

HTML Basic



By CODEMIND Technology

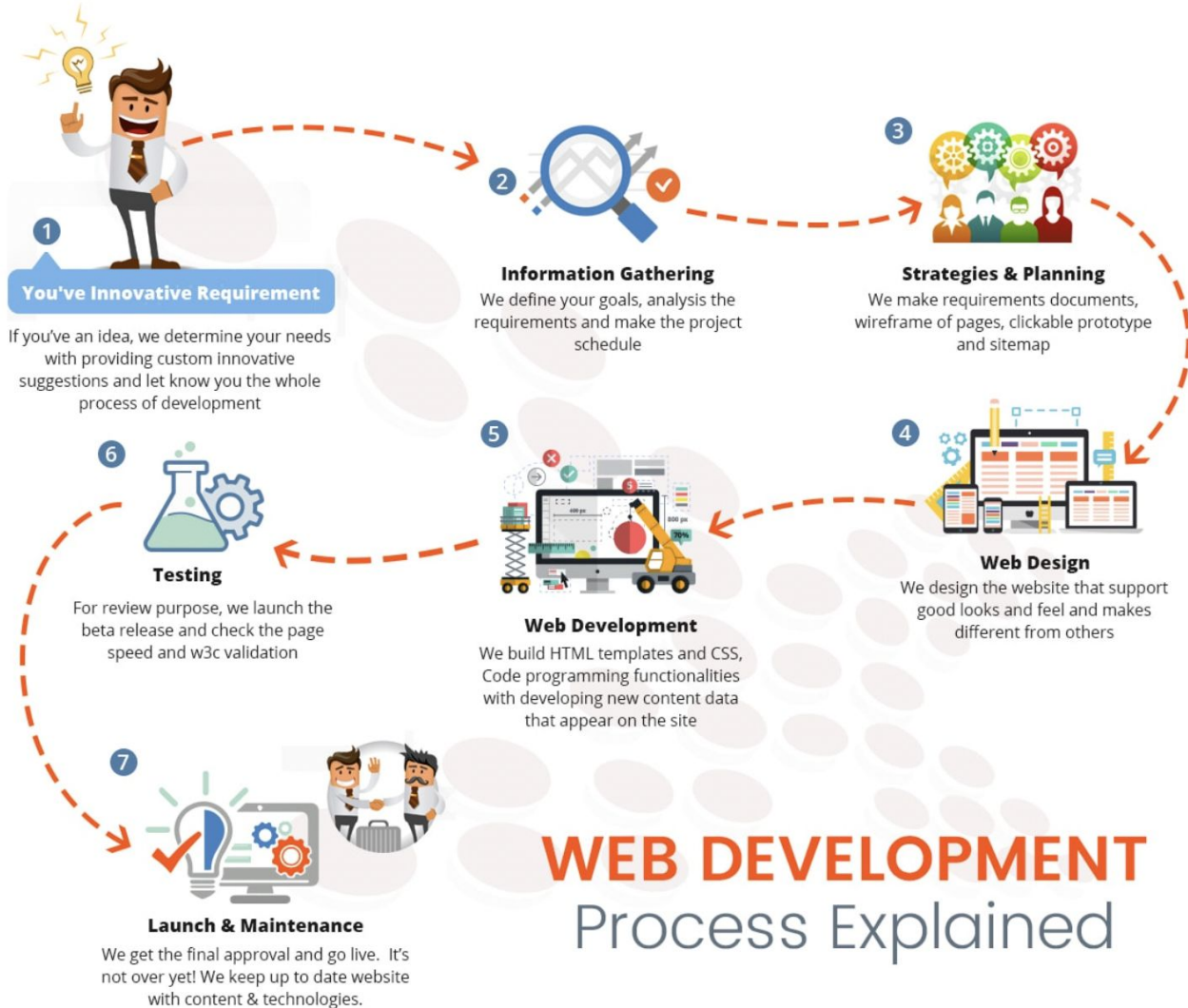
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Software Prerequisite

- 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 ?

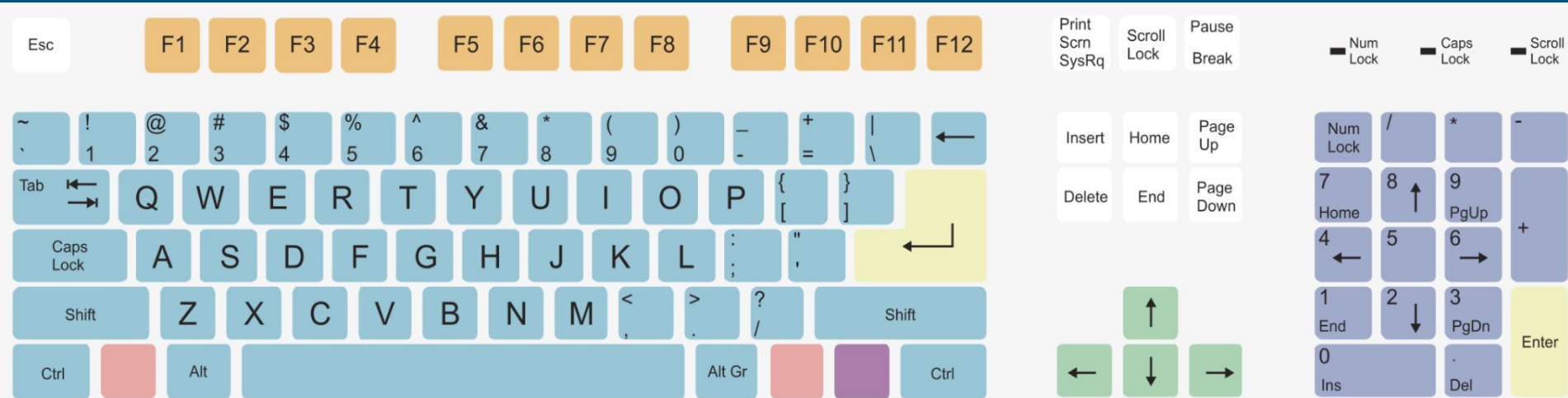
Website is a collection of interlinked web pages that we can view using internet and browser

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

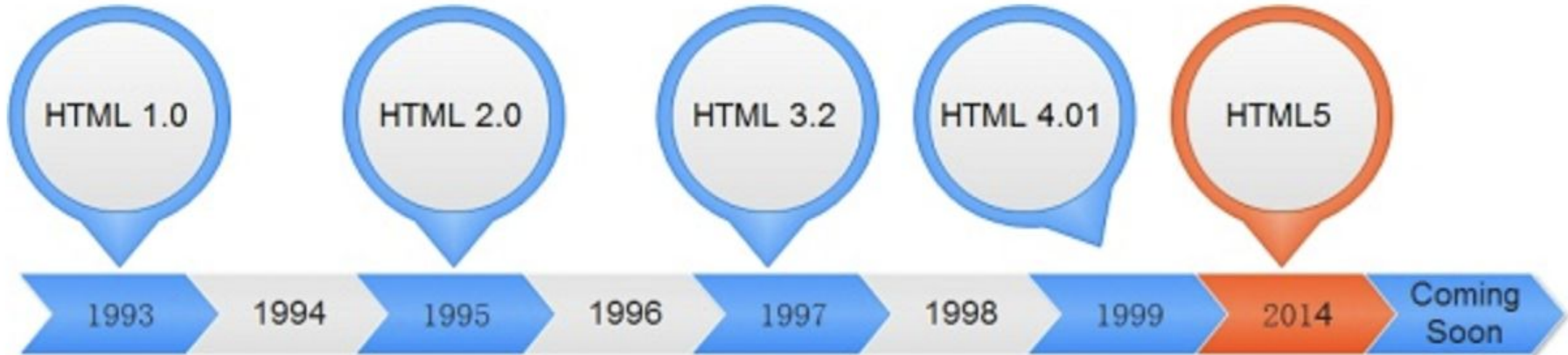


HTML Introduction

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.

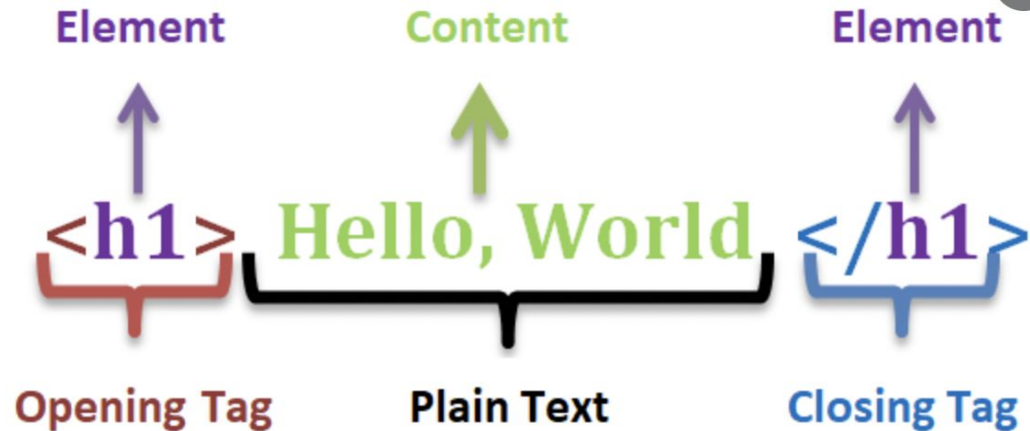
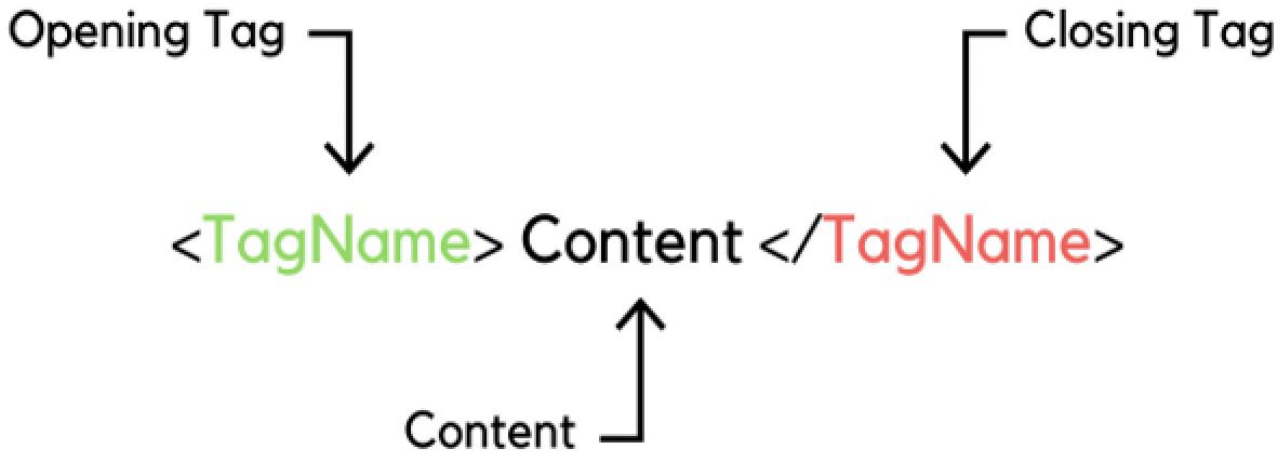
HTML Versions:



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

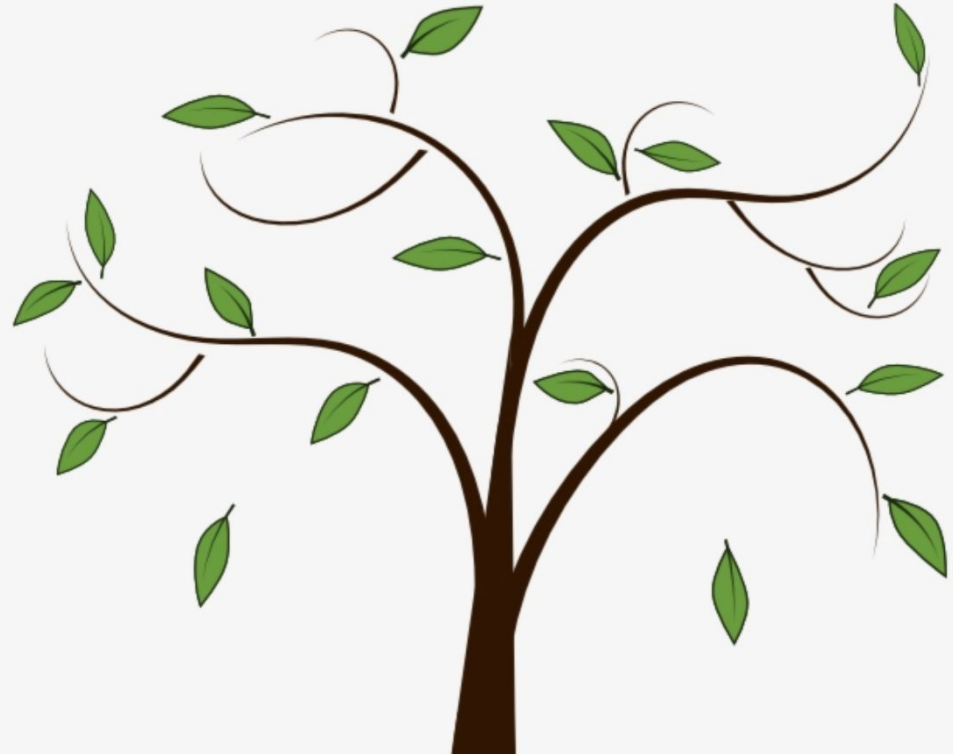
Sub branches

Parent branch

Child branch

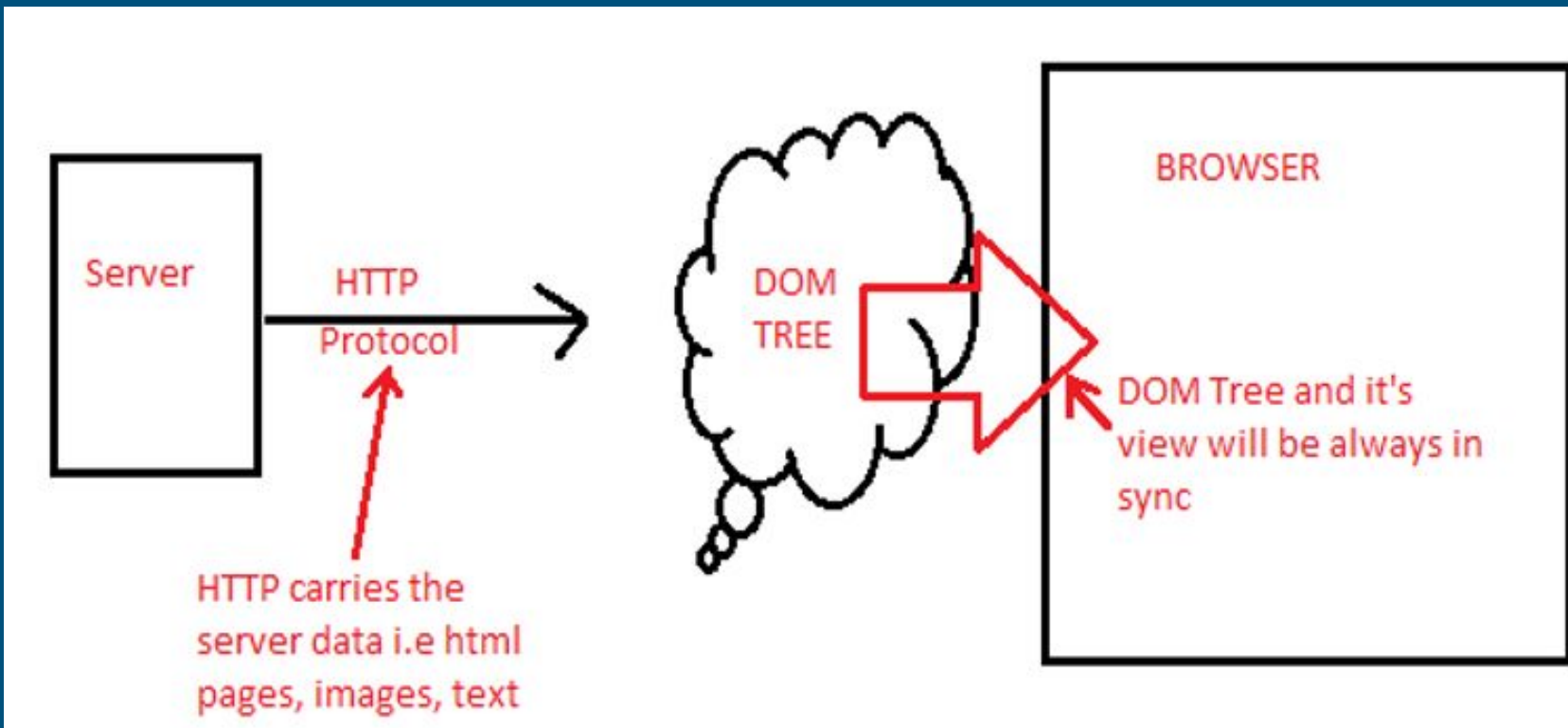
Node

- 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>
```

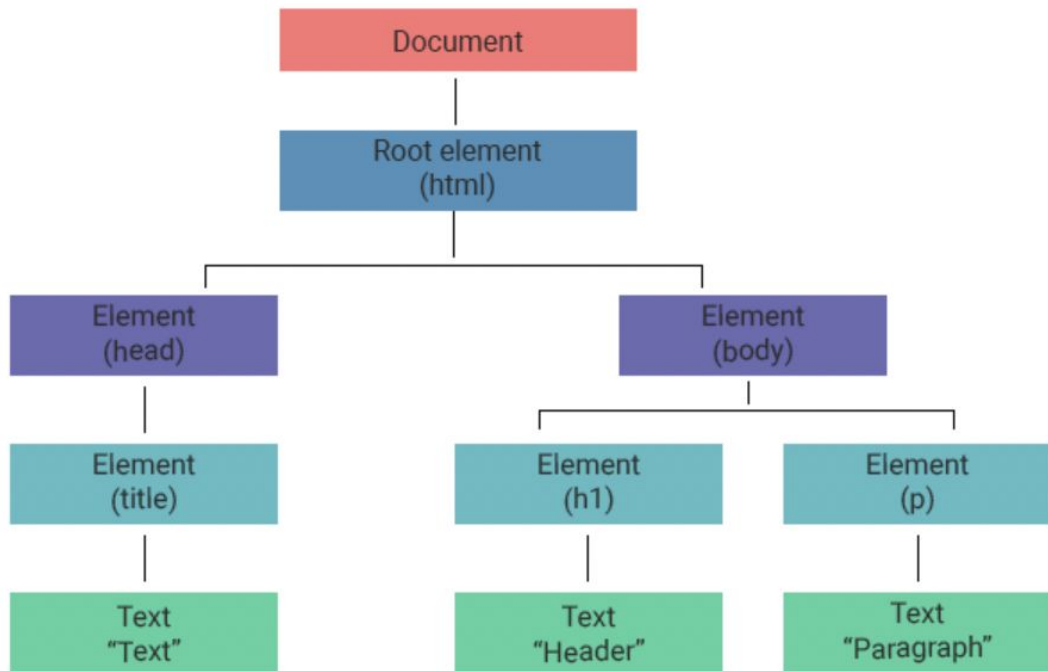
```
      <a href="https://www.w3docs.com/">Link to w3docs</a>
```

```
    </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
- Aptitude & Logical Reasoning
- Programming Languages

Data Structures topics

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

Assignment B. Nested List

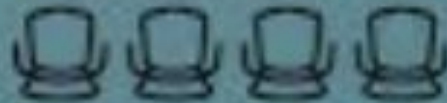
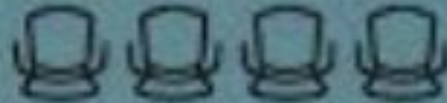
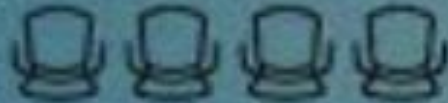
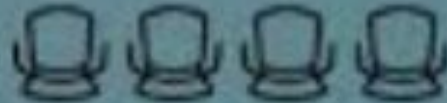
Create a separate html file with name - 'vehicles.html' and

— 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