Name: Abdur R. Qureshi

Roll No: 242466

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

 \rightarrow 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-
color: #ccc:
                                    var(--primary-color)
                                    !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:
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- content: center;	border- color: var(primary- color);	<pre><nav class="navbar navbar-expand-lg navbar- dark"></nav></pre>
padding: 2rem; }	color: var(text-color);	<div class="container-fluid"></div
.login-form {	box- shadow: 0 0 0 0.25rem rgba(76, 201, 240, 0.25);	INPEXP2</a
width:	}	<button< td=""></button<>
100%;	.form-label {	class=
max-width:	color:	"navbar-toggler"
600px;	var(text-color);	type="
padding:	}	button"
2rem;		data-
border-	.btn-primary {	bs-toggle="collapse"
radius: 10px;	background	data-
box-	-color: var(primary- color);	bs-target="#navbarNav"
shadow: 0 10px 20px		aria-
rgba(0, 0, 0, 0.3);	border- color: var(primary-	controls="navbarNav"
background	color);	aria-
-color: var(card-bg);		expanded="false"
border:	color: #111;	aria-
1px solid rgba(255, 255,		label="Toggle navigation"
255, 0.1);	}	>
}	.btn-	
.login-title {	primary:hover {	<span class="navbar-toggler-</span
text-	background	icon">
align: center;	-color: var(hover- color);	
	COLOIT),	
margin-		
margin- bottom: 1.5rem;	border-	<div< td=""></div<>
bottom: 1.5rem;	<pre>color: var(hover-color);</pre>	class="collapse navbar-
_		class="collapse navbar- collapse" id="navbarNav">
<pre>bottom: 1.5rem;</pre>	<pre>color: var(hover-color); } .form-check-</pre>	class="collapse navbar- collapse" id="navbarNav"> <ul< td=""></ul<>
bottom: 1.5rem; color:	<pre>color: var(hover-color); }</pre>	<pre>class="collapse navbar- collapse" id="navbarNav"></pre>
bottom: 1.5rem; color: var(primary-color); font- weight: 600;	<pre>color: var(hover-color); }</pre>	<pre>class="collapse navbar- collapse" id="navbarNav"></pre>
<pre>bottom: 1.5rem;</pre>	color: var(hover-color); } .form-check- input {	<pre>class="collapse navbar- collapse" id="navbarNav"></pre>
<pre>bottom: 1.5rem;</pre>	color: var(hover-color); } .form-check- input {	<pre>class="collapse navbar- collapse" id="navbarNav"></pre>
<pre>bottom: 1.5rem;</pre>	<pre>color: var(hover-color); } .form-check- input {</pre>	<pre>class="collapse navbar- collapse" id="navbarNav"></pre>
color: var(primary-color); font- weight: 600; form-control, .form-select { background	color: var(hover-color); } .form-check- input {	<pre>class="collapse navbar- collapse" id="navbarNav"></pre>
color: var(primary-color); font- weight: 600; form-control, form-select { background color: rgba(0, 0, 0,	color: var(hover-color); } .form-check- input {	<pre>class="collapse navbar- collapse" id="navbarNav"></pre>
color: var(primary-color); font- weight: 600; form-control, form-select { background color: rgba(0, 0, 0, 0.2);	color: var(hover-color); } .form-check- input {	<pre>class="collapse navbar- collapse" id="navbarNav"></pre>
bottom: 1.5rem; color: var(primary-color); font- weight: 600; } .form-control, .form-select { background -color: rgba(0, 0, 0, 0.2); border-	<pre>color: var(hover-color);</pre>	<pre>class="collapse navbar- collapse" id="navbarNav"></pre>
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color: var(primary-color); font- weight: 600; } .form-control, .form-select { background -color: rgba(0, 0, 0, 0.2); border- color: rgba(255, 255, 255, 0.1);	color: var(hover-color); } .form-check- input { background -color: rgba(0, 0, 0, 0.2); border- color: rgba(255, 255, 255, 0.1); } .form-check- input:checked { background	<pre>class="collapse navbar- collapse" id="navbarNav"></pre>
color: var(primary-color); font- weight: 600; } .form-control, .form-select { background -color: rgba(0, 0, 0, 0.2); border- color: rgba(255, 255, 255, 0.1); color:	color: var(hover-color); } .form-check- input { background -color: rgba(0, 0, 0, 0.2); border- color: rgba(255, 255, 255, 0.1); } .form-check- input:checked { background -color: var(primary-	<pre>class="collapse navbar- collapse" id="navbarNav"></pre>
color: var(primary-color); font- weight: 600; } .form-control, .form-select { background -color: rgba(0, 0, 0, 0.2); border- color: rgba(255, 255, 255, 0.1); color: var(text-color);	color: var(hover-color); } .form-check- input { background -color: rgba(0, 0, 0, 0.2); border- color: rgba(255, 255, 255, 0.1); } .form-check- input:checked { background -color: var(primary- color);	<pre>class="collapse navbar- collapse" id="navbarNav"></pre>
<pre>bottom: 1.5rem;</pre>	color: var(hover-color); } .form-check- input { background -color: rgba(0, 0, 0, 0.2); border- color: rgba(255, 255, 255, 0.1); } .form-check- input:checked { background -color: var(primary- color); border-	<pre>class="collapse navbar- collapse" id="navbarNav"></pre>
<pre>bottom: 1.5rem;</pre>	color: var(hover-color); } .form-check- input { background -color: rgba(0, 0, 0, 0.2); border- color: rgba(255, 255, 255, 0.1); } .form-check- input:checked { background -color: var(primary- color); border- color: var(primary-	<pre>class="collapse navbar- collapse" id="navbarNav"></pre>
<pre>bottom: 1.5rem;</pre>	color: var(hover-color); } .form-check- input { background -color: rgba(0, 0, 0, 0.2); border- color: rgba(255, 255, 255, 0.1); } .form-check- input:checked { background -color: var(primary- color); border- color: var(primary- color);	<pre>class="collapse navbar- collapse" id="navbarNav"></pre>
<pre>bottom: 1.5rem;</pre>	<pre>color: var(hover-color);</pre>	<pre>class="collapse navbar- collapse" id="navbarNav"></pre>
bottom: 1.5rem; color: var(primary-color); font- weight: 600; left: 600;	color: var(hover-color); } .form-check- input { background -color: rgba(0, 0, 0, 0.2); border- color: rgba(255, 255, 255, 0.1); } .form-check- input:checked { background -color: var(primary- color); border- color: var(primary- color); }	<pre>class="collapse navbar- collapse" id="navbarNav"></pre>
bottom: 1.5rem; color: var(primary-color); font- weight: 600; left: 600;	<pre>color: var(hover-color);</pre>	<pre>class="collapse navbar- collapse" id="navbarNav"></pre>
color: var(primary-color); font- weight: 600; .form-control, .form-select { background -color: rgba(0, 0, 0, 0.2); border- color: rgba(255, 255, 255, 0.1); color: var(text-color); } .form- control:focus, .form- select:focus { background -color: rgba(0, 0, 0,	color: var(hover-color); } .form-check- input { background -color: rgba(0, 0, 0, 0.2); border- color: rgba(255, 255, 255, 0.1); } .form-check- input:checked { background -color: var(primary- color); border- color: var(primary- color); }	<pre>class="collapse navbar- collapse" id="navbarNav"></pre>
bottom: 1.5rem; color: var(primary-color); font- weight: 600; left: 600;	<pre>color: var(hover-color);</pre>	<pre>class="collapse navbar- collapse" id="navbarNav"></pre>

<1	
abel for="inputPassword4" class="form-label"	placeholder="Apartment, studio, or floor"
	/>
>Password <td></td>	
>	<div< td=""></div<>
<i< td=""><td>class="col-md-6"></td></i<>	class="col-md-6">
nput	<1
type="password"	abel for="inputCity" class="form-
	label">City
class="form-control"	<i< td=""></i<>
	nput
id="inputPassword4"	
/>	type="text"
	class="form-control"
<hr/> vib>	class="form-control"
class="col-12">	id-WipputCityW
<1	id="inputCity"
abel for="inputAddress"	/>
class="form-label"	
	<div< td=""></div<>
>Address <td>class="col-md-4"></td>	class="col-md-4">
>	<1
<i< td=""><td>abel for="inputState" class="form-</td></i<>	abel for="inputState" class="form-
nput	label">State
	<s< td=""></s<>
type="text"	elect id="inputState" class="form-select">
class="form-control"	
	<option< td=""></option<>
id="inputAddress"	<pre>selected>Choose</pre>
placeholder="1234 Main	
St"	<option></option>
/>	</td
	select>
<div< td=""><td></td></div<>	
class="col-12">	<div< td=""></div<>
<1	class="col-md-2">
abel for="inputAddress2"	<l< td=""></l<>
CLASS="TOPM-LADEL"	abel for="inputZip" class="form-
> Address	label">Zip
	nput type="text"
<input< td=""><td><pre>class="form-control" id="inputZip" /></pre></td></input<>	<pre>class="form-control" id="inputZip" /></pre>
type="text"	<div< td=""></div<>
-1	class="col-12">
class="torm-control"	<d< td=""></d<>
id="inputAddress2"	iv class="form-check">
	class="form-label" >Password

OUTPUT:

