

# **GURU NANAK DEV ENGINEERING COLLEGE , LUDHIANA**

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**WEB TECHNOLOGIES LABORATORY**

**FOURTH SEMESTER**

**Batch:2019-2023**



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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.**

**Code:**

```
<!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>Guru Nanak Dev Engineering College</h1>
  <h3>Ludhiana - 141006</h3>

  

  <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Nisi autem
  accusantium incidunt cum eius nam saepe aliquid explicabo voluptatem ad
  earum est neque consequatur, quasi perspiciatis nihil magni, ipsa illo!</p>
  <strong>Lorem ipsum dolor sit amet consectetur adipisicing elit. Quos,
  voluptatibus!</strong>
</body>
</html>
```

**Output:**

## Guru Nanak Dev Engineering College

Ludhiana - 141006



Lorem ipsum dolor sit amet consectetur adipisicing elit. Nisi autem accusantium incidunt cum eius nam saepe aliquid explicabo voluptatem ad earum est neque consequatur, quasi perspiciatis nihil magni, ipsa illo!

Lorem ipsum dolor sit amet consectetur adipisicing elit. Quos, voluptatibus!

**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”.**

**Code:**

```
<!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>
    h1 {
      text-align: center;
    }
    table {
      width: 50%;
      margin-left: auto;
      margin-right: auto;
    }
    table, th, td {
      border: 1px solid black;
      border-collapse: collapse;
    }
  </style>
</head>
<body>
  <h1>Tables</h1>
  <br>
  <table>
    <tr>
      <th>Company</th>
      <th>Contact</th>
      <th>Country</th>
    </tr>
  </table>
```

```

        <th>Country</th>
    </tr>
    <tr>
        <td>Alfreds Futterkiste</td>
        <td>Maria Anders</td>
        <td>Germany</td>
    </tr>
    <tr>
        <td>Centro comercial Moctezuma</td>
        <td>Francisco Chang</td>
        <td>Mexico</td>
    </tr>
    <tr>
        <td>Ernst Handel</td>
        <td>Roland Mendel</td>
        <td>Austria</td>
    </tr>
</table>
<ol>
    <li>Company</li>
    <li>Contact</li>
    <li>Country</li>
</ol>
<ul>
    <li>Company</li>
    <li>Contact</li>
    <li>Country</li>
</ul>
</body>
</html>

```

Output:

## Tables

| Company                    | Contact         | Country |
|----------------------------|-----------------|---------|
| Alfreds Futterkiste        | Maria Anders    | Germany |
| Centro comercial Moctezuma | Francisco Chang | Mexico  |
| Ernst Handel               | Roland Mendel   | Austria |

1. Company  
2. Contact  
3. Country

- Company
- Contact
- Country

## 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.

Code:

```
<!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>
    <div>
      <h2>Information</h2>
      <p>Email:
      <input type="email" name="email" id="email" placeholder="Email"> </p>
      <p>Username: <input type="text" name="username" id="username" placeholder="Username"></p>
      <p>Gender:
        <select name="gender" id="gender">
          <option value="">Select Gender</option>
          <option value="Female">Female</option>
          <option value="Male">Male</option>
        </select>
      </p>
      <p>
        Address:
        <br>
        <textarea name="address" id="address" cols="30" rows="10"></textarea>
      </p>
    </div>
    <br>
    <button type="submit">Submit</button>
  </form>
</body>
</html>
```

Output:

### Information

Email:

Username:

Gender:

Address:

**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.**

**Code:**

```
<!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">
  <link rel="stylesheet" href="index.css">
  <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>
</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 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>
```

## External 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.

Code:

```
<!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">
  <link rel="stylesheet" href="Practical5.css">
  <title>Practical 5</title>
</head>
<body>
  <main class="container">

    <!-- Left Column / Headphones Image -->
    <div class="left-column">
      
      <!-- 
      
    </div>

    <!-- Right Column -->
    <div class="right-column">

      <!-- Product Description -->
      <div class="product-description">
        <span>Headphones</span>
        <h3>Beats EP</h3>
        <p>The preferred choice of a vast range of acclaimed DJs. Punchy, bass-focused sound and high isolation. Sturdy headband and on-ear cushions suitable for live performances</p>
      </div>

      <!-- Product Configuration -->
      <div class="product-configuration">
        <!-- Cable Configuration -->
        <div class="cable-config">
          <span>Cable configuration</span>

          <div class="cable-choose">
            <button>Straight</button>
            <button>Coiled</button>
            <button>Long-coiled</button>
          </div>

          <a href="#">How to configure your headphones</a>
        </div>
      </div>

      <div class="product-price">
        <span>148$</span>
        <a href="#" class="cart-btn">Add to cart</a>
      </div>
    </div>
  </main>
</body>
</html>
```

## CSS:

```
html, body {
  height: 100%;
  width: 100%;
  margin: 0;
  font-family: 'Roboto', sans-serif;
}
.container {
  max-width: 1200px;
  margin: 0 auto;
  padding: 15px;
  display: flex;
}
.left-column {
  width: 65%;
  position: relative;
}
.right-column {
  width: 35%;
  margin-top: 60px;
}
.left-column img {
  width: 100%;
  position: absolute;
  left: 0;
  top: 0;
  transition: all 0.3s ease;
}
.left-column img.active {
  opacity: 1;
}
.product-description {
  border-bottom: 1px solid #E1E8EE;
  margin-bottom: 20px;
}
.product-description span {
  font-size: 12px;
  color: #358ED7;
  letter-spacing: 1px;
  text-transform: uppercase;
  text-decoration: none;
}
.product-description h1 {
  font-weight: 300;
  font-size: 52px;
  color: #43484D;
  letter-spacing: -2px;
}
.product-description p {
  font-size: 16px;
  font-weight: 300;
  color: #86939E;
  line-height: 24px;
}
```

```

.cable-choose button {
  border: 2px solid #E1E8EE;
  border-radius: 6px;
  padding: 13px 20px;
  font-size: 14px;
  color: #5F6977;
  background-color: #fff;
  cursor: pointer;
  transition: all .5s;
}
.cable-choose button:hover,
.cable-choose button:active,
.cable-choose button:focus {
  border: 2px solid #86939E;
  outline: none;
}
.cable-config {
  border-bottom: 1px solid #E1E8EE;
  margin-bottom: 20px;
}
.cable-config a {
  color: #358ED7;
  text-decoration: none;
  font-size: 12px;
  position: relative;
  margin: 10px 0;
  display: inline-block;
}
.product-price {
  display: flex;
  align-items: center;
}
.product-price span {
  font-size: 26px;
  font-weight: 300;
  color: #43474D;
  margin-right: 20px;
}
.cart-btn {
  display: inline-block;
  background-color: #70C855;
  border-radius: 6px;
  font-size: 16px;
  color: #FFFFFF;
  text-decoration: none;
  padding: 12px 30px;
  transition: all .5s;
}
.cart-btn:hover {
  background-color: #64af3d;
}

```

Output:



## Practical 6 - Demonstrate the use of Bootstrap Framework.

Code:

```
<!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">
  <link
    rel="stylesheet"
    href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"
    integrity="sha384-B0vP5xmATw1+K9KRQjQERjvTumQW0nPEzvF6L/Z6nronJ3oUOFUfPcJEUQouq2+1"
    crossorigin="anonymous"
  />

  <title>Practical 6</title>
</head>
<body>
  <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
    <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbar">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbar">
      <div class="navbar-nav">
        <a href="#" class="nav-item nav-link" id="login">Login</a>
        <a href="#" class="nav-item nav-link" id="signup">Sign Up</a>
        <a href="#" class="nav-item nav-link" id="logout">Logout</a>
        <a href="#" class="nav-item nav-link" id="home">Home</a>
      </div>
    </div>
  </nav>
  <form method="POST">
    <h3 align="center">Sign Up</h3>
    <div class="form-group">
      <label for="email">Email</label>
      <input type="email" class="form-control" name="email" id="email" placeholder="Email">

      <label for="username">Username</label>
      <input type="text" class="form-control" name="username" id="username" placeholder="Username">
      <label for="password1">Password</label>
      <input type="password" class="form-control" name="password1" id="password1" placeholder="Password">
      <label for="password2">Confirm Password</label>
      <input type="password" class="form-control" name="password2" id="password2" placeholder="Password">
    </div>
    <br>
    <button type="submit" class="btn btn-primary">Submit</button>
  </form>
</body>
</html>
```

## Output:

[Login](#) [Sign Up](#) [Logout](#) [Home](#)

Sign Up

Email

Email

Username

Username

Password

Password

Confirm Password

Password

Submit

## Practical 7 - Creating web pages using PHP.

Code:

```
<!DOCTYPE HTML>
<html>
<head>
</head>
<body>

<?php
$name = "";
$email = $message = "";

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $email = test_input($_POST["email"]);
    $name = test_input($_POST["name"]);
    $message = test_input($_POST["message"]);
}

function test_input($data) {
    $data = trim($data);
    $data = stripslashes($data);
    $data = htmlspecialchars($data);
    return $data;
}
?>

<form method="POST" action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]);?>">
    <h3 align="center">Sign Up</h3>
    <div class="form-group">
        <label for="email">Email</label>
        <input type="email" class="form-control" name="email" id="email" placeholder="Your Email">
        <label for="name">Name</label>
        <input type="text" class="form-control" name="name" id="name" placeholder="Your name">
        <label for="message">Message</label>
        <input type="text" class="form-control" name="message" id="message" placeholder="Type Message">
    </div>
    <br>
    <button type="submit" class="btn btn-primary">Submit</button>
</form>

<?php
echo "<h2>Your Input:</h2>";
echo $name;
echo "<br>";
echo $email;
echo "<br>";
echo $message;
?>
</body>
</html>
```

## Output:

Sign Up

Email

Your Email

Name

Your name

Message

Type Message

Submit

## Your Input:

Shaun  
shaun@gmail.com  
shaun the sheep