HTML

- HTML stands for Hyper Text Markup Language which is used to create webpages.
- Mainly there are five versions and the current trending version is HTML 5.

Structure of HTML

An HTML document is made of many HTML tags and each HTML tag contains different content.

An HTML Document is mainly divided into two parts :

- HEAD: This contains information about the HTML document like the title of the page, version of HTML, metadata, etc.
- BODY: This contains everything the programmer wants to display on the web page.

Example :

<!DOCTYPE>
<html>
<head>
<title>Web page title</title>
</head>
<body>
<h1>Write Your First Heading</h1>
<p>Write Your First Paragraph.</p>
</body>
</html>

Description of the above Example

<!DOCTYPE>: It defines the document type or it instruct the browser about the version of HTML.

<html >: This tag informs the browser that it is an HTML document. Text between HTML tags describes the web document. It is a container for all other elements of HTML except <!DOCTYPE>

<head>: It should be the first element inside the <html> element, which contains the metadata(information about the document). It must be closed before the body tag opens.

<title>: As its name suggested, it is used to add the title of that HTML page which appears at the top of the browser window. It must be placed inside the head tag and should close immediately. (Optional)

<body>: Text between body tags describes the body content of the page that is visible to the end user. This tag contains the main content of the HTML document.

<h1>: Text between <h1> tag describes the first level heading of the webpage.

<p> : Text between <p> tag describes the paragraph of the webpage.

HTML Form

<form>...</form> :

- It is used to create a form for user input.
- Whitin form we can add many input fields like textbox, textarea, checkboxes, radio buttons, submit buttons, etc.

<input>...</input> :

<input type="button"> : defines simple button
<input type="checkbox"> : defines checkbox with multiple selecting options
<input type="color"> : defines color palette
<input type="date"> : defines date with date picker
<input type="datetime-local"> : defines date without timezone
<input type="email"> : defines email
<input type="file"> : defines to select file option
<input type="hidden"> : hides the input field
<input type="image"> : defines submit button with image
<input type="month"> : defines month and year without timezone
<input type="number"> : defines number with increment and decrement
<input type="password"> : defines password field
<input type="radio"> : defines radio button
<input type="range"> : defines slider
<input type="reset"> : defines reset button
<input type="search"> : defines search field
<input type="submit"> : defines submit button
<input type="tel"> : defines telephone number field
<input type="text"> : defines text field
<input type="time"> : defines time field
<input type="url"> : defines url entering field
<input type="week"> : defines date with week-year without timezone

HTML Attributes

value : defines the initial value of the input field
read-only : specifies that a particular input field is read-only
disabled : specifies that a particular input field is disabled
size : specifies visible width in characters of the input field
maxlength : specifies maximum characters allowed in the input field
min : specifies min value of input field
max : specifies the max value of the input field
multiple : allows to enter multiple values of input field
pattern : defines the pattern of value allowed to enter the input field
placeholder : shows a small hint about the input field
required : specifies that a particular input field is required
step : defines step for increment or decrement
autofocus : specifies that the input field should be autofocus on load
autocomplete : allows the browser to autocomplete value
etc.

Control Attributes

name : specifies a name for the html element
id : uniquely identifies html element
class : used for grouping common element
value : specifies the initial value of html element