**Roll No: 23AI41**

**Batch : 2**

**EXPERIMENT NO- 1**

**AIM**: Design web pages for College website using following tags:

1. Home page: Elements, Attribute, Head, Body, Hyperlink.
2. Department: Table tag.
3. Facility: Ordered or unordered list tag.
4. Contact us: Form, Textbox, button, TextArea.

**RESOURCES REQUIRED**: H/W :- P4 machine

S/W :- Web Browser,Notepad

### THEORY:

HTML stands for Hyper Text 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 elements tell the browser how to display the content.HTML elements label pieces of content such as "this is a heading", "this is a paragraph", "this is a link", etc. Basic HTML tags:

* The <!DOCTYPE html> declaration defines that this document is an HTML5 document
* The <html> element is the root element of an HTML page
* The <head> element contains meta information about the HTML page.

1. HTML Elements

The HTML element is everything from the start tag to the end tag:

<tagname>Content goes here...</tagname> Examples of some HTML elements:

<h1>My First Heading</h1>

<p>My first paragraph.</p>

1. HTML Links - Syntax

The HTML <a> tag defines a hyperlink. It has the following syntax:

<a href="url">link text</a>

1

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The most important attribute of the <a> element is the href attribute, which indicates the link's destination.

1. HTML Formatting Elements

Formatting elements were designed to display special types of text:

* + <b> - Bold text
  + <strong> - Important text
  + <i> - Italic text
  + <em> - Emphasized text
  + <mark> - Marked text
  + <small> - Smaller text
  + <del> - Deleted text
  + <ins> - Inserted text
  + <sub> - Subscript text
  + <sup> - Superscript text

Images: Images can improve the design and the appearance of a web page.

<img src="pic\_trulli.jpg" alt="Italian Trulli">

Tables: HTML tables allow web developers to arrange data into rows and columns.

1. Table Cells: Each table cell is defined by a <td> and a </td> tag.
2. Table Rows : Each table row starts with a <tr> and end with a </tr> tag.
3. Table Headers : Sometimes you want your cells to be headers, in those cases use the <th> tag instead of the <td> tag:

List : HTML lists allow web developers to group a set of related items in lists.

1. Unordered HTML List

An unordered list starts with the <ul> tag. Each list item starts with the <li> tag.

<ul>

<li>Coffee</li>

<li>Tea</li>

<li>Milk</li>

</ul>

1. Ordered HTML List

2

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An ordered list starts with the <ol> tag. Each list item starts with the <li> tag.

<ol>

<li>Coffee</li>

<li>Tea</li>

<li>Milk</li>

</ol>

1. HTML Description Lists

HTML also supports description lists.A description list is a list of terms, with a description of each term. The <dl> tag defines the description list, the <dt> tag defines the term (name), and the <dd> tag describes each term:

<dl>

<dt>Coffee</dt>

<dd>- black hot drink</dd>

<dt>Milk</dt>

<dd>- white cold drink</dd>

</dl>

Frame: HTML frames are used to divide your browser window into multiple sections where each section can load a separate HTML document. A collection of frames in the browser window is known as a frameset. The window is divided into frames in a similar way the tables are organized: into rows and columns.

iFrame: The <iframe> tag specifies an inline frame.

An inline frame is used to embed another document within the current HTML document. Add and remove iframe borders (with CSS):

<iframe src="/default.asp" width="100%" height="300" style="border:1px solid black;">

</iframe>

<iframe src="/default.asp" width="100%" height="300" style="border:none;">

</iframe>

Multimedia: Multimedia comes in many different formats. It can be almost anything you can hear or see, like images, music, sound, videos, records, films, animations, and more.Web pages often contain multimedia elements of different types and formats.Multimedia

3

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elements (like audio or video) are stored in media files.The most common way to discover the type of a file, is to look at the file extension.

Multimedia files have formats and different extensions like: .wav, .mp3, .mp4, .mpg, .wmv, and .avi.

**Code:**

Github link: https://github.com/Hasan-89/Experiment\_No-1.git

**Conclusion:** We have studied different HTML tags and used it to implement the website pages.

#### Multiple Choice Questions:

1. What is the correct syntax of doctype in HTML5?
   1. </doctype html>
   2. <doctype html>
   3. <doctype html!>
   4. <!doctype html>
2. Which of the following is used to read an HTML page and render it?
   1. Web server
   2. Web network
   3. Web browser
   4. Web matrix
3. What is DOM in HTML?
   1. Language dependent application programming
   2. Hierarchy of objects in ASP.NET
   3. Application programming interface
   4. Convention for representing and interacting with objects in html documents
4. In which part of the HTML metadata is contained?
   1. head tag
   2. title tag
   3. html tag
   4. body tag
5. Which element is used to get highlighted text in HTML5?
   1. <u>
   2. <mark>
   3. <highlight>
   4. <b>

4

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### REFERENCES:

1. Introduction to HTML: https://[www.youtube.com/watch?v=BsDoLVMnmZs](http://www.youtube.com/watch?v=BsDoLVMnmZs)
2. <https://nptel.ac.in/courses/106105084>

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