---------------Hyper Text Markup Language (HTML)-------------------

>> used for create "web pages" & "web applications"
>> used for create static website with HTML only
>> Case insensitive

- Static website : won't changes in interface
- Dynamic website : Changes in interface

start tag & end tag

SYNTAX: [.html]
<tagname> content / attributes </tagname>   -----opens in web browser

-----Tags-----

1.   <p> ---> paragraph tag <--- </p>

2.   <!DOCTYPE html> -------> declare documentation is an HTML5 (version)

3.   <html> content </html> ------------> ROOT element of HTML page

4.   <head> content </head> --------------> META information about HTML page
              DATA about data description [SEO]

5.   <title> content </title> ----------> browsers title bars | in the page' tab

6.   <body> content / data </body> ------------> headings, images, videos, links,
text, table, pichart...etc

7.   <h1> heading font-size </h1>

 ---------------------- structure ------------------------

<!DOCTYPE html>
<html>

<head>
    <title> page title </title>
</head>

<body>
  <h2> heading content </h2>
  <p> paragraph element <p>
</body>

</html>

----------------------comments-------------------

```
   syntax:              <!--comments-->

>> Comments are ignored by Browser

------------------Basics---------------

<! DOCTYPE html>
<html>
<body>

<p> my data </p>


</body>
</html>

--------------Headings----------------

>> h1, h2, h3, h4, h5, h6

<!DOCTYPE html>
<html>
<body>

<h1> heading h1 </h1>
<h2> heading h2 </h2>
<h3> heading h3 </h3>
<h4> heading h4 </h4>
<h5> heading h5 </h5>
<h6> heading h6 </h6>

</body>
</html>

--------------------formatting-------------------

<br>---------- break the line

<b> ---------bold text----------</b>         <br>
<big>------big--------</big>      <br>
<center>------center-----------</center>      <br>
<em> ----------emphasized text--------</em>  <br>
<i> ---------------italic text-----------</i>         <br>
<small>-------------smaller text-------</small>     <br>
<strong>----------strong text--------</strong> <br>
<sub>-----subcripted text-------</sub>      <br>
<sup>--------superscripted---------------</sup>    <br>
<ins>----------------inserted------------</ins>   <br>
<del>------------deleted text-----------</del> <br>
<mark>--------------marked/highlighted-------</mark>   <br>
```

```
<s>---------strike------</s>      <br>
<stike>-------strike text------</strike> <br>
<u>------underline-----------</u>        <br>
<blockquote>-------long quation----</blockquote> <br>
<q>---short quation-------</q> <br>
v<sub>F</sub>           <br>
a<sup>2</sup>            <br>
```

----------------------------attributes-------------------
>> attributes names are Case sensitive

SYNTAX: <element attribute_name ="value">content</element>

-----------image tag-------------------
```
  <html>
    <head> data </head>
    <body>
      <img> src="source(file name or file path)" height="length" width = "width
length"  alt = image name---------</img>

        <p> click on <a href="link name" >this link </a> to go on homepage </p>
    </body>
    </html>
```

link color - blue (unvisited link), purple(visited link), red(active link)

----------------------------list.html--------------------------------

used to specify lists of information , all list contain one or more elements

 _____3 types of lists_____

```
<!DOCTYPE html>
    <html>
    <head> data </head>
    <body>
      <u1>
       <li> anu </li>
       <li> Priya </i>
       <li> rohith </li>
       <li> ram </i>
     </u1>
    </body>
    </html>
```
1. unordered list or bulleted list (ul)

_____<ul type = "square">_____

<!DOCTYPE html>

```
<html>
<head> data </head>
<body>
   <u1 type ="square">
    <li> anu </li>
    <li> Priya </i>
    <li> rohith </li>
    <li> ram </i>
   </u1>
</body>
</html>
_____<ul type = "disc">_____

<!DOCTYPE html>
<html>
<head> data </head>
<body>
   <u1 type ="disc">
    <li> anu </li>
    <li> Priya </i>
    <li> rohith </li>
    <li> ram </i>
   </u1>
</body>
</html>
_____<ul type = "circle">_____

<!DOCTYPE html>
<html>
<head> data </head>
<body>
   <u1 type ="circle">
    <li> anu </li>
    <li> Priya </i>
    <li> rohith </li>
    <li> ram </i>
   </u1>
</body>
</html>


2. Ordered list or Numbered list ( ol )

<!DOCTYPE html>
<html>
<head> data </head>
<body>
   <o1 type ="A">
    <li> anu </li>
```

```
        <li> Priya </i>
        <li> rohith </li>
        <li> ram </i>
      </o1>
    </body>
    </html>


<ol type ="i"> - Lower cases Numericals
<ol type ="1"> - Default-case Numericals
<ol type ="I"> - upper case Numericals
<ol type ="A"> - upper case letters
<ol type ="a"> - lower case letters
```

3. Description list or Defination list (dl)

dd - title
dt - description


```
<!DOCTYPE html>
    <html>
    <head> data </head>
    <body>
      <dl>
        <dt><b>HTML</b></dt>
        <dd> Hyper text markup language </dd>
        <dt><b> HTTP </b></dt>
        <dd> Hyper text Transfer Protocol</b></dd>
      </d1>
    </body>
    </html>
```

-----------------HTML forms------------------

>> used Collect user input
>> <form> is elements like text fields, checkboxes, radio buttons, submit buttons
etc....

<input type="text"> Displays a single-line text input fields

<input type="radio"> displays a radio button (for selecting one of many choices)

<input type="check box"> Displays a check box (for selecting zero or more choices
)

`<input type="text">` Displays a submit button(for submitting the form)

`<input type="submit">` Displays a clickable button


```
<!DOCTYPE html>
    <html>
    <head> data </head>
    <body>
       <form>
                <input type="radio" name="language" value="HTML">
                <label for="html">HTML</label><br>
                <input type="radio" name="language" value="CSS">
                <label for="html">CSS</label><br>
                <input type="radio" name="language" value="JAVA SCRIPT">
                <label for="html">JAVA SCRIPT</label><br>
                <input type="checkbox" name="vechile 1" value= car
                <label for="vechile1"> i have a car </label><br>
                <input type="checkbox" name="vechile 2" value= bike
                <label for="vechile2"> i have a bike </label><br>
                <input type="checkbox" name="vechile 3" value= cycle
                <label for="vechile2"> i have a cycle </label><br>
                <input type="text" value="ram"><br>
                <label>last name: </label><br>
                <input type="tex" value="life"><br>
                <input type="submit" value="submit"
<!-- DROP DOWN
                    <select>
                            <option> python</option>
                            <option>ML</option>
                            <option>DL</option>
                    </select> -->
        </form>
    </body>
    </html>
```


------------------audio & video----------------------

```
<!DOCTYPE html>
    <html>
    <head> <title> video/audio </title> </head>
    <body>
     <audio controls>
         <source src= " song path/format>
                Browser doesn't support the audio element
        </audio>

    </body>
```

```
        </html>


<!DOCTYPE html>
    <html>
    <head> <title> video/audio </title> </head>
    <body>
     <video width="320" height="240" controls>
        <source src=>
        video is not supported
     </video>

    </body>
    </html>



------------------------Tables---------------
>> combination of Rows & Coloums

rows * coloums

<table>
<tr> --- table row
<td> ---- table data
<th> ---table head



<!DOCTYPE html>
    <html>
    <head>
        <title> Tables</title>
 table{
            border-collapse: collapse;
            width:74;
        }
        th,td {border:2px solid green;
            padding:30px;
        }</head>
    <body>
     <table>
        <tr>
                <th>data 1</th>
                <th style="background-color: yellow"> data 2 </th>
        </tr>
        <tr>
                <td>hyderabad</td>
                <td style="background-color: yellow"> biryani </td>
        </tr>
```

```html
        <tr>
                <td> delhi </td>
                <td style="background-color: yellow"> red fort </td>
        </tr>
      </table>
    </body>
    </html>
```

<!-- border, padding only for tables -->

------------------------------student registration-----------------------

```html
<!DOCTYPE html>
<html>
    <head>
    <title>Application page</title>
 </head>
    <body>
        <form>
            <label>first name:</label>
            <input type="text"name="First name" size="30"> <br> <br>
            <label>Last name:</label>
            <input type="text" name="Last name" size="30"> <br> <br>
            <label> course </label>
            <select><option> - </option>
                <option>CSE</option>
                <option>ECE</option>
                <option>MECH</option>
                <option>EEE</option>
                <option>CIVIL</option>
                <option>IT</option>
            </select> <br> <br>
            <label> Gender </label> <br><br>
            <input type="radio" name="sex"> Male
            <input type="radio" name="sex"> Female
            <input type="radio" name="sex"> others       <br><br>
            <label> Phone number</label><br>
            <input type="text" name="country code" value="+91" size="3">
            <input type="text" name="Phone number"  size="10"> <br><br>
            <label>Email</label><br>
            <input type="text" name="Email ID" size="25" > <br><br>
            <input type="submit" ><br>

        </form>
```

------------------------------Web scrapping--------------------------

```
 >> extracting/collecting data from websites

-----> libraries used for web scrapping
        >> BeautifulSoup - tool used to pull the information from web sites
-------> HTTPS codes
------> PIP
        -its a package manager for python packages
>> for installation: pip install package/library/framework

>> for uninstallation: pip uninstall package/library/frame work
```