**Class1:**  
[**https://github.com/ghousahmed/Books/**](https://github.com/ghousahmed/Books/) **(Make Profile here)**

HTML is only used to build structure.

HTML standard file name save is “index”

To save HTML file, put extension “.html”

Opening Tag <p>

Closing Tag </p>

Element examples: Paragraph=p, Heading=h

Attribute Name examples: lang

Attribute Value: fr (Paragraphe en Francais), en-us (Paragraph in English)

HTML has 6 Levels of Headings i.e, H1, H2, H3, H4, H5, H6

Superscript=sup

Subscript=sub

For Bold=b ,(<strong> element can also be used for same)

For italic=i,(<em> element can also be used for same)

For Quote=<q></q>

For Abbreviation tooltip/popup= (abbr title= “”) – example <h1 abbr title="My Name is Furqan Qazi">Furqan <br /> Qazi 1<sup>st</sup></h1>

There are two types of elements: Block level element(Heading,), 2nd Inline Element

**Air for Share**

**Microsoft Visual Studio Code, please download this software**

**Assignment # 1: 5 files with title names all names of files different, head body all structure.**

**1 file with own name, father name, address, roll number, mobile number**

**Class 2:**

**DIRECTORY STRUCTURE**

!DOCTYPE: means that we are using latest version of html

When ever we want to add a list, so before coding we have to start with its parent code, i.e <ol> or <ul>

Example: for order list: <ol> & for un-order list: <ul>

**Order List** will show Numbers <ol>

**Un-order** list will show bullets instead of numbers <ul> We can also use this between different list for nested list purpose, for example, Mango and then nested list, Chaunsa, Langra, Begum Phali etc

**Definition List** will show definition of any term, <dt> for Definiation Term and <dd> this contain definition

To hide coding which we have used, type CTRL+Q shortcut of Hide Code

<a href=”https://www.google.com/”>Google</a> is used for link any website

For opening in new tab <a href=<https://www.google.com/>target=”\_blank”>Google</a> is used for link any website

Always main page is index🡪 Remember it is rule and standard… When ever make any website make main page index

Folder is Parent and Folders are brothers to each other

File is Child and files are siblings to each other

For opening pages, files:

<li><a href="pages/home.html">Home</a></li>

<li><a href="pages/about.html">About</a></li>

And for Going Back again from any page:

<a href="../index.html"> Go Back</a>

li= it is List Number, or Bullet point

Open Restaurant, 20 to 25 dishes, for example karhai item so category chicken karhai, dunba karhai (nested list)

Along with list, link also… For example biryani link, With masala, without masala, with Aaloo, without Aaloo (types)

Main folder should be 1 and main file should be index

Every page should have “Back to Home” button

**Class 3:**

Two types of URL: Absolute URL (example www.google.com), Relative URL (example ../../index.html)

mailto:

<a href=<mailto:furqank3qazi@gmail.com>>Email Furqan Qazi</a>

Opening tab in new window:

<a href="http://www.google.com" target="\_blank">

When there is a lot of content and we have to make link for quick go to specific point we can make link of it by giving ID # to Heading and then below procedure will be done before heading by <ul>:

<ul>

<li><a href="#Fourth"> Fourth</a></li>

</ul>

<img> is a self closing tag 🡪 it does not require any closing tag

Src is image source

Alt is used in giving image a description when image is unable to be view. Image will not be viewed and in replace of image it will show description. And if image will be viewed to there will be no description shown: Example:

<img src="images/Flying Invoices.jpg" alt="Check the news for Flying Invoices"/>

For resizing of images, use width and height: example:

<img width="500" height="300" src="images/Flying Invoices.jpg" alt="Check the news for Flying Invoices"/>

For align in left use align=”left” after previous “

Jpg, png, GIF are supported

Figcaption is used to write any description soon after the image which will be shown below the image:

First open <Figure> Parent then <figcaption>

<figure>

<figcaption=”My name is Furqan>

</figure>

<center> </center> is used to centralize image

Assignment: **Image of every category, Restaurant Logo, Dish image**

**Class 4:**

To add a table we have to start with parent tag: <table>

<tr> = table row

<td> = table data/column

<th>= table heading

Table tag has its attributes for borders, example: <table border=”1”>

For making bold heading of table column: use <th> instead on td

<td rowspan=2> for same data in 2 cells up and down will make a single cell, merge and centre

For example same phone number in 2 rows, we want to show both in 1 cell:

<td rowspan="2">03072685829</td>

<td colspan=2> for same data in 2 cells left and right will make a single cell, merge and centre

Cellspacing and cellpadding is used to make table spacing which looks more better

Example: <table cellspacing="10" cellpadding="20" border="1">

For Background color:

Bgcolor=”pink”

Example: <table bgcolor="pink" cellspacing="10" cellpadding="20" border="1">

<tbody> is used for starting table bold border

<tfoot> is used to ending table bold bolder

To make any form we use <form> as a parent tag

Action= it is backend attribute/command used to set target for getting response of users at server

Get method & post method, get method is used to get any thing or get any response and post method is only for providing information not getting any response

Maxlength is used to restrict for limited text in box

Example: <input maxlength="7" type="text"></p>

For making forms we use text form and number form

For text: <input maxlength="7" type="text"></p>

For Number: <p>Phone Number <input type="number"> </p>

For Password input: <p>Password <input type="password"> </p>

For input type date: <input type="date">

**Assignment: Make Chess game by tables and images and give colors also**

**Class 5:**

Server is the one computer which is always connected to the internet

Any thing which is on internet it means it is necessarily saved on any server

All Data is passed through Server and then saved on Database

To enter placeholder (light highlighted text):

<input type="text" placeholder="enter value">

To enter any value on box by default:

<input type="text" value="Furqan Qazi">

For a large area of writing text:

<textarea cols="50" rows="20"></textarea>

For radio Button, choose any one option:

    <p>Gender</p>

    <p><input type="radio" name="Gender"> Male </p>

    <p><input type="radio" name="Gender"> Female </p>

For check box buttons, choose multiple checkboxes and we can select and deselect multiple checkboxes:

 <p>Subject</p>

    <p> <input type="checkbox" name="Subject"> English </p>

    <p> <input type="checkbox" name="Subject"> Math </p>

    <p> <input type="checkbox" name="Subject"> Urdu </p>

To make checked by default to any option:

<p> <input type="checkbox" name="Subject" value="Eng" checked> English </p>

We have to put attribute of value to every field for providing information to server

<p>Subject</p>

    <p> <input type="checkbox" name="Subject" value="Eng" checked> English </p>

    <p> <input type="checkbox" name="Subject" value="Mth"> Math </p>

    <p> <input type="checkbox" name="Subject" value=""> Urdu </p>

For dropdown list:

<select name="City">

        <option value="">Select your City</option>

        <option value="Khi">Karachi</option>

        <option value="Lhr">Lahore</option>

        <option value="Isl" selected>Islamabad</option>

    </select>

For preselected any option:

<option value="Isl" selected>Islamabad</option>

For button of choose File/uploading file:

<p>Upload your picture <input type="file"> </p>

For making submit button:

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

Or

<button>Submit</button>

For labeling options, means if we click any where of gender option it should select so :

<p><label><input type="radio" name="Gender"> Male </label></p>

<p><label><input type="radio" name="Gender"> Female </label></p>

We can also give “label id” and “label for” for making identity of labeling any options

**Assignment: Center aligned form using table, forms, color, and all today’s lecture codes**

**Class 6:**

For Section wise form (Which we generally see on bank forms for Office Use only / For Bank Use Only)

    <form>

    <fieldset>

        <legend>Personal Information</legend>

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

        <br  />

        <label>Email: <input type="Email" required> </label>

        <br  />

        <label>URL: <input type="URL" required </label>

        <br  />

        <button>Submit</button>

    </fieldset>

    </form>

For making mandatory to enter fields in Name, Email and any thing, we use required tag

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

        <br  />

        <label>Email: <input type="Email" required> </label>

To comment in code, which is helpful only for us. It will hide the result from actual run:

Shortcut: CTRL + ?

ID is used to add any attribute to a particular element. ID makes easy to control any element

Block Level Element: The element that Uses complete 1 Line are Block level elements.

Inline Element: Multiple elements can be used in single line are called inline elements.

<div id=”header”></div> 🡪 Used for CSS

<span class="SMIT"> I love SMIT</span> 🡪 Used for CSS

For Google Map / Iframe we use: **Iframe** option and get Embed code from the particular website, like google maps or youtube:

    <iframe src="https://www.google.com/maps/embed?pb=!1m14!1m8!1m3!1d14477.795761581852!2d67.0680661!3d24.8826638!3m2!1i1024!2i768!4f13.1!3m3!1m2!1s0x3eb33eea39ffafe1%3A0x66f953936852019b!2sSaylani%20Welfare%20Int.%20Trust!5e0!3m2!1sen!2s!4v1686935572624!5m2!1sen!2s" width="600" height="450" style="border:0;" allowfullscreen="" loading="lazy" referrerpolicy="no-referrer-when-downgrade"></iframe>

For Youtube Video Embed Code of Iframe: go to youtube and share then embed code HTMl:

<iframe width="560" height="315" src="https://www.youtube.com/embed/6gxoqYOOA6Q" title="YouTube video player" frameborder="0" allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope; picture-in-picture; web-share" allowfullscreen></iframe>

Description is used when website is deployed on google and the search result shows description in our website.

Keywords is used when website is deployed on google and the helps in Optimization of search results.

For adding keywords or description, we use Meta:

<meta name="keywords"

        Content="installation, art, opinion"/>

For copyright icon: <p>&#169;</p>

For Adding Video from Local computer:

<video controls width="500" height="500" src="Baa Baa Black Sheep - The Joy of Sharing!.mp4">Poem</video>

For Adding Audio from Local computer:

<audio controls="autoplay" src="y2mate.com - Ay Khatm e Rusul Makki Madni ﷺ II Zohaib Ashrafi II New Shab e Meraj Special Kalam 2021.mp3"> Naat</audio>

No Assignment ☺**Assignment:** Complete Website on HTML (News Website) Good Name Good logo, 4 to 5 categories, sports, weather, sub categories with picture. Sub categories News also. No Assignment ☺

No Assignment ☺ – Only Test on Monday in class Complete HTML (Form, coding, input)

**Class 7:**

Only Revision of all HTML

CSS Libraries

Libraries are very useful it makes easy to just take ready all the formatting styling already available in library. We can change a little bit in it.

Most popular libraries are:

**Bootstrap, Tailwind**

Whatever we need, header, footer, buttons, logos so many things we can get from libraries.

**Class 8:**

We can use the below codes in place of div as well; all works in same way only name difference:

Link

Aside

Header

Footer

Nav

The alt attribute in img is used in SEO purpose

Google analytics is used to know how many visitors are coming to visit our website.

Server is a system which is powered on 24/7

We buy domain from server

Domain IP Address is provided by server, but IP is difficult to remember so Domain Name is given for ease to remember and use.

Once domain is purchased, now it needs to be hosted. Hosting is to get shared space on 24/7 connected computers to make our site live.

**Further we will learn below libraries and other packages:**

Media Query (For making website mobile responsive)

Flexbox (Learnt from CSS Tricks website) (Flexboxfroggy practice test online)

Grid

Bootstrap (For making website mobile responsive) (Learnt from getbootstrap.com)

Tailwind

CSS Animation (animate.style.com) for animations

Font Awesome (for several icon images)

**Class 9:**

CSS: Cascading Styling Sheet

CSS contains two parts; Selector & Declaration

Declaration sit inside curly brackets {}

In curly brackets there are Property : Value

Three types to use CSS:

1. External: When there is huge amount of formatting in several pages so this is recommended. Here one separate file is created with name style.css and linked in index.html
2. Internal: When we have less amount of pages and we are easy to use styling code within the index.html so this is easy for the user.

Example: <style>

        body {

            background-color: yellow;

        }

    </style>

1. Inline: When we have to use CSS with each tag/element so this is inline type of CSS

Example: <h1 body= background-color: yellow> Furqan </h1)

WE have 8 Selectors

We can connect 2 CSS files with 1 html file

We can also connect 5 HTML files with single css file

CSS Tricks = Very useful for practice

Free codecamp is also very useful and helpful for learning 🡪 Certificate is also issued online

Github readme generator 🡪 We can also take this file from online also in sir profile

UIverse: explore this website it is helpful for css and html

MDbootstrap: explore this website it is also helpful for css and html

**Class 10:**

Foreground color means 🡪 Font Color

rgb means = Red Green Blue

**Assignment: Chess game, color with CSS**

**Forms style**

**All assignments colors**

**And make a single file of all assignments file**

**JAVASCRIPT**

04-08-2023

In Javascript there are already predefined methods, for example Alerts and so many other methods

() indicates that this is a method

“” any thing written in quotes are called string. This is rule

Except number(22332) and Boolean(true/false) all the things will be written in string

While using javascript, always use and open console in browser

For line break we use \n in javascript