

# ****💻 Lab Session: Part 1 & 2 – CSS Basics & Selectors****

This lab session will provide **hands-on practice** with CSS basics and selectors. Students will apply what they've learned to **style a simple webpage**.

## ****🎯 Learning Objectives****

By the end of this lab, students should be able to:  
✅ Understand and use **CSS properties** (colors, fonts, spacing, borders)  
✅ Apply different **CSS selectors** (class, id, element, grouping, pseudo-classes)  
✅ Link an external CSS file to an HTML file

## ****📌 Task 1: Setting Up the Files****

1️⃣ **Create a project folder** named css\_lab.  
2️⃣ Inside the folder, create:

* **index.html** (HTML structure)
* **style.css** (CSS styling)  
  3️⃣ Open both files in a **code editor** (VS Code, Sublime, or Notepad++).

## ****📌 Task 2: Writing the HTML (Starter File)****

Copy the following HTML into your **index.html** file:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>CSS Lab - Basics & Selectors</title>

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

</head>

<body>

<header>

<h1>Welcome to CSS Lab</h1>

</header>

<main>

<section class="introduction">

<h2>Introduction to CSS</h2>

<p>CSS makes the web beautiful by styling HTML elements.</p>

</section>

<section id="selectors">

<h2>Understanding CSS Selectors</h2>

<p>Selectors help us target elements for styling.</p>

</section>

<button class="btn">Click Me</button>

</main>

</body>

</html>

## ****📌 Task 3: Writing the CSS (Applying Selectors)****

Copy the following CSS into your **style.css** file:

/\* Styling the Body \*/

body {

font-family: Arial, sans-serif;

background-color: #f4f4f4;

margin: 20px;

text-align: center;

}

/\* Element Selector \*/

h1 {

color: navy;

text-transform: uppercase;

}

/\* Class Selector \*/

.introduction {

background-color: lightblue;

padding: 15px;

border-radius: 5px;

}

/\* ID Selector \*/

#selectors {

background-color: lightgreen;

padding: 15px;

border-radius: 5px;

}

/\* Grouping Selector \*/

h2, p {

color: darkslategray;

}

/\* Pseudo-class Selector \*/

button:hover {

background-color: orange;

color: white;

}

## ****📌 Task 4: Running and Experimenting****

1️⃣ **Open index.html in a browser**.  
2️⃣ Hover over the **button** to see the :hover effect.  
3️⃣ Modify different styles (e.g., change colors, fonts, padding) to see how CSS works!

## ****📌 Bonus Challenge****

1️⃣ Add a **new section** with a different **background color**.  
2️⃣ Use a **new pseudo-class** like :focus on a form input.