value="Safari">
 </datalist>`

81. `<output></output>`

Kya karta hai: Calculation result

Example: `<output name="result" for="a b">0</output>`

82. `<progress></progress>`

Kya karta hai: Progress bar

Example: `<progress value="70" max="100">70%</progress>`

83. `<meter></meter>`

Kya karta hai: Gauge/meter

Example: `<meter value="8" min="0" max="10">8 out of 10</meter>`

Complete Form Example:

```
<form action="submit.php" method="post" enctype="multipart/form-data">  
  <fieldset>  
    <legend>Personal Information</legend>  
  
    <label for="name">Full Name*</label>  
    <input type="text" id="name" name="name" required>  
  
    <label for="email">Email*</label>
```

```

<input type="email" id="email" name="email" required>

<label for="phone">Phone</label>
<input type="tel" id="phone" name="phone">

<label for="dob">Date of Birth</label>
<input type="date" id="dob" name="dob">

<label for="website">Website</label>
<input type="url" id="website" name="website">
</fieldset>

<fieldset>
  <legend>Preferences</legend>

  <label for="city">City</label>
  <select id="city" name="city">
    <option value="">Select City</option>
    <optgroup label="Metro Cities">
      <option value="mumbai">Mumbai</option>
      <option value="delhi">Delhi</option>
      <option value="bangalore">Bangalore</option>
    </optgroup>
  </select>

  <fieldset>
    <legend>Gender</legend>
    <label><input type="radio" name="gender" value="male"> Male</label>
    <label><input type="radio" name="gender" value="female"> Female</label>
    <label><input type="radio" name="gender" value="other"> Other</label>
  </fieldset>

  <label><input type="checkbox" name="newsletter"> Subscribe to
newsletter</label>

  <label for="photo">Profile Photo</label>
  <input type="file" id="photo" name="photo" accept="image/*">

  <label for="message">Message</label>
  <textarea id="message" name="message" rows="4" placeholder="Your message
here"></textarea>
</fieldset>

<button type="submit">Submit Form</button>
<button type="reset">Clear Form</button>
</form>

```



LAYOUT AND SEMANTIC TAGS (Page structure ke liye)

84. <div></div>
 Kya karta hai: Generic block container
 Example: <div class="container">Content group</div>
85.
 Kya karta hai: Generic inline container
 Example: <p>This is highlighted text</p>
86. <header></header>
 Kya karta hai: Page/section header
 Example: <header>
 <h1>Website Title</h1>

```
    <nav>Navigation here</nav>
</header>
```

87. <nav></nav>

Kya karta hai: Navigation links

Example: <nav>

```
    <ul>
      <li><a href="/">Home</a></li>
      <li><a href="/about">About</a></li>
      <li><a href="/contact">Contact</a></li>
    </ul>
  </nav>
```

88. <main></main>

Kya karta hai: Main content area

Example: <main>

```
    <article>Main article content</article>
    <aside>Sidebar content</aside>
  </main>
```

89. <section></section>

Kya karta hai: Thematic content sections

Example: <section>

```
    <h2>About Us</h2>
    <p>Company information here</p>
  </section>
```

90. <article></article>

Kya karta hai: Independent content

Example: <article>

```
    <h2>Blog Post Title</h2>
    <p>Blog content here</p>
    <footer>Published on: July 31, 2025</footer>
  </article>
```

91. <aside></aside>

Kya karta hai: Sidebar/related content

Example: <aside>

```
    <h3>Related Links</h3>
    <ul><li>Link 1</li><li>Link 2</li></ul>
  </aside>
```

92. <footer></footer>

Kya karta hai: Page/section footer

Example: <footer>

```
    <p>&copy; 2025 Company Name. All rights reserved.</p>
    <nav>Footer navigation</nav>
  </footer>
```

93. <details></details>

Kya karta hai: Collapsible content

Example: <details>

```
    <summary>Click to expand</summary>
    <p>Hidden content here</p>
  </details>
```

94. <summary></summary>

Kya karta hai: Details heading

Example: <summary>More Information</summary>

95. <dialog></dialog>

Kya karta hai: Modal dialog

Example: <dialog open>

```
    <p>This is a dialog box</p>
```

```
        <button>Close</button>
    </dialog>
```

96. <data></data>

Kya karta hai: Machine-readable data

Example: <data value="12345">Product #12345</data>

Complete Semantic Layout Example:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Semantic Layout Example</title>
</head>
<body>
    <header>
        <h1>My Website</h1>
        <nav>
            <ul>
                <li><a href="/">Home</a></li>
                <li><a href="/blog">Blog</a></li>
                <li><a href="/contact">Contact</a></li>
            </ul>
        </nav>
    </header>

    <main>
        <section>
            <h2>Welcome Section</h2>
            <p>Main content area</p>
        </section>

        <article>
            <header>
                <h2>Blog Post Title</h2>
                <time datetime="2025-07-31">July 31, 2025</time>
            </header>
            <p>Article content here...</p>
            <footer>
                <p>Tags: HTML, CSS, JavaScript</p>
            </footer>
        </article>

        <aside>
            <h3>Sidebar</h3>
            <details>
                <summary>Archive</summary>
                <ul>
                    <li>July 2025</li>
                    <li>June 2025</li>
                </ul>
            </details>
        </aside>
    </main>

    <footer>
        <p>&copy; 2025 My Website</p>
    </footer>
</body>
</html>
```

-
-
97. `<noscript></noscript>`
Kya karta hai: Content when JavaScript disabled
Example: `<noscript>Please enable JavaScript</noscript>`
98. `<template></template>`
Kya karta hai: HTML template for JavaScript
Example: `<template id="my-template">
 <div>Template content</div>
</template>`
99. `<slot></slot>`
Kya karta hai: Web Components slot
Example: `<slot name="header">Default header</slot>`
100. `<canvas></canvas>`
Kya karta hai: Drawing area for graphics
Example: `<canvas id="myCanvas" width="400" height="200"></canvas>`
101. `<svg></svg>`
Kya karta hai: Scalable Vector Graphics
Example: `<svg width="100" height="100">
 <circle cx="50" cy="50" r="40" fill="red"/>
</svg>`
102. `$$`
Kya karta hai: Mathematical expressions
Example: `<math><mrow><mi>x</mi><mo>=</mo><mn>2</mn></mrow></math>`
103. `<bdi></bdi>`
Kya karta hai: Bidirectional isolation
Example: `<bdi>عربي</bdi> text in English sentence`
104. `<bdo></bdo>`
Kya karta hai: Bidirectional override
Example: `<bdo dir="rtl">This text will be right-to-left</bdo>`
105. `<wbr>`
Kya karta hai: Word break opportunity
Example: `This<wbr>Is<wbr>A<wbr>Very<wbr>Long<wbr>Word`
106. `<area>`
Kya karta hai: Image map areas
Example: `<area shape="rect" coords="0,0,50,50" href="link.html">`
107. `<map></map>`
Kya karta hai: Image map container
Example: `<map name="imagemap">
 <area shape="circle" coords="50,50,25" href="circle.html">
</map>`
-
-

MOBILE AND RESPONSIVE TAGS

Mobile Viewport:

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

Responsive Images:

```
<picture>  
  <source media="(min-width: 1200px)" srcset="large.jpg">  
  <source media="(min-width: 768px)" srcset="medium.jpg">
```



```

</picture>
```

Preload Resources:

```
<link rel="preload" href="font.woff2" as="font" type="font/woff2" crossorigin>
<link rel="prefetch" href="next-page.html">
<link rel="dns-prefetch" href="//example.com">
```



GLOBAL ATTRIBUTES (Har tag mein use kar sakte hain)

Core Attributes:

- id="unique-id" - Unique identifier
- class="class-name" - CSS class
- style="color: red;" - Inline CSS
- title="tooltip text" - Tooltip on hover

Language:

- lang="en" - Content language
- dir="ltr" or "rtl" - Text direction
- translate="yes" or "no" - Translation hint

Interaction:

- tabindex="1" - Tab order
- accesskey="k" - Keyboard shortcut
- contenteditable="true" - Editable content
- draggable="true" - Drag and drop
- hidden - Hide element
- spellcheck="true" - Spell checking

Data:

- data-*="value" - Custom data attributes
Example: data-user-id="123", data-toggle="modal"

ARIA (Accessibility):

- role="button" - Element role
- aria-label="Description" - Accessible name
- aria-hidden="true" - Hide from screen readers
- aria-expanded="false" - Collapsed state

Events (JavaScript):

- onclick="function()" - Click event
- onload="function()" - Load event
- onchange="function()" - Change event
- onsubmit="function()" - Form submit



COMPLETE WEBSITE TEMPLATE WITH ALL ELEMENTS

```
<!DOCTYPE html>
<html lang="en">
<head>
  <!-- Meta Information -->
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta name="description" content="Complete HTML example website">
  <meta name="keywords" content="html, tutorial, example">
  <meta name="author" content="Your Name">

  <!-- Title and Icons -->
```

```

<title>Complete HTML Example</title>
<link rel="icon" href="favicon.ico">

<!-- External Resources -->
<link rel="stylesheet" href="styles.css">
<link rel="preconnect" href="https://fonts.googleapis.com">
</head>
<body>
  <!-- Page Header -->
  <header>
    <h1>My Complete Website</h1>
    <nav>
      <ul>
        <li><a href="#home">Home</a></li>
        <li><a href="#about">About</a></li>
        <li><a href="#services">Services</a></li>
        <li><a href="#contact">Contact</a></li>
      </ul>
    </nav>
  </header>

  <!-- Main Content -->
  <main>
    <!-- Home Section -->
    <section id="home">
      <h2>Welcome to Our Website</h2>
      <p>This is a <strong>complete example</strong> of HTML elements.</p>

      <!-- Media Content -->
      <figure>
        
        <figcaption>Our amazing product</figcaption>
      </figure>

      <!-- Video -->
      <video controls width="400">
        <source src="intro.mp4" type="video/mp4">
        <track src="subtitles.vtt" kind="subtitles" srclang="en">
        Your browser doesn't support video.
      </video>
    </section>

    <!-- About Section -->
    <section id="about">
      <h2>About Us</h2>
      <article>
        <h3>Our Story</h3>
        <p>We started in <time datetime="2020">2020</time> with a simple
idea.</p>

        <blockquote cite="founder.html">
          "Innovation is our key to success"
        </blockquote>

        <!-- Lists -->
        <h4>Our Values</h4>
        <ul>
          <li><strong>Quality</strong> - We deliver the best</li>
          <li><em>Innovation</em> - Always thinking ahead</li>
          <li><mark>Customer First</mark> - You are our priority</li>
        </ul>

        <!-- Definition List -->
        <dl>
          <dt>Mission</dt>

```

```

        <dd>To provide excellent service to our customers</dd>
        <dt>Vision</dt>
        <dd>To be the leading company in our industry</dd>
    </dl>
</article>
</section>

<!-- Services Section -->
<section id="services">
    <h2>Our Services</h2>

    <!-- Table -->
    <table border="1">
        <caption>Service Pricing</caption>
        <thead>
            <tr>
                <th scope="col">Service</th>
                <th scope="col">Price</th>
                <th scope="col">Duration</th>
            </tr>
        </thead>
        <tbody>
            <tr>
                <td>Web Design</td>
                <td>₹25,000</td>
                <td>2 weeks</td>
            </tr>
            <tr>
                <td>SEO</td>
                <td>₹15,000</td>
                <td>1 month</td>
            </tr>
        </tbody>
    </table>

    <!-- Interactive Content -->
    <details>
        <summary>More Services</summary>
        <p>We also offer mobile app development and digital
marketing.</p>
    </details>
</section>

<!-- Contact Section -->
<section id="contact">
    <h2>Contact Us</h2>

    <!-- Contact Form -->
    <form action="submit.php" method="post" enctype="multipart/form-
data">
        <fieldset>
            <legend>Personal Information</legend>

            <label for="name">Full Name*</label>
            <input type="text" id="name" name="name" required>

            <label for="email">Email*</label>
            <input type="email" id="email" name="email" required>

            <label for="phone">Phone</label>
            <input type="tel" id="phone" name="phone">
        </fieldset>

        <fieldset>

```

```

<legend>Project Details</legend>

<label for="service">Service Needed</label>
<select id="service" name="service">
    <option value="">Select Service</option>
    <option value="web-design">Web Design</option>
    <option value="seo">SEO</option>
    <option value="mobile-app">Mobile App</option>
</select>

<label for="budget">Budget Range</label>
<input type="range" id="budget" name="budget" min="10000"
max="100000" value="25000">
<output for="budget">₹25,000</output>

<fieldset>
    <legend>Project Type</legend>
    <label><input type="radio" name="type" value="new"> New
Project</label>
    <label><input type="radio" name="type" value="redesign">
Redesign</label>
    <label><input type="radio" name="type"
value="maintenance"> Maintenance</label>
</fieldset>

    <label><input type="checkbox" name="urgent"> Urgent
Project</label>

    <label for="files">Upload Files</label>
    <input type="file" id="files" name="files" multiple
accept=".pdf, .doc, .jpg, .png">

    <label for="message">Project Description</label>
    <textarea id="message" name="message" rows="5"
placeholder="Describe your project requirements"></textarea>
</fieldset>

    <button type="submit">Send Request</button>
    <button type="reset">Clear Form</button>
</form>

<!-- Contact Information -->
<address>
    <strong>Our Office:</strong><br>
    123 Business Street<br>
    Mumbai, Maharashtra 400001<br>
    Email: <a
href="mailto:info@company.com">info@company.com</a><br>
    Phone: <a href="tel:+919876543210">+91 98765 43210</a>
</address>
</section>
</main>

<!-- Sidebar -->
<aside>
    <h3>Latest News</h3>
    <article>
        <h4>Company Update</h4>
        <time datetime="2025-07-31">July 31, 2025</time>
        <p>We're expanding our services...</p>
    </article>

    <h3>Quick Links</h3>
    <nav>

```

```

        <ul>
            <li><a href="portfolio.html">Portfolio</a></li>
            <li><a href="blog.html">Blog</a></li>
            <li><a href="careers.html">Careers</a></li>
        </ul>
    </nav>
</aside>

<!-- Page Footer -->
<footer>
    <div>
        <h4>Company Info</h4>
        <p>&copy; 2025 My Company. All rights reserved.</p>
        <small>Design by Your Name</small>
    </div>

    <nav>
        <h4>Quick Links</h4>
        <ul>
            <li><a href="privacy.html">Privacy Policy</a></li>
            <li><a href="terms.html">Terms of Service</a></li>
            <li><a href="sitemap.html">Sitemap</a></li>
        </ul>
    </nav>
</footer>

<!-- JavaScript -->
<script src="script.js"></script>

<!-- Fallback for JavaScript disabled -->
<noscript>
    <p>Please enable JavaScript for better experience.</p>
</noscript>
</body>
</html>

```

IMPORTANT TIPS FOR HTML MASTERY

✅ STRUCTURE TIPS:

- Always use <!DOCTYPE html> for HTML5
- Include lang attribute: <html lang="en">
- Use semantic tags for better SEO and accessibility
- Nest tags properly: <p>text</p>

✅ ACCESSIBILITY TIPS:

- Always use alt attribute for images
- Use proper heading hierarchy (h1, h2, h3...)
- Associate labels with form inputs
- Use ARIA attributes when needed

✅ SEO TIPS:

- Write descriptive title tags
- Use meta descriptions
- Use proper heading structure
- Include structured data when possible

✅ PERFORMANCE TIPS:

- Optimize images (use appropriate formats and sizes)
- Use lazy loading: loading="lazy"
- Preload critical resources
- Minimize HTML file size

✅ BEST PRACTICES:

- Use lowercase for tag names and attributes
- Quote all attribute values
- Close all tags properly
- Validate your HTML regularly
- Use semantic HTML over div soup
- Keep code clean and indented

✅ MODERN HTML FEATURES:

- Use CSS Grid and Flexbox for layouts
- Implement Progressive Web App features
- Use Web Components when appropriate
- Follow mobile-first responsive design

🔥 BONUS: HTML5 API RELATED TAGS

```
<!-- Geolocation -->
<button onclick="getLocation()">Get My Location</button>

<!-- Local Storage -->
<script>
localStorage.setItem('name', 'value');
sessionStorage.setItem('temp', 'data');
</script>

<!-- Web Workers -->
<script>
const worker = new Worker('worker.js');
</script>

<!-- Service Workers (PWA) -->
<script>
if ('serviceWorker' in navigator) {
    navigator.serviceWorker.register('sw.js');
}
</script>

<!-- WebRTC -->
<video id="localVideo" autoplay muted></video>
<video id="remoteVideo" autoplay></video>

<!-- WebGL -->
<canvas id="webgl-canvas"></canvas>
```

📖 YE COMPLETE ENCYCLOPEDIA SAVE KAR LO!
🔥 AB AAP HTML EXPERT HAIN!

Total Tags Covered: 107+ tags with examples
Practice karte raho aur websites banate raho! 🚀