# **Training Day 6**

# **Day 6 – 30th June 2025**

### CSS Selectors, Classes, and IDs

#### **Detailed Description:**

Today's session deepened my understanding of **CSS** by introducing **selectors**, **classes**, and **IDs** — the essential tools that allow web designers to target specific HTML elements and apply custom styles efficiently.

The instructor explained that mastering selectors is key to writing clean and efficient CSS.

#### • 1. Introduction to CSS Selectors

A CSS selector is a pattern used to select the HTML elements we want to style.

We explored different types of selectors and how they can be used to control various parts of a webpage.

#### **Types of CSS Selectors Learned:**

Type	Example	Description	
Universal Selector	* { }	Selects all elements on a page	
<b>Element Selector</b>	p { }	Selects all  elements	
Class Selector	.classname { }	Selects elements with a specific class	
ID Selector	#idname { }	Selects a single element with a specific ID	
<b>Group Selector</b>	h1, h2, p { }	Applies same style to multiple tags	
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## Type Example Description

```
Descendant Selector div p { } Selects  elements inside a <div>
```

We also learned that **selectors** can be combined to create **more specific styling rules** for better layout control.

#### 2. Working with Classes

A **class** in CSS is used when we want to apply the same style to multiple elements. It is defined in HTML using the class attribute and referenced in CSS with a period (.).

#### **Example Practiced:**

```
<!DOCTYPE html>
<html>
<head>
<style>
.highlight {
   background-color: lightyellow;
   color: darkgreen;
   padding: 10px;
   border-radius: 5px;
}
```

```
</hd>

</head>

<h2 class="highlight">Welcome to CSS Classes</h2>

This text is styled using a class selector.

</body>

</html>
```

Here, both the heading and paragraph share the same .highlight class and have identical styles. This demonstrated how **classes promote reusability and consistency** in design.

#### 3. Working with IDs

An **ID** is used to style a **unique element** on a webpage.

It is defined using the id attribute in HTML and referenced in CSS with a hash symbol (#).

#### **Example Practiced:**

```
<!DOCTYPE html>
<html>
<head>
<style>
#main-title {
    color: darkblue;
```

```
text-align: center;

text-transform: uppercase;

}

</style>

</head>

<body>

<h1 id="main-title">My Web Designing Journey</h1>

</body>

</html>
```

The instructor emphasized that IDs are **unique** — meaning no two elements on the same page should have the same ID.

They are especially useful when specific styling or JavaScript functionality is needed for one unique element.

#### • 4. Difference Between Class and ID

As	spect	Class	ID
Sy	mbol Used	. (dot)	# (hash)
Ur	niqueness	Can be used multiple times	Must be unique on a page
Pu	rpose	Grouping elements for shared styles	Styling or identifying a specific element
Pri	iority	Lower specificity	Higher specificity

We also learned about **CSS specificity**, where **IDs have more weight** than classes or element selectors. This means if multiple styles conflict, the one with higher specificity will be applied.

#### • 5. Grouping and Nesting Selectors

The instructor showed how to **group selectors** to apply the same styles to multiple elements, and how to **nest selectors** to target elements inside a specific parent.

#### **Example:**

```
h1, h2, p {
  font-family: Arial, sans-serif;
  color: #333;
}
div p {
  color: darkred;
}
```

This allowed me to see how efficiently CSS can control multiple elements at once, reducing redundancy in code.

### **Learning Outcomes:**

• Understood the concept and types of CSS selectors.

- Learned the use and syntax of class (.classname) and ID (#idname) selectors.
- Differentiated between classes and IDs based on usage and specificity.
- Practiced grouping and nested selectors for advanced styling control.
- Realized the importance of selector hierarchy in efficient CSS design.