**HTML :**

**HTML stands for HyperText Markup Language. It is used to design web pages using a markup language. HTML is a combination of Hypertext and Markup language.**

**Hypertext defines the link between web pages. A markup language is used to define the text document within the tag which defines the structure of web pages.**

**This language is used to annotate (make notes for the computer) text so that a machine can understand it and manipulate text accordingly. Most markup languages (e.g. HTML) are human-readable.**

**The language uses tags to define what manipulation has to be done on the text.**

**HTML is a markup language used by the browser to manipulate text, images, and other content, in order to display it in the required format. HTML was created by Tim Berners-Lee in 1991.**

**Features of HTML:**

* **It is easy to learn and easy to use.**
* **It is platform-independent.**
* **Images, videos, and audio can be added to a web page.**
* **Hypertext can be added to the text.**
* **It is a markup language.**

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* **It is a simple markup language. Its implementation is easy.**
* **It is used to create a website.**
* **Helps in developing fundamentals about web programming.**
* **Boost professional career.**

**Advantages:**

* **HTML is used to build websites.**
* **It is supported by all browsers.**
* **It can be integrated with other languages like CSS, JavaScript, etc.**

**Disadvantages:**

* **HTML can only create static web pages. For dynamic web pages, other languages have to be used.**
* **A large amount of code has to be written to create a simple web page.**
* **The security feature is not good.**

**Basic syntex of the html:**

<!DOCTYPE html>

<html>

<head>

<title></title>

</head>

<body>

</body>

</html>

**Tags:**

* **</br>Tag:**br stands for break line.it breaks the line of the code.
* **<pre>Tag:**for pre formatting the text**</pre>**
* **<code>Tag:**for coding**</code>**
* **<i>Tag:**for italic text formatting**</i>**
* **<b>Tag:**for bold text formatting**</b.**
* **<mark>Tag:**to mark important texts**</mark>**
* **<u>Tag:**tounderline the text **</u>**
* **<sup>Tag:**superscript**</sup>**
* **<sub>Tag:**subscript **</sub>**
* **<small>Tag:**for showing text as small**</small>**
* **<big>Tag:**for showing the text as big**</big>**
* **<del>Tag:**to delete (cross line)the text**</del>**

**HTML BACKground with Images:**

**<bgcolor=”red”>** we have to give this attribute in side the body only.(the background may change as red )**.**

**< text=”yellow” background=”give image location/give image name.jpg”/>**we have to give this attributes in side the body only.(the background may change as with a image and the text with yellow )**.**

**HTML IMAGES:**

**HTML img tag** is used to display image on the web page.HTML img tag is an empty tag that contains attributes only,closing tags are not used in HTML image element.

The src and alt are important attributes of HTML img tag.

1. **src:** it is necessary attribute that describes the source or path of the image.
2. **alt:** the alt attribute defines an alternate text for the image,if it cant be displayed.
3. **Width:** it is an attribute which is used to specify the width to display the image.
4. **Height:** it is used to specify the height to display the image.

**< img src=”give image location/give image name.jpg” alt=”name of the image” width=”...” height=”...”/>**

**Tables in HTML:**

**T**he HTML tables allow web authors to arrrange data like text,images,links,other tables,etc.into rows and columns of cells.

The HTML tables are created using the <table>tagin which the <tr>tag is used to create tables rows and <td> tag is used to create data cells.The elements under <td>are regular and left alingned by default.

**<body>**

**<table>**

**<tr>**

**<td></td>**

**</tr>**

**</table>**

**</body>**

**Ex: Tables in html**

<!DOCTYPE html>

<html>

<head>

<title>my webpage</title>

</head>

<body>

<table border = 2 cellpadding=3 cellspacing=3 bordercolor="red" width=”...” height=”..”>

<caption>Tables in html</caption>

<tr>

<td>student name</td>

<td>marks</td>

<td>grade</td>

</tr>

<tr>

<td>Manoj</td>

<td>900</td>

<td>first class</td>

</tr>

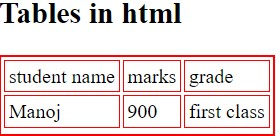
<tr>

</table>

</body>

</html>

**Out put:**



**rowspan&colspan** these attributes to be used for repeat the inoformation as row and col wise.

**Lists In HTML:**

HTML lists are used to specify lists of information.All lists may contain one or more list elements.These are three different types of HTML lists:

Order list or numbered list**(ol)**

Unorder list or bulleted list**(ul)**

Description list or defination list**(dl)**

In the ordered HTML lists,all the list items are marked with numbers by default.It is known as numbered list also.The ordered list starts with <ol>tag(ordered list) and the list items start with <li>tag(list items).

**Ex: with ordered list (ol)**

<!DOCTYPE html>

<html>

<head>

<title>my webpage</title>

</head>

<h2>ordered list in html</h3>

<body>

<ol>

<li>html</li>

<li>css</li>

<li>java</li>

<li>python</li>

</ol>

</body>

</html>

**Out Put:**



**Ex:with unordered list(ul)**

<!DOCTYPE html>

<html>

<head>

<title>my webpage</title>

</head>

<h2>unordered list in html</h3>

<body>

<ul type="cirle">

<li>html</li>

<li>css</li>

<li>java</li>

<li>python</li>

</ul>

</body>

</html>

**Out Put:**



**Ex:with Description list (dl)**

<!DOCTYPE html>

<html>

<head>

<title>my webpage</title>

</head>

<h2>Discription list in html</h3>

<body>

<dl>

<dt>html</dt>

<dd>hyper text markup language</dd>

<dt>css</dt>

<dd>cascode style sheets</dd>

<dt>js</dt>

<dd>java sciprt</dd>

<dt>python</dt>

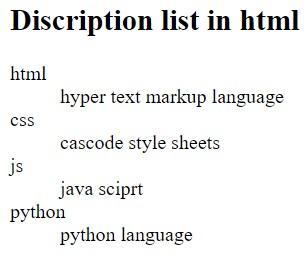
<dd>python language</dd>

</ul>

</body>

</html>

**Out Put:**

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The <dd> tag is used to describe a term/name in a description list. The <dd> tag is used in conjunction with <dl> (defines a description list) and <dt> (defines terms/names). Inside a <dd> tag you can put paragraphs, line breaks, images, links, lists, etc.

**Marquee tag in HTML:**

The Marquee HTML tag is a non-standard HTML element which is used to scroll a image or text horizontally or vertically.

**<marquee></marquee>**

**Ex: with marquee tag**

<!DOCTYPE html>

<html>

<head>

<title>my webpage</title>

</head>

<h2>Marquee tag is used in html</h3>

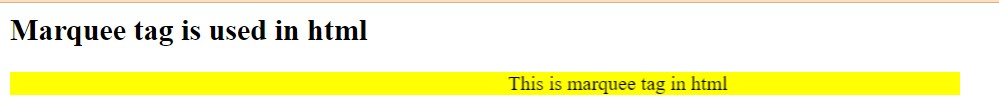
<body>

<marquee bgcolor="yellow" scroll amount=30 direction=right width=50%>This is marquee tag in html</marquee>

</body>

</html>

**Out Put:**

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**Links In HTML:**

The <a> tag defines a hyperlink, which is used to link from one page to another.

The most important attribute of the <a> element is the href attribute, which indicates the link's destination.

By default, links will appear as follows in all browsers:

* An unvisited link is underlined and blue
* A visited link is underlined and purple
* An active link is underlined and red

Syntax: <a href="https://www.marolix.com">Visit maolix.com!</a>

Ex:with link tag in html

<!DOCTYPE html>

<html>

<head>

<title>my webpage</title>

</head>

<h2>link tag is used in html</h3>

<body text="red" alink="yellow" vlink="green">

<a href="https://www.marolix.com">Visit maolix.com!</a>

</body>

</html>

**Out Put:**

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**Audio and video in Html:**

The HTML <audio> and <video>tags make it simple to add medai to a website.you need to set src attribute to identify the medai source and include a controls attribute so the user can play and pause the medai.

Ex:

<!DOCTYPE html>

<html>

<head>

<title>my webpage</title>

</head>

<h2>audio and video used in html</h3>

<body>

<audio>

<source src=”audio location/name of the audio.mp3”/>

</audio>

</body>

</html>

Same syntax for video also but only change is we give video instead of audio.

**Form tag in HTML:**

HTML Forms are required ,when you want to collect some data from the site visitor.For example,during user registration you would like to collect information such as name.email address ,credit card, etc.

There are various form elements available like text fields,textarea fileds,drop-down menus,radio buttons,checkboxes,etc.

The HTML <form>tag is used to create an HTML form and it has following syntax -

<form action -”script url” method-”get|post”>

Form elements like input. Textarea etc.

</form>

**Ex: Internship program form**

<DOCTYPE html>

<html>

<head>

<title>my webpage</title>

</head>

<h2>Internship form</h3>

<body>

<form method="POST">

<p>Enter your full Name:</p>

<input type="Name" placeholder="Full name" Name="name"/>

<p>Enter your email:</p>

<input type="email" placeholder="email" email="email"/>

<p>Enter your password:</p>

<input type="password" placeholder="password" Name="password"/>

<p>Enter your Age:</p>

<input type="Age" Name="Age"/>

<p>Gender:</p>

<input type="radio" value="Male"/>Male

<p>Gender:</p>

<input type="radio" value="Female"/>Female

<p>About your self:</p>

<textarea rows="2" colo="2">

</textarea>

<p>Which progaramming language should you know?</p>

<input type="checkbox" name="c" value="on"/>c</br>

<input type="checkbox" name="c++" value="on"/>c++</br>

<input type="checkbox" name="java script" value="on"/>java script</br>

<input type="checkbox" name="python" value="on"/>python</br>

<input type="checkbox" name="java" value="on"/>java</br>

<p>How many months have to partcipate in our internship?</p>

<select name="dropdown">

<option value="3months">3months</option>

<option value="6months">6months</option>

<option value="9months">9months</option>

<option value="1year">1year</option>

</select>

<p>Resume upload:</p>

<input type="file" value="Filechoosen"/>

<p></p>

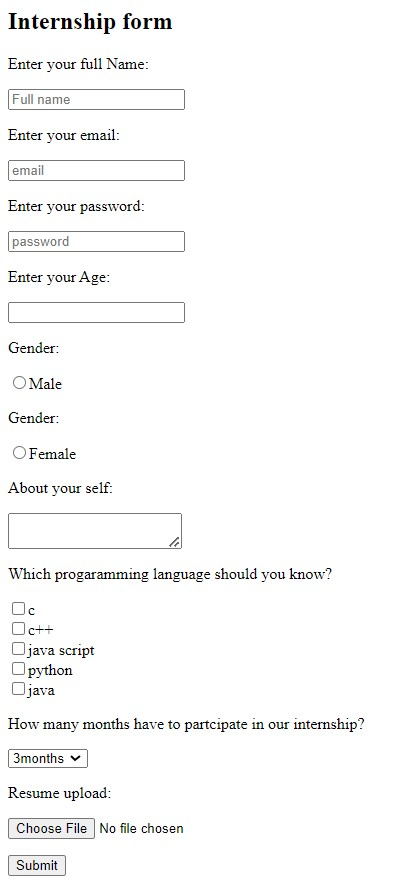
<input type="button" value="Submit"/>

</form>

</body>

</html>

**Out Put:**



**HTML TAGS:**

| Tag | Description |
| --- | --- |
| [<!--...-->](https://www.w3schools.com/tags/tag_comment.asp) | Defines a comment |
| [<!DOCTYPE>](https://www.w3schools.com/tags/tag_doctype.asp) | Defines the document type |
| [<a>](https://www.w3schools.com/tags/tag_a.asp) | Defines a hyperlink |
| [<abbr>](https://www.w3schools.com/tags/tag_abbr.asp) | Defines an abbreviation or an acronym |
| [<address>](https://www.w3schools.com/tags/tag_address.asp) | Defines contact information for the author/owner of a document |
| [<area>](https://www.w3schools.com/tags/tag_area.asp) | Defines an area inside an image map |
| [<article>](https://www.w3schools.com/tags/tag_article.asp) | Defines an article |
| [<aside>](https://www.w3schools.com/tags/tag_aside.asp) | Defines content aside from the page content |
| [<audio>](https://www.w3schools.com/tags/tag_audio.asp) | Defines embedded sound content |
| [<b>](https://www.w3schools.com/tags/tag_b.asp) | Defines bold text |
| [<base>](https://www.w3schools.com/tags/tag_base.asp) | Specifies the base URL/target for all relative URLs in a document |
| [<bdi>](https://www.w3schools.com/tags/tag_bdi.asp) | Isolates a part of text that might be formatted in a different direction from other text outside it |
| [<bdo>](https://www.w3schools.com/tags/tag_bdo.asp) | Overrides the current text direction |
| [<blockquote>](https://www.w3schools.com/tags/tag_blockquote.asp) | Defines a section that is quoted from another source |
| [<body>](https://www.w3schools.com/tags/tag_body.asp) | Defines the document's body |
| [<br>](https://www.w3schools.com/tags/tag_br.asp) | Defines a single line break |
| [<button>](https://www.w3schools.com/tags/tag_button.asp) | Defines a clickable button |
| [<canvas>](https://www.w3schools.com/tags/tag_canvas.asp) | Used to draw graphics, on the fly, via scripting (usually JavaScript) |
| [<caption>](https://www.w3schools.com/tags/tag_caption.asp) | Defines a table caption |
| [<cite>](https://www.w3schools.com/tags/tag_cite.asp) | Defines the title of a work |
| [<code>](https://www.w3schools.com/tags/tag_code.asp) | Defines a piece of computer code |
| [<col>](https://www.w3schools.com/tags/tag_col.asp) | Specifies column properties for each column within a <colgroup> element |
| [<colgroup>](https://www.w3schools.com/tags/tag_colgroup.asp) | Specifies a group of one or more columns in a table for formatting |
| [<data>](https://www.w3schools.com/tags/tag_data.asp) | Adds a machine-readable translation of a given content |
| [<datalist>](https://www.w3schools.com/tags/tag_datalist.asp) | Specifies a list of pre-defined options for input controls |
| [<dd>](https://www.w3schools.com/tags/tag_dd.asp) | Defines a description/value of a term in a description list |
| [<del>](https://www.w3schools.com/tags/tag_del.asp) | Defines text that has been deleted from a document |
| [<details>](https://www.w3schools.com/tags/tag_details.asp) | Defines additional details that the user can view or hide |
| [<dfn>](https://www.w3schools.com/tags/tag_dfn.asp) | Specifies a term that is going to be defined within the content |
| [<dialog>](https://www.w3schools.com/tags/tag_dialog.asp) | Defines a dialog box or window |
| [<div>](https://www.w3schools.com/tags/tag_div.asp) | Defines a section in a document |
| [<dl>](https://www.w3schools.com/tags/tag_dl.asp) | Defines a description list |
| [<dt>](https://www.w3schools.com/tags/tag_dt.asp) | Defines a term/name in a description list |
| [<em>](https://www.w3schools.com/tags/tag_em.asp) | Defines emphasized text |
| [<embed>](https://www.w3schools.com/tags/tag_embed.asp) | Defines a container for an external application |
| [<fieldset>](https://www.w3schools.com/tags/tag_fieldset.asp) | Groups related elements in a form |
| [<figcaption>](https://www.w3schools.com/tags/tag_figcaption.asp) | Defines a caption for a <figure> element |
| [<figure>](https://www.w3schools.com/tags/tag_figure.asp) | Specifies self-contained content |
| [<footer>](https://www.w3schools.com/tags/tag_footer.asp) | Defines a footer for a document or section |
| [<form>](https://www.w3schools.com/tags/tag_form.asp) | Defines an HTML form for user input |
| [<h1> to <h6>](https://www.w3schools.com/tags/tag_hn.asp) | Defines HTML headings |
| [<head>](https://www.w3schools.com/tags/tag_head.asp) | Contains metadata/information for the document |
| [<header>](https://www.w3schools.com/tags/tag_header.asp) | Defines a header for a document or section |
| [<hgroup>](https://www.w3schools.com/tags/tag_hgroup.asp) | Defines a header and related content |
| [<hr>](https://www.w3schools.com/tags/tag_hr.asp) | Defines a thematic change in the content |
| [<html>](https://www.w3schools.com/tags/tag_html.asp) | Defines the root of an HTML document |
| [<i>](https://www.w3schools.com/tags/tag_i.asp) | Defines a part of text in an alternate voice or mood |
| [<iframe>](https://www.w3schools.com/tags/tag_iframe.asp) | Defines an inline frame |
| [<img>](https://www.w3schools.com/tags/tag_img.asp) | Defines an image |
| [<input>](https://www.w3schools.com/tags/tag_input.asp) | Defines an input control |
| [<ins>](https://www.w3schools.com/tags/tag_ins.asp) | Defines a text that has been inserted into a document |
| [<kbd>](https://www.w3schools.com/tags/tag_kbd.asp) | Defines keyboard input |
| [<label>](https://www.w3schools.com/tags/tag_label.asp) | Defines a label for an <input> element |
| [<legend>](https://www.w3schools.com/tags/tag_legend.asp) | Defines a caption for a <fieldset> element |
| [<li>](https://www.w3schools.com/tags/tag_li.asp) | Defines a list item |
| [<link>](https://www.w3schools.com/tags/tag_link.asp) | Defines the relationship between a document and an external resource (most used to link to style sheets) |
| [<main>](https://www.w3schools.com/tags/tag_main.asp) | Specifies the main content of a document |
| [<map>](https://www.w3schools.com/tags/tag_map.asp) | Defines an image map |
| [<mark>](https://www.w3schools.com/tags/tag_mark.asp) | Defines marked/highlighted text |
| [<menu>](https://www.w3schools.com/tags/tag_menu.asp) | Defines an unordered list |
| [<meta>](https://www.w3schools.com/tags/tag_meta.asp) | Defines metadata about an HTML document |
| [<meter>](https://www.w3schools.com/tags/tag_meter.asp) | Defines a scalar measurement within a known range (a gauge) |
| [<nav>](https://www.w3schools.com/tags/tag_nav.asp) | Defines navigation links |
| [<noscript>](https://www.w3schools.com/tags/tag_noscript.asp) | Defines an alternate content for users that do not support client-side scripts |
| [<object>](https://www.w3schools.com/tags/tag_object.asp) | Defines a container for an external application |
| [<ol>](https://www.w3schools.com/tags/tag_ol.asp) | Defines an ordered list |
| [<optgroup>](https://www.w3schools.com/tags/tag_optgroup.asp) | Defines a group of related options in a drop-down list |
| [<option>](https://www.w3schools.com/tags/tag_option.asp) | Defines an option in a drop-down list |
| [<output>](https://www.w3schools.com/tags/tag_output.asp) | Defines the result of a calculation |
| [<p>](https://www.w3schools.com/tags/tag_p.asp) | Defines a paragraph |
| [<param>](https://www.w3schools.com/tags/tag_param.asp) | Defines a parameter for an object |
| [<picture>](https://www.w3schools.com/tags/tag_picture.asp) | Defines a container for multiple image resources |
| [<pre>](https://www.w3schools.com/tags/tag_pre.asp) | Defines preformatted text |
| [<progress>](https://www.w3schools.com/tags/tag_progress.asp) | Represents the progress of a task |
| [<q>](https://www.w3schools.com/tags/tag_q.asp) | Defines a short quotation |
| [<rp>](https://www.w3schools.com/tags/tag_rp.asp) | Defines what to show in browsers that do not support ruby annotations |
| [<rt>](https://www.w3schools.com/tags/tag_rt.asp) | Defines an explanation/pronunciation of characters (for East Asian typography) |
| [<ruby>](https://www.w3schools.com/tags/tag_ruby.asp) | Defines a ruby annotation (for East Asian typography) |
| [<s>](https://www.w3schools.com/tags/tag_s.asp) | Defines text that is no longer correct |
| [<samp>](https://www.w3schools.com/tags/tag_samp.asp) | Defines sample output from a computer program |
| [<script>](https://www.w3schools.com/tags/tag_script.asp) | Defines a client-side script |
| [<search>](https://www.w3schools.com/tags/tag_search.asp) | Defines a search section |
| [<section>](https://www.w3schools.com/tags/tag_section.asp) | Defines a section in a document |
| [<select>](https://www.w3schools.com/tags/tag_select.asp) | Defines a drop-down list |
| [<small>](https://www.w3schools.com/tags/tag_small.asp) | Defines smaller text |
| [<source>](https://www.w3schools.com/tags/tag_source.asp) | Defines multiple media resources for media elements (<video> and <audio>) |
| [<span>](https://www.w3schools.com/tags/tag_span.asp) | Defines a section in a document |
| [<strong>](https://www.w3schools.com/tags/tag_strong.asp) | Defines important text |
| [<style>](https://www.w3schools.com/tags/tag_style.asp) | Defines style information for a document |
| [<sub>](https://www.w3schools.com/tags/tag_sub.asp) | Defines subscripted text |
| [<summary>](https://www.w3schools.com/tags/tag_summary.asp) | Defines a visible heading for a <details> element |
| [<sup>](https://www.w3schools.com/tags/tag_sup.asp) | Defines superscripted text |
| [<svg>](https://www.w3schools.com/tags/tag_svg.asp) | Defines a container for SVG graphics |
| [<table>](https://www.w3schools.com/tags/tag_table.asp) | Defines a table |
| [<tbody>](https://www.w3schools.com/tags/tag_tbody.asp) | Groups the body content in a table |
| [<td>](https://www.w3schools.com/tags/tag_td.asp) | Defines a cell in a table |
| [<template>](https://www.w3schools.com/tags/tag_template.asp) | Defines a container for content that should be hidden when the page loads |
| [<textarea>](https://www.w3schools.com/tags/tag_textarea.asp) | Defines a multiline input control (text area) |
| [<tfoot>](https://www.w3schools.com/tags/tag_tfoot.asp) | Groups the footer content in a table |
| [<th>](https://www.w3schools.com/tags/tag_th.asp) | Defines a header cell in a table |
| [<thead>](https://www.w3schools.com/tags/tag_thead.asp) | Groups the header content in a table |
| [<time>](https://www.w3schools.com/tags/tag_time.asp) | Defines a specific time (or datetime) |
| [<title>](https://www.w3schools.com/tags/tag_title.asp) | Defines a title for the document |
| [<tr>](https://www.w3schools.com/tags/tag_tr.asp) | Defines a row in a table |
| [<track>](https://www.w3schools.com/tags/tag_track.asp) | Defines text tracks for media elements (<video> and <audio>) |
| [<u>](https://www.w3schools.com/tags/tag_u.asp) | Defines some text that is unarticulated and styled differently from normal text |
| [<ul>](https://www.w3schools.com/tags/tag_ul.asp) | Defines an unordered list |
| [<var>](https://www.w3schools.com/tags/tag_var.asp) | Defines a variable |
| [<video>](https://www.w3schools.com/tags/tag_video.asp) | Defines embedded video content |
| [<wbr>](https://www.w3schools.com/tags/tag_wbr.asp) | Defines a possible line-break |