**Basic Syntax**

1. **Select by ID**:

java

Copy code

WebElement element = driver.findElement(By.cssSelector("#elementId"));

1. **Select by Class**:

java

Copy code

WebElement element = driver.findElement(By.cssSelector(".className"));

1. **Select by Tag**:

java

Copy code

WebElement element = driver.findElement(By.cssSelector("tagName"));

1. **Select by Attribute**:

java

Copy code

WebElement element = driver.findElement(By.cssSelector("[attribute='value']"));

1. **Select by Attribute with a Specific Value**:

java

Copy code

WebElement element = driver.findElement(By.cssSelector("input[name='username']"));

1. **Select Nested Elements**:

java

Copy code

WebElement element = driver.findElement(By.cssSelector("div.container p.text"));

**Examples**

Here are some practical examples:

1. **Select a Button by Its ID**:

java

Copy code

WebElement button = driver.findElement(By.cssSelector("#submitBtn"));

1. **Select an Input Field by Its Class Name**:

java

Copy code

WebElement inputField = driver.findElement(By.cssSelector(".inputField"));

1. **Select a Link by Its Href Attribute**:

java

Copy code

WebElement link = driver.findElement(By.cssSelector("a[href='https://example.com']"));

1. **Select a List Item Inside a Specific UL**:

java

Copy code

WebElement listItem = driver.findElement(By.cssSelector("ul#myList li.item"));

1. **Select Elements Based on a Combination of Attributes**:

java

Copy code

WebElement element = driver.findElement(By.cssSelector("input[type='text'][name='username']"));

**Combining CSS Selectors**

You can combine multiple CSS selectors to narrow down your search:

* **Selecting a Child Element**:

java

Copy code

WebElement childElement = driver.findElement(By.cssSelector("div.parent > span.child"));

* **Selecting a Descendant Element**:

java

Copy code

WebElement descendantElement = driver.findElement(By.cssSelector("div.parent span.child"));

* **Selecting a Specific Position**:

java

Copy code

WebElement firstItem = driver.findElement(By.cssSelector("ul.items li:first-child"));