# Chapter -0

Introduction

**HTML:- Hyper Text Markup Language**

Html is the language of the web design or structure. It is used to create websites.

We use HTML tags to define look & feel of a websites, with understanding of these tags and how to put then together, we can create beautiful websites easily.

**Then Why CSS and JavaScript.**

**Html** is used for defining layout of a page- It means A backbone of page structure.

**CSS** is used add styling to that backbone page using HTML.

**JavaScript**  is used to program logic for the page layout.

Ex :- What happies when a user havers on a text, when to hide or show elements etc.

**A Beautiful Analogy**

* **HTML >**  Such as :- Car body (Only Mental)
* **CSS >** Car Paint, declaration etc.
* **JavaScript >** Car engine+ Interior logic.

We will start learning how to build beautiful layouts in this course.

**How to run HTML code:-**

* Write your code in simple type in your text editor such as:- Notepad, Wordpad VSC etc.
* Save your File:-
* SimpleDemo.html
* Take care :- 1st of all select all type your features in your file save time then “.html”
* After all progress complete then save.
* Open your file location and run simple.html file any browsers.
* Show your display your html code

**HTML Basic Code:-**

Example-1 :- Basic Syntax of html

<! Doctype html>

<Html>

<Head>

<title> Simple Demo</title>

</head>

<body>

This is Just in simple demo in html file.

</body>

</html>

**How to use Run VSC Installing VsCode**  :- VS code is text editor application provided by Microsoft.

So, We can use any text editor of our choice. Here I am using VS Code and Notepad both, because it is Light Weight, OpenSource and from Microsoft.

**How to Download :-**

* Go to Google Search engine
* Type VS Code Download
* Visit 1st link
* Then Download according to your Operating Systems
* Such as :- Windows, Mac, Linux
* Choose your operating 32bit, 64bit , 84bit etc
* Download then Install and Setup Your VS Code
* If you have not understand then please watch On YouTube Tutorial.

Note:- You Can Write Html even in Notepad. Text editors like VS code just makes these easier.

**Chapter-1**

**Creating Our First Website.**

We start building a websites by creating a file named index .html,

Index.html is a Special filename which is presented when the websites root address is typed.

**A Basic Html Page:-**

<!Doctype html> <! --Specifies this is an html file Doctype -->

<html>          <! --Root of an Html Page -->

<head>          >Contains page metadata

<title>Technology369kk Websites</title>         >Contains title

</head> >headers close

<body> > The main body of the page (recommended by the user lot of statements) such as:-

    <h1>THis is 1st heading</h1> > This is heading tags

    <p>My 1st Paragraph</p>         >This is Paragraph tags

</body> > closing the body tags

</html> > closing the html file tags

**Tags:- A tag is like a container for either content or other Html tags.**

****



**HTML DOC** **Browsers**



**Rendered Page**

**Important Points:-**

* Head and Body tags are Children of Html tags
* Html is the parents of head & Body tags
* Most of the Html elements have opening & closing tag with content in between opening & closing tags.
* Some Html tags have no content, These are called Empty elements. Eg:- <br>
* We can either use htm, or html for extension.
* You can use “Inspect Elements” or “View page source” Option from chrome to look into a website’s HTML Code.

HTML Elements= Start Tags + Content + End Tags

**Comments in Html:-**

Comments in HTML are used to **mark text which should not be passed**. They can help documents the source code.

Ex:- <! -- HTML Comments Start from here,………. Then end of HTML comments -->

Used Shortcut keys:- ctrl + sales ‘/’ Button

Then Single Line Comments all.

**Case Sensitivity :-** HTML is a **case insensitive** language such as:-

<H1> mentions something </h1> Tags are the same.

:- Well My recommended always use small letter from future prefect prog

**Chapter -1**

**Practice Set.**

**Q1. Inspect your favorite websites and change something on the page which is displayed.**

**Hints:-**Open any website **>** Click source list> modified same code > view source

**Q2. Go to your favorite websites and try to view the page source and write the exact lines of code. Does it the websites? Why?**

**Hints :-** Same As above questions 1 but use any official websites such as Wikipedia, it is not prefect clone of sites but same word are match.

**Q3. Write any HTML code inside a text file. Does it work if you write it using notepad.**

**Hints:-**

* 1st of all create a file:- notepad.txt
* Write something html code
* Then rename .txt from .html
* Then save and run
* All are possible, so why use live server with VS Code for future perfect a program

**Chapter -2**

**Basic HTML Tags**

**We** can add elements inside the body tag to define the page the page layout.

**HTML Elements: -** Everything from starting to the ending tag. Always remember this point in html.

**<body> Opening Tags**

Content

**</body> Closing Tags**

**HTML Attributes** :- Used to add more information corresponding to an HTML tags

* <b>Example-1 :- HTML Attributes :- </b><br>
* <a href="https://technology369kk.blogspot.com/">It's my blog</a>

Here:- <a means :- anchor tags

href attributes

We can either use single’….’ or double ‘’…’’ quotes in attributes

**The Heading Tags: -** Headingtags is used to marks heading in html. From h1 to h2, we have tags for the most important to the least least important heading.

  <b>Example-2 :- The Heading tags :- </b><br>

    <h1>Most Important Heading in Post</h1>

    <h2>Another Most Important Heading in Post</h2>

    <h3>Another Most Important Heading in Post</h3>

    <h4>Another Most Important Heading in Post</h4>

    <h5>Another Most Important Heading in Post</h5>

    <h6>Another Most Important Heading in Post</h6>

**The Paragraph Tags: -** Paragraph tagsare used to add paragraph to an HTML page.

<b>Example-3 :- The Paragraph tags :- </b><br>

    <p>This is a simple Paragraph</p>

**The Anchor Tags:** - The Anchor tag is used to add links to existing content inside an HTML page.

<b>Example-3 :- The Anchor tags About Technology369kk :- </b><br>

    <a href="https://technology369kk.blogspot.com/2021/10/what-is-sadsystem-analysis-and-design.html=">Click here and go to SAD topics </a>

**The Image Tags:-** Image tags is used to add images in an HTML page

<b>Example-3 :- The Image tags :- </b><br>

    <!-- There are two types of link url add:- absolute url and relative url-->

    <!-- This is absolute url-- -->

    <img src="file:///D:/Learning%20File/BCA/BCA%203rd%20Sem/HTML/HTML%20by%20Code%20With%20Harry/Chp\_2%20All%20Example.html"width= "200" height="200" alt="This is my pic">

     <!-- This is relative url-- -->

    <img src="IMG\_1172.JPG "width= "200" height="200" alt="This is my pic">

**The Bold, italic, and Tags: -** We can use bold, Italic, and Underline tags to use highlight the text as follows: -

<b>Example-4:-Bold, italic, and Tags:  :- </b><br>

    <B> This Tags Used For Bold</B> <br>

    <i> This Tags Used For Italic</i><br>

    <u> This Tags used for underline</u><br>

    <strike> This Tags used for Strike </strike><br>

    <tt> This is Tags used for Monospaced</tt><br>

**The Br Tags:** - The br tags is used to create a new line break in an HTML Documents.

<b>Example-5:-br Tags:  :- </b><br>

    Hi, I'm Br tags <br>

**Big and Small Tags: -** We can make the text a bit larger and a bit smaller using big and small tags for respectively.

 <b>Example-6:-Bid And Small Tags:- </b><br>

    Hi, I'm <b><big>BIG </big></b> tags to another <br>

    Hi, I'm <b><small>small</small></b> tags to another <br>

**Subscript and Superscript: -** We can add subscript and superscript in HTML as follows:

<b>Example-7:-Subscript and Superscript Tags:- </b><br>

    <p> This is Tags used for Subscript Text</p>

    <p> H<sub>2</sub>O</p>

    <p> An Example:- Find squre roots formula</p>

    <p>ax <sup>2</sup>+bx +c  </p>

**Pre Tags: - I**n HTML always ignore extra space and newlines, in order to display a pices of text as is, we use pre tag:

 <b>Example-8:Pre Tags:- </b><br>

    <pre>

    Lorem ipsum dolor sit amet consectetur adipisicing elit. Vel voluptatem dolore, voluptas doloremque quae voluptate tempore corrupti cupiditate quisquam esse neque?

     Iste vel doloremque corporis, quod aperiam officia quisquam eligendi odit iure quam quae aliquam assumenda quasi at itaque nulla quidem voluptatibus laboriosam facere, adipisci alias dignissimos ullam soluta ad.

    </pre>

**Hr Tags :** - <hr> Tags in HTML is used to create a horizontal ruler often used to separate the content.

   <b>Example-9: hr tags:- </b><br>

   <p>Hi, I am Horizontal tags</p>

   <hr>

**Chapter -2**

**Practice Set.**

Q1. Create an HTML page with a heading(Title Heading), a Primary heading and a subheading which tags did you use?

Ans:- <h1>Mountain</h1>

Lorem, ipsum dolor sit amet consectetur adipisicing elit. Maxime dicta iusto cupiditate minus neque earum ipsam nam nulla, perspiciatis natus consequuntur magni fuga error dolorum maiores autem, sequi quidem a?

<h2>Why is Mountain?</h2>

Lorem ipsum dolor sit amet consectetur adipisicing elit. Nihil a labore cumque vero delectus alias, quis aperiam ex dolores. Illum quod numquam minus dolorem, sunt quia alias nisi pariatur autem libero earum excepturi, omnis velit debitis eligendi dignissimos mollitia. Omnis!

<h3>Popular Mountain:-</h3>

Lorem, ipsum dolor sit amet consectetur adipisicing elit. Saepe unde aliquam natus officiis corrupti autem velit beatae accusamus, magni quibusdam voluptates, nobis at incidunt dolores neque dicta facere dolorum in.

Q2. Create a page with 5 wallpaper image taken from the internet.

<a href="https://technology369kk.blogspot.com/ "><img src=="Enter image url from google " alt="This is solution of Ques5  but not work "></a>

<a href="https://technology369kk.blogspot.com/ "><img src=="Enter image url from google " alt="This is solution of Ques5  but not work "></a>

<a href="https://technology369kk.blogspot.com/ "><img src=="Enter image url from google " alt="This is solution of Ques5  but not work "></a>

<a href="https://technology369kk.blogspot.com/ "><img src=="Enter image url from google " alt="This is solution of Ques5  but not work "></a>

<a href="https://technology369kk.blogspot.com/ "><img src=="Enter image url from google " alt="This is solution of Ques5  but not work "></a>

Q3. Use br and hr tags to display a pices of text with line breaks.

Ans:-

<p><b>I'm Q3 of solution used br tags for line breaks</b></p><br>

<hr>

<p><b>I'm Q3 of solution used hr tags for create a Horizontal line</b></p>

<hr>

Q4. Try to write the following chemical equation using HTML.

**C+O2** 🡪 CO2

Ans:- C+O <sub>2</sub> &rarr; CO <sub>2</sub>

Q5. Try to write a Wikipedia acritical using HTML.

Ans:- <h1>Programming Language</h1>

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Labore laudantium nisi voluptatibus eaque autem voluptatum molestiae dicta, distinctio tenetur fugit rem atque natus officiis deserunt mollitia nemo? Fugiat, vel voluptatem!

**Chapter -3**

**Creating a page layout**

When we use the right tag in right place, it result in a better page layout, better indexing by search engine and better uses experience.

We use the following tag to get the job done.

<header>

<main> **Contains nav tag websites layout**



<footer>

Inside the main tag we insert the following tags:-

<main>   The main opening tag

<section> A Page section

<article> A self-contained content

<aside> Content aside from the content , eg ads etc.

</main> The main closing tag

Creating a page like this is not necessary but creates a readers & structure layout also they are useful for CEO.

**Like Attributes:-**

<a href="https://technology369kk.blogspot.com/">Contect us</a> Contect page opening in same tab

<a href="https://technology369kk.blogspot.com" target="\_blank">Contect us</a> Open in new tab

We can put any content inside an anchor tag (image, heading etc are all allowed)

If the page is inside a directory, we need to make sure that to the content page(Same applies to image tag as well)

<a href="https://technology369kk.blogspot.com" target="\_main"><image/img src="mypic .JPG" alt="Create New Line for visit websites with pic " width="500" </a> <br>

When access image in directory

We can **add links to image** like this :-

<!-- <a href="https://technology369kk.blogspot.com" target="\_main"><img src="mypic .JPG" alt="  Create New Line for visit websites with pic " width="500" </a> <br> -->

Height will be set automatically



**The div tag :- dir tag is often used as a container for other elements div is a block (always takes full width or place)of level elements**

**The Span Tag :- Span is an inline (Takes as much width or place as necessary )container**

**Chapter -3**

**Practice Set.**

Q1. Create an SEO Friendly websites using HTML.

 <p> <b>Q1. Ans:- </b> </p>

    <header>

    </header>

    <main>

        <section></section>

        I am section tag

        <section></section>

        <aside>

            <div></div>

        </aside>

    </main>

    <footer>

        I am footer in semantic tag

    </footer>

Q2. Create an HTML page which opens google when clicked an image.

<p> <b>Q2. Ans:- </b> </p>

    <a href="https://technology369kk.blogspot.com" target="\_main"><img src="image/mypic .JPG" alt="Your work doesn't work" width="150"> </a>

Q3. Create a website which has your 5 top used websites bookmarked. The links should open in a new tab.

<p> <b>Q3. Ans:- Enter your Social Media Site manimum 5 links </b> </p> <br>

<header>

    <li>Home</li>

    <li>About Me</li>

</header>

<a href="https://Facebook.com" target="\_main">Facebook </a> <br>

<hr>

<a href="https://Instagram.com" target="\_main">Instagram  </a> <br>

<hr>

<a href="https://Twitter.com " target="\_main">Twitter </a> <br>

<hr>

<a href="https://google.com" target="\_main">google</a> <br>

<hr>

<a href="https://technology369kk.blogspot.com" target="\_main">Blog</a> <br>

<hr>

<a href="https://YouTube.com" target="\_main">YouTube </a><br>

<hr>

**Chapter -4**

**List, Tables & Forms**

**List: -** Lists are used to display content which represent a list.

**Unordered List:** - Used to unordered items.

<b>Example-1 :- create a unordered list:- </b><br>

        <ul type ="square">

            <li>Home</li>

            <li>About</li>

            <li>Service</li>

            <li>Support</li>

            <li>Contect </li>

        </ul>

**Ordered list: -** Used to list ordered items.

<b>Example-2 :- create a ordered list:- </b><br>

        <ol type ="X">

            <li>Home</li>

            <li>About</li>

            <li>Service</li>

            <li>Support</li>

            <li>Contect </li>

        </ol>

**Tables: -** The <tables> tag is used to define tables in HTML.

It Is used to format & display tabular data.

* **Tr tag:-** Used to display table row.
* **Td tag:-** Used to display table data.
* **Th tag :**- Used to place of table data for displaying table headers.

We can define as many tables rows as we want.

To add a caption to tables, we use <caption> tag inside tables.

* **Thread tag:-** Used to wrap table head ( Caption & tr with th)
* **Tbody tag :**- Used to wrap the table body.

 <b>Example-3 :- create a Table :- </b><br>

    <div>

        <table  border="4" width ="100" hight ="5000">

            <caption><b><font face color = "Blue">Max Score in Free-Fire</font>

            </b></caption> <br>

            <thead>

                <tr>

                    <th>S.No</th>

                    <th>Palyer Name</th>

                    <th>Max Score</th>

                    <th>Game</th>

                </tr>

                <tr>

                    <td>1.</td>

                    <td>Shalu</td>

                    <td>324</td>

                    <td>Free-Fire</td>

                </tr>

            </thead>

            <tbody>

                <tr>

                    <td>2</td>

                    <td>Raj</td>

                    <td>423</td>

                    <td>Free-Fire</td>

                </tr>

                <tr>

                    <td>3</td>

                    <td>Rohit</td>

                    <td>520</td>

                    <td>Free-Fire</td>

                </tr>

            </tbody>

        </table>

    </div>

**Claspin attributes :-** This is used to create cells spanning multiple columns.

**Html Forms :-** An Html forms is used to collect input from the user forms tag is used for the same.

</form>

Element of the forms –

</Forms>

There are different forms elements for different kinds of user input .

* **Input Elements:-** Can be of type text, checkbox, ratio, button, and submit
* **Tesoro Elements :-** Defines a multi-line test input cols and attributes can be used to size the textbox
* **Select element :**- Defines a drop down list.
* <b>Example-4:- Create a Form For Travel :- </b><br>
* <div>
* <h1> Travel Form For Trip</h1>
* <form action="form.php">
* <input type="text" placeholder="Enter Your Name"><br>
* <label for="Sectionida">
* <input type="radio" value="Section a" name="Section" id="Sectionida"> Section A
* </label>
* <label for="Sectionidb">
* <input type="radio" value="Section b" name="Section" id="Sectionidb"> Section B
* </label>
* <label for="Sectionidc">
* <input type="radio" value="Section c" name="Section" id="Sectionidc" class="red blue"> Section C
* </label> <br>
* <input type="checkbox" id="foodcanteen" class="red" name="canteen">
* <label for="foodcanteen">Want Food canteen Card</label><br>
* <textarea name="explain" id="explain" cols="30" rows="10" placeholder="Explain why you wnat to jion "></textarea>
* <select name="car" id="car" >
* <option value="Name of Car">Select Your Car</option>
* <option value="Tesla">Tesla</option>
* <option value="Maruti">Maruti</option>
* <option value="Naino">Naino</option>
* <option value="Dzire">Dzire</option>
* <option value="Omni">Omni</option>
* </select>
* </form>
* </div>

**Note :- You don’t have to remember all the tags, you will automatically memories them with practice.**

**Embedding Video:-** Videotags is used to play video in HTML.

<Video src= ”harry.mp4” > ERROR </video>

<b>Example-5:- Create a Video embedding:- </b><br>

    <div>

        <iframe width="560" height="315" src="https://www.youtube.com/embed/DwolJT1dV7c" title="YouTube video player" frameborder="0"

        allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope; picture-in-picture" allowfullscreen ></iframe> <br>

<hr>

        <iframe src="https://www.bing.com/"frameborder="0" width="890px"></iframe> <br>

<hr>

**Attributes for Video:-**

**We can use:-**

* **Width :-** To adjust width of a video of a video(Height automatically adjusts)
* **We can use autoplay/ loop to autoplay or loop the video.**

<b>Example-6:- Create a Video Attributes:- </b><br>

        <video src="8945502\_10903346\_HD.mp4" controls autoplay width="523" height="150"></video> <br>

<hr>

**Chapter -4**

**Practice Set**

Q1. Create an Html Page with Video Embedded inside it.

Ans:-  <p> <b>Q1. Ans:- </b> </p>

    <div>

        <iframe width="560" height="315" src="https://www.youtube.com/embed/mClF6mJV5xM" title="YouTube video player" frameborder="0" allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope; picture-in-picture" allowfullscreen></iframe>

    </div>

Q2. Replace this video With a YouTube Video

Q3. Create a Html Page form for a travel website to book a vacation.

Q4. Create a table displaying score of cricket players in match using Html.

**Chapter -5**

**SEO (Search Engine Optimization)**

**What is SEO?**

**Search engine optimization (SEO) is the process of improving the quality and quantity of website traffic to a website or a web page from search engines**

But Guys, We Will be Focus on Html Standpoint of SEO. We not be looking into keyword building and content optimization aspect of SEO.

**Types of SEO:-**

**On Page SEO 🡪 Can be done by HTML Developers**

**Off Page SEO**

**HTML SEO** :- Html SEO developers can be implement SEO using the following techniques:

If are a blog then follow this step for you.

1. **Set the title very nice and to the point**
2. **Set the meta description :-**

**<meta name="description" content="Seo is like this is a nice article on seo">**

1. **Set a nice URL Slug**
2. **Set a Meta Keywords**
3. **Set the Meta Authors tag**

**<meta name="keywords" content="seo, search, seo 2021">**

1. **Set a favicon incon (websites in available on google)**

Ans:- <link rel="shortcut icon" href="favicon.ico" type="image/x-icon">

1. **Compress image & others resources**
2. **Remove unused HTML/CSS & JS Files + Compress then (websites in available on google)**
3. **Add alt test to image (websites in available on google)**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="description" content="Seo is like this is a nice article on seo">

    <meta name="keywords" content="seo, search, seo 2021">

    <link rel="shortcut icon" href="favicon.ico" type="image/x-icon">

    <title>SEO in 2022: A beginners guide</title>

</head>

<body>

    <header>

        <nav>

            <ul>

                <li>Home</li>

                <li>About</li>

                <li>Contact Us</li>

            </ul>

        </nav>

    </header>

    <main>

        <section>

            <div>

                <p>Lorem ipsum dolor, sit amet consectetur adipisicing elit. Maiores quo obcaecati delectus,

                    voluptatibus laudantium tempora consequatur. Aspernatur magnam, quam sapiente illum, qui voluptatem

                    tempore totam aut numquam aperiam explicabo ab ex magni iusto sit?</p>

            </div>

        </section>

    </main>

</body>

</html>

**The End**

**Important Tag in Html**