



WEB TECHNOLOGIES

LAB MANUAL

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Section : B1

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Practical 1.) Create a simple web pages by writing HTML using a simple text editor, notepad. Demonstrate the following components of the web page : page title and headings paragraph and inline images.

Solution : <!DOCTYPE html>

<html>

<head>

<title>First Practical</title>

</style>

<body style="background-color: #050504">

<h1 style="color: #ffffff;text-align: center; font-size: 50px; font-family: Helvetica;">Indian farmers' protest</h1>

<p style="color: #ffffff;">The 2020-2021 Indian farmers' protest is an ongoing protest against three farm acts which were passed by the Parliament of India in September 2020.

Farmer unions and their representatives have demanded that the laws be repealed and have stated that they will not accept a compromise . Farmer leaders have welcomed the Supreme Court of India stay order on the implementation of the farm laws but rejected the committee appointed by the Supreme Court. Farmer leaders have also rejected a government proposal, dated 21 January 2021, of suspending the laws for 18 months. Eleven rounds of talks have taken place between the central government and farmers represented by the farm unions between 14 October 2020 and 22 January 2021; all were inconclusive.On 3 February, farmer leaders warned of escalating the protest to overthrowing the government if the farm laws were not repealed. The stay order on the implementation of the farm laws remains in effect, and the Supreme Court appointed committee continues with its tasks related to the farm laws. Six state governments (Kerala, Punjab, Chhattisgarh, Rajasthan, Delhi and West Bengal) have passed resolutions against the farms acts,and three states (Punjab, Chhattisgarh and Rajasthan) have tabled counter legislation in their respective state assemblies.[22] None of the counter legislation passed the respective state

governors.

[Click Here for more](#)

OUTPUT :



Practical 2.) Demonstrate the use of links, lints, 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”.

Solution : <!DOCTYPE html>

```
<html>
```

```
<head>
```

```
    <style> table {
    font-family: arial;
    border-collapse: collapse;
    width: 100%;
}
```

```
td, th {
    border: 1px solid #020202;
    text-align: left;
    padding: 10px;
}
```

```
</style>
```

```
</head>
```

```
<body style="background-color: White;">
```

```
    <table>
```

```
        <tr>
```

```
            <th>Park</th>
```

```
            <th>Location</th>
```

```
            <th>Established</th>
```

```
        </tr>
```

```
        <tr>
```

```
            <th> Jaldapara National Park</th>
```

```
<th>Jaldapara, Uttar Madarihat, West Bengal </th>
```

```
<th>1941
```

```
 </th>
```

```
    </tr>
```

```
    <tr>
```

```
        <th>Jim Corbett National Park </th>
```

```
        <th> Uttarakhand</th>
```




```
        <th>in 1936 as Hailey National Park
```

```
         </th>
</tr>
<tr>
<th>Kalesar National Park</th>
<th>Haryana</th>
<th>8th December 2003
</th>
</tr>
</table>

</body>
</html>

```

Output :

Park	Location	Established
Jaldapara National Park	Jaldapara, Uttar Madarihat, West Bengal	1941 
Jim Corbett National Park	Uttarakhand	in 1936 as Hailey National Park 
Kalesar National Park	Haryana	8th December 2003 

Practical 3.) Create a simple forms in HTML and demonstrate the use of various form elements like input box, textarea, submit and radio buttons etc.

Solution :

```

<!DOCTYPE html>
<html>
  <head>
    <title>
      PRACTICAL NO : 3
    </title>
    <style>
      body{
        background-color: rgb(44, 40, 40);
        color: whitesmoke;
      }
      h1{

```

```

        background-color: rgb(20, 19, 19);
        color: whitesmoke;
        text-align: center;
    }
    p{
        /* background-color: rgb(19, 17, 17); */
        font-size: 140%;
        margin-left: 1%;
        margin-right: 80%;
        text-align: center;

    }
    input{
        border: 1px solid rgb(226, 222, 222);
        margin-top: 6px;
        margin-bottom: 16px;
        box-sizing: border-box;
        padding: 12px;
        border-radius: 4px;
    }
    #text1{
        width: 20%;
    }
    label{
        font-size: 130%;
    }
    #radio1{
        font-size: 110%;
        margin-left: 1%;
        margin-right: 2%;
    }
    #check1{
        font-size: 110%;
        margin-left: 1%;
        margin-right: 2%;
    }
    #check{
        margin-left: 5%;
        margin-top: 1%;
    }
    #button1{
        background-color: rgb(68, 74, 85);
        color: rgb(241, 228, 228);
        text-align: center;
        border: 2px solid whitesmoke;
        display: inline;
        font-size: 100%;
        padding: 14px 40px;
        border-radius: 12px;
    }
</style>
</head>

```

```

<body>
    <h1>SAMPLE FORM</h1>
    <br>
    <form id="form1">
        <p>Personal Information :-</p><hr>
        <label style="margin-left: 5%;">First Name : </label><input
id="text1" type="text" placeholder="First name..">
        <label style="margin-left: 19.5%;">Last Name :
</label><input id="text1" type="text" placeholder="Last name..">
        <br><label style="margin-left: 9.5%;">Age : </label><input
id ="text1" type="number" placeholder="Age..">
        <label style="margin-left: 20%;">Birth date :
</label><input id="text1" type = "date" placeholder="date">
        <br><label style="margin-left: 8%;">Gender : </label>
        <input type="radio" id="male" name="Gender"><label
for="male" id="radio1">Male</label>
        <input type="radio" id="female" name="Gender"><label
for="female" id="radio1">Female</label>
        <input type="radio" id="other" name="Gender"><label
for="other" id="radio1">Other</label>
        <label style="margin-left: 18%;">Email : </label><input
id="text1" type="email" placeholder="Ex-example@gmail.com">
        <br><label style="margin-left: 6%;">Country :
</label><input id="text1" type="text" placeholder="Country..">
        <label style="margin-left: 24%;">State : </label><input
id="text1" type="text" placeholder="State..">

        <hr><p>Academic Details :-</p><hr>
        <label style="margin-left: 5%;">School/college :
</label><input id="text1" type="text" placeholder="School/college">
        <label style="margin-left: 10%;">Board : </label>
        <input type="radio" id="centreboard" name="Board"><label
for="centreboard" id="radio1">CBSE</label>
        <input type="radio" id="stateboard" name="Board"><label
for="stateboard" id="radio1">State Board</label>
        <br><label for="stream" style="margin-left: 5%;">Stream :
</label>
        <input list="stream" name="stream" style="margin-left: 5%;"
placeholder="Stream..">
            <datalist id="stream">
                <option value="Medical"></option>
                <option value="Non-medical"></option>
                <option value="Commerce"></option>
                <option value="Arts"></option>
            </datalist>
        <label style="margin-left: 10%;">Specify Board (If state
board) : </label><input type="text" placeholder="ex : PSEB">

        <hr><p>Other Details :-</p><hr>

```

```

        <label style="margin-left: 5%;">Tick the options of your
intrest :- </label><br>
        <input type="checkbox" name="Hobbies" id="check"><label
for="Hobbies" id="check1">Reading</label>
        <input type="checkbox" name="Hobbies" id="check"><label
for="Hobbies" id="check1">Listening music</label>
        <input type="checkbox" name="Hobbies" id="check"><label
for="Hobbies" id="check1">browsing</label><br>
        <input type="checkbox" name="Hobbies" id="check"><label
for="Hobbies" id="check1">Sports</label>
        <input type="checkbox" name="Hobbies" id="check"><label
for="Hobbies" id="check1">Technology facts</label>
        <input type="checkbox" name="Hobbies" id="check"><label
for="Hobbies" id="check1">Travelling</label><br>
        <label style="margin-left: 5%;">Contact No. :
</label><input type="number" placeholder="Mobile No.">
        </form>

        <button id="button1" type="submit"
form="form1">SUBMIT</button>
    </body>
</html>

```

OUTPUT:

SAMPLE FORM

Personal Information :-

First Name :

Age :

Gender : ☒ Male ☐ Female ☐ Other

Country :

Last Name :

Birth date :

Email :

State :

Academic Details :-

School/college :

Stream :

Board : ☒ CBSE ☐ State Board

Specify Board (If state board) :

Other Details :-

Tick the options of your intrest :-

☒ Reading
☒ Sports

☒ Listening music
☒ Technology facts

☒ browsing
☒ Travelling

Contact No. :

Practical 4) Demonstrate the use of cascading style sheets(CSS) (inline, internal and external) to specify various aspects of style, such as colours and text fonts and sizes, in HTML document.

Solution :

HTML

```
<!DOCTYPE html>
<html lang="en">
  <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 4</title>
    <style>
      .internal {
        margin: 20px 50px;
        background-color: #3edbf0;
        color: #02475e;
        font-weight: 500;
        font-family: "Arial Narrow Bold", sans-serif;
        padding: 30px;
        border-radius: 20px;
      }
    </style>
    <link rel="stylesheet" href="./Practical-4.css" />
  </head>
  <body>
    <h1 style="text-align: center">Use of Cascading Style Sheets (CSS)</h1>
    <div style="text-align: center; font-size: 3em">
      Inline, Internal & External CSS
    </div>

    <div
      style="
        margin: 20px 50px;
        background-color: #ff8474;
        color: #02475e;
        font-weight: 500;
        font-family: 'Arial Narrow Bold', sans-serif;
        padding: 30px;
        border-radius: 20px;
      "
    >
      Inline CSS An inline style may be used to apply a unique style fo
r a
      single element. To use inline styles, add the style attribute to
the
      relevant element. The style attribute can contain any CSS propert
y.
    </div>

    <div class="internal">
      Internal CSS An internal style sheet may be used if one single HT
```

ML page

has a unique style. The internal style is defined inside the style element

element, inside the head section.

```
</div>
```

```
<div class="external">
```

External CSS 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.

```
</div>
```

```
</body>
```

```
</html>
```

CSS:

```
.external {  
  margin: 20px 50px;  
  background-color: #fea82f;  
  color: #02475e;  
  font-weight: 500;  
  font-family: "Arial Narrow Bold", sans-serif;  
  padding: 30px;  
  border-radius: 20px;  
}
```

Output:

Use of Cascading Style Sheets (CSS)

Inline, Internal & External CSS

Inline CSS 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.

Internal CSS 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.

External CSS 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 element, inside the head section.

Practical 5) Creation of Web pages using HTML5 and CSS3. Solution.)

HTML:

```
<!DOCTYPE html>  
<html lang="en">  
  <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 5</title>
<link rel="stylesheet" href="./Practical-5.css" />
</head>
<body>
  <header id="main-header">
    <div class="container">
      <h1>My Website</h1>
    </div>
  </header>

  <nav id="navbar">
    <div class="container">
      <ul>
        <li><a href="#">Home</a></li>
        <li><a href="#">About</a></li>
        <li><a href="#">Services</a></li>
        <li><a href="#">Contact</a></li>
      </ul>
    </div>
  </nav>

  <div class="container">
    <section id="showcase">
      <h1>
        Lorem ipsum dolor sit, amet consectetur adipisicing elit. In nesc
iunt
        quam molestias neque
      </h1>
    </section>
    <section id="main">
      <h1>Welcome</h1>
      <p>
        Lorem ipsum dolor sit amet, consectetur adipisicing elit. Repella
t
        adipisci reiciendis a distinctio nihil natus! Consequatur libero
        sapiente fugiat unde harum earum odit quod accusantium rerum nesc
iunt
        est, asperiores recusandae nemo assumenda nisi distinctio totam.
        Similique neque pumenda nobis corrupti architecto totam earum
        perspiciatis quisquam at dolor reiciendis quidem ipsum debitis! A
d
        dolorum temporibus eum itaque! In non fugit distinctio repellat
        ducimus, a debitis quos!
      </p>
    </section>

    <aside id="sidebar">
      <p>
        Lorem ipsum dolor sit amet consectetur adipisicing elit. Dicta do

```

```

lore
    necessitatibus rem quae, omnis eum libero quia excepturi, consequuntur
    magni fuga explicabo, incidunt quaerat repellendus reiciendis ad officii molestias! Asperiores animi quam libero consequuntur modi
    iure, corporis velit, et odio optio facilis quia temporibus magna m,
    porro cupiditate dolorem consequatur impedit!
    </p>
    </aside>
</div>

<footer id="main-footer">
    <p>Copyright 2021 &copy; Navot Singh Aulakh 1921070</p>
</footer>
</body>
</html>

```

CSS:

```

body {
    background-color: #f4f4f4;
    columns: #555;
    font: Arial, Helvetica, sans-serif 16px;
    line-height: 1.6em;
    margin: 0;
}

.container {
    width: 80%;
    margin: auto;
    overflow: hidden;
}

#main-header {
    background-color: coral;
    color: #fff;
}

#navbar {
    background-color: #333;
    color: #fff;
}

#navbar ul {
    padding: 0;
    list-style: none;
}

#navbar li {

```

```
    display: inline;
}

#navbar a {
    color: #fff;
    text-decoration: none;
    font: 18px;
    padding-right: 15px;
}

#showcase {
    min-height: 100px;
    margin-bottom: 30px;
    text-align: center;
    margin: auto;
    width: 70%;
}

#showcase h1 {
    color: #333;
    font-size: 40px;
    line-height: 1.2em;
    padding-top: 30px;
}

#main {
    float: left;
    width: 70%;
    padding: 0 30px;
    box-sizing: border-box;
}

#sidebar {
    float: right;
    width: 30%;
    background-color: #333;
    color: #fff;
    padding: 10px;
    box-sizing: border-box;
}

#main-footer {
    background-color: #333;
    color: #fff;
    text-align: center;
    padding: 20px;
    margin-top: 40px;
    margin-bottom: 0;
}
```

Output



Practical 6) Demonstrate the use of Bootstrap Framework.

Solution :

HTML:

```
<!DOCTYPE html>
<html lang="en">
  <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 6</title>
    <link
      rel="stylesheet"
      href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"
      integrity="sha384-
B0vP5xmATw1+K9KRQjQERjvTumQW0nPEzvF6L/Z6nronJ3oU0FUfPcJjEUQouq2+1"
      crossorigin="anonymous"
    />
  </head>
  <body style="padding: 50px">
    <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
      <a class="navbar-brand" href="#">Details</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">Well done!</h4>
    <p>
        You successfully read this important alert message. This
        example text is going to run a bit longer so that you can see how
        spacing within an alert works with this kind of content.
    </p>
    <hr />
    <p class="mb-0">
        Whenever you need to, be sure to use margin utilities to keep
things
        nice and tidy.
    </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="eg.Navjot"
        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="eg.Aulakh"
        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"
        required
      />
    </div>
  </div>

```



```
        <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>
```

OUTPUT

[Details](#) [Home](#) [Link](#) [Disabled](#)

Well done!
You successfully read this important alert message. This example text is going to run a bit longer so that you can see how spacing within an alert works with this kind of content.
Whenever you need to, be sure to use margin utilities to keep things nice and tidy.

First name	Last name	
<input type="text" value="eg.Navjot"/>	<input type="text" value="eg.Aulakh"/>	
City	State	Zip
<input type="text"/>	<input type="text" value="Choose..."/>	<input type="text"/>
<input type="button" value="Submit form"/>		

Practical 7) Creating web pages using PHP. Solution)

HTML:

```
<!DOCTYPE html>
<html lang="en">
  <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 To This Website</h1>
      <h2>We Are Happy To Help You</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,
    rgba(34, 36, 0, 1) 6%,
    rgba(9, 121, 118, 1) 51%,
    rgba(132, 0, 255, 1) 86%
  );
  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:

```

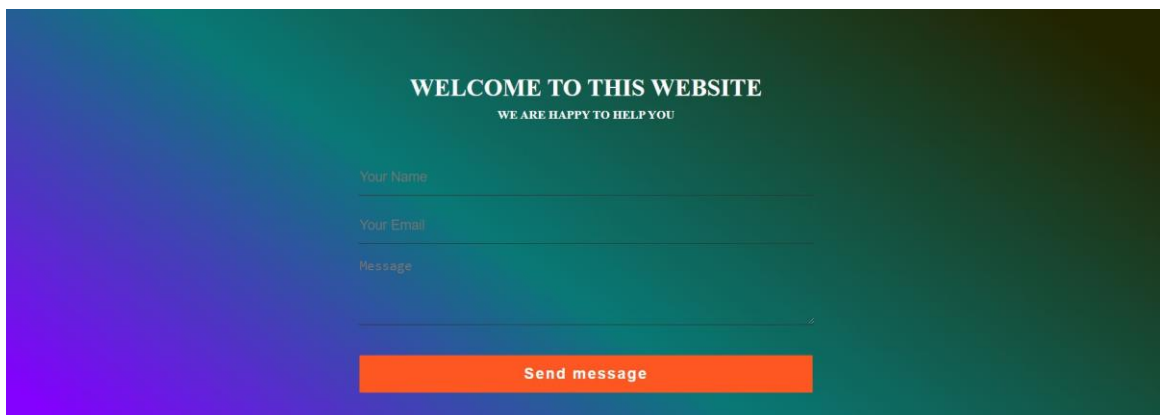
<?php
    $name=$_POST['name'];
    $visitor_email=$_POST['email'];
    $message=$_POST['message'];

    $email_from='navjotsingh9495@gmail.com';
    $email_subject="New Form Submission";
    $email_body="User Name: $name.\n"."User Email: $visitor_email.\n"."User
Message: $message.\n";
    $to="navjot1921070@gndec.ac.in";
    $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");

?>

```

OUTPUT



WELCOME TO THIS WEBSITE
WE ARE HAPPY TO HELP YOU

Your Name

Your Email

Message

Send message

