

■ Web Development Syntax Essentials

1. HTML (Structure)

```
<!DOCTYPE html>
<html>
<head>
    <title>My First Page</title>
</head>
<body>
    <h1>Hello, World!</h1>
    <p>This is a paragraph.</p>
    <a href="https://example.com">Click Here</a>
    

    <!-- Form Example -->
    <form action="submit.php" method="POST">
        <input type="text" name="username" placeholder="Enter name">
        <input type="submit" value="Submit">
    </form>
</body>
</html>
```

2. CSS (Styling)

```
/* External CSS file: style.css */
body {
    background-color: #f4f4f4;
    font-family: Arial, sans-serif;
}

h1 {
    color: blue;
    text-align: center;
}

a {
    color: red;
    text-decoration: none;
}
```

3. JavaScript (Interactivity)

```
// Alert message
alert("Welcome to my website!");

// Change HTML content
document.getElementById("demo").innerHTML = "Hello JavaScript!";

// Simple function
function greet(name) {
    console.log("Hello, " + name);
```

```

}

greet("Tilak");

```

4. PHP (Backend + MySQL Connection)

```

<?php
// Database connection
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "online_learning_hub";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);

// Check
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
echo "Connected successfully";

// Example: Insert data
$sql = "INSERT INTO users (username, email) VALUES ('John', 'john@example.com')";
if ($conn->query($sql) === TRUE) {
    echo "New record created";
} else {
    echo "Error: " . $conn->error;
}

$conn->close();
?>

```

5. Putting It All Together

```

<!DOCTYPE html>
<html>
<head>
    <title>Full Example</title>
    <link rel="stylesheet" href="style.css">
    <script src="script.js"></script>
</head>
<body>
    <h1 id="demo">Welcome</h1>
    <button onclick="changeText()">Click Me</button>

    <?php
        $name = "Tilak";
        echo "<p>Hello, $name! PHP is running.</p>";
    ?>
</body>
</html>

// JavaScript File (script.js)
function changeText() {
    document.getElementById("demo").innerHTML = "Text Changed!";

```

```
}
```

```
/* CSS File (style.css) */
```

```
h1 { color: green; }
```

```
button { padding: 10px; background: orange; color: white; }
```