



Submitted By:

Lab Work: 4

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hleb Technology: - hleb technology refers to the tools the techniques used to create, manage, and maintain websites. It includes programming langauges, fremework, b. libraries, and protocols. that allow web pages to function. Llebtechnology enables communi--cation between browsers and servers, making content accessible amoss devices. Lieb technology is also colled Client-server Technology

3) Five Programming languages and Framework for web developenent:-

Programming langauges:-

1) HTML: It is markup languages used for basic structure of web pages.

2) CSS: CSS is used to define styles for web pages, including the design layout and variations in display for different devices and screen sizes.

3) Java Script: Java Script is a programming language commonly used to make web pages interactive. It runs in web browsers and can control webpage est content, handle user inputs.

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HRead gs 4) Python: It is used by the Django framework and used in a lot of mathematical calculation. 1) PHP:- It adds by word press. in your web pages. trame works !-1) Node. 7s: - A server-side java script framework. 2) Ruby on Rails= A full-stack framework built using ruby. 3) Realt. Js: - A frontend framework 4) Ionic: A mobile fromework. 1) Djongo: A full-stack framework buit using Pyton. 9) Libraries and database used in web developmenti <u>Libraries</u> :- Il very, Realt, Angular, Vele. Js Data base: - My SQL, MongoDB, firebase, SQUITE

9) (MS: - A (CMS) content Management System is software that out ollows users to create, manage, and modify content on a website without coding knowledge. Er: Llordpress , Joomla, Drupal 9) HTML and its Structure: - HTML (HyperText Markup Longolage) is the standard language for creating web pages. It uses tags to difine elements like heading, paragraphs, and links. HTML structure: (Html) (head) (title) my first page </ title> <1 head? < body > Chishello i World ! < 142 < P> This is a simple HTML Pages. <160dys </ntml> 9) features of HIML: OIt is easy to learn and simple for understanding. © It is platform-independent () It supports multimedia (audio, video ond images) @ It supports link and navigation. @ It is plexible and extensible with css and Javascript.

8) FIHTML forms and 10 form elements with syntar:--> HTML forms collect user input and send data to a server. 10 forms Elements: 1. < input type = "tert"> - Tert input 2. <input type = "passwora"> - Password input 3. <input type = "email"> - Email input 4. <textarea> - Multi-line text input. r. < select > - Drop down list 6. <option> - Options in d a dropdown 7. Kinput type = "radio"> - Radio button 8. <input type="cheak box">- cheak box" 9. <button> - Button 1. <10 bel > -10 boel for element (B) Types of tags in HIML: 1.) <u>Paired tags</u>: Require both and opening and closing tag. BX: <P>Hello</P> 2:) Unpaired tags: Don't Require a closing tag. er: Limgs 9) HTML Layout: - HTML layout structures the elements like: · < headers - Top section of the page · < nous - Mavigation bar · < mains - Main content ·< section> - Grouped section ·< footer) - Bottom section

O) CSS and Its Usage: <u>CSS</u>: css (cascading style sheets) style HTML elements, controlling layout, colors, formts, spacing , etc. EY body & background -color: #fofofo; font-family: Arial, sans-serif; (3) Types of css with examples: 1. Inline CSS : It is directly used with a tag within element ex This Bred text 2. Internal CSS: It is used in <style> tags the chead> and </hea> er (style) hi 2 color ! blue ! y <ISTYLR> 8. External CSS: It is used to link a style sheet externally ex: Llink 'red = "stylesheet" herf="styles O.LSS ">

| 9 | ?) Difine these terms: - | |
|---|--|------------------------------|
| | i) Lebpage: - A single document on the internet typically written in HTML . A webpage most contain multimedia and most have unique URL, through the page is assesible. | |
| | ii) Website: - It is basically the collection of webpage and multimedra which are interlinice to each other in same folder. | |
| | iii) client-side:- Refers to operations or code the run on the user device. | - |
| | iv) server-side: A server is where the application code is stored and managed. | |
| | v) Front-end:-The part of website or web application that user directly interact with. | |
| | vi)Bark-end: The behind -the-Scence par of the website where it is managed and operated. | F |
| | Leb Husting !- A service that provides the infrastructure and storage needed to publish a website on the internet. | |
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| | | Weight and the second states |

Demonstrate Of Heading Tags And

Attributes

```
<html>
<body>
<h1> Demonstrate Of Heading Tags and Attributes</h1>
<h1 style="color: blue;">This is an H1 Heading</h1>
<h2 style="color: green;">This is an H1 Heading</h1>
<h2 style="color: green;">This is an H2 Heading</h2>
<h3 style="color: purple;">This is an H2 Heading</h2>
<h3 style="color: purple;">This is an H3 Heading</h3>
<h4 style="color: orange;">This is an H3 Heading</h3>
<h4 style="color: orange;">This is an H4 Heading</h4>
<h5 style="color: red;">This is an H4 Heading</h4>
<h5 style="color: red;">This is an H5 Heading</h5>
<h6 style="color: brown;">This is an H6 Heading</h6>
</body>
</html>
```

Demonstrate Of Heading Tags and Attributes

This is an H1 Heading

This is an H2 Heading

This is an H3 Heading

This is an H4 Heading

This is an H5 Heading

This is an H6 Heading

Font Tags

```
<html>
<body>
<h1> Demonstrate Font Tag and Its Attributes</h1>
<font face="Arial" color="blue" size="4">This text is in Arial,
blue, and size 4.</font>
<font face="Courier New" color="red" size="5">This text is in
Courier New, red, and size 5.</font>
</body>
</html>
```

Demonstrate Font Tag and Its Attributes

This text is in Arial, blue, and size 4.

```
This text is in Courier New, red, and size 5.
```

Demonstration Of Different Types Of List

Tags

```
<html>
<body>
<h1>Demonstrate Different Types of List Tags</h1>
<h2>Ordered List</h2>
<01>
   Dipendra
   Boss
   Mr KillBoy
   SANTOSH
<h2>Unordered List</h2>
MP40, M4A1 III
   MP40, AK47
   UMP, AK47
   M1887, USP
\langle ul \rangle
<h2>Definition List</h2>
<d1>
   <dt>HTML</dt>
   <dd>HyperText Markup Language</dd>
   <dt>CSS</dt>
   <dd>Cascading Style Sheets</dd>
</dl>
</body>
</html>
```

Demonstrate Different Types of List Tags

Ordered List

- 1. Dipendra
- 2. Boss
- 3. Mr KillBoy
- 4. SANTOS

Unordered List

- MP40, M4A1 III
- MP40, AK47
- UMP, AK47
- M1887, USP

Definition List

HTML

HyperText Markup Language

CSS

Cascading Style Sheets

Truth Table For "And" Gate

```
<html>
<body>
<h1>Create a Truth Table for an AND Gate</h1>
>
  A
  B
  A AND B
 0
  0
  0
 0
  1
  0
 1
  0
  0
 1
  1
  1
 </body>
</html>
```

Create a Truth Table for an AND Gate

| A | B | A AND B |
|---|---|------------|
| 0 | 0 | 0 |
| 0 | 1 | 0 |
| 1 | 0 | 0 |
| 1 | 1 | 1 |

Simple Bill

```
<html>
<body>
<h1>Simple Bill</h1>
>
  Item
  Quantity
  Unit Price 
  Total Price 
 MP40
  2
  1900
  3800
 >
  M4A1 III
  1
  2500
  2500
 >
  M1887
  1
  1900
  1900
 >
  AK47
  2
  1600
  3200
```

```
UMP
  1
  1500
  1500
 >
  USP
  1
  0
  0
 Total Amount
  12900
 </body>
</html>
```

Simple Bill

| Item | Quantity | Unit Price | Total Price |
|--------------|----------|------------|-------------|
| MP40 | 2 | 1900 | 3800 |
| M4A1 III | 1 | 2500 | 2500 |
| M1887 | 1 | 1900 | 1900 |
| AK47 | 2 | 1600 | 3200 |
| UMP | 1 | 1500 | 1500 |
| USP | 1 | 0 | 0 |
| Total Amount | 12900 | | |

Login Form

```
<html>
<body>
<h2>User Information Form</h2>
<form>
    <label for="username">UserName:</label>
   <h3>Gender:</h3>
   <input type="radio" id="male" name="gender" value="male">
   <label for="male">Male</label><br>
   <input type="radio" id="female" name="gender" value="female">
   <label for="female">Female</label><br>
   <input type="radio" id="other" name="gender" value="other">
   <label for="other">Other</label><br><br></label>
   <h3>Vehicles:</h3>
   <input type="checkbox" id="device1" name="device1" value="Mobile">
   <label for="device1">I have a Mobile</label><br>
   <input type="checkbox" id="device2" name="device2" value="Tab">
   <label for="device2">I have a Tab</label><br>
   <input type="checkbox" id="device3" name="device3" value="Laptop" checked>
   <label for="device3">I have a Laptop</label><br>
   <input type="checkbox" id="device4" name="device4" value="Desktop">
   <label for="device4">I have a Desktop</label><br><br>
   <h3>Comments:</h3>
    <label for="comments">TextArea:</label>
    <textarea id="comments" cols="50" rows="5">
This is where the user can enter text...
   </textarea><br><br>>
    <button type="submit">Submit</button>
    <button type="reset">Reset</button>
</form>
</body>
</html>
```

User Information Form

UserName:

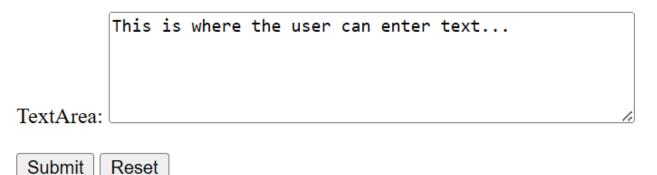
Gender:

- Male
- Female
- \bigcirc Other

Vehicles:

- $\hfill\square$ I have a Mobile
- \Box I have a Tab
- I have a Laptop
- \Box I have a Desktop

Comments:



Registration Form

```
<html>
<body>
<h2>Simple Registration Form</h2>
<form action="/register" method="post">
<label for="firstname">First Name:</label>
<input type="text" id="firstname" name="firstname" required><br><br>
<label for="lastname">Last Name:</label>
<input type="text" id="lastname" name="lastname" required><br><br>
<label for="email">Email:</label>
<input type="email" id="email" name="email" required><br><br>
<label for="password">Password:</label>
<input type="password" id="password" name="password" minlength="6" required><br><br>
<label for="confirm_password">Confirm Password:</label>
<input type="password" id="confirm_password" name="confirm_password" minlength="6" required><br><br>
<label for="gender">Gender:</label><br>
<input type="radio" id="male" name="gender" value="male">
<label for="male">Male</label><br>
<input type="radio" id="female" name="gender" value="female">
<label for="female">Female</label><br>
<input type="radio" id="other" name="gender" value="other">
<label for="other">Other</label><br><br>
<label for="dob">Date of Birth:</label>
<input type="date" id="dob" name="dob"><br><br>
<label for="phone">Phone Number:</label>
<input type="tel" id="phone" name="phone" pattern="[0-9]{10}" placeholder="1234567890"><br><br>
<label for="address">Address:</label><br>
<textarea id="address" name="address" rows="4" cols="50"></textarea><br><br>
<input type="checkbox" id="terms" name="terms" required>
<label for="terms">I agree to the terms and conditions</label><br><br>
<input type="reset" value="Register">
<input type="reset" value="Reset">
</form>
</body>
</html>
```

Simple Registration Form

| First Name: |
|-----------------------------|
| Last Name: |
| Email: |
| Password: |
| Confirm Password: |
| Gender: |
| ○ Male |
| ○ Female |
| ○ Other |
| Date of Birth: mm/dd/yyyy 📰 |
| Phone Number: 1234567890 |
| Address: |
| |
| |
| |

$\hfill\square$ I agree to the terms and conditions

| Register | Reset |
|----------|-------|
| | |

Simple Image Gallery

```
<html>
<body>
<h2>Simple Image Gallery</h2>
<!-- Gallery Section -->
<h3>Gallery</h3>
<img src="IMG_4296.jpeg" alt="Image 1" width="150.4" height="200.2">
<img src="IMG_4308.jpeg" alt="Image 2" width="150.4" height="200.2">
<img src="IMG_4309.jpeg" alt="Image 3" width="150.4" height="200.2">
<img src="IMG_4309.jpeg" alt="Image 3" width="150.4" height="200.2">
<img src="IMG_4310.jpeg" alt="Image 4" width="150.4" height="200.2">
<img src="IMG_4310.jpeg" alt="Image 4" width="150.4" height="200.2">
<img src="IMG_4311.jpeg" alt="Image 5" width="150.4" height="200.2">
</body>
</html>
```

Simple Image Gallery

Gallery



Audio Embedding

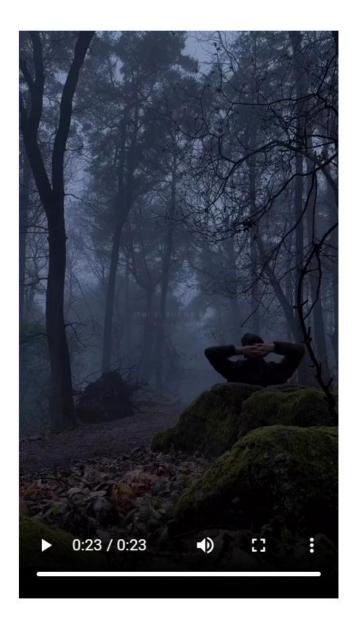
```
<html>
<body>
<audio controls autoplay>
<source src="IMG_4720.mp3" type="audio/wav"/>
</audio>
</body>
</html>
```

```
• 0:34 / 0:34
```

• :

Video Embedding

```
<html>
<body>
<video width ="288" height="512" controls autoplay>
<source src="IMG_4721.mp4" type="video/mp4"/>
</video>
</body>
</html>
```



CSS

Inline CSS

```
khtml>
<head>
<style>
    body{
        background-color: lime;
    }
    h1{
        color:maroon;
        margin-left: 50px;
    }
</style>
</head>
<body>
<h1>This is Heading</h1>
 This is paragraph
</body>
</html>
```

This is Heading

This is paragraph

Embedded CSS

```
<html>
<head>
<style media="all">
   body{
        background-color: maroon;
    }
   h1{
       color: lime;
        margin-left: 20px;
    }
</style>
</head>
<body>
   <h1>This is Heading</h1>
   This is paragraph
</body>
</html>
```

This is Heading

This is paragraph

External CSS

Saved as ".html" in Extension

```
<html>
<head>
<link rel="stylesheet" type="text/css" href="css.css">
</head>
<body>
<h1>This is Heading</h1>
This is paragraph
</body>
</html>
```

Saved as ".css" in Extension

```
<html>
<head>
<link rel="stylesheet" type="text/css" href="css.css">
</head>
<body>
<h1>This is Heading</h1>
This is paragraph
</body>
</html>
```

Result

This is Heading

This is paragraph

Navigation Bar

Html File

```
<html>
<head><title>Simple Navbar</title>
k rel="stylesheet" href="NAVI.css">
</head>
<body>
<div class="navbar">
   <a href="#home">Home</a>
    <a href="#about">About</a>
    <a href="#services">Services</a>
    <a href="#contact">Contact</a>
</div>
<section id="home">
    <h1>Home</h1>
    Welcome to the homepage!
</section>
<section id="about">
    <h1>About Us</h1>
    Learn more about our company.
</section>
<section id="services">
   <h1>Services</h1>
    Discover the services we offer.
</section>
<section id="contact">
   <h1>Contact</h1>
    Get in touch with us.
</section>
</body>
</html>
```

CSS FILE

```
body {
    line-height: 1.6;
    padding: 20px;
.navbar {
    background-color: #007bff;
    padding: 10px;
    text-align: center;
.navbar a {
    color: __white;
    padding: 10px;
}
.navbar a:hover {
    background-color: #0056b3;
section {
   margin: 20px 0;
    padding: 20px;
    background: #f4f4f4;
    border: 2px solid #ccc;
    border-radius: 5px;
```

Home About Services Contact

Home

Welcome to the homepage!

About Us

Learn more about our company.

Services

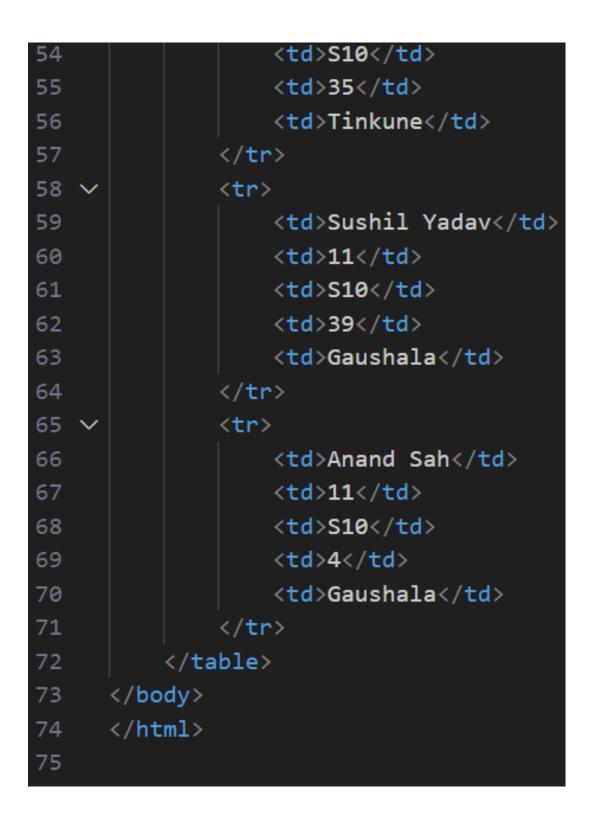
Discover the services we offer.

Contact

Get in touch with us.

Collage Record

```
<html>
1
    <head>
        <title>My College</title>
        <style>
           body {
               font-family: Arial, sans-serif;
               background-color: #f9f9f9;
               margin: 20px;
               padding: 20px;
           h1 {
               color: 
red;
            }
            img {
               width: 100%;
               max-width: 800px;
               height: auto;
               margin: 20px 0;
            }
            table {
               width: 100%;
               border-collapse: collapse;
               margin-top: 20px;
            }
            table, th, td {
               border: 1px solid #bdc3c7;
               padding: 10px;
               text-align: left;
           }
           th {
               background-color: #34495e;
               color: white;
           }
        </style>
    </head>
    <body>
        <h1>Welcome to My College</h1>
        This is a brief introduction to our college.
            We are dedicated to providing high-quality education
             and fostering a dynamic learning environment for students.
        <img src="IMG512.jpg" alt="College Building">
        <h2>Student Records</h2>
           >
               Name
               Class
               Section
               Roll Number
               Address
           \langle /tr \rangle
               Shiva Sah
               11
```



Welcome to My College

This is a brief introduction to our college. We are dedicated to providing high-quality education and fostering a dynamic learning environment for students.



Student Records

| Name | Class | Section | Roll Number | Address |
|--------------|-------|---------|-------------|----------|
| Shiva Sah | 11 | S10 | 35 | Tinkune |
| Sushil Yadav | 11 | S10 | 39 | Gaushala |
| Anand Sah | 11 | S10 | 4 | Gaushala |

Conclusion: - In this chapter, we explored the basics of HTML(Hypertext Markup lang alage, which is essential for createing web pages. Life learned how HEML uses various tags to structure content, including heading 1 paragraphs, images, lines, and lists. Additionally, we covered key elements like attributes, forms, table and multimedia Along with HMAL, we also briefly touched upon (SS (coscading Stylesheets) to enhance the appearance of web pages by styling elements such as fouts, colors, and layout mosting both neral and est is fundamenter for building Interactive and visually appealing website.