

HTML



By CODEMIND Technology

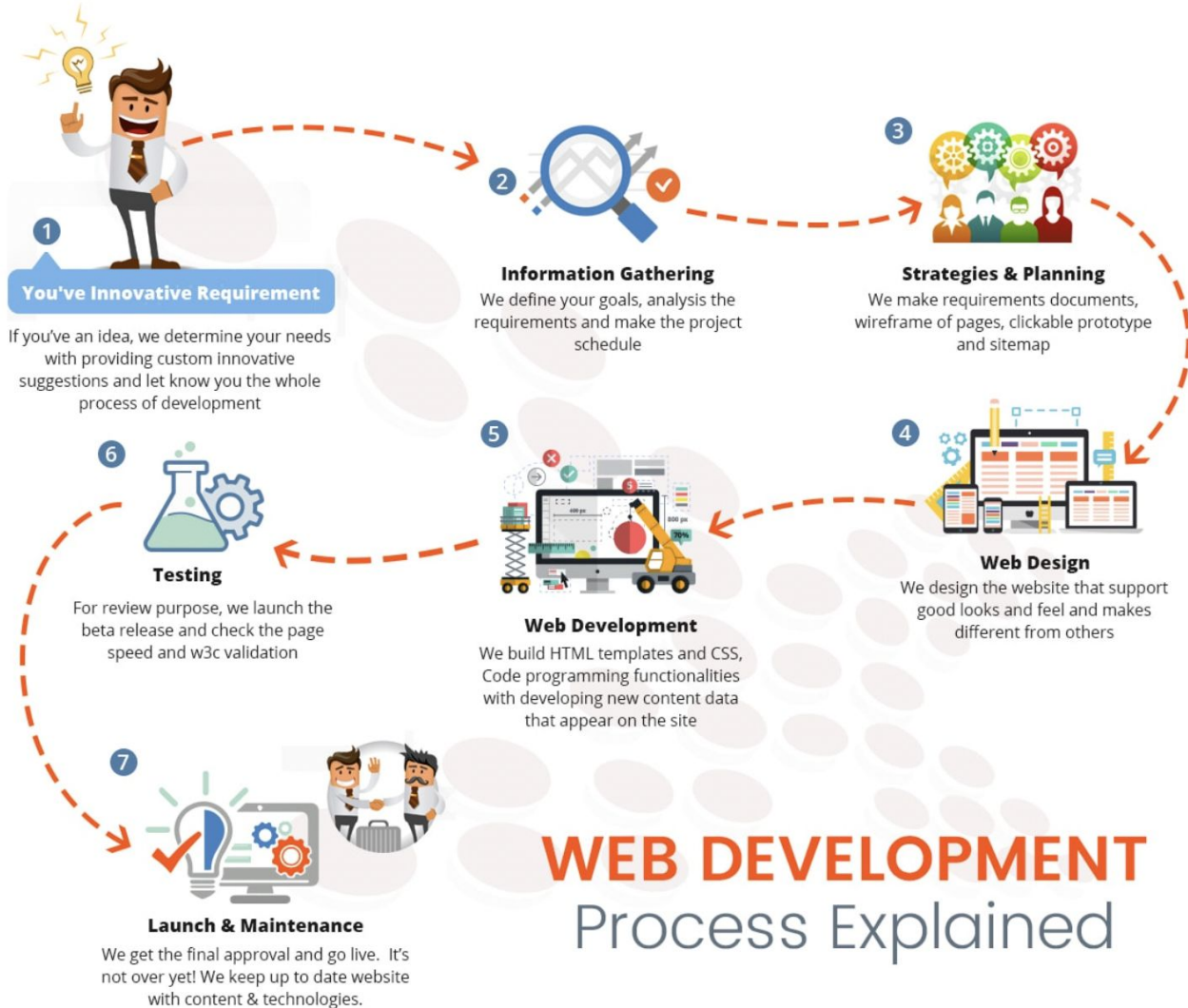
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Software Prerequisite

- Visual Studio Code - VS Code
 - Google Chrome
 - Latest Version
 - Notepad++
 - Snipping Tool - To capture screen shot
-

Web Development Process

Where you will be?



Prerequisite - Software Installation

- VS Code - Visual studio code
 - <https://code.visualstudio.com/download>
- Google Chrome
- Notepad ++ – Optional
- Snipping Tool - to capture screen

What is Website ?

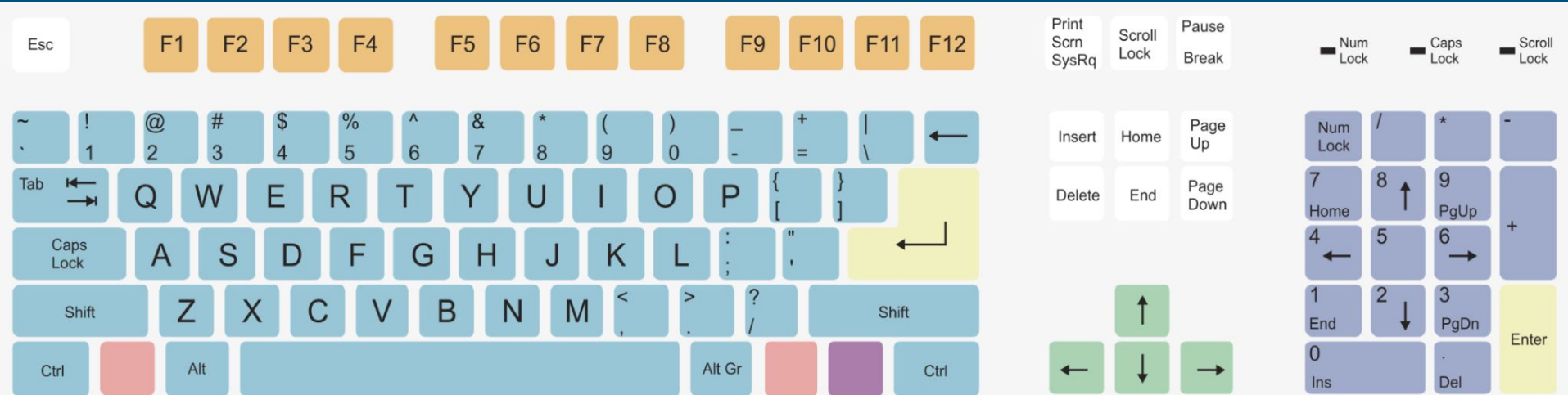
Website is a collection of interlinked web pages that we can view using internet and browser

What is Page ?

It is a collection of text, images, videos and audios

Keyboard Keys and Symbols

- ! Exclamation Mark
- < Opening Angle brackets
- > Closing Angle bracket
- / Forward slash



What is camel case ?

When there are more than two words , we should not use spaces to separate them instead we can make the second word first letter capital

Example:

- camelCase
- iPhone
- studentRegistration
- collegeCampusEngineering

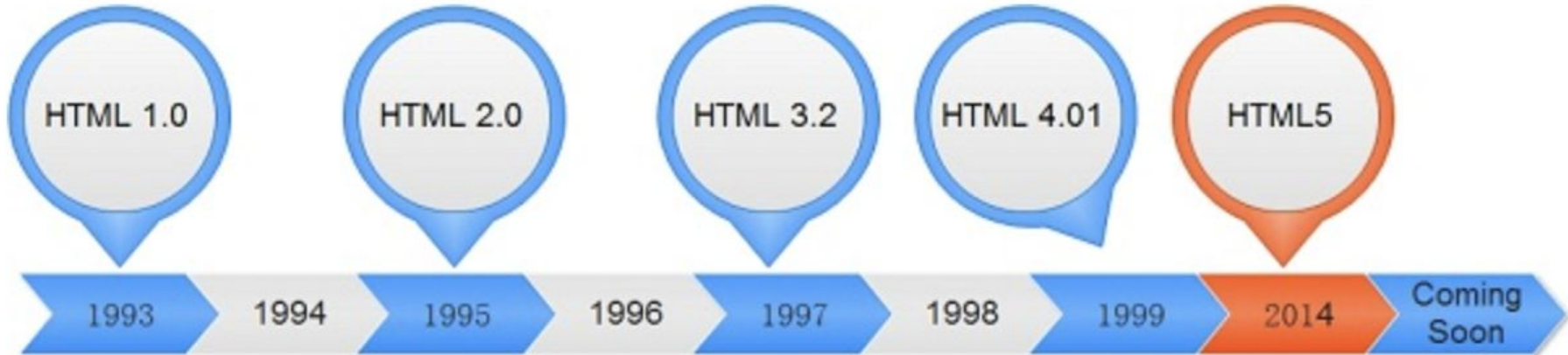


HTML Introduction

HTML stands for HyperText markup language

- HTML is the standard markup language for creating Web pages.
- HTML describes the structure of a Web page.
- HTML consists of a series of elements.

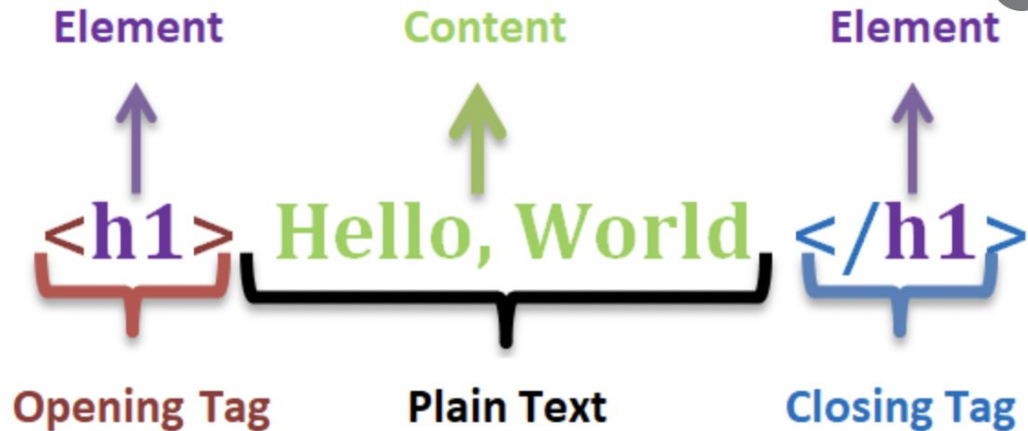
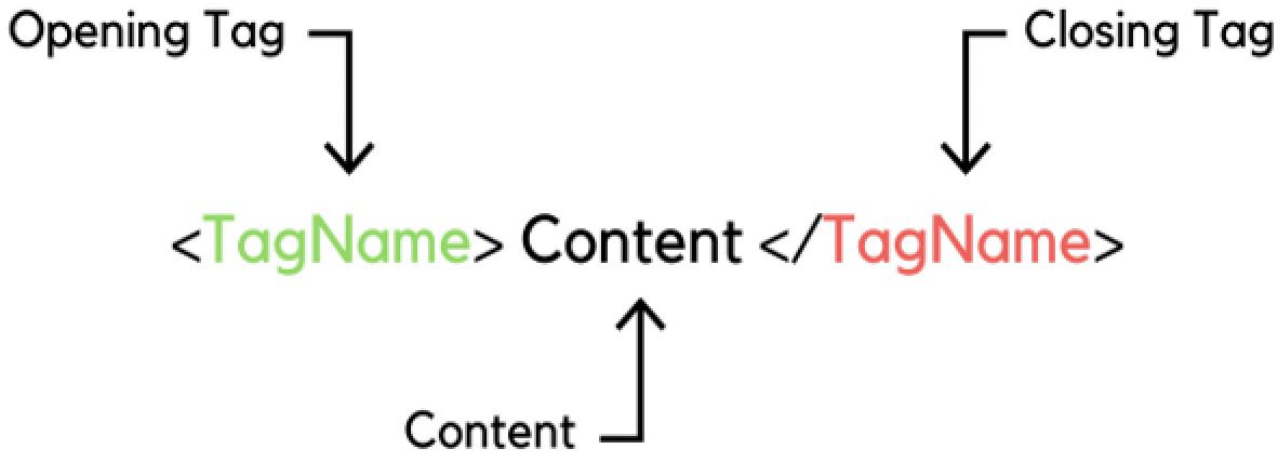
HTML Versions:



HTML File naming conventions

- Don't Use Special Characters → Ex. !, @, #, \$, %, ^, &, *, +, /, {, }
- Don't Use Spaces → student registration.html
- Start the File Name With a Letter → Only Alphabets
- Use All Lowercase Letters → Ex. index.html, registration.html
- Keep Your Filenames Short
- Remember the File Extension, It must be **.html**
- Good HTML File-Naming Practices
 - Try to keep file name in single word
 - In case two words follow camelCase Ex. studentRegistration.html

HTML Tag - Syntax



Hello World Program

Contains Meta information about the HTML Page

This declaration defines that this document is an HTML 5 document
This is an instruction to the web browser about what version of HTML the page is written

```
<!DOCTYPE html>
```

Root element of HTML page

```
<html>
```

```
<head>
```

Title of the HTML page

```
<title>Page Title</title>
```

```
</head>
```

```
<body>
```

This element defines document's body.
This is a container for all the visible contents such as
- Headings, Paragraphs, links, images etc..

Heading element

```
<h1>My First Heading</h1>
```

Paragraph element

```
<p>My first paragraph.</p>
```

```
</body>
```

```
</html>
```

Rules:

1. Every element must be enclosed in <>
2. Every element must have end in </>

Why Browser?

- The purpose of a web browser is to read HTML documents and display them properly.
- A browser does not display the HTML tags but uses them to determine how to display the document

VS code Extension installation – **Beautify**

Tree Structure ?

Main steam or trunk

Main branches

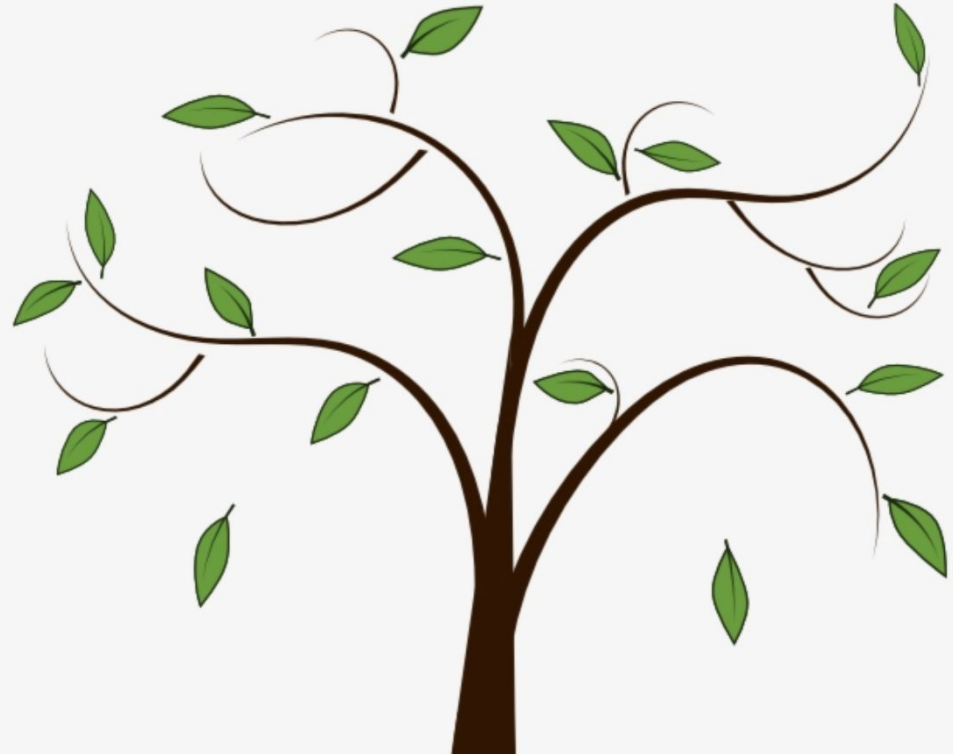
Sub branches

Parent branch

Child branch

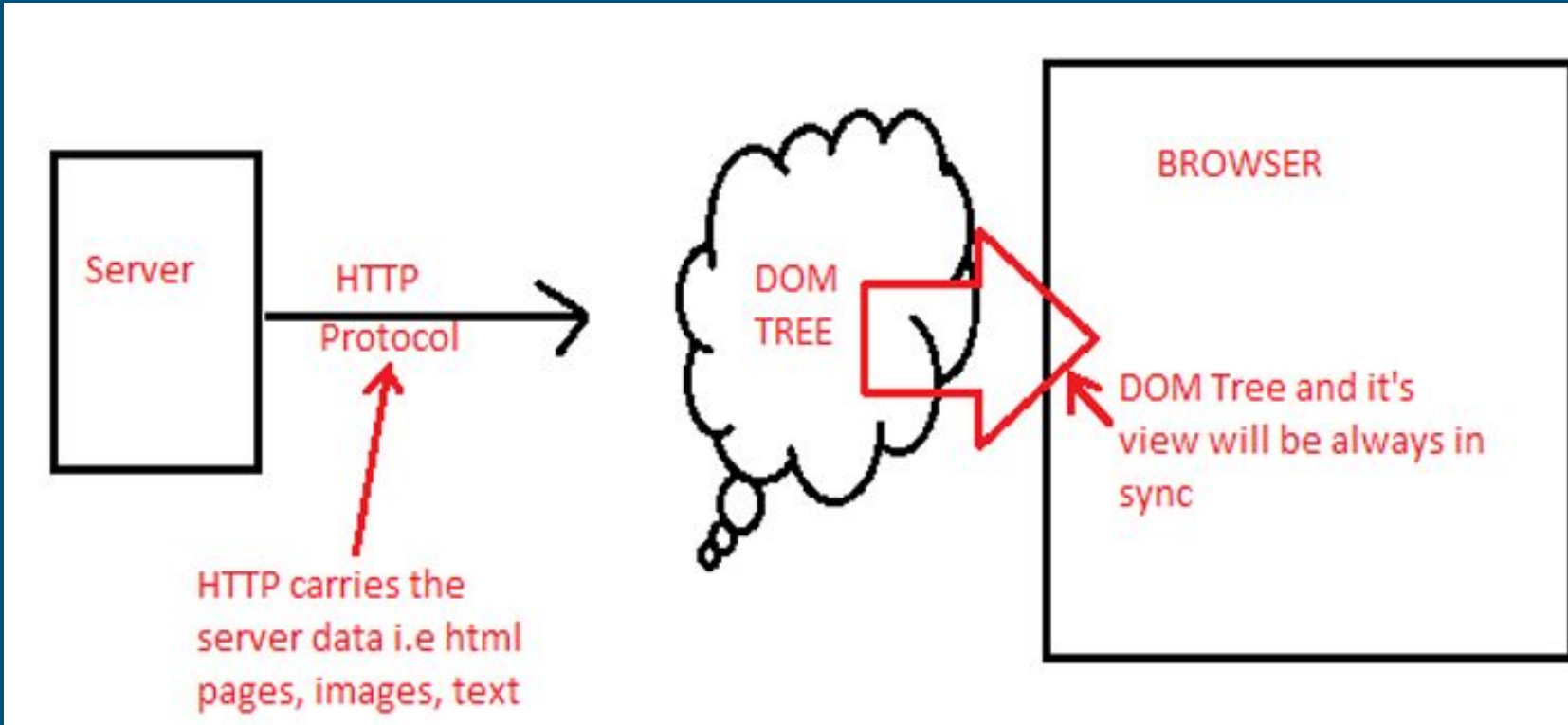
Node

- Parent Node
- Child Node



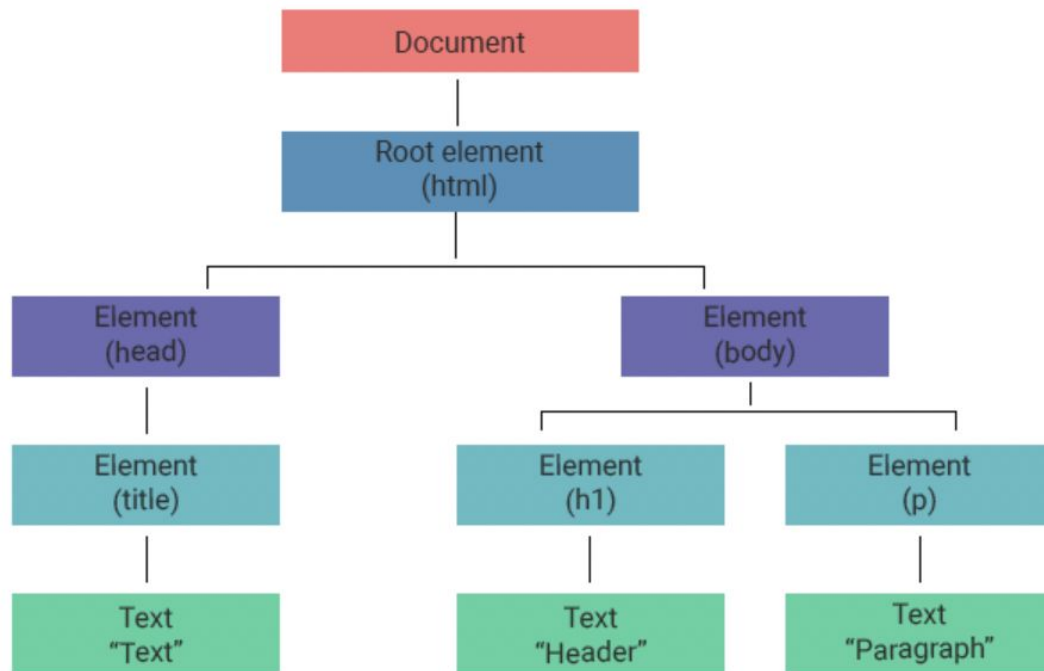
DOM - Document Object Model

- The DOM defines a standard for accessing documents
- In the DOM all HTML elements are defined as objects



```
<!DOCTYPE html>
<html>
  <head>
    <title>Title of the document</title>
  </head>
  <body>
    <h1>W3Docs Page</h1>
    <h2>Welcome to W3Docs page</h2>
    <p>
      <a href="https://www.w3docs.com/">Link to w3docs</a>
    </p>
  </body>
</html>
```

HTML code it's DOM tree representation



HTML heading tags

`<h1>HEADING 1</h1>`

`<h2>HEADING 2</h2>`

`<h3>HEADING 3</h3>`

`<h4>HEADING 4</h4>`

`<h5>HEADING 5</h5>`

`<h6>HEADING 6</h6>`

Text Formatting tags

<h1>, <h2>, <h3>, <h4>, <h5>, <h6> : Headings

<i> : Italicize

 : Bold

<u> : Underline

<mark> : Mark

: Strong

<small> : Small

<pre> Preformatted text → It will consider new lines as well as spaces

 : The Line break element

<hr> : Horizontal Rule

 : Non breaking space

<p>: Paragraph:

<pre>: Preformatted text

<sup>: Superscript ----> Area of Square

<sub> : Subscript ---> Molecular Formula of water

HTML Syntax - Self closing tag

Element



Self-Closing Tag

Element



Self-Closing Tag

Project Details

Name: Student Management

Environment: Angular 8, TypeScript, JavaScript (ES6), HTML5, CSS, Bootstrap, GitHub, Desktop GitHub, Agile and JIRA, IDE - VS Code

Team Size: 06 **Duration:** 2021-1st -Juy till present

Project Description: This project is mainly used for student management in colleges, where It help to manage student record like student registration, student update information and to see all his or her academic activities like score card, attendance.

Roles and Responsibilities:

Designed and implemented the user interface using HTML 5 and CSS

Work closely with backend developers for code integration

Identifying and troubleshooting issues with front end code

Worked on GIT as a version control

Used JIRA for bug tracking

Implemented project using Agile SCRUM methodology, Involved in daily stand up meetings, sprint showcase and sprint retrospective

Involved in fixing technical issues

Assignment 0A → Create a file with name **projectDetails.html**

Try to use the basic tags like <h1> to <h6>, , <sup>, <i>, <u>, <mark>,
, <hr>

Note: Observe the above snippet carefully and try to get the exact same output, text bold, headings, including extra spaces, marking, underline, italicize, line breaks and horizontal line

Assignment 0B

Create a new html file with name collegeDetails.html

Try to get all possible details at least **minimum in 10 lines** about your college like name, location, total department, when it is established, Principal name, your favourite teacher, your favourite subject, Why it is favourite subject?, Technical event details in case any, your achievements, your hobbies. Also try use different tags that we have covered so far.

1. College name should be in bold format and italic
2. Make sure to underline your favourite teacher name
3. Highlight or mark your achievements
4. Technical event details must be in bold format and underlined as well

List: Group the set of related items

Types of list:

- Ordered List: Tag `` is used to define ordered list
- Unordered List: Tag `` is used to define unordered list

Tag `` → List item, is used to add element into the ordered and unordered list



Nested List

- Ordered list can contains unordered list
- Unordered list can contains ordered list
- Ordered list can contains ordered list
- Unordered list can contains unordered list

Assignment A: Simple List

Create file with name
'coursesWithDataStructures.html'
and create the list as shown

List of available courses

- Data Structures & Algorithm
- Web Technology
- Apptitude & Logical Reasoning
- Programming Languages

Data Structures topics

1. Array
2. Linked List
3. Stacks
4. Queues
5. Trees
6. Graphs

Assignment B. Nested List

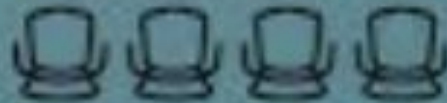
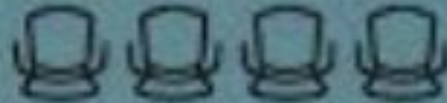
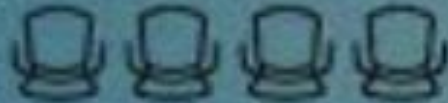
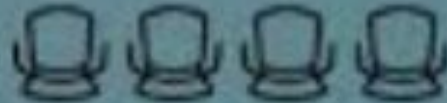
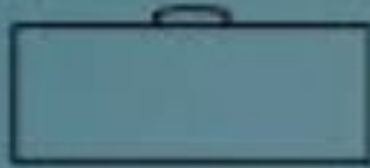
Create a separate html file with name - 'vehicles.html' and

— Prepare the list as shown below

1. Car
2. Bike
 - Electric Bike
 - Super Bike
 - Bike
3. Plane
 - Fighter Plane
 - Commercial Plane
 - Private Plane
4. Helicopter

Theater Arrangement

THEATRE STYLE



HTML Table: Allows developers to arrange data into rows and columns

`<th>` - Header cell

`<table>` - Table

`<thead>` - Groups the header content in a table

`<tbody>` - Table body

`<tr>` - Table row

`<td>` - Table data (Cell in a table)

| Sr.No | Name | Mobile | Email |
|-------|------------|----------------|-----------------------|
| 1 | Santosh | 9096 3452 3458 | santosh23@gmail.com |
| 2 | Rohit | 9096 3452 3458 | rohit54@gmail.com |
| 3 | Gorakh | 9096 3452 3458 | gorakh6745@gmail.com |
| 4 | Pooja | 9096 3452 3458 | pooja.jl45@gmail.com |
| 5 | Anil | 9096 3452 3458 | anil.kharat@gmail.com |
| 6 | Sunil Mane | 9096 3452 3458 | sunil.mane@gmail.com |
| 7 | Sushil | 9096 3452 3458 | sushil23@gmail.com |

HTML Table tags

`<table>` : To define a table

`<tbody>`: Table Body: To define body of the table

`<thead>`: Table Head: Group a header content into a table

`<tr>` : Table Row : To define row in a table

`<th>` : Table header cell : To define header cell in a table

`<td>` Table Data Cell : To define a cell in a table

Assignment #1: Create a table as shown below
tableAssignment.html

| Product ID | Product Name | Product Quality | Product Quantity |
|------------|--------------|-----------------|------------------|
| 1 | Wheat | Good | 200 Bags |
| 2 | Rice | Good | 250 Bags |
| 3 | Sugar | Good | 200 Bags |

Assignment B. Table

Create a html file: “tableSimpleAssignment.html” and give a try to create the tables as shown below

| No. | Full Name | Position | Salary |
|-----|----------------|-------------------|--------|
| 1 | Bill Gates | Founder Microsoft | \$1000 |
| 2 | Steve Jobs | Founder Apple | \$1200 |
| 3 | Larry Page | Founder Google | \$1100 |
| 4 | Mark Zuckeberg | Founder Facebook | \$1300 |

HTML colspan and rowspan attributes

HTML tables can have cells that spans over multiple rows and/or columns

colspan: Use this attributes in order to make a cell span over multiple columns

| NAME | | |
|------|--|--|
| | | |
| | | |
| | | |
| | | |

rowspan: Use this attribute in order to make a cell span over multiple rows

| | | |
|-------|--|--|
| APRIL | | |
| | | |
| | | |
| | | |
| | | |

Assignment A: Create a file tableAssignment.html

Accessories

| Sr. No | Accessories | |
|--------|-------------|-----------|
| 101 | Pen | Book |
| 202 | Pencil | Note book |
| 303 | Rubber | Bag |

Accessories with Quantities

| Sr. No | Accessories | Quantities |
|--------|-------------|------------|
| 100 | Pen | 20 |
| 200 | Pencil | |
| 300 | Rubber | 25 |
| 400 | Bag | 35 |

Assignment B: Create a table with
caption → Student Marksheet

Note: Don't forget to underline Headers.

[Hint → Use rowspan="3"]

Please create these both tables in same file with name → studentDetails.html

| <u>ID</u> | <u>Name</u> | <u>Subject</u> | <u>Marks</u> |
|-----------|-------------|----------------|--------------|
| 1 | David | Maths | 80 |
| | | Physics | 90 |
| | | Computers | 70 |
| 2 | Alex | Maths | 80 |
| | | Physics | 70 |
| | | Computers | 90 |

Assignment C: Create a table with
caption → Accessories Details

[Hint → pls use: colspan="3" rowspan="3"]

| Product | | |
|---------|---------|----------|
| No | P. Name | P. Count |
| 1 | Pen | 50 |
| 2 | Book | |
| 3 | Dust | |

Attributes

- AN HTML element can have attributes
- Attributes provides additional information about elements
- Attributes always specified in the start tag

Example: ``

Note: Here src is the attribute which specifies the source of image

Global Attributes

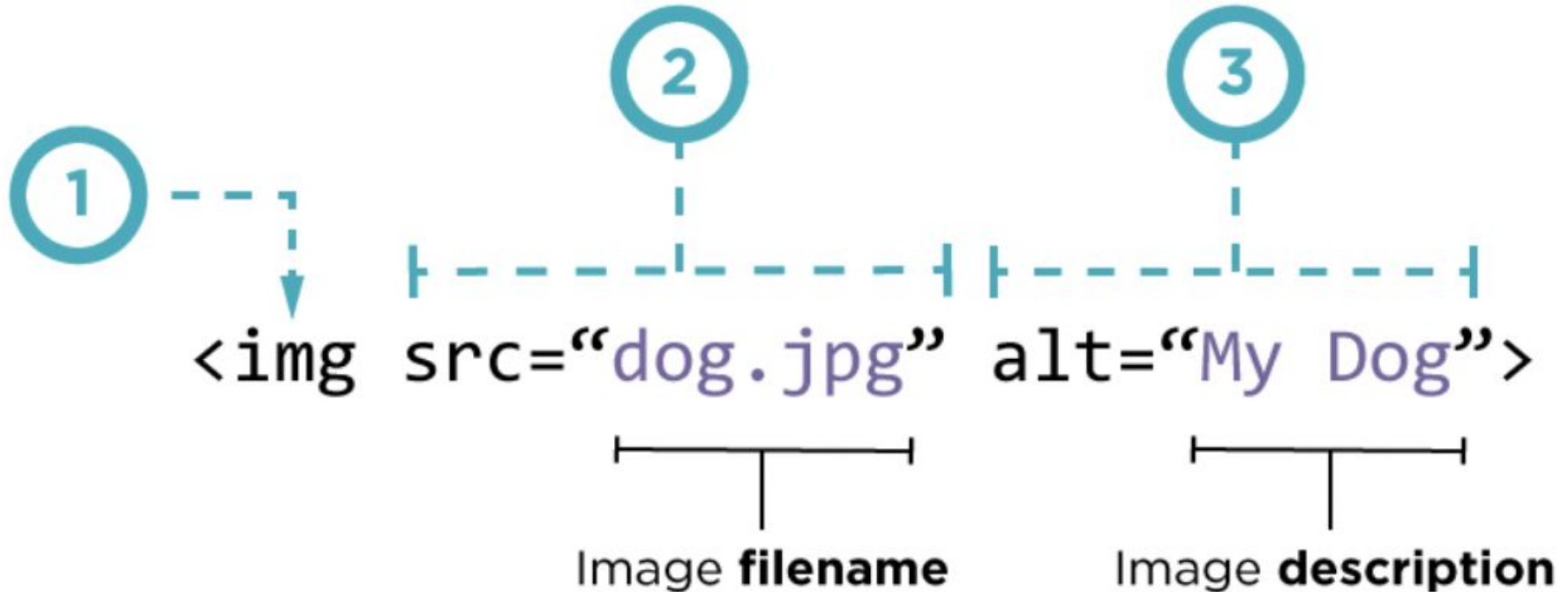
The global attributes are attributes that can be used with all HTML elements.

- **class:** Specifies one or more class names for an element (refers to a class in a style sheet)
- **id:** Specifies a unique id for an element
- **style:** Specifies an inline CSS style for an element
- **spellcheck:** Specifies whether the element is to have its spelling and grammar checked or not

`` → This tag is used to insert an image on the page

Attributes: src, alt, width, height

Common image formats: gif, jpeg, png, svg



Note:

File Name → personalDetails.html

Please don't show the actual details,

If possible please try to use the dummy details

My Personal Details



Name: Mohit Sharma

Contact Details

Mobile: 12345 690 90

Email: mohit.sharma@gmail.com

My Technology Stack

- HTML5
- CSS
- JavaScript
- Angular

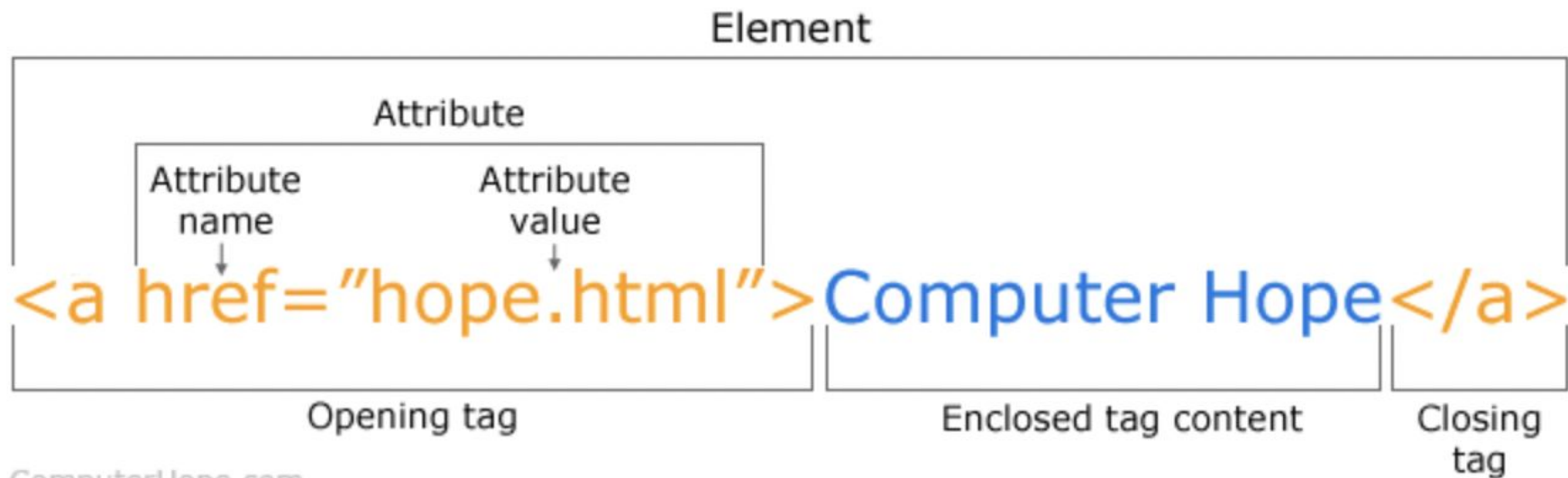
Academic Details

| Sr. No | Academic | College Name | University / Board |
|--------|-------------|-----------------------------------|------------------------------|
| 1 | Graduation | COEP College | Pune University |
| 2 | HSC or 12th | The Lexicon International School, | Maharashtra Divisional Board |
| 3 | SSC or 10th | Indus International School | Maharashtra Divisional Board |

<a> → This anchor tag is used to add link to the page

Examples of <a> tag

Breakdown of an HTML Tag



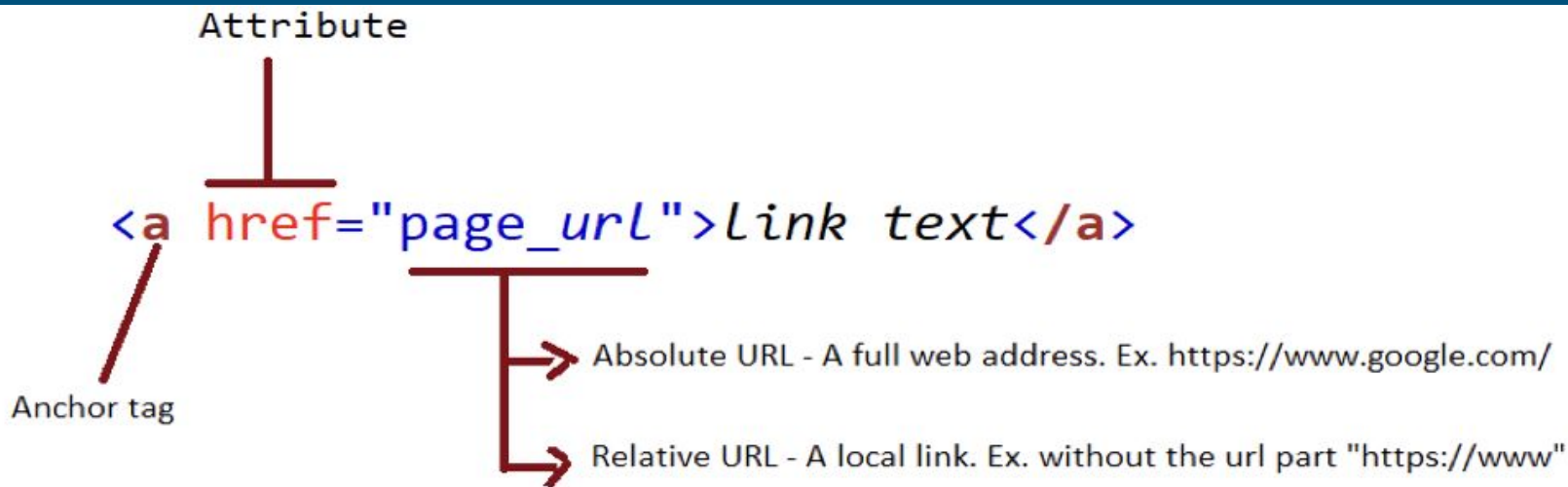
<a> HTML Links: Anchor Tag

- HTML links are hyperlinks, when we click on a link it will jump to another page
- A link can be text, image or HTML element like button

Attribute: href → Hypertext REference

Attribute: target → _blank, _self

Note: If we will not use target attribute then link will open in same page.



Assignment : Anchor tag hands on

Create a page with name → socialMedia.html

Note: For click on each links such as

FB Profile → Navigate to facebook's home page and facebook home page must load in browser's new tab

Profession Profile → Navigate to linkedIn home page and LinkedIn home page must load in same browser tab

Insta Profile → Navigate to insta home page and insta home page must load in browser's new tab

Please like and Subscribe → link to youtube home page and it must load in same browser tab

