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Assignment Name =Starting with CSS
GitHub = Link

1.Create a simple page with some div tags and show different ways to add CSS as well as what happens when you target the same elements with inline, internal, and external CSS. Also, utilize comments in the project where required.

===> HTML CODE:-

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>CSS Priority Demonstration</title>

    <!-- Internal CSS -->
    <style>
        .box {
            width: 1500px;
            height: 150px;
            text-align: center;
            line-height: 150px;
            margin: 10px;
            font-weight: bold;
        }

        #internalBox {
            background-color: lightblue; /* This will be overridden by inline CSS */
            color: black;
        }
    </style>

    <!-- Linking External CSS -->
    <link rel="stylesheet" href="style.css">
</head>
<body>
```

```html
    <h2>CSS Priority Demonstration</h2>


    <!-- Inline CSS (Highest Priority) -->
    <div class="box" id="inlineBox" style="background-color: red; color: white;">
        Inline CSS
    </div>


    <!-- Internal CSS (Lower Priority than Inline, but higher than External) -->
    <div class="box" id="internalBox">
        Internal CSS
    </div>


    <!-- External CSS (Lowest Priority unless !important is used) -->
    <div class="box" id="externalBox">
        External CSS
    </div>
</body>
</html>
```

===> CSS CODE:-

```css
* External CSS */
#externalBox {
    background-color: lightgreen; /* This will be applied unless overridden */
    color: black;
}

/* Targeting all .box elements to show the hierarchy */
.box {
    border: 2px solid black;
    font-family: Arial, sans-serif;
```

2.Build an HTML page with multiple paragraphs, each assigned a unique class name. Write CSS rules using class selectors to apply distinct styling to each paragraph. Follow the BEM naming convention and explain how you've named the classes.

===> HTML CODE

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>BEM CSS Example</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>

    <section class="content">
        <p class="content__paragraph content__paragraph--primary">
            This is the primary paragraph with the main styling.
        </p>

        <p class="content__paragraph content__paragraph--secondary">
            This is a secondary paragraph with different styling.
        </p>

        <p class="content__paragraph content__paragraph--highlighted">
            This paragraph is highlighted for emphasis.
        </p>

        <p class="content__paragraph content__paragraph--warning">
            Warning! This paragraph contains important information.
        </p>
    </section>

</body>
</html>
```

===> CSS CODE:-

```css
/* Base styles for the block */
.content {
    width: 80%;
    margin: 20px auto;
    font-family: Arial, sans-serif;
}

/* Common paragraph styles */
.content__paragraph {
    font-size: 16px;
    padding: 10px;
    margin: 10px 0;
    border-radius: 5px;
}

/* Modifier: Primary paragraph */
.content__paragraph--primary {
    background-color: lightblue;
    color: black;
}

/* Modifier: Secondary paragraph */
.content__paragraph--secondary {
    background-color: lightgray;
    color: black;
    font-style: italic;
}

/* Modifier: Highlighted paragraph */
.content__paragraph--highlighted {
    background-color: yellow;
    color: black;
    font-weight: bold;
}

/* Modifier: Warning paragraph */
.content__paragraph--warning {
    background-color: red;
```

```
    color: white;
    font-weight: bold;
    border: 2px solid darkred;
}
```

3.Develop an HTML form with various input elements. Use CSS to style the form, including setting background colors for input fields. Create a custom color palette for the form elements, and demonstrate how to apply opacity to one of the form sections.

===> HTML CODE:-

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Styled HTML Form</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>

    <div class="form-container">
        <h2 class="form__title">User Registration</h2>

        <form class="form">
            <!-- Personal Information Section -->
            <fieldset class="form__section form__section--personal">
                <legend>Personal Information</legend>

                <label for="Name" class="form__label">Full Name:</label>
                <input type="text" id="Name" class="form__input"
placeholder="Enter your Name">

                <label for="email" class="form__label">Email:</label>
                <input type="email" id="email" class="form__input"
placeholder="Enter your Email">

                <label for="phone" class="form__label">Phone:</label>
```

```html
            <input type="tel" id="phone" class="form__input"
placeholder="Enter your phone Number">
            </fieldset>

            <!-- Account Details Section (with Opacity) -->
            <fieldset class="form__section form__section--account">
                <legend>Account Details</legend>

                <label for="username" class="form__label">Username:</label>
                <input type="text" id="username" class="form__input"
placeholder="Choose a Username">

                <label for="password" class="form__label">Password:</label>
                <input type="password" id="password" class="form__input"
placeholder="Enter a Password">

                <label for="confirm-password" class="form__label">Confirm
Password:</label>
                <input type="password" id="confirm-password" class="form__input"
placeholder="Confirm Password">
            </fieldset>

            <!-- Submit Button -->
            <button type="submit" class="form__button">Register</button>
        </form>
    </div>

</body>
</html>
```

===> CSS CODE:-

```css
/* Custom Color Palette */
:root {
    --primary-color: #4CAF50;
    --secondary-color: #f4f4f4;
    --input-bg: #e8f0fe;
    --button-bg: #008CBA;
    --button-hover: #005f7f;
    --text-color: #333;
}

/* General Form Styles */
body {
    font-family: Arial, sans-serif;
    background-color: var(--secondary-color);
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
    margin: 10px;
}

.form-container {
    background-color: white;
    padding: 20px;
    border-radius: 8px;
    box-shadow: 0px 4px 8px rgba(0, 0, 0, 0.2);
    width: 350px;
}

.form__title {
    text-align: center;
    color: var(--primary-color);
}

/* Form Sections */
.form__section {
    border: 1px solid var(--primary-color);
```

```css
    padding: 15px;
    border-radius: 10px;
    margin-bottom: 10px;
}

/* Apply Opacity to Account Details Section */
.form__section--account {
    background-color: rgba(76, 175, 80, 0.1); /* 10% opacity */
}

/* Labels and Inputs */
.form__label {
    display: block;
    margin-top: 10px;
    font-weight: bold;
    color: var(--text-color);
}


.form__input {
    width: 100%;
    padding: 8px;
    margin-top: 5px;
    border: 1px solid #ccc;
    border-radius: 4px;
    background-color: var(--input-bg);
}

/* Button Styling */
.form__button {
    width: 100%;
    padding: 10px;
    background-color: var(--button-bg);
    color: white;
    border: none;
    border-radius: 5px;
    font-size: 16px;
    cursor: pointer;
    margin-top: 10px;
}
```

```css
.form__button:hover {
    background-color: var(--button-hover);
}
```