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Practical No: 2

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Aim: Implementation of CSS

THEORY:

1. What is CSS?

• Styles HTML elements

• Controls layout, colors, fonts

• Makes websites responsive

2. Three Ways to Apply CSS

A. Inline CSS

→ Added directly to HTML tags

→ Highest priority

→ Example: Red

text

Pros:

√ Quick to apply

✓ Overrides other styles

Cons:

X Hard to maintain

X Not reusable

B. Internal CSS

→ Placed in <style> tag in <head>

→ Applies to single page

→ Example:

<style> p { color: blue; } </style>

Pros:

√ Better than inline

√ Good for small projects

Cons:

X Not for multiple pages

C. External CSS

→ Separate .css file

→ Linked with < link > tag

→ Best for large sites

→ Example:

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

Pros:

- √ Easy maintenance
- √ Faster loading
- √ Reusable

Cons:

X Extra file needed

3. Which One Wins?

Priority Order:

CODE:

index.html

<!DOCTYPE html>

<html lang="en"> <head> <meta charset="UTF-8" /> <meta name="viewport" content="width=devicewidth, initial-scale=1.0" /> <title>Login Form</title> link href="https:// cdn.jsdelivr.net/npm/boots trap@5.3.3/dist/css/bootst rap.min.css" rel="styleshee **+**" /> <style> :root { --dark-bg: #212121; --darkerbg: #262626; --card-bg: #333333; --textcolor: #ccc;

- 1. Inline CSS (strongest)
- 2. Internal CSS
- 3. External CSS (weakest)

Best Practices

- Use External CSS for big projects
- Use Inline only for quick fixes
- Internal for testing/small pages

```
color:
                 --primary-
                                   var(--primary-color)
color: #ccc:
                                   !important;
                 --hover-
color: #555555;
                                                .navbar-
                                   toggler {
            body {
                                                    border-
                 min-
                                   color: rgba(255, 255, 255,
height: 100vh;
                                   0.1);
                display:
flex:
                                                .navbar-
                flex-
                                   toggler-icon {
direction: column;
                                                    background
                background
                                   -image:
-color: var(--dark-bg);
                                   url("data:image/svg+xml,%3
                 color:
                                   csvg
var(--text-color);
                                   xmlns='http://www.w3.org/2
                                   000/svg' viewBox='0 0 30
                                   30'%3e%3cpath
             .navbar {
                                   stroke='rgba%28255, 255,
                                   255, 0.75%29' stroke-
                 background
                                   linecap='round' stroke-
-color: var(--darker-bg)
                                   miterlimit='10' stroke-
!important;
                                   width='2' d='M4 7h22M4
                                   15h22M4
                                   23h22'/%3e%3c/svg%3e");
             .navbar-brand,
                                                }
             .nav-link {
                                                .form-
                color:
                                   container {
var(--text-color)
!important;
                                                    flex: 1;
            }
                                                    display:
                                   flex;
             .nav-
link:hover {
                                                    align-
                                   items: center;
```

```
justify-
                                                    border-
                                                                               <nav class="navbar
content: center;
                                   color: var(--primary-
                                                                       navbar-expand-lg navbar-
                                   color);
                                                                       dark">
                padding:
                                                    color:
2rem;
                                                                                    <div
                                   var(--text-color);
                                                                       class="container-fluid">
            }
                                                    box-
                                   shadow: 0 0 0 0.25rem
                                                                       class="navbar-brand"
             .login-form {
                                   rgba(76, 201, 240, 0.25);
                                                                       href="#">INPEXP2</a>
                width:
                                                                                        <button
100%;
                                                .form-label {
                                                                                            class=
                max-width:
                                                                       "navbar-toggler"
                                                    color:
600px;
                                   var(--text-color);
                                                                                            type="
                padding:
                                                                       button"
                                                }
2rem;
                                                                                            data-
                                                .btn-primary {
                                                                       bs-toggle="collapse"
                border-
radius: 10px;
                                                    background
                                                                                            data-
                                   -color: var(--primary-
                                                                       bs-target="#navbarNav"
                box-
                                   color);
shadow: 0 10px 20px
                                                                                            aria-
rgba(0, 0, 0, 0.3);
                                                    border-
                                                                       controls="navbarNav"
                                   color: var(--primary-
                background
                                   color);
                                                                                            aria-
-color: var(--card-bg);
                                                                       expanded="false"
                                                    color:
                border:
                                                                                            aria-
                                   #111;
1px solid rgba(255, 255,
                                                                       label="Toggle navigation"
255, 0.1);
                                                }
            }
                                                .htn-
                                   primary:hover {
                                                                                            <span
             .login-title {
                                                                       class="navbar-toggler-
                                                    background
                text-
                                                                       icon"></span>
                                   -color: var(--hover-
align: center;
                                                                                        </button>
                                   color);
                margin-
                                                    border-
bottom: 1.5rem;
                                   color: var(--hover-color);
                                                                       class="collapse navbar-
                color:
                                                                       collapse" id="navbarNav">
var(--primary-color);
                                                .form-check-
                                                                       class="navbar-nav">
                font-
                                   input {
weight: 600;
                                                                                                <l
                                                    background
                                                                       i class="nav-item">
                                   -color: rgba(0, 0, 0,
            .form-control,
                                   0.2);
                                                                         <a
            .form-select {
                                                    border-
                                   color: rgba(255, 255, 255,
                background
                                   0.1);
                                                                             class="nav-link
-color: rgba(0, 0, 0,
                                                                       active"
0.2);
                border-
                                                .form-check-
                                                                             aria-current="page"
color: rgba(255, 255, 255,
                                   input:checked {
0.1);
                                                    background
                                                                             href="#"
                color:
                                   -color: var(--primary-
var(--text-color);
                                   color);
                                                                             >Home</a
            }
                                                    border-
                                   color: var(--primary-
            .form-
                                   color);
control:focus,
                                                                                                 </
             .form-
                                                                       li>
select:focus {
                                            </style>
                                                                                                 <1
                background
                                       </head>
                                                                       i class="nav-item">
-color: rgba(0, 0, 0,
                                        <body>
0.3);
                                                                         <a class="nav-link"
```

active"	<1	
href="#">Features	abel for="inputPassword4" class="form-label"	placeholder="Apartment, studio, or floor"
li>		/>
<1	>Password <td></td>	
i class="nav-item">	>	<div< td=""></div<>
	<i< td=""><td>class="col-md-6"></td></i<>	class="col-md-6">
<a class="nav-link</td><td>nput</td><td><1</td></tr><tr><td>active" href="#">About <br li>	type="password"	abel for="inputCity" class="form- label">City
<1	class="form-control"	<i< td=""></i<>
i class="nav-item">		nput
	id="inputPassword4"	
<a class="nav-link</td><td>/></td><td>type=" td="" text"<="">		
active" href="#">Login	, 	
</td <td>•</td> <td>class="form-control"</td>	•	class="form-control"
li>	<div class="col-12"></div 	
	<1	id="inputCity"
	abel for="inputAddress"	/>
	class="form-label"	
	<u>.</u>	<div< td=""></div<>
<div class="form-</td><td>>Address</label</td><td>class=" col-md-4"=""></div>		
container">	>	<\
<div< td=""><td><i< td=""><td>abel for="inputState" class="form-</td></i<></td></div<>	<i< td=""><td>abel for="inputState" class="form-</td></i<>	abel for="inputState" class="form-
class="login-form">	nput	label">State
<h2 class="login-</h2 	type="text"	<s< td=""></s<>
title">Register		<pre>elect id="inputState" class="form-select"></pre>
<form class="row g-3"></form>	class="form-control"	
<div< td=""><td>id="inputAddress"</td><td><pre><option selected="">Choose</option></pre></td></div<>	id="inputAddress"	<pre><option selected="">Choose</option></pre>
class="col-md-6">		>
<1	placeholder="1234 Main	
abel for="inputEmail4"	St"	<pre><option></option></pre>
	St" />	</td
abel for="inputEmail4"	St" />	<pre>select></pre>
abel for="inputEmail4" class="form-label"	St" /> <div< td=""><td></td></div<>	
abel for="inputEmail4" class="form-label" >Email <td>St" /> <div class="col-12"></div></td> <td> <pre> <div< pre=""></div<></pre></td>	St" /> <div class="col-12"></div>	<pre> <div< pre=""></div<></pre>
<pre>abel for="inputEmail4" class="form-label" >Email</pre>	St" /> <div class="col-12"> <!--</td--><td><pre></pre></td></div>	<pre></pre>
<pre>abel for="inputEmail4" class="form-label" >Email<i< pre=""></i<></pre>	St" /> <div class="col-12"></div>	<pre></pre>
<pre>abel for="inputEmail4" class="form-label" >Email<i< pre=""></i<></pre>	St" /> <div class="col-12"> <l <="" abel="" for="inputAddress2" td=""><td><pre></pre></td></l></div>	<pre></pre>
<pre>abel for="inputEmail4" class="form-label" >Email</pre>	St" /> <div class="col-12"> <l <="" abel="" for="inputAddress2" td=""><td><pre></pre></td></l></div>	<pre></pre>
<pre>abel for="inputEmail4" class="form-label" >Email</pre>	St" /> class="col-12"> abel for="inputAddress2" class="form-label"	<pre></pre>
<pre>abel for="inputEmail4" class="form-label" >Email</pre>	St" /> <div class="col-12"> abel for="inputAddress2" class="form-label" >Address 2<td><pre></pre></td></div>	<pre></pre>
<pre>abel for="inputEmail4" class="form-label" >Email</pre>	St" /> <div class="col-12"> abel for="inputAddress2" class="form-label" >Address 2<td><pre></pre></td></div>	<pre></pre>
<pre>abel for="inputEmail4" class="form-label" >Email</pre>	St" /> <div class="col-12"> abel for="inputAddress2" class="form-label" >Address 2 input</div>	<pre></pre>
<pre>abel for="inputEmail4" class="form-label" >Email</pre>	St" /> <div class="col-12"> abel for="inputAddress2" class="form-label" >Address 2 <i< td=""><td><pre></pre></td></i<></div>	<pre></pre>
<pre>abel for="inputEmail4" class="form-label" >Email<td><pre>St"</pre></td><td><pre></pre></td></pre>	<pre>St"</pre>	<pre></pre>
<pre>abel for="inputEmail4" class="form-label" >Email<td>St" /> <div class="col-12"> abel for="inputAddress2" class="form-label" >Address 2 input</div></td><td><pre></pre></td></pre>	St" /> <div class="col-12"> abel for="inputAddress2" class="form-label" >Address 2 input</div>	<pre></pre>

OUTPUT:

