

HTML Programming syntax

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```
<html>

    <head>

        Title
        Url
        Images
    </head>

    <body>

        <div>
            <input attribute1 = "attribute_value1" attribute2 = "attribute_value2"...>
        </div>

        <div>
            <button attribute1 = "attribute_value1" attribute2 = "attribute_value2"...>
        </div>

        <div>
            <a attribute1 = "attribute_value1" > linktext_56 /<
        </div>

    </body>

</html>
```

Tagname - any string present after "<" sign is called a tagname.

Attribute - any string present after tagname is called as attribute.

Attribute value - any string present in double quote after attribute is called as attribute value.

link text - any string present inside ' > < ' is called linktext.

Locators

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- Locators are used to identify the elements present on a web page and which are of following types.
 - By ID
 - By Name
 - By Classname
 - By Tagname
 - By Linktext
 - By Partiallinktext
 - By Xpath
- Locating elements in Selenium WebDriver is performed with the help of **findElement()** and **findElements()** methods provided by WebDriver and WebElement class.

Method	Syntax	Description
By ID	driver.findElement(By.id (<element ID>))	Locates an element using the ID attribute
By name	driver.findElement(By.name (<element name>))	Locates an element using the Name attribute
By class name	driver.findElement(By.className (<element class>))	Locates an element using the Class attribute
By tag name	driver.findElement(By.tagName (<html tagname>))	Locates an element using the HTML tag
By link text	driver.findElement(By.linkText (<linktext>))	Locates a link using link text
By partial link text	driver.findElement(By.partialLinkText (<linktext>))	Locates a link using the link's partial text
By XPath	driver.findElement(By.xpath (<xpath>))	Locates an element using XPath query

Sample Program >>

```
package Java_package;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class Testing1 {

    public static void main(String[] args) throws InterruptedException
    {
        System.setProperty("webdriver.chrome.driver",
"/Users/amitparate/Downloads/chromedriver");

        WebDriver driver = new ChromeDriver();

        driver.manage().deleteAllCookies();
        driver.manage().window().maximize();
        driver.get("https://www.facebook.com/");

        WebElement emailID = driver.findElement(By.id("email")); // element located
by using ID attribute

        WebElement password = driver.findElement(By.name("pass")); // element
located by using name attribute

        WebElement loginButton = driver.findElement(By.name("login")); // element
located by using name attribute

        emailID.sendKeys("login credentials"); // method to send text to any textfield

        Thread.sleep(2000);
        password.sendKeys("123456789"); // method to send text to any textfield

        Thread.sleep(2000);
        loginButton.click(); // method to click on any button element

        driver.findElement(By.linkText("Forgotten password?")); // element located by
using link text attribute

        driver.findElement(By.partialLinkText("Forgotten pass")); // element located by
using partialLinkText attribute

    }
}
```