**WEB TECHNOLOGIES**

**LAB MANUAL**

Submitted in partial fulfilment of the requirements for the award of the degree of

**BACHELOR OF TECHNOLOGY**

(Information Technology)



|  |  |
| --- | --- |
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| **2** | Demonstrate the use of Links, Lists and Tables in HTML. You should be able to link separate pages and create named links within a document, using them to build a “table of contents”. |
| **3** | Create simple Forms in HTML and demonstrate the use of various form elements like input box, text area, submit and radio buttons etc. |
| **4** | Demonstrate the use of cascading style sheets (CSS) (inline, internal and external) to specify various aspects of style, such as colors and text fonts and sizes, in HTML document. |
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Practical 1-

Create a simple web page by writing HTML using a simple text editor, Notepad. Demonstrate the following components of the web page: Page titles and Headings Paragraphs and Inline images

HTML:

<html>

<head>

    <title>Document</title>

</head>

<style>

    h1{

        color: red;

        background-color: purple;

        text-align: center;

    }

    p{

        font-family:'Times New Roman';

        font-size: larger;

        color:seagreen;

    }

</style>

<body>

    <h1>Farm Bill 2020</h1>

    <img src="https://resize.indiatvnews.com/en/resize/newbucket/715\_-/2021/04/farmers-protest-pti-22-1617454042.jpg" alt="farmers protest" height="350px" width="500px">

    <p>The government has described these <mark>Farm bills</mark> as giving new freedom to farmers after independence.

         According to the <b>government</b>, the farmers will be empowered by these bills and will be able to enter into agreements with <del>multinational companies, big traders</del>, etc.

        According to the new <i>Farm bill</i> 2020, the farmer can sell his crop in any market at the <em>desired price</em>. With this, farmers will get better options to sell their produce.

        Earlier middlemen used to acquire a major part of the farmers’ income, but now farmers will get freedom from them.</p>

        <p>The new system will <ins>eliminate the compulsion</ins> of the <strong>farmers</strong> to go to the mandi and sell their products to the licensed traders and now the farmer will be the owner of his will.

            That is, the producers will get more freedom by preparing the private market, whether the producers go to the <sup>APMC</sup> market or the private market. This will boost the thinking of <mark>“one nation one agricultural market"</mark>.

            By bringing contract farming under <sub>legal</sub> purview, producers will be able to get a ready market for their product and entrepreneurs will get ready raw material. Because in contract farming it is decided long before that what to produce and what will be the price. In such a situation, producers will not have to bear the risk of market fluctuations.</p>

</body>

</html>

Result-

Graphical user interface, application, Word

Description automatically generated

Practical 2-

Demonstrate the use of Links, Lists and Tables in HTML. You should be able to link separate pages and create named links within a document, using them to build a “table of contents”.

HTML:

<html>

<head>

    <title>Practical 2</title>

    <style>

        table,tr,td,th{

            border: 2px solid black;

            border-collapse: collapse;

            padding: 10px;

            background-color: darkgrey;

        }

        h2{

            color: #ac2f2f;

        }

    </style>

</head>

<body>

    <a href="file:///C:/Users/sharm/Desktop/HTML/collge.html" target="\_blank"> Famers Protest</a>

    <h2>#3 Famers Bills:--</h2>

    <ul>

        <li>Farmers' Produce Trade and Commerce (Promotion and Facilitation) Bill</li>

        <li>Farmers (Empowerment and Protection) Agreement on Price Assurance and Farm Services Bill</li>

        <li>Essential Commodities (Amendment) Bill</li>

    </ul>

    <h2>#248 farmers have DIED during protest </h2>

    <ol type="i">

        <li>202 from PUNJAB</li>

        <li>36 from HARYANA</li>

        <li>6 from UTTAR PRADESH</li>

        <li>one each from Madhya Pradesh, Maharashtra, Tamil Nadu and Uttrakhand</li>

    </ol>

    <h2>Names Of Farmers Died During Protest</h2>

    <table>

        <thead>

            <tr>

                <th>Name</th>

                <th>Age</th>

                <th>City</th>

            </tr>

        </thead>

        <tbody>

            <tr>

                <td>Kahan Singh</td>

                <td>65</td>

                <td>Barnala</td>

            </tr>

            <tr>

                <td>Gurmail Kaur</td>

                <td>70</td>

                <td>Bathinda</td>

            </tr>

            <tr>

                <td>Dhanna Sigh</td>

                <td>45</td>

                <td>Mansa</td>

            </tr>

            <tr>

                <td>Gajjan Singh</td>

                <td>55</td>

                <td>Ludhiana</td>

            </tr>

            <td>Janak Raj</td>

            <td>55</td>

            <td>Barnala</td>

        </tbody>

    </table>

</body>

</html>

**RESULT-**

Graphical user interface, text, application

Description automatically generated

Practical 3-

Create simple Forms in HTML and demonstrate the use of various form elements like input box, text area, submit and radio buttons etc.

HTML:

<!DOCTYPE html>

<html>

    <head>

        <title>Payment form</title>

        <link rel="stylesheet" href="style\_Pay.css">

    </head>

    <body>

        <div class="container">

        <form action="" method="GET">

        <h1>Payment form</h1><hr>

        <h6>Required Fields (\*)</h6>

        <h3>Personal details</h3>

        <p>Name:\* <input type="text" name="name" id="name" placeholder="Enter your name" required>

        </p>

        <fieldset>

            <legend>Gender\*</legend>

        <p> Male<input type="radio" name="gender" id="gender" value="M" required>

            Female<input type="radio" name="gender" id="gender" value="F" required> </p>

        </fieldset>

        <p>Email:\* <input type="email" name="email" id="email" placeholder="Only gmail id" required> </p>

        <p>Address:

            <textarea name="address" id="address required" cols="50" rows="2" placeholder="Enter your home address"></textarea>

        </p>

        <p>Pincode:\* <input type="number" name="pincode" id="pincode"  required></p>

        <hr><br><hr>

        <h2>Card details</h2>

        <p>Card Type\*

            <select name="card\_type" id="card\_type" required>

                <option value="">--Select card type-- </option>

                <option value="mastercard">Master Card</option>

                <option value="rupay">Rupay</option>

                <option value="visa">Visa</option>

            </select>

        </p>

        <p>Card number:\* <input type="number" name="card\_number" id="card\_number" placeholder="16 Digit card number" required></p>

        <p>Expiry Date:\* <input type="date" name="exp\_date" id="exp\_date" required></p>

        <p>CVV:\* <input type="password" name="cvv" id="cvv" placeholder="See backside" required></p>

        <input type="submit" value="Pay Now">

        </form>

        </div>

    </body>

</html>

**CSS FILE-**

\*{

  box-sizing: border-box;

}

body{

    font-family:-apple-system, BlinkMacSystemFont, 'Segoe UI', Roboto, Oxygen, Ubuntu, Cantarell, 'Open Sans', 'Helvetica Neue', sans-serif;

    margin: 15px 30px;

    font-size: 17px;

    padding: 7px;

}

.container{

    background-color: rgb(236, 240, 190);

    padding: 5px 20px 15px 20px;

    border: 1px solid #9e9883;

    border-radius: 6px;

}

input[type="text"],

input[type="email"],

input[type="password"],

input[type="number"],

input[type="date"],

select,

textarea{

    width: 100%;

    padding: 10px;

    border: 1px solid darkgray;

    border-radius: 5px;

    margin: 6px;

}

fieldset{

    background-color: white;

    border: 1px solid #9c9a92;

    border-radius: 5px;

}

h1{

    text-align: center;

}

h6{

    text-align:end;

}

input[type="submit"]{

    background-color: tan;

    border: 0;

    padding: 10px;

    width: 100%;

    border-radius: 5px;

    cursor: pointer;

}

input[type="submit"]:hover{

    background-color: rgb(252, 169, 169);

}

**RESULT-**

A picture containing background pattern

Description automatically generatedBackground pattern

Description automatically generated

Practical 4-

Demonstrate the use of cascading style sheets (CSS) (inline, internal and external) to specify various aspects of style, such as colors and text fonts and sizes, in HTML document.

HTML:

<!DOCTYPE html>

<html>

    <head>

        <title>CSS</title>

        <link rel="stylesheet" href="4th.css">

        <style>

            .internal{

                color: orangered;

                background-color: turquoise;

                font-size: 60px;

            }

            #inter{

                text-align: left;

                font-family: arial;

                font-size: 40px;

                color: #0cbac7;

            }

        </style>

    </head>

    <body>

        <h1 style="color: rgb(228, 68, 161); font-size:70px; text-align:center;background-color: rgb(2, 71, 39);" >Use of Inline CSS</h1>

        <p style="font-size: 25px; color: slategrey; text-align: right;font-family: fantasy;">

            An inline style may be used to apply a unique style for a single element.

            To use inline styles, add the style attribute to the relevant element. The style attribute can contain any CSS property.

        </p>

        <h1 class="internal">Internal CSS</h1>

        <p id="inter">

            An internal style sheet may be used if one single HTML page has a unique style.

            The internal style is defined inside the <'style> element, inside the head section.

        </p>

        <h1 class="external">External CSS</h1>

        <p id="exter">With an external style sheet, you can change the look of an entire website by changing just one file!

            Each HTML page must include a reference to the external style sheet file inside the <'link> element, inside the head section.

        </p>

    </body>

</html>

**CSS FILE-**

\*{

    background-color:lemonchiffon;

}

.external{

    color:rgb(6, 99, 48);

    background-color: rgb(226, 148, 236);

    text-align: right;

    font-size: 100px;

    font-family: arial;

}

#exter{

    color:rgb(179, 141, 39);

    text-align:center;

    font-size: 40px;

    font-family: cursive;

}

**RESULT-**

Graphical user interface, text, application, email, website

Description automatically generated

Practical 5-

Creation of Web pages using HTML5 and CSS3.

HTML:

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>First website | HOME</title>

    <link rel="stylesheet" href="../css/stylee2.css">

    <style>

    </style>

</head>

<body>

    <header>

        <h1>First website</h1>

    </header>

    <nav>

        <a id="ab" href="#">Home</a>

        <a id="ac" href="#">New Article</a>

        <a id="ad" href="#">Any Thing More</a>

        <a id="ae" href="#">Login/Signup</a>

        <a id="af" href="#">About Me</a>

    </nav>

    <main>

        <section>

            <h2>What is HTML?</h2>

            <p class="html1">

                HTML stands for Hyper Text Markup Language.<br>

                HTML is the standard markup language for creating Web pages. <br>

                HTML describes the structure of a Web page.<br>

                HTML consists of a series of elements.<br>

                HTML elements tell the browser how to display the content.<br>

                HTML elements label pieces of content such as "this is a heading", "this is a paragraph", "this is a link", etc.<br>

            </p>

        </section>

        <section>

            <h2>What is CSS?</h2>

            <p class="css1">

                CSS stands for Cascading Style Sheets.<br>

                CSS describes how HTML elements are to be displayed on screen, paper, or in other media.<br>

                CSS saves a lot of work. It can control the layout of multiple web pages all at once.<br>

                External stylesheets are stored in CSS files.<br>

            </p>

        </section>

        <section>

            <h2>What is PHP?</h2>

            <p class="php1">

                PHP is an acronym for "PHP: Hypertext Preprocessor".<br>

                PHP is a widely-used, open source scripting language.<br>

                PHP scripts are executed on the server.<br>

                PHP is free to download and use.<br>

            </p>

        </section>

    </main>

    <footer>

        <a href="https://www.gndec.ac.in/" target="\_blank">College website</a>

        <a href="#">Privancy Policy</a>

        <a href="#">Contact Us</a>

        <a href="#">Feedback</a>

        <a href="#">&copy;2021 | Ashutosh Sharma</a>

    </footer>

</body>

</html>

**CSS-**

\*{

box-sizing: border-box;

list-style: none;

}

body {

margin: 0px;

}

header{

padding: 50px;

text-align: center;

background: rgb(17 143 158);

color: #edf1f2;

}

header h1{

    font-size: 40px;

}

nav{

background-color: #333;

overflow: hidden;

}

nav a {

display: block;

color: white;

text-decoration: none;

padding: 14px 20px;

float: left;

}

section h2{

text-align: center;

padding-top: 10px;

color: maroon;

}

.html1{

    text-align:justify;

    color: rgb(250, 19, 200);

    background-color: ivory;

    font-size: 20px;

    font-family: cursive;

}

.css1{

    text-align:justify;

    color: rgba(1, 107, 134, 0.74);

    background-color: rgb(241, 241, 215);

    font-size: 20px;

    font-family:monospace;

}

.php1{

    text-align:justify;

    color: rgb(241, 132, 43);

    background-color: rgb(211, 250, 226);

    font-size: 20px;

    font-family:Georgia, 'Times New Roman', Times, serif;

}

section:nth-child(even) {

    background-color: #ececec;

}

iframe {

padding: 0px 5px

}

h2 {

padding-bottom: 10px;

}

footer{

    overflow: hidden;

    background-color: #333;

}

footer a{

display: block;

color: white;

text-decoration: none;

padding: 14px 20px;

float: left;

}

**RESULT-**

Graphical user interface, text, application

Description automatically generatedText

Description automatically generated

Practical 6-

Demonstrate the use of Bootstrap Framework.

**HTML-**

<html>

  <head>

    <title>Practical 6</title>

    <link

      rel="stylesheet"

      href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"

      integrity="sha384-B0vP5xmATw1+K9KRQjQERJvTumQW0nPEzvF6L/Z6nronJ3oUOFUFpCjEUQouq2+l"

      crossorigin="anonymous"

    />

  </head>

  <body style="padding: 50px">

    <nav class="navbar navbar-expand-lg navbar-dark bg-dark">

      <a class="navbar-brand" href="#">Navbar</a>

      <button

        class="navbar-toggler"

        type="button"

        data-toggle="collapse"

        data-target="#navbarTogglerDemo02"

        aria-controls="navbarTogglerDemo02"

        aria-expanded="false"

        aria-label="Toggle navigation"

      >

        <span class="navbar-toggler-icon"></span>

      </button>

      <div class="collapse navbar-collapse" id="navbarTogglerDemo02">

        <ul class="navbar-nav mr-auto mt-2 mt-lg-0">

          <li class="nav-item active">

            <a class="nav-link" href="#"

              >Home <span class="sr-only">(current)</span></a

            >

          </li>

          <li class="nav-item">

            <a class="nav-link" href="#">Link</a>

          </li>

          <li class="nav-item">

            <a

              class="nav-link disabled"

              href="#"

              tabindex="-1"

              aria-disabled="true"

              >Disabled</a

            >

          </li>

        </ul>

        <form class="form-inline my-2 my-lg-0">

          <input

            class="form-control mr-sm-2"

            type="search"

            placeholder="Search"

          />

          <button class="btn btn-outline-success my-2 my-sm-0" type="submit">

            Search

          </button>

        </form>

      </div>

    </nav>

    <br />

    <div class="alert alert-success" role="alert">

      <h4 class="alert-heading">Hello!</h4>

      <p>

        Please fill this form.

    </p>

      <hr />

      <p class="mb-0">

        You have to fill the required spaces.

      </p>

    </div>

    <br />

    <form class="needs-validation" novalidate style="margin: 0 50px">

      <div class="form-row">

        <div class="col-md-6 mb-3">

          <label for="validationTooltip01">First name</label>

          <input

            type="text"

            class="form-control"

            id="validationTooltip01"

            placeholder="Ashutosh"

            required

          />

          <div class="valid-tooltip">Looks good!</div>

        </div>

        <div class="col-md-6 mb-3">

          <label for="validationTooltip02">Last name</label>

          <input

            type="text"

            class="form-control"

            id="validationTooltip02"

            placeholder="Sharma"

            required

          />

          <div class="valid-tooltip">Looks good!</div>

        </div>

      </div>

      <div class="form-row">

        <div class="col-md-6 mb-3">

          <label for="validationTooltip03">City</label>

          <input

            type="text"

            class="form-control"

            id="validationTooltip03"

            required

          />

          <div class="invalid-tooltip">Please provide a valid city.</div>

        </div>

        <div class="col-md-3 mb-3">

          <label for="validationTooltip04">State</label>

          <select class="custom-select" id="validationTooltip04" required>

            <option selected disabled value="">Choose...</option>

            <option>...</option>

          </select>

          <div class="invalid-tooltip">Please select a valid state.</div>

        </div>

        <div class="col-md-3 mb-3">

          <label for="validationTooltip05">Zip</label>

          <input

            type="text"

            class="form-control"

            id="validationTooltip05"

            placeholder="1905311"

            required

          />

          <div class="invalid-tooltip">Please provide a valid zip.</div>

        </div>

      </div>

      <button class="btn btn-primary" type="submit">Submit form</button>

    </form>

  </body>

</html>

**RESULT-**

Graphical user interface, application

Description automatically generated

Practical 7-

Creating web pages using PHP.

HTML:

<!DOCTYPE html>

<html>

  <head>

    <meta charset="UTF-8" />

    <meta http-equiv="X-UA-Compatible" content="IE=edge" />

    <meta name="viewport" content="width=device-width, initial-scale=1.0" />

    <title>Practical 7</title>

    <link rel="stylesheet" href="Practical-7.css" />

  </head>

  <body>

    <div class="contact-title">

      <h1>Welcome! Welcome! Welcome!</h1>

      <h2>Write your query.</h2>

    </div>

    <div class="contact-form">

      <form action="Practical-7.php" method="POST" id="contact-form">

        <input

          type="text"

          name="name"

          class="form-control"

          placeholder="Your Name"

          required

        />

        <br />

        <input

          type="email"

          name="email"

          class="form-control"

          placeholder="Your Email"

          required

        />

        <br />

        <textarea

          name="message"

          class="form-control"

          placeholder="Message"

          rows="4"

          required

        ></textarea>

        <br />

        <input type="submit" class="form-control submit" value="Send message" />

      </form>

    </div>

  </body>

</html>

**CSS-**

body {

    margin: 0;

    padding: 0;

    text-align: center;

    background: rgb(34, 36, 0);

    background: linear-gradient(

      215deg,

      rgb(3, 223, 168) 20%,

      rgb(66, 202, 198) 51%,

      rgb(14, 181, 247)

    );

    background-repeat: no-repeat;

    height: 100%;

    background-attachment: fixed;

    background-position: center;

  }

  .contact-title {

    margin-top: 100px;

    color: #fff;

    text-transform: uppercase;

    transition: all 4s ease-in-out;

  }

  .contact-title h1 {

    font-size: 32px;

    line-height: 10px;

  }

  .contact-title h2 {

    font-size: 16px;

  }

  form {

    margin-top: 50px;

    transition: all 4s ease-in-out;

  }

  .form-control {

    width: 600px;

    background: transparent;

    border: none;

    outline: none;

    border-bottom: 1px solid #333;

    color: #fff;

    font-size: 18px;

    margin-bottom: 16px;

  }

  input {

    height: 45px;

  }

  form .submit {

    background: #ff5722;

    border-color: transparent;

    color: #fff;

    font-size: 20px;

    font-weight: bold;

    letter-spacing: 2px;

    height: 50px;

    margin-top: 20px;

  }

  form .submit:hover {

    background-color: #f44;

    cursor: pointer;

  }

**PHP-**

<?php

    $name=$\_POST['name'];

    $visitor\_email=$\_POST['email'];

    $message=$\_POST['message'];

    $email\_from='ashutosh1921015@gndec.ac.in';

    $email\_subject="New Form Submission";

    $email\_body="User Name: $name.\n"."User Email: $visitor\_email.\n"."User Message: $message.\n";

    $to="sharma.ashutosh133@gmail.com";

    $headers="From: $email\_from \r\n";

    $headers .="Reply-To: $visitor\_email \r\n";

    mail($to,$email\_subject,$email\_body,$headers);

    header("Location: Practical-7.html");

?>

**RESULT-**

Website

Description automatically generated with medium confidence