# WEB TECHNOLOGIES

#### LAB MANUAL

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

#### **BACHELOR OF TECHNOLOGY**

(Information Technology)



Submitted By: -

Ekam Preet Singh (1921028-1905327)

D2 IT-A

Submitted To: -

Hanit Kaur

**Assistant Professor** 

Department of Information Technology,

Guru Nanak Dev Engineering college

Ludhiana-141106

# **INDEX**

S NO.	Practical's
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
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.
5	Creation of Web pages using HTML5 and CSS3.
6	Demonstrate the use of Bootstrap Framework.
7	Creating web pages using PHP.

# 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:

```
<!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 1</title>
 </head>
 <body>
   <h1>Web Technology Laboratory</h1>
   <h2>Professor: HANIT KARWAL</h2>
   <h3>Guru Nanak Dev Engineering College, Ludhiana</h3>
     src="https://www.gndec.ac.in/sites/default/logo.png"
     alt="gndec-logo"
     width="1000px"
     <strong>
       Guru Nanak Dev Engineering College (GNDEC or GNE Ludhiana)
     is one of the oldest engineering institutions of the northern region
     situated at Gill Park, Ludhiana, Punjab, India. The foundation stone of
     the college was laid on
     <em>8th April 1956 by Hon'ble Dr. Rajendra Prasad, the first
     President of India. The college has been named after 1st Sikh Guru Guru
     Nanak Dev Ji.
   </body>
/html>
```

#### **IMAGE:**

#### Web Technology Laboratory

Professor : HANIT KARWAL

Guru Nanak Dev Engineering College, Ludhiana



Guru Nanak Dev Engineering College (GNDEC or GNE Ludhiana) is one of the oldest engineering institutions of the northern region situated at Gill Park, Ludhiana, Punjab, India. The foundation stone of the college was laid on 8th April 1956 by Hon'ble Dr. Rajendra Prasad, the first President of India. The college has been named after 1st Sikh Guru Guru Nanak Dev Ji.

# 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".

```
<!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 2</title>
  <style>
    table,
    th,
     border: 1px solid black;
     border-collapse: collapse;
  </style>
 </head>
 <body style="text-align: center">
  <h1>Practical 2 [Tables]</h1>
  Site Name
     Links
     Link Address
    Google
     <a href="https://www.google.com/" target="_blank">Google</a>
     https://www.google.com/
    Facebook
       <a href="https://www.facebook.com/" target="_blank">Facebook</a>
     https://www.facebook.com/
    GNDEC
     <a href="https://www.gndec.ac.in/" target="_blank">GNDEC</a>
     https://www.gndec.ac.in/
    <strong>Ordered List</strong>
```

```
GNDEC
 Ludhiana
 Punjab
<strong>Unordered List</strong>
 GNDEC
 Ludhiana
 Punjab
</body>
```

#### Practical 2 [Tables]

Site Name	Links	Link Address
Google	<u>Google</u>	https://www.google.com/
Facebook	<u>Facebook</u>	https://www.facebook.com/
GNDEC	GNDEC	https://www.gndec.ac.in/

# Ordered List 1. GNDEC 2. Ludhiana 3. Punjab

# Unordered List GNDEC Ludhiana Punjab

# 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.

```
<!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 3</title>
 </head>
 <body>
   <form action="">
     <h1 style="text-align: center;">Payment Form</h1>
     <h2>Content Information</h2>
       Name: <input type="text" name="name" placeholder="Ekam Preet SIngh" />
     <fieldset>
       <legend>Gender</legend>
         Male <input type="radio" name="gender" id="male" /> Female
         <input type="radio" name="gender" id="female" />
       </fieldset>
       Address:
       <br>
       <textarea
         name="address"
         id="address"
         cols="100"
         rows="8"
         placeholder="House No., City, State, Country"
       ></textarea>
     Email <input type="email" name="email" placeholder="abc@xyz.com" />
       Card Type:
       <select name="card_type" id="card_type">
         <option value="">--Select a card Type --</option>
         <option value="Visa">Visa</option>
         <option value="MasterCard">Master Card</option>
         <option value="RuPay">RuPay</option>
       </select>
```

```
<input type="submit" value="Submit" />
  </form>
  </body>
</html>
```

#### **Payment Form**

# Content Information Name: Ekam Preet Singh Gender Male ○ Female ○ Address: House No., City, State, Country Email abc@xyz.com Card Type: —Select a card Type — ▼ Submit

# 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.

```
<!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 for a
     single element. To use inline styles, add the style attribute to the
     relevant element. The style attribute can contain any CSS property.
   </div>
   <div class="internal">
     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
```

#### 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;
}
```

#### **IMAGE:**

**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.

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

#### 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 {
 11 Web Technologies Laboratory (LPCIT-107) Ekam Preet Singh 1921028-1905327
```

```
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;
```

#### My Website

Home About Services Contact

# Lorem ipsum dolor sit, amet consectetur adipisicing elit. In nesciunt quam molestias neque

#### Welcome

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Repellat adipisici reiciendis a distinctio nihil natus! Consequatur libero sapiente fugiat unde harum earum odit quod accusantium rerum nesciunt est, asperiores recusandae nemo assumenda nisi distinctio totam. Similique neque pumenda nobis corrupti architecto totam earum perspiciatis quisquam at dolor reiciendis quidem ipsum debitis! Ad dolorum temporibus eum itaque! In non fugit distinctio repellat ducimus, a debitis quos!

Lorem ipsum dolor sit amet consectetur adipisicing elit. Dicta dolore necessitatibus rem quae, omnis eum libero quia excepturi, consequuntur magni fuga explicabo, incidunt quaerat repellendus reiciendis ad officiis molestias! Asperiores animi quam libero consequuntur commodi iure, corporis velit, et odio optio facilis quia temporibus magnam, porro cupiditate dolorem consequatur impedit!

Copyright 2021 © Ekam Preet Singh 1921028/1905327

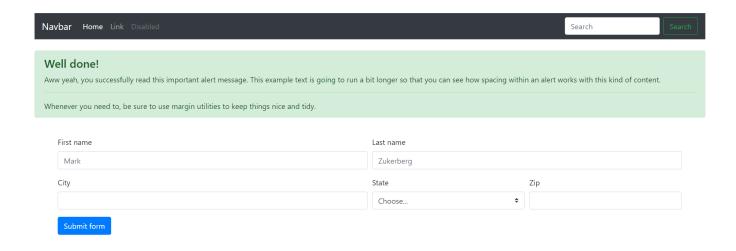
# PRACTICAL 6→

Demonstrate the use of Bootstrap Framework.

```
<!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>
   k
     rel="stylesheet"
     href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"
     integrity="sha384-B0vP5xmATw1+K9KRQjQERJvTumQW0nPEzvF6L/Z6nronJ3oU0FUFpCjEUQouq2+1"
     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">
      <a class="nav-link" href="#"</pre>
            >Home <span class="sr-only">(current)</span></a
        <a class="nav-link" href="#">Link</a>
        class="nav-link disabled"
            href="#"
            tabindex="-1"
            aria-disabled="true"
            >Disabled</a
```

```
<form class="form-inline my-2 my-lg-0">
      <input</pre>
        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>
<div class="alert alert-success" role="alert">
 <h4 class="alert-heading">Well done!</h4>
   Aww yeah, 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.
 </div>
<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</pre>
       type="text"
        class="form-control"
       id="validationTooltip01"
       placeholder="Mark"
        required
      <div class="valid-tooltip">Looks good!</div>
   </div>
   <div class="col-md-6 mb-3">
     <label for="validationTooltip02">Last name</label>
     <input</pre>
       type="text"
        class="form-control"
       id="validationTooltip02"
       placeholder="Zukerberg"
        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>
           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</pre>
           type="text"
           class="form-control"
           id="validationTooltip05"
           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>
```



# PRACTICAL 7→

Creating web pages using PHP.

```
<!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</pre>
          type="text"
          name="name"
          class="form-control"
          placeholder="Your Name"
          required
        <input</pre>
          type="email"
          name="email"
          class="form-control"
          placeholder="Your Email"
          required
        <textarea
          name="message"
          class="form-control"
          placeholder="Message"
          rows="4"
          required
        ></textarea>
        <input type="submit" class="form-control submit" value="Send message" />
    </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:

#### **IMAGE:**

