CSS means cascading style sheets. When we don’t have any id or name etc., then we can use CSS selectors to locate elements on the web page.

**Writing your own cssSelector:**

tagName[attribute=’value’]

tagName[attribute=’value’][attribute=’value’]

Other ways:

tagName#id – You can use this only if you have id, otherwise you can’t use this.

You can skip tag name and directly use #id

Ex: #firstname

Anothr way is:

tagName.classname

ex: input.beautifultextbox

Here dot(.) refers to class name.

If you have multiple classes for a single element like

<button class="submit btn primary-btn flex-table-btn js-submit" **type**="submit" style="background-color: rgb(85, 172, 238);">

Example:

1: css=.primary-btn

2: css=.btn.primary-btn

3: css=.submit.primary-btn

Finding an element by CSS Selector

* Writing our own CSS Selectors using single attribute (By.cssSelector("input[color='red']"))
* Writing our own CSS Selectors using multiple attributes (By.cssSelector("input[color='red'][type='text']"))
* Other ways of writing css selectors tagname#id (By.cssSelector("input#firstname"))
* Other ways of writing css selectors #id (By.cssSelector("#firstname"))
* Other ways of writing css selectors tagname.className (By.cssSelector("input.beautifultextbox"))
* Other ways of writing css selectors tagname.className (By.cssSelector("input.beautifultextbox.colorful"))
* Other ways of writing css selectors tagname.className (By.cssSelector(".beautifultextbox"))
* Other ways of writing css selectors tagname.className (By.cssSelector(".beautifultextbox.colorful"))
* CSS Locators for Sub String Matches – Starting text match with symbol ^ (By.cssSelector("input[color^='red']"))
* CSS Locators for Sub String Matches – Ending text match with symbol $ (By.cssSelector("input[color$='red']"))
* CSS Locators for Sub String Matches – Anywhere text match with symbol \* (By.cssSelector("input[color\*='red']"))
* CSS Locators using Child Locators (By.cssSelector("form>label>input[id='firstname']"))
* When you find more than one element (findElements(By.cssSelector("input[class\*='text']")).get(2))

**Testing Xpath or CssSelector in browsers:**

Right click on the web page and go to

Under the console tab for xpath use $x(“xpath”) and for CssSelector use $(“Css”). Replace xpath and Css with the xpath and css generated.

**package** Selenium;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.firefox.FirefoxDriver;

**public** **class** CssSelctorsEx {

**public** **static** **void** main(String[] args) **throws** InterruptedException {

System.*setProperty*("webdriver.gecko.driver", "C:\\BrowserDrivers\\geckodriver.exe");

WebDriver driver = **new** FirefoxDriver();

//Opening an URL

driver.get("file:///D:/Selenium%20Course/Java/index.html");

//Thread.sleep(2000);

//Finding Element by CssSelector

//driver.findElement(By.cssSelector("input[color='red']")).sendKeys("Subbu");

//Finding Element by using two attributes

//driver.findElement(By.cssSelector("input[color='red'][type='text']")).sendKeys("Subbu");

//Other ways of writing cssSelectors - You can use the following only if you have id

//driver.findElement(By.cssSelector("input#firstname")).sendKeys("subbu");

//Other ways of writing cssSelectors - You can use directly #id

//driver.findElement(By.cssSelector("#firstname")).sendKeys("subbu");

//Other ways of writing cssSelectors - You can use tagName.className

//driver.findElement(By.cssSelector("input.beautifultextbox")).sendKeys("subbu");

//Other ways of writing cssSelectors - You can use tagName.className.clasName

//driver.findElement(By.cssSelector("input.text.primary-text")).sendKeys("subbu");

//Other ways of writing cssSelectors - You can use .className.className

//driver.findElement(By.cssSelector(".text.primary-text")).sendKeys("subbu");

//Other ways of writing cssSelectors - You can use .className.className

//driver.findElement(By.cssSelector(".text.primary-table-text")).sendKeys("subbu");

//Other ways of writing cssSelectors - You can use .className.className

//driver.findElement(By.cssSelector(".primary-text.primary-table-text")).sendKeys("subbu");

//Finding Element by CssSelector - by matching starting text

//driver.findElement(By.cssSelector("input[class^='beautiful']")).sendKeys("Subbu");

//Finding Element by CssSelector - by matching ending text

//driver.findElement(By.cssSelector("input[class$='box']")).sendKeys("Subbu");

//Finding Element by CssSelector - by matching text anywhere

//driver.findElement(By.cssSelector("input[class\*='text']")).sendKeys("Subbu");

//Finding Element by CssSelector - by matching text anywhere

//driver.findElement(By.cssSelector("div[id='divtextbox']>div>div>input")).sendKeys("Subbu");

//Finding Element by CssSelector - Locating an element when you have more than one

//driver.findElements(By.cssSelector("input[class\*='text']")).get(2).sendKeys("subbu");

Thread.*sleep*(2000);

//Closing Browser

driver.close();

}

}