HTML NOTES

HTML-:

- HTML STANDS FOR HYPERT TEXT MARKUP LANGUAGE.
- HTML IS THE LANGUAGE OF WEB , IT IS USED TO CREATE WEBSITES.
- WE USE HTML TAGS TO DEFINE LOOKS AND FEELS TO THE WEBSITES.
- WITH UNDERSTANDINGS OF THESE TAGS WE CAN CREATE A BEAUTIFUL WEBSITES EASILY.

  A BASIC HTML PAGE IS BELOW-:

  ```
  <!DOCTYPE HTML>
  <HTML>
  <HEAD>
  <TITLE>
  HARSHIT RATHAUR
  </TITLE>
  </HEAD>
  <BODY>
  <H1> THIS IS BIG HEADING </H1>
  <H1> THIS IS SECOND BIG HEADING </H1>
  <H1> THIS IS THIRD BIG HEADING </H1>
  <H1> THIS IS FOURTH BIG  HEADING </H1>
  <H1> THIS IS FIFTH BIG HEADING </H1>
  <H1> THIS IS SMALL HEADING </H1>
  <P1>THIS IS PARAGRAPH </P1>
  </BODY>
  </HTML>
  ```

 IMPORTANT NOTES-:

1. HEAD AND BODY ARE CHILDREN OF HTML.
2. HTML IS THE PARENT OF HEAD AND BODY TAG.
3. MOST OF THE HTML ELEMENTS HAVING OPENING AND CLOSING TAGS WITH CONTENTS IN BETWEEN OPENING AND CLOSING TAGS.
4. SOME HTML TAGS HAVE NO CONTENT , THEY ARE CALLED EMPTY TAGS.
5. WE CAN EITHER USE .HTM OR .HTML AS FILE EXTENSION OF HTML FILE.

COMMENTS IN HTML-: COMMENTS IN HTML ARE USED TO MARK TEXT WHICH SHOULD NOT BE PARSED,THEY CAN HELP DOCUMENT THE SOURCE CODE.

```
<!-----------------COMMENTS---------------------- >
```

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CASE SENSITIVITY-: HTML IS A CASE INSESITIVE LANGUAGE, <H1> AND <h1> BOTH ARE SAME .

WE CAN ADD EVERYTHING ELEMENT INSIDE THE BODY TAG TO DEFINE THE LAYOUT OF PAGE.

HTML ELEMENTS-:

- EVERYTHING IS BETWEEN THE STARDING TAGS AND ENDING TAGS.
  <STARTING TAGS>
  ELEMENTS
  </ENDING TAGS>

HTML ATTRIBUTES-:

- WE USE HTML ATTRIBUTES TO ADD MORE INFORMATIONS CORRESPONDING TO HTML TAGS.
- WE CAN EITHER USE SINGLE AND DOUBLE QUOTES IN ATTRIBUTES.

  EG- <A HREF="WWW.GOOGLE.COM ">CLICK HERE</A>

THE HEADING TAGS-:

- HEADING TAGS ARER USED TO MARK HEADINGS IN HTML.
- THERE ARE SIX HEADINGS IN HTML.
- HEADINGS ARE DENOTED BY <H> </H>.
- HEADINGS ARE FROM H1 TO H6.

WE SHOULD NOT USE HEADINGS TO MAKE TEXT BIG AND SMALL.

<H1> MOST IMPORTANT HEADING </H1>

<H2> ANOTHER HEADING < /H2>

<H3> ANOTHER HEADING </H3>

<H4> ANOTHER HEADING   </H4>

<H5> ANOTHER HEADING   </H5>

<H6> LEAST IMPORTANT HEADING </H6>

THE PARAGRAPH TAG-:

- PARAGRAPH TAGS ARE USED TO ADD PARAGRAPH IN HTML.
- IT IS DENOTED BY <P> </P> .
  <P> THIS IS PARAGRAPH </P>

THE ANCHOR TAG-:

- THE ANCHOR TAGS ARE USED TO ADD A RELATED LINKS TO AN EXISTING ELEMENT IN HTML PAGE.
  <A HREF="WWW.GOOGLE.COM">CLICK HERE</A>

THE IMAGE TAG-:

- IMAGE TAG IS USED TO ADD IMAGES IN HTML PAGES.
  <IMG SRC="IMAGE.JPEG">

BOLD ITTALIC AND UNDERLINE TAGS-:

- WE CAN USE BOLD , ITALLIC AND UNDERLINE TAGS TO HIGHLIGHT THE TEXT AS FOLLOWS.
  <B> THIS IS BOLD </B>
  <I> THIS IS ITALLIC </I>
  <U> THIS IS UNDERLINE </U>

BREAK TAG-:

- THIS TAGS IS USED TO CREATE A NEW LINE OR LINE BREAK IN HTML PAGE.

BIG AND SMALL TAGS-:

- WE CAN USE BIG AND SMALL TAG TO MAKE A TEXT BIT SMALLER AND BIT LARGER.

HR TAG-:

- THIS TAG IS USED TO CREATE A HORIZONTAL RULER / LINE IN HTML PAGE.

SUBSCRIPT AND SUPERSCRIPT-:

- WE CAN USE SUBSCRIPT AND SUPERSCRIPT IN HTML PAGE AS FOLLOWS.
  <SUB> THIS <SUB> IS SUBSCRIPT
  <SUP> THIS <SUP> IS SUPERSCRIPT.

PRE TAG-:

- HTML ALWAYS IGNORES EXTRA SPACES AND NEW LINES.IN ORDER TO DISPLAY A PIECE OF TEXT AS IS WE USE PRE TAG .
  <PRE>
        THIS IS WRITTEN

```
        USING
        PRE TAG.
    </PRE>
```

NOTE-:

- WHEN WE USE RIGHT TAGS AT RIGHT PLACE , IT RESULTS A BETTER PAGE LAYOUT , BETTER INDEXING BY SEARCH ENGINE AND BETTER USER EXPERIENCE.
- WE USE FOLLOWING TAG TO GET THE JOB DONE-:
  ```
  <HEADER>
   <MAIN>        ──────►  WEBSITE LAYOUT
  <FOOTER>
  ```
- INSIDE THE MAIN TAG WE INSERT THE FOLLOWING TAGS-:
  ```
  <MAIN>  THE MAIN OPENING TAG
  <SECTION>  THE PAGE SECTION
  <ARTICLE>  A SELF CONTAINED CONTENT
  <ASIDE>   CONTENT ASIDE FROM THE CONTENT
  </MAIN>  THE MAIN CLOSING TAG.
  ```
- CREATING A PAGE LIKE THIS IS NOT NECESSARY BUT IT CREATES A READABLE AND STRUCTURED LAYOUT.
- THEY ARE ALSO USEFUL FOR SEO.

LINK ATTRIBUTES-:

- <A HREF="/CONTENT"> CONTACT US </A>   CONTACT PAGE OPEN IN SAME PAGE.
- <A HREF="/CONTENT" TARGET="BLANK"> CONTACT US </A> CONTACT PAGE OPEN IN NEW PAGE.
- WE CAN PUT ANY CONTENT5 INSIDE AN ANCHOR TAG(<A> </A>) LIKE IMAGES ,HEADINGS ETC….. ARE ALL ALLOWED.
- IF THE PAGE IS INSIDE THE DIRECTORY , WE NEED TO MAKE SURE THAT WE LINK TO THE CORRECT PAGE. **NOTE-:**SAME APPLIES FOR IMAGE TAG ALSO.
- WE CAN ADD LINKS TO IMAGES LIKE THIS-:
  <A HREF="/ABOUT><IMG SRC="A.JPEG"WIDTH="120" ></A>

THE DIVISION TAG-:

- DIVISION TAG IS OFTEN USED AS A CONTAINER FOR OTHER ELEMENTS.
- DIVISION IS A BLOCK LEVEL ELEMENT.
- IT IS SHORTENED AS DIV.
- IT ALWAYS TAKES FULL WIDTH.

THE SPAN TAG-:

- SPAN IS AN INLINE CONTAINER.
- IT TAKES AS MUCH WIDTH AS NECESSARY.

LISTS-:

- LISTS ARE USE TO DISPLAY THAT TYPE OF CONTENT WHICH REPRESENTS A LISTS.

TYPES OF LISTS-:

1. ORDERED LIST-:
- THIS TYPE OF LIST IS USED TO LIST ORDERED ITEMS.
  <OL>
  <LI> PHONE </LI>
  <LI> LAPTOP </LI>
  <LI>   PC   </LI>
  </OL>
2. UNORDERED LIST-:
- THIS TYPE OF LIST IS USED TO LIST UNORDERED ITEMS.
  <UL>
  <LI> HOME </LI>
  <LI> ABOUT </LI>
  </UL>

TABLES-:

- THE <TABLE> TAG IS USED TO ADD TABLES IN HTMLO PAGES.
- IT IS ALSO USED TO FORMAT AND DISPLAY TABULAR DATA IN HTML PAGE.
- **<TR>** USED TO DISPLAY TABLE ROW IN HTML PAGE.
- **<TD>** USED TO DISPLAY TABLE DATA .
- **<TH>** USED IN PLACE OF TABLE DATA FOR DISPLAYING TABLE HEADERS.
- **NOTE-:**WE CAN DISPLAY AS MANY TABLE ROWS AS WE WANT.
- **NOTE-:**WE USE <CAPTION. TAG INSIDE TABLE TO ADD CAPTION TO THE TABLE.
- **THEAD TAG** USED TO WRAP TABLE HEAD.
- **TBODY TAG** USED TO WRAP THE TABLE BODY.

COLSPAN ATTRIBUTE-:

- THIS ATTRIBUTES IS USED TO CREATE CELL SPANNING MULTIPLE COLOUMNS.
  <TH COLSPAN="3" > HARSHIT </TH>

HTML FORMS-:

- AN HTML FORMS IS USED TO COLLECT INPUT FROM THE USER .
- FORM TAG IS USED FOR THE SAME.

                                                                                                                                                         `<FORM>`

    ELEMENT OF THE FORM

    `</FORM>`

- THERE ARE DIFFERENT FORM ELEMENT FOR DIFFERENT KINDS OF USER INPUTS.
- **DIFFERENT TYPES OF FORM ELEMENT ARE BELOW-:**
  - **INPUT ELEMENT-:** CAN BE OF TYPE TEXT, CHECKBOX , RADIO BUTTON AND SUBMIT. WE ALSO HAVE A FILE TYPE.
  - **TEXTAREA ELEMENT-**: DEFINES A MULTI LINE TEXT INPUT. COLOUMNS AND ROWS ATTRIBUTES CAN BE USED TO SIZE TRHE TEXT AREA.
  - **SELECT ELEMENT-**: DEFINES A DROP DOWN LIST.

NOTES-: YOU DON'T HAVE TO REMEMBER ALL THE TAGS , YOU WILL AUTOMATICALLY MEMORISE THEM WITH PRACTICE.

EMBEDDING VIDEOS-:

- VIDEEO TAG IS USED TO USED PLAY VIDEO IN HTML PAGE.
  `<VIDEO SRC="HARSHIT.MP4">` ERROR WHILE LOADING `</VIDEO>`

ATTRIBUTES FOR VIDEO-:

- WE CAN USE
  1. **WIDTH-:** TO ADJUST WIDTH OF A VIDEO(HEIGHT AUTOMATICALLY ADJUSTS).
  2. WE CAN USE AUTOPLAY /LOOP TO AUTOPLAY OR LOOP THE VIDEO.

SEO-:

- WE WILL FOCUS ONLY ON HTML STANDPOINT OF SEO. WE WILL NOT BE LOOKING INTO KEYWORD BUILDING AND CONTENT AND OPTIMIZATE ASPECT OF SEO.
- **TYPES OF SEO-:**
  1. ON PAGE SEO
  2. OFF PAGE SEO

HTML SEO-:

- HTML DEVELOPERS CAN IMPLEMENT SEO USING THE FOLLOWING TECHNIQUES-:
  - SET THE TITLE VERY NICE AND TO THE POINT.
  - SET THE META DESCRIPTION.
    `<META NAME="DESCRIPTION" CONTENT="………….">`
  - SET A NICE URL SLUG.
  - SET THE META KEYBWORDS TAG.
  - SET THE META AUTHORF TAG.
    `<META NAME="AUTHOR" CONTENT="……………">`
  - SET A FARICON.

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- ➢ COMPRERSS IMAGES AND OTHER RESOURCES.
- ➢ REMOVE UNUSED HTML , CSS AND JAVA SCRIPT FILE AND COMPRESS THEM.
- ➢ ADD ALT TEXT TO IMAGES.

THANK YOU

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