HTML Basic

- A simple HTML document

គឺជាទំរង់html ទូទៅ

```html
<!DOCTYPE html>
<html>
    <head>
        <title>hello world</title>
    </head>
    <body>
        <h1>This is heading</h1><!--this is element h1 h2 h3-->
        <p>This is paragram</p>
    </body>
    <footer>
        @
    </footer>
</html>
```

- Specify headings for the content

```html
<!DOCTYPE html>
<html>
    <head>
    </head>
    <body>
        <h1>This is big heading</h1>
        <h2>This is small heading</h2>
        <h3>This is small heading</h3><!--this is heading content-->
    </body>
</html>
```

- Inserting paragraphs of text content

```html
<!DOCTYPE html>
<html>
    <head>

    </head>
    <body>
        <p>
            Browsers automatically add
            a single blank line before
            and after each
        </p>
        <p>
```

```
•         Browsers automatically add
•         a single blank line before
•         and after each
•     </p>
•     <hr>
•     <p>
•         Browsers automatically add <br>
•         a single blank line before
•         and after each
•     </p>
•     <hr>
•     <pre>
•         Browsers automatically add
•
•         a single blank line before
•
•         and after each
•     </pre>
•   </body>
• </html>
```

- <u>Creating links to other HTML documents or Web resources</u>

```
• <!DOCTYPE html>
• <html>
•     <head></head>
•     <body>
•         <a href="#">Creating links to other HTML documents or Web
resources</a>
•     </body>
• </html>
```

- <u>Inserting images into the HTML document</u>

```
• <!DOCTYPE html>
• <html>
•     <head></head>
•     <body>
•         <img src="images/The_Blue_Earth.jpg" alt="Earth" width="500"
height="333"><br>
•         <img src="https://cdn.pixabay.com/photo/2013/07/21/13/00/rose-
165819_640.jpg">
•     </body>
• </html>
```

HTML Text

- Headings - h1 to h6

```html
<!DOCTYPE html>
<html>
    <body>
        <h1>Headings - h1 to h6</h1>
        <h2>Headings - h1 to h6</h2>
        <h3>Headings - h1 to h6</h3>
        <h4>Headings - h1 to h6</h4>
        <h5>Headings - h1 to h6</h5>
        <h6>Headings - h1 to h6</h6>
    </body>
</html>
```

- Paragraph and line breaks

```html
<!DOCTYPE html>
<html>
    <body>
        <p>Paragraph and line breaks Paragraph and line breaks</p>
        <hr>
        <p>Paragraph and line breaks<br> Paragraph and line breaks</p>
    </body>
</html>
```

- Text formatting

```html
<!DOCTYPE html>
<html>
    <body>
        <body>
            <b>Bold text</b><br>
            <strong>Important text</strong><br>
            <i>Italic text</i><br>
            <em>Emphasized text</em><br>
            <mark>Marked text</mark><br>
            <small>Smaller text</small><br>
            <del>Deleted text</del><br>
            <ins>Inserted text</ins><br>
```

```html
            <P>hello everyone <sub>Subscript text</sub> hello
everyone<br></P>
            <p>hello everyone <sup>Superscript text</sup> hello
everyone</p>
    </body>
</html>
```

- Preformatted text (Preserve line breaks and spaces)

```html
<!DOCTYPE html>
<html>
    <body>
        <pre>Preformatted text (Preserve line breaks and spaces)
            spaces        spaces        spaces        spaces        spaces
            Preformatted text (Preserve line breaks and spaces)
        </pre>
    </body>
</html>
```

- Sub and Superscript text

```html
<!DOCTYPE html>
<html>
    <body>
        <p>hello everyone•  <sub>Subscript text</sub> how are you</p>
        <p>hello everyone•  <sup>Supscript text</sup> how are you</p>
    </body>
</html>
```

- Long and short quotations

```html
<!DOCTYPE html>
<html>
    <body>
        <h1>The abbr element</h1>
        <p>The <abbr title="United Nation">UN</abbr> was 1945</p>
        <h1>The address element</h1>
        <P><address>My mail is <a href="mailto:nunrady1992@gmail.com">nun
rady</a></address></P>
        <h1>The bdo element</h1>
        <p><bdo dir="ltr">The bdo element</bdo></p>
        <p><bdo dir="rtl">The bdo element</bdo></p>
        <h1>The blockquote element</h1>
        <p>The blockquote element</p>
```

```
            <blockquote cite="The blockquote element">The blockquote element
                The blockquote element The blockquote element The blockquote
    element
            </blockquote>
            <h1>The cite element</h1>
            <img src="images/The_Blue_Earth.jpg" alt="the scream" height="300"
    width="300">
            <p>

                <cite>the Earth</cite> for people
            </p>
            <h1>The q element</h1>
            <p>this is <q>nun rady</q> right</p>
        </body>
```

- <u>Abbreviations and acronyms</u>

```
<!DOCTYPE html>
<html>
    <h1>Abbreviations</h1>
    <p>hello <abbr title="Abbreviations is html">Abbreviations</abbr> and
acronyms</p>
</html>
```

- <u>Marking deleted and inserted text</u>

```
<!DOCTYPE html>
<html>
<body>

<h1>The del element</h1>

<p>My favorite color is <del>blue</del> <ins>red</ins>!</p>

</body>
</html>
```

- <u>Setting text direction of an element</u>

```
<!DOCTYPE html>
<html>
<body>

<p dir="rtl">Write this text right-to-left!</p>

</body>
```

- ```
  </html>
  ```

- ## Insert contact information

- ```html
  <!DOCTYPE html>
  <html>
  <body>

  <h1>The address element</h1>

  <address>
  Written by <a href="mailto:webmaster@example.com">Jon Doe</a>.<br>
  Visit us at:<br>
  Example.com<br>
  Box 564, Disneyland<br>
  USA
  </address>

  </body>
  </html>
  ```

- ## Inserting comments

- ```html
  <html>
      <body>
          <!-- I am a comment! -->
          <!--This is a comment. Comments are not displayed in the browser-->

          <p>This is a paragraph.</p>
      </body>
  </html>
  ```

- ## Inserting horizontal lines

- ```html
  <!DOCTYPE html>
  <html>

      <head>
          <title>Horizontal line</title>
      </head>

      <body>
          <h2>Horizontal line</h2>
          <hr>
          <p>This is simple horizontal line.</p>
      </body>
  ```

- ```
  </html>
  ```

- Computer output tags

```html
<!DOCTYPE html>
<html>
<body>

<h1>The output element</h1>

<form oninput="x.value=parseInt(a.value)+parseInt(b.value)">
<input type="range" id="a" value="50">
+<input type="number" id="b" value="25">
=<output name="x" for="a b"></output>
</form>

<p><strong>Note:</strong> The output element is not supported in Edge 12
(or earlier).</p>

</body>
</html>
```

HTML Links

- Create hyperlink

```html
<!DOCTYPE html>
<html>
<body>

<h2>The target Attribute</h2>

<a href="https://www.w3schools.com/" target="_blank">Visit W3Schools!</a>

<p>If target="_blank", the link will open in a new browser window or
tab.</p>

</body>
</html>
```

- Using image as a link

- ```html
  <!DOCTYPE html>
  <html>
  <body>

  <h2>Image as a Link</h2>

  <p>The image below is a link. Try to click on it.</p>

  <a href="default.asp"><img src="images/The_Blue_Earth.jpg" alt="HTML tutorial" style="width:42px;height:42px;"></a>

  </body>
  </html>
  ```

- Open link in a new browser window

  ```html
  <!DOCTYPE html>
  <!DOCTYPE html>
  <html>
      <body>
          <a href="#anchor-name">Jump to the part of the page with the "anchor-name" id </a>
          <h2>Relative URLs</h2>
          <p><a href="html_images.asp">HTML Images</a></p>
          <p><a href="/css/default.asp">CSS Tutorial</a></p>
          <h1>GeeksforGeeks</h1>
          <h2> HTML nav Tag</h2>
          <!-- nav tag starts -->
          <nav>
              <a href="#">Home</a> |
              <a href="#">Interview</a> |
              <a href="#">Languages</a> |
              <a href="#">Data Structure</a> |
              <a href="#">Algorithm</a>
          </nav>
          <!-- nav tag ends -->

  </body>

      </body>
  </html>
  ```

- Navigate inside page - Jump link

  ```html
  <!DOCTYPE html>
  <html>
      <body>
  ```

```
            <a href="#anchor-name">Jump to the part of the page with the
"anchor-name" id </a>
            <h2>Relative URLs</h2>
            <p><a href="html_images.asp">HTML Images</a></p>
            <p><a href="/css/default.asp">CSS Tutorial</a></p>

</body>

    </body>
</html>
```

- ## Move outside of an iframe

```
<!DOCTYPE html>
<html>
<body>

<h2>Iframe - Target for a Link</h2>

<iframe src="demo_iframe.htm" name="iframe_a" height="300px" width="100%"
title="Iframe Example"></iframe>

<p><a href="https://www.w3schools.com"
target="iframe_a">W3Schools.com</a></p>

<p>When the target attribute of a link matches the name of an iframe, the
link will open in the iframe.</p>

</body>
</html>
```

- ## Creating a mailto link - A link that sends an e-mail

```
<!DOCTYPE html>
<html>
<body>

<h2>Link to an Email Address</h2>

<p>To create a link that opens in the user's email program (to let them send a
new email), use mailto: inside the href attribute:</p>

<p><a href="mailto:someone@example.com">Send email</a></p>
```

```
</body>
</html>
```

HTML Images

- Setting width and height of the images

```
<!DOCTYPE html>
<html>
<body>

<h2>Image Size</h2>

<p>Here we use the style attribute to specify the width and height of an
image:</p>

<img src="images/laptop1.jpg" alt="Girl in a jacket"
style="width:500px;height:600px;">

</body>
</html>

```

- Aligning images

```
<!DOCTYPE html>
<html>

<head>
    <title>
        HTML img align Attribute
    </title>
</head>

<body>
    <h1>GeeksforGeeks</h1>

    <h2>HTML img align Attribute</h2>

    <img src=
        "https://media.geeksforgeeks.org/wp-
content/uploads/20190506164011/logo3.png"
        alt="GeeksforGeeks logo"
        align="right">
```

```
•       <img src=
•           "https://media.geeksforgeeks.org/wp-
    content/uploads/20190506164011/logo3.png"
•           alt="GeeksforGeeks logo"
•           align="left">
•   </body>
•
•   </html>
•
```

- <u>Make a hyperlink of an image</u>

```
•   <!DOCTYPE html>
•   <html>
•   <body>
•     <p><a href="https://www.Youtube.com/"><img
    src="https://www.tutorialspoint.com/assets/questions/media/426142-
    1668760872.png" style="width:50px;height:50px;"></a></p>
•   </body>
•   </html>
```

- <u>Creating an image-map - An image with clickable regions</u>

```
•   <!DOCTYPE html>
•   <html>
•   <body>
•
•   <h2>Image Maps</h2>
•   <p>Click on the computer, the phone, or the cup of coffee to go to a new
    page and read more about the topic:</p>
•
•   <img src="images/laptop.jpg" alt="Workplace" usemap="#workmap" width="400"
    height="379">
•
•   <map name="workmap">
•     <area shape="rect" coords="34,44,270,350" alt="Computer" href="1-Setting
    width and height of the images.html">
•     <area shape="rect" coords="290,172,333,250" alt="Phone" href="2-Aligning
    images.htm">
•     <area shape="circle" coords="337,300,44" alt="Cup of coffee" href="3-
    Make a hyperlink of an image.htm">
•   </map>
•   <map name="workmap">
•       <a href="1-Setting width and height of the images.html">hello</a>
•       <a href="2-Aligning images.htm">hello</a>
•       <a href="3-Make a hyperlink of an image.htm">hello</a>
```

```
</map>

</body>
</html>
```

HTML Tables

- Making a simple table - The most basic form of a table

```
<!DOCTYPE html>
<html>
<style>
table, th, td {
  border:1px solid black;
}
</style>
<body>

<h2>A basic HTML table</h2>

<table style="width:100%">
  <tr>
    <th>Company</th>
    <th>Contact</th>
    <th>Country</th>
  </tr>
  <tr>
    <td>Alfreds Futterkiste</td>
    <td>Maria Anders</td>
    <td>Germany</td>
  </tr>
  <tr>
    <td>Centro comercial Moctezuma</td>
    <td>Francisco Chang</td>
    <td>Mexico</td>
  </tr>
</table>
```

- Setting the dimension of a table

```
<table style="width:100%">
  <tr>
    <th>Firstname</th>
    <th>Lastname</th>
```

```
        <th>Age</th>
    </tr>
    <tr style="height:200px">
        <td>Jill</td>
        <td>Smith</td>
        <td>50</td>
    </tr>
    <tr>
        <td>Eve</td>
        <td>Jackson</td>
        <td>94</td>
    </tr>
</table>
```

- <u>Specify the table caption</u>

```
<!DOCTYPE html>
<html>
<head>
<style>
table, th, td {
    border: 1px solid black;
}
</style>
</head>
<body>

<table>
    <caption style="text-align:right">My savings</caption>
    <tr>
        <th>Month</th>
        <th>Savings</th>
    </tr>
    <tr>
        <td>January</td>
        <td>$100</td>
    </tr>
</table>
<br>

<table>
    <caption style="caption-side:bottom">My savings</caption>
    <tr>
        <th>Month</th>
        <th>Savings</th>
```

```
        </tr>
      <tr>
        <td>January</td>
        <td>$100</td>
      </tr>
    </table>

  </body>
</html>
```

- Tables with borders - Adding the default table borders

```
<!DOCTYPE html>
<html>
    <head></head>
    <body>
    <div>
        <table border="1">
            <tr>
            <th>Table Header</th><th>Table Header</th>
            </tr>
            <tr>
            <td>Table cell 1</td><td>Table cell 2</td>
            </tr>
            <tr>
            <td>Table cell 3</td><td>Table cell 4</td>
            </tr>
        </table>
    </div>
    <div>

        <table border="1" style="border:1px solid black;">
            <tr>
            <th>Table Header</th><th>Table Header</th>
            </tr>
            <tr>
            <td>Table cell 1</td><td>Table cell 2</td>
            </tr>
            <tr>
            <td>Table cell 3</td><td>Table cell 4</td>
            </tr>
        </table>
    </div>
    <div>
        <table style="border:1px dotted black;">
```

```
<tr>
    <th>Table Header</th><th>Table Header</th>
</tr>
<tr>
    <td>Table cell 1</td><td>Table cell 2</td>
</tr>
<tr>
    <td>Table cell 3</td><td>Table cell 4</td>
</tr>
</table>
</div>

</body>
</html>
```

- <u>Sets the padding of table cells - The cellpadding attribute</u>

```
<!DOCTYPE html>
<html>
    <head></head>
    <body>
        <div>
            <table border="1" cellpadding="100">
            <caption>Book</caption>

            <tr>
                <th>NAME</th>
                <th>AUTHOR</th>
                <th>GENRE</th>
            </tr>
            <tr>
                <td>The Kite Runner</td>
                <td>Khaled Hosseini</td>
                <td>Historical fiction Drama</td>
            </tr>
        </table>
        </div>
    </body>
</html>
```

- <u>Sets the distance between table cells - The cellspacing attribute</u>

```
<!DOCTYPE html>
<html>
    <body>
        <table border="1" cellspacing="100">
```

```
                <tr>
                    <th>Month</th>
                    <th>Savings</th>
                </tr>
                <tr>
                    <td>January</td>
                    <td>$100</td>
                </tr>
            </table>
            <table border="1" cellspacing="10">
                <tr>
                    <th>Month</th>
                    <th>Savings</th>
                </tr>
                <tr>
                    <td>January</td>
                    <td>$100</td>
                </tr>
            </table>
        </body>
</html>
```

- <u>Table cells that span more than one row/column - The rowspan/colspan attribute</u>

```
<!DOCTYPE html>
<html>
    <body>
        <table border="1">
            <tr>
                <th colspan="2">Name</th>
                <th>Age</th>
            </tr>
            <tr>
                <td>Jill</td>
                <td>Smith</td>
                <td>43</td>
            </tr>
            <tr>
                <td>Eve</td>
                <td>Jackson</td>
                <td>57</td>
            </tr>
        </table>
        <table border="1">
```

```
                    <tr>
                        <th>Name</th>
                        <td>Jill</td>
                    </tr>
                    <tr>
                        <th rowspan="2">Phone</th>
                        <td>555-1234</td>
                    </tr>
                    <tr>
                        <td>555-8745</td>
                </tr>


            </table>
        </body>
    </html>
```

- Column groups - The col and colgroup elements

```
<!DOCTYPE html>
<html>
<body>
    <h1>GeeksforGeeks</h1>
    <h2>HTML colgroup tag</h2>
    <table>
    <!-- colgroup tag starts here-->
    <colgroup>
        <col span="2" style="background-color: green; color: white" />
        <col style="background-color: tomato" />
            <!-- colgroup tag ends here-->
    </colgroup>
    <tr>
        <th>STUDENT</th>
        <th>COURSE</th>
        <th>AGE</th>
    </tr>
    <tr>
        <td>Manas Chhabra</td>
        <td>BCA</td>
        <td>19</td>
    </tr>
    <tr>
        <td>Anurag Gupta</td>
        <td>B.TECH</td>
        <td>23</td>
    </tr>
```

```
        </table>
    </body>
</html>
```

HTML Lists

- Creating an unordered list

```
<!DOCTYPE html>
<html>
<body>

<h2>An Unordered HTML List</h2>

<ul>
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ul>

<h2>An Ordered HTML List</h2>

<ol>
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ol>

</body>
</html>
```

- Creating an ordered list

```
<!DOCTYPE html>
<html>
<body>

<h2>An ordered HTML list</h2>

<ol>
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ol>
```

-
- ```html
  </body>
  </html>
  ```

- Creating a definition list
- ```html
  <!DOCTYPE html>
  <html>
  <body>

  <h2>A Description List</h2>

  <dl>
     <dt>Coffee</dt>
        <dd>- black hot drink</dd>
     <dt>Milk</dt>
        <dd>- white cold drink</dd>
  </dl>

  </body>
  </html>
  ```

- Creating a nested list - Single level
- ```html
  <!DOCTYPE html>
  <html>
  <body>

  <h2>An ordered HTML list</h2>

  <ol>
     <li>Coffee</li>
     <li>Tea</li>
     <li>Milk</li>
  </ol>

  </body>
  </html>
  ```

- Creating a nested list - Multi level
- ```html
  <!DOCTYPE html>
  <html>
      <head></head>
      <body>
          <ol>
  ```

```
            <li>First</li>
            <li>Second
                <ol style="list-style-type: lower-alpha; padding-bottom:
0;">
                    <li style="margin-left:2em">Sub of Second</li>
                    <li style="margin-left:2em; padding-bottom:
0;">Another Sub</li>
                </ol>
            </li>
            <li>Third</li>
            <li>Fourth </li>
        </ol>
    </body>
</html>
```

HTML Forms

- Creating text input fields

```
<!DOCTYPE html>
<html>
<body>

<h2>Text input fields</h2>

<form>
  <label for="fname">First name:</label><br>
  <input type="text" id="fname" name="fname" value="John"><br>
  <label for="lname">Last name:</label><br>
  <input type="text" id="lname" name="lname" value="Doe">
</form>

<p>Note that the form itself is not visible.</p>

<p>Also note that the default width of text input fields is 20
characters.</p>

</body>
</html>
```

- Creating password input fields

```
<!DOCTYPE html>
<html>
```

```
<body>

<h1>Display a Password Field</h1>

<form action="/action_page.php">
  <label for="email">Email:</label>
  <input type="email" id="email" name="email"><br><br>
  <label for="pwd">Password:</label>
  <input type="password" id="pwd" name="pwd" minlength="8"><br><br>
  <input type="submit">
</form>

</body>
</html>
```

- Creating HTML5 new input fields

```
<!DOCTYPE html>
<html>
    <body>
        <input type="email" id="email" name="email" multiple />
        <!DOCTYPE html>
        <html>
        <body>

        <h1>Show File-select Fields</h1>

        <h3>Show a file-select field which allows only one file to be
chosen:</h3>
        <form action="/action_page.php">
          <label for="myfile">Select a file:</label>
          <input type="file" id="myfile" name="myfile"><br><br>
          <input type="submit">
        </form>

        <h3>Show a file-select field which allows multiple files:</h3>
        <form action="/action_page.php">
          <label for="myfile">Select files:</label>
          <input type="file" id="myfile" name="myfile" multiple><br><br>
          <input type="submit">
        </form>

        </body>
        </html>
    </body>
```

- ```
  </html>
  ```

- Checkboxes and radio buttons

```html
<!DOCTYPE html>
<html>
    <body>
        <label class="container">One
            <input type="checkbox" checked="checked">
            <span class="checkmark"></span>
        </label>

        <label class="container">Two
            <input type="checkbox">
            <span class="checkmark"></span>
        </label>

        <label class="container">Three
            <input type="checkbox">
            <span class="checkmark"></span>
        </label>

        <label class="container">Four
            <input type="checkbox">
            <span class="checkmark"></span>
        </label>
        <label><input type="checkbox" name="cb1" class="chb" />
CheckBox1</label>
        <label><input type="checkbox" name="cb2" class="chb" />
CheckBox2</label>
        <label><input type="checkbox" name="cb3" class="chb" />
CheckBox3</label>
        <label><input type="checkbox" name="cb4" class="chb" />
CheckBox4</label>

        <form>
          Do you agree this statement?
          <br>
          <input type="radio"
                 name="agree"
                 value="yes">Yes
          <br>
          <input type="radio"
                 name="agree"
                 value="no">No
```

```
            <br>
            <input type="Submit">
        </form>
    </body>
```

- Select boxes - A drop-down list

```
<!DOCTYPE html>
<html>
<body>

<h1>The select element</h1>

<p>The select element is used to create a drop-down list.</p>

<form action="/action_page.php">
  <label for="cars">Choose a car:</label>
  <select name="cars" id="cars">
    <option value="volvo">Volvo</option>
    <option value="saab">Saab</option>
    <option value="opel">Opel</option>
    <option value="audi">Audi</option>
  </select>
  <br><br>
  <input type="submit" value="Submit">
</form>

<p>Click the "Submit" button and the form-data will be sent to a page on the
server called "action_page.php".</p>

</body>
</html>
```

- Select box with a pre-selected value

```
<!DOCTYPE html>
<html>
    <body>
        <select name="hall" id="hall" value="3">
            <option>1</option>
            <option>2</option>
            <option>3</option>
            <option>4</option>
```

```html
            <option>5</option>
        </select>
        <select>
            <option value="" selected disabled hidden>Choose here</option>
            <option value="1">One</option>
            <option value="2">Two</option>
            <option value="3">Three</option>
            <option value="4">Four</option>
            <option value="5">Five</option>
        </select>
        <select value="B">
            <option value="A">Apple</option>
            <option value="B">Banana</option>
            <option value="C">Cranberry</option>
        </select>
        <select name="hall" id="hall">
            <option> 1 </option>
            <option> 2 </option>
            <option selected> 3 </option>
            <option> 4 </option>
            <option> 5 </option>
        </select>
    </body>
</html>
```

- Grouping of options inside a select box

```html
<!DOCTYPE html>
<html>
    <body>
        <form action="/favorite-food/" method="post">
            <label for="food">What is your favorite food?</label>
            <select id="food" name="food">
              <optgroup label="Fruits">
                <option value="1">Apples</option>
                <option value="2">Bananas</option>
                <option value="3">Peaches</option>
              </optgroup>
              <optgroup label="Vegetables">
                <option value="4">Broccoli</option>
                <option value="5">Carrots</option>
                <option value="6">Cucumbers</option>
              </optgroup>
              <optgroup label="Baked Goods">
                <option value="7">Apple Pie</option>
```

```
•            <option value="8">Bagel</option>
•            <option value="9">Chocolate Cake</option>
•          </optgroup>
•        </select>
•      </form>
•      <form action="/animals/" method="post">
•        <label for="animals">Pick your favorite animals:</label>
•        <select id="animals" multiple name="animals" size="10">
•          <optgroup label="Dinosaurs">
•            <option value="brontosaurus">Brontosaurus</option>
•            <option value="pterodactyl">Pterodactyl</option>
•            <option value="trex">Tyrannosaurus Rex</option>
•            <option value="velociraptor">Velociraptor</option>
•          </optgroup>
•          <optgroup label="Ungulates">
•            <option value="camel">Camel</option>
•            <option value="giraffe">Giraffe</option>
•            <option value="hippo">Hippo</option>
•            <option value="horse">Horse</option>
•            <option value="zebra">Zebra</option>
•          </optgroup>
•          <optgroup label="Household Pets">
•            <option value="cat">Cat</option>
•            <option value="dog">Dog</option>
•            <option value="fish">Fish</option>
•            <option value="rabbit">Rabbit</option>
•          </optgroup>
•        </select>
•      </form>
•    </body>
•  </html>
```

- Enable multiple selection inside a select box

```
•  <!DOCTYPE html>
•  <html>
•      <body>
•          <select name="Country" multiple size="5">
•              <option value="USA">USA</option>
•              <option value="Russia">Russia</option>
•              <option value="India">India</option>
•              <option value="Britain">Britain</option>
•          </select>
•          <label for="cars">Choose a car:</label>
•
```

```
•        <select name="cars" id="cars" multiple>
•          <option value="volvo">Volvo</option>
•          <option value="saab">Saab</option>
•          <option value="opel">Opel</option>
•          <option value="audi">Audi</option>
•        </select>
•        <h1 style="color: green;">
•            GeeksforGeeks
•        </h1>
•        <p>
•            The below list does not allow
•            multiple selection.
•        </p>
•        <form id="form1">
•            <select width=300 style="width: 350px">
•                <option value='blue'>Blue</option>
•                <option value='green'>Green</option>
•                <option value='red'>Red</option>
•                <option value='yellow'>Yellow</option>
•                <option value='' selected>Select a Color</option>
•            </select>
•        </form>
•        <p>
•            The below list does allows
•            multiple selections.
•        </p>
•        <form id="form2">
•            <select width=300 style="width: 350px" size="8" multiple>
•                <option value='blue'>Blue</option>
•                <option value='green'>Green</option>
•                <option value='red'>Red</option>
•                <option value='yellow'>Yellow</option>
•                <option value='orange'>Orange</option>
•            </select>
•        </form>
•    </body>
• </html>
```

- Textarea - A multi-line text input field

```
• <!DOCTYPE html>
• <html>
•    <body>
•        <label for="w3review">Review of W3Schools:</label>
•
```

```
• 			<textarea id="w3review" name="w3review" rows="4" cols="50">
• 			At w3schools.com you will learn how to make a website. They offer
  free tutorials in all web development technologies.
• 			</textarea>
• 			<form action = "/cgi-bin/hello_get.cgi" method = "get">
• 				What improvements you want in College?
• 				<br>
• 				<textarea rows = "5" cols = "60" name = "description">
• 					Enter details here...
• 				</textarea><br>
• 				<input type = "submit" value = "submit" />
• 			</form>
• 		</body>
•	</html>
```

- <u>Creating buttons</u>

```
<!DOCTYPE html>
<html>
    <body>
        <button type="button">Click Me!</button>
        <button type="button" onclick="alert('You pressed the button!')">Click
me!</button>
        <form>
            Enter Name:<input type="text" name="name"/><br/>
            <button>Submit</button>
        </form>
    </body>
</html>
```

- <u>File select field</u>

```
•	<!DOCTYPE html>
•	<html>
•		<body>
•			<label for="myfile">Select a file:</label>
•			<input type="file" id="myfile" name="myfile">
•			<label for="avatar">Choose a profile picture:</label>
•
•			<input type="file" id="avatar" name="avatar" accept="image/png,
  image/jpeg" />
•			<form method="post" enctype="multipart/form-data">
•				<div>
•					<label for="image_uploads">Choose images to upload (PNG,
  JPG)</label>
```

```
                    <input
                      type="file"
                      id="image_uploads"
                      name="image_uploads"
                      accept=".jpg, .jpeg, .png"
                      multiple />
                  </div>
                  <div class="preview">
                    <p>No files currently selected for upload</p>
                  </div>
                  <div>
                    <button>Submit</button>
                  </div>
                </form>
            </body>
        </html>
```

- Grouping similar form fields

```
<!DOCTYPE html>
<html>
<body>
    <form>
        <fieldset>
            <legend>Student Information:</legend>
            Student Name:<br>
            <input type="text" name="sname">
            <br>
            Student Subject:<br>
            <input type="text" name="ssubject">
            <br>
        </fieldset>
    </form>
    <form action="/action_page.php">
     <fieldset>
        <legend>Personalia:</legend>
        <label for="fname">First name:</label>
        <input type="text" id="fname" name="fname"><br><br>
        <label for="lname">Last name:</label>
        <input type="text" id="lname" name="lname"><br><br>
        <label for="email">Email:</label>
        <input type="email" id="email" name="email"><br><br>
        <label for="birthday">Birthday:</label>
        <input type="date" id="birthday" name="birthday"><br><br>
        <input type="submit" value="Submit">
```

```
            </fieldset>
        </form>
        <form>
            <fieldset>
                <legend>Preferred Contact Method:</legend>
                <input type="radio" id="contact-phone" name="contact-method"
    value="phone">
                <label for="contact-phone">Phone</label><br>
                <input type="radio" id="contact-email" name="contact-method"
    value="email">
                <label for="contact-email">Email</label><br>
                <input type="radio" id="contact-mail" name="contact-method"
    value="mail">
                <label for="contact-mail">Mail</label><br>
            </fieldset>
        </form>
    </body>
</html>
```

- <u>Submit or reset a form - The use of submit and reset button</u>

```
<!DOCTYPE html>
<html>
    <body>
        <input type="submit" value="Submit now" />
        <input type="reset" value="Reset" />
        <form action="url-to-formmail-provided-by-your-ISP" method="post">
            First name: <input type="text" name="firstname" /> <br />
            Surname: <input type="text" name="surname" /><br />
            <input type="reset" value="Clear form" />
            <input type="submit" value="Submit now" />
        </form>
        <input type="reset">
    </body>
</html>
```

HTML Styles

- <u>Style HTML elements using inline styles - The style attribute</u>

```
<!DOCTYPE html>
<html>
    <head>
        <title>Playing with Inline Styles</title>
```

```
    • </head>
    • <body>
    •   <p style="color:blue;font-size:46px;">
    •     I'm a big, blue, <strong>strong</strong> paragraph
    •   </p>
    • </body>
    • <p style="color: blue; font-size: 46px;">
    •   <h1 style="color:blue;text-align:center">This is a header</h1>
    •   <p style="color:green">This is a paragraph.</p>
    • </html>
```

- <u>Style HTML elements using embedded styles - The style element</u>

```
    • <!DOCTYPE html>
    • <html>
    • <head>
    • <style>
    • body {background-color: powderblue;}
    • h1    {color: blue;}
    • p     {color: red;}
    • </style>
    • </head>
    • <body>
    •
    • <h1>This is a heading</h1>
    • <p>This is a paragraph.</p>
    •
    • </body>
    • </html>
```

- <u>Link to an external style sheet - The link element</u>

```
    • <!DOCTYPE html>
    • <html>
    • <head>
    • <link rel="stylesheet" href="mystyle.css">
    • </head>
    • <body>
    •
    • <h1>This is a heading</h1>
    • <p>This is a paragraph.</p>
    •
    • </body>
    • </html>
```

Mystyle.css

```css
body {background-color: powderblue;}
h1   {color: blue;}
p    {color: red;}
```

- Learn more about styling of HTML elements

```html
<!doctype html>
<html lang="en-US">
  <head>
    <meta charset="UTF-8" />
    <title>Test page</title>
    <style>
      p {
        color: white;
        background-color: blue;
        padding: 5px;
        border: 1px solid black;
      }
    </style>
    <style media="all and (max-width: 500px)">
      p {
        color: blue;
        background-color: yellow;
      }
    </style>
  </head>
  <body>
    <p>This is my paragraph.</p>
  </body>
</html>
```

HTML iFrame

- Using an iframe to embed a web page inside another HTML document

```html
<!DOCTYPE html>
<html>
    <body>
        <iframe src="https://webflow.com/made-in-webflow/iframe"
    title="description"></iframe>
        <h2>HTML Iframes</h2>
```

-
```
        <p>You can use the height and width attributes to specify the size
of the iframe:</p>

        <iframe src="html basic/1-A_sample_HTML_document.html"
height="200" width="300" title="Iframe Example"></iframe>
    </body>
</html>
```

- <u>Removing the default frameborder from an iframe</u>
```
<!DOCTYPE html>
<html>
    <body>
        <iframe src="https://www.iframe-generator.com/" width="300"
height="300" frameBorder="0">Browser not compatible.</iframe>
        <h2>Remove the Iframe Border</h2>
        <p>To remove the default border of the iframe, use CSS:</p>

        <iframe src="html basic/19-Computer output tags.html"
style="border:none;" title="Iframe Example"></iframe>
    </body>
</html>
```

- <u>Opening linked web pages inside an iframe</u>
```
<!DOCTYPE html>
<html>
    <body>
        <iframe src="html basic/12-Marking deleted and inserted text.html"
name="myFrame"></iframe>
        <p><a href="https://www.tutorialrepublic.com/"
target="myFrame">Open TutorialRepublic.com</a></p>
    </body>
</html>
```

HTML5 New Input Types

- <u>Creating HTML5 color input type</u>
```
<!DOCTYPE html>
<html>
<body>

```

- ```html
  <h1>Show a Color Picker</h1>

  <form action="/action_page.php">
    <label for="favcolor">Select your favorite color:</label>
    <input type="color" id="favcolor" name="favcolor" value="#ff0000"><br><br>
    <input type="submit">
  </form>

  </body>
  </html>
  ```

- ## Creating HTML5 date input type

- ```html
  <!DOCTYPE html>
  <html>
  <body>

  <h1>Show a Date Control</h1>

  <form action="/action_page.php">
    <label for="birthday">Birthday:</label>
    <input type="date" id="birthday" name="birthday">
    <input type="submit">
  </form>

  </body>
  </html>
  ```

- ## Creating HTML5 datetime input type

- ```html
  <!DOCTYPE html>
  <html>
  <body>

  <h1>Show a Date and Time Control</h1>

  <form action="/action_page.php">
    <label for="birthdaytime">Birthday (date and time):</label>
    <input type="datetime-local" id="birthdaytime" name="birthdaytime">
    <input type="submit">
  </form>

  <form action="../../form-result.php" target="_blank">
  ```

-
  - <p>Meeting: <input type="datetime" name="meetingtime"> <input type="submit" value="Send data"></p>
-
- </form>
-
- <form action="../../form-result.php" method="post" target="_blank">
-
  - <p>
-
  - Make an appointment: <input type="datetime" name="appointmentdate" list="appointmentdateslist">
-
  - <input type="submit" value="Send data">
-
  - </p>
-
- </form>
-
- <datalist id="appointmentdateslist">
-
  - <option value="2015-05-05 08:00Z">
-
  - <option value="2015-05-12 11:30-03:00">
-
  - <option value="2015-05-19 09:00+01:00">
-
  - <option value="2015-05-26 22:19:45.32+00:00">
-
  - </datalist>
-
- </body>
- </html>

- [Creating HTML5 datetime-local input type](#)

- <!DOCTYPE html>
- <html>
- <body>
-
- <h1>Show a Date and Time Control</h1>
-
- <form action="/action_page.php">
  - <label for="birthdaytime">Birthday (date and time):</label>
  - <input type="datetime-local" id="birthdaytime" name="birthdaytime">

```
    <input type="submit">
</form>
<form action = "" method = "get">
    Details:<br><br>
    Student Name<br><input type="name" name="sname"><br>
    Exam Date and Time<br><input type="datetime-local"
name="datetime"><br>
    <input type="submit" value="Submit">
 </form>


</body>
</html>
```

- Creating HTML5 email input type

```
<!DOCTYPE html>
<html>
    <body>
        <label for="email_input">Enter your email address:</label>
        <input type="email" name="email" id="email_input"
placeholder="Your Email">
        <h1>Show Email Fields</h1>

        <h3>Show an email field (allows only one email address):</h3>
        <form action="/action_page.php">
          <label for="email">Enter your email:</label>
          <input type="email" id="email" name="email">
          <input type="submit">
        </form>

        <h3>Show an email field (allows multiple email addresses).
    Separate each email address with a comma:</h3>
        <form action="/action_page.php">
          <label for="emails">Enter email addresses:</label>
          <input type="email" id="emails" name="emails" multiple>
          <input type="submit">
        </form>
    </body>
</html>
```

- Creating HTML5 month input type

```

<!DOCTYPE html>
<html>
```

```html
<head>
    <title>
        HTML input type month
    </title>
</head>

<body style="text-align:center;">

    <h1>GeeksForGeeks</h1>

    <h2>HTML &lt;Input type ="month"&gt;</h2>

    <form id="myGeeks">
        <input type="month" id="month_id"
            name="geeks" >
    </form>
    <h1>Display a Month Input Control</h1>

    <p>If the browser supports it, a date picker pops up when entering the
input field.</p>

    <form action="/action_page.php">
      <label for="bdaymonth">Birthday (month and year):</label>
      <input type="month" id="bdaymonth" name="bdaymonth">
      <input type="submit">
    </form>
</body>

</html>
```

- <u>Creating HTML5 number input type</u>

```html
<!DOCTYPE html>
<html>
<body>

<h1>Display a Number Field</h1>

<form action="/action_page.php">
  <label for="quantity">Quantity (between 1 and 5):</label>
  <input type="number" id="quantity" name="quantity" min="1" max="5">
  <input type="submit">
</form>
```

```
• </body>
• </html>
```

- Creating HTML5 range input type

```
<!DOCTYPE html>
<html>
<body>

<h1>Display a Range Field</h1>

<form action="/action_page.php">
  <label for="vol">Volume (between 0 and 50):</label>
  <input type="range" id="vol" name="vol" min="0" max="50">
  <input type="submit">
</form>
<div class="slidecontainer">
    <input type="range" min="1" max="100" value="50" class="slider" id="myRange">
</div>

</body>
</html>
```

- Creating HTML5 search input type

```
• <!DOCTYPE html>
• <html>
• <body>
•
• <h1>Display a Search Field</h1>
•
• <form action="/action_page.php">
•   <label for="gsearch">Search Google:</label>
•   <input type="search" id="gsearch" name="gsearch">
•   <input type="submit">
• </form>
•
• </body>
• </html>
```

- Creating HTML5 tel input type

```
<!DOCTYPE html>
<html>
<body>

<h1>Display a Telephone Input Field</h1>

<form action="/action_page.php">
  <label for="phone">Enter a phone number:</label><br><br>
  <input type="tel" id="phone" name="phone" placeholder="123-45-678"
  pattern="[0-9]{3}-[0-9]{2}-[0-9]{3}" required><br><br>
  <small>Format: 123-45-678</small><br><br>
  <input type="submit">
</form>


</body>
</html>
```

- <u>Creating HTML5 time input type</u>

```
<!DOCTYPE html>
<html>
<body>

<h1>Show a Time Input Control</h1>

<p>If the browser supports it, a time picker pops up when entering the
input field.</p>

<form action="/action_page.php">
  <label for="appt">Select a time:</label>
  <input type="time" id="appt" name="appt">
  <input type="submit">
</form>

</body>
</html>
```

- <u>Creating HTML5 url input type</u>

```
<!DOCTYPE html>
<html>
<body>

<h1>Display a URL Input Field</h1>
```

```
<form action="/action_page.php">
    <label for="homepage">Add your homepage:</label>
    <input type="url" id="homepage" name="homepage"><br><br>
    <input type="submit">
</form>

</body>
</html>
```

- Creating HTML5 week input type

```
<!DOCTYPE html>
<html>
    <head>
        <title>HTML input week</title>
    </head>

    <body>
        <form action = "" method = "get">
            Details:<br><br>
            Student Name<br><input type = "name" name = "sname"><br>
            Training week<br><input type = "week" name = "week"><br>
            <input type = "submit" value = "Submit">
        </form>
    </body>

</html>
```

HTML5 Audio

- Embedding audio in HTML documents

```
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>
<h2>Click play button to play audio</h2>
<audio src="../../../MP3/Vanthan x VannDa - កម្មសររកម្មរ(Khmer Gentlemen)
[Official Video].mp3" controls></audio>
</body>
</html>
```

- Defining alternative sources for audio element

```html
<!DOCTYPE html>
<html>
<body>

<h1>The audio element</h1>

<p>Click on the play button to play a sound:</p>

<audio controls>
  <source src="../../../MV/Billie Eilish - bad guy.ogg" type="audio/ogg">
  <source src="../../../MP3/ខលម្សនុបមុតកមន្ឋុក - ZONO.mp3" type="audio/mpeg">
  Your browser does not support the audio element.
</audio>
<audio controls>
    <source src="../../../MP3/2WEI, Edda Hayes - Survivor
(Tradução_Legendado) - Arya Stark -.wmv" type="audio/mpeg">
    Your browser does not support the audio element.
  </audio>
  <audio controls>
    <source src="../../../MP3/ខលម្សនុបមុតកមន្ឋុក - ZONO.mp3" type="audio/mpeg">
    Your browser does not support the audio element.
  </audio>

</body>
</html>
```

- Linking the audio files

```html
<!DOCTYPE html>
<html>
    <body>
        <a href=https://www.jango.com/music/AIO>Play sound file</a>
    </body>
</html>
```

- Inserting audio in HTML documents using the object element

```html
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
```

- ```html
  <body>
  ```
- ```html
  <h2>Click play button to play audio</h2>
  ```
- ```html
  <audio src="../../../MP3/Vanthan x VannDa - កម្មសិរីខ្មែរ(Khmer Gentlemen)
  [Official Video].mp3" controls></audio>
  ```
- ```html
  </body>
  ```
- ```html
  </html>
  ```

- <u>Inserting audio in HTML documents using the embed element</u>

- ```html
  <!DOCTYPE html>
  ```
- ```html
  <html>
  ```
- ```html
  <title>Embed audio using HTML</title>
  ```
- ```html
  <head>
  ```
- ```html
  </head>
  ```
- ```html
  <body style="background-color: orange;">
  ```
- ```html
      <center>
  ```
- ```html
          <h1 style="color:white;"> My world Music </h1>
  ```
- ```html
          <audio controls>
  ```
- ```html
              <source
  ```
- ```html
                  src="https://samplelib.com/lib/preview/mp3/sample-3s.mp3"
  ```
- ```html
                  type="audio/mp3">
  ```
- ```html
              </source>
  ```
- ```html
          </audio>
  ```
- ```html
      </center>
  ```
- ```html
  </body>
  ```
- ```html
  </html>
  ```

HTML5 Video

- <u>Embedding video in HTML documents</u>

-
- ```html
  <!DOCTYPE html>
  ```
- ```html
  <html>
  ```
- ```html
      <body style="text-align: center">
  ```
- ```html
          <h1 style="color: green">GeeksforGeeks</h1>
  ```
-
- ```html
          <h2>How to insert video and play in HTML</h2>
  ```
-
- ```html
          <p>Adding Video on my Webpage</p>
  ```
-
- ```html
          <video width="500px" height="500px" controls="controls">
  ```

```
                <source src="../../../MV/That Girl - Olly Murs (Unofficial
Video).mp4" type="video/mp4" />
        </video>
    </body>
</html>
```

- Defining alternative sources for video element

```
<!DOCTYPE html>
<html>
<body>

<video width="400" controls>
  <source src="../../../MV/Billie Eilish - bad guy.mp4" type="video/mp4">
  <source src="../../../MV/Billie Eilish - bad guy.ogg" type="video/ogg">
  Your browser does not support HTML video.
</video>

<p>
Video courtesy of
<a href="https://www.bigbuckbunny.org/" target="_blank">Big Buck
Bunny</a>.
</p>

<video width="400" height="400" autoplay>
    <source src="../../../MV/Billie Eilish - bad guy.mp4"
type="video/mp4">
    <source src="../../../MV/Billie Eilish - bad guy.ogg"
type="video/ogg">
    Your browser does not support the video tag.
</video>

<video width="320" height="240" autoplay muted>
    <source src="../../../MV/Billie Eilish - bad guy.mp4"
type="video/mp4">
    <source src="../../../MV/Billie Eilish - bad guy.ogg"
type="video/ogg">
  Your browser does not support the video tag.
</video>


</body>
</html>
```

- Inserting video in HTML documents using the object element

```html
<!DOCTYPE html>
<html>
    <body>
        <video src="../../../MV/Billie Eilish - bad guy.mp4"
type="video/mp3" controls></video>
    </body>
</html>
```

- Inserting video in HTML documents using the embed element

```html
<!DOCTYPE html>
<html>
    <body style="text-align: center">
        <h1 style="color: green">GeeksforGeeks</h1>

        <h2>How to insert video and play in HTML</h2>

        <p>Adding Video on my Webpage</p>

        <video width="500px" height="500px" controls="controls">
        <source src="../../../MV/That Girl - Olly Murs (Unofficial
Video).mp4" type="video/mp4" />
        </video>
    </body>
</html>
```

- Embedding the YouTube video in HTML documents

```html
<!DOCTYPE html>
<html>
<body>

<iframe width="420" height="345"
src="https://www.youtube.com/embed/tgbNymZ7vqY">
</iframe>

</body>
</html>
```