Launching chrome using eclipse:

**package** selenium;

**import** org.openqa.selenium.chrome.ChromeDriver;

**public** **class** BrowserLaunching {

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

System.*setProperty*("Webdriver.chrome.driver","C:\\Users\\ADMIN\\eclipse-workspace\\nov 8th\\drivers\\chromedriver.exe");

ChromeDriver ch = **new** ChromeDriver();

}

}

Launching edge using eclipse:

**package** selenium;

**import** org.openqa.selenium.edge.EdgeDriver;

**public** **class** BrowserLaunching {

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

System.*setProperty*("Webdriver.chrome.driver","C:\\Users\\ADMIN\\eclipse-workspace\\nov 8th\\drivers\\chromedriver.exe");

EdgeDriver ch = **new** EdgeDriver();

}

}

Example:

**package** selenium;

**import** org.openqa.selenium.chrome.ChromeDriver;

**import** org.openqa.selenium.edge.EdgeDriver;

**public** **class** BrowserLaunching {

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

WebDriver driver;

String browser = "Chrome";

**if**(browser.equals("Edge")) {

System.*setProperty*("Webdriver.chrome.driver","C:\\Users\\ADMIN\\eclipse-workspace\\nov 8th\\drivers\\msedgedriver.exe");

EdgeDriver ch = **new** EdgeDriver();

} **else** {

System.*setProperty*("WebDriver.chrome.driver", "C:\\Users\\ADMIN\\eclipse-workspace\\nov 8th\\drivers\\chromedriver.exe");

ChromeDriver nh = **new** ChromeDriver(); }

}

}

To Launch a website using selenium:

driver.get(“URL”);

or

driver.navigate().to(“URL”);

**package** selenium;

**import** org.openqa.selenium.edge.EdgeDriver;

**public** **class** BrowserLaunching {

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

System.*setProperty*("WebDriver.chrome.driver", "C:\\Users\\ADMIN\\eclipse-workspace\\nov 8th\\drivers\\msedgedriver.exe");

EdgeDriver driver = **new** EdgeDriver();

driver.get("https://tirupatibalaji.ap.gov.in/#/login");

driver.navigate().to("https://tirupatibalaji.ap.gov.in/#/login");

}

}

To maximize:

driver.mange.window().maximize();

**public** **class** Assignmet {

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

System.*setProperty*("WebDriver.chrome.driver", "C:\\Users\\ADMIN\\eclipse-workspace\\nov 8th\\drivers\\msedgedriver.exe");

EdgeDriver driver = **new** EdgeDriver();

// driver.get("https://tirupatibalaji.ap.gov.in/#/login");

driver.manage().window().maximize();

driver.navigate().to("https://tirupatibalaji.ap.gov.in/#/login");

}

}

To navigate:

1. Back:

driver.navigate().back();

1. Refresh:

driver.navigate().refresh();

1. Forward:

driver.navigate().forward();

Close:

driver.close();

<body> = contains the actual content in view mode

<head> = contains common property.

To print title of the webpage:  
  
**package** selenium;

**import** org.openqa.selenium.chrome.ChromeDriver;

**public** **class** Assignmet {

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

System.*setProperty*("WebDriver.chrome.driver", "C:\\Users\\ADMIN\\eclipse-workspace\\nov 8th\\drivers\\msedgedriver.exe");

ChromeDriver driver = **new** ChromeDriver();

driver.get("https://opensource-demo.orangehrmlive.com/web/index.php/auth/login");

// driver.navigate().forward();

String str = driver.getTitle();

System.***out***.println("Title is :" + str);

}

}

To get current url:

**package** selenium;

**import** org.openqa.selenium.chrome.ChromeDriver;

**public** **class** Assignmet {

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

System.*setProperty*("WebDriver.chrome.driver", "C:\\Users\\ADMIN\\eclipse-workspace\\nov 8th\\drivers\\msedgedriver.exe");

ChromeDriver driver = **new** ChromeDriver();

driver.get("https://opensource-demo.orangehrmlive.com/web/index.php/auth/login");

// driver.navigate().forward();

// String str = driver.getTitle();

// System.out.println("Title is :" + str);

String str1 = driver.getCurrentUrl();

System.***out***.println(str1);

}

}

Traditional Locators:

Selenium provides support for these 8 traditional location strategies in webDriver.

They are: 1. class name

2.CSS selector

3.Id

4.name

5.link text

6.partial link text

7.tag name

8.xpath

1. Structure starts with tagname.

<tagname> </tagname>

1. To differentiate tagname we use attribute.  
   Attribute is used to recognize a specified tag. We can add multiple attributes in a tag.  
   <tagname attribute =”attribute value”  
    attribute1=”attribute value”> </tagname>
2. If we mention any text in the between the tag then it will display on the webpage.  
   <tagname attribute =”attribute value” attribute1=  
    “attribute value”>text</tagname>

ID: Locates elements whose ID attribute matches the search value.  
 Id value is always unique.

<tagname id=”attribute value” attribute1=  
 “attribute value”>text</tagname>

WebElement input\_username = driver.findElement(By.name("username"));

input\_username.sendKeys("Admin");

Name: Locates elements whose ID attribute matches the search value.

Name is always unique.

<tagname name=”attribute value” attribute1=  
 “attribute value”>text</tagname>

driver.findElement(By.*name*("username"));

linkText: Locates anchor elements whose visible text matches the search value.

<a attribute =”attribute value”>text</a>

driver.get("https://demo.seleniumeasy.com/");

String str = driver.getCurrentUrl();

System.***out***.println(str);

WebElement input\_inputforms = driver.findElement(By.*linkText*("Inputforms"));

input\_inputforms.click();

Partial linkText: Locates anchor elements whose visible text contains the search value. If multiple elements are matching, only the first one will be selected.

<a attribute =”attribute value”>text</a>

WebElement lnk\_sampleforms =driver.findElement(By.*partialLinkText*("sampleforms"));

lnk\_sampleforms.click();

tagName:

<tagname attribute =”attribute value” attribute1=  
 “attribute value”>text</tagname>

WebElement lnk\_sampleforms1 = driver.findElement(By.*tagName*("a"));

className:

<tagname attribute =”attribute value” attribute1=  
 “attribute value”>text</tagname>

WebElement lnk\_sampleforms1 = driver.findElement(By.*className*("a"));

How to open a website Instagram and to perform login functions:

**package** selenium;

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

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

**import** org.openqa.selenium.chrome.ChromeDriver;

**public** **class** Insta {

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

System.*setProperty*("webdriver.chromedriver", "C:\\Users\\ADMIN\\eclipse-workspace\\nov 8th\\drivers\\chromedriver.exe");

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

driver.get("https://www.instagram.com/");

Thread.*sleep*(3000);

driver.findElement(By.*name*("username")).sendKeys("parthawudaru");

driver.findElement(By.*name*("password")).sendKeys("Partha@4434");

Thread.*sleep*(1000);

driver.findElement(By.*cssSelector*("button[type='submit']")).click();

}

}

Web Element methods:

1.Click();

2.Sendkeys();

3.Submit();

CSS:

1.Faster than x-path because it follows DOM structure.

2.Performance is much better.

3.We cannot move backward or reverse.

driver.findElement(By.*cssSelector*("button[type='submit']")).click();

Locators in Selenium:

1.Id

2.name

3.linktext

4.partial linkText

5.tagname

6.classname

7.CSS

8.Xpath

Xpath:

1.Absolute Xpath:

a)Starts from the beginning

b)faster  
 c)if there is any change it becomes null

2.Relative xpath:

We are jumping directly to a particular tag.

Performed if else if to open chrome driver:

**import** org.openqa.selenium.edge.EdgeDriver;

**public** **class** Assignmet {

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

String str = "edge";

**if**(str.equals("chrome")) {

System.*setProperty*("webdriver.chromedriver", "C:\\Users\\ADMIN\\eclipse-workspace\\nov 8th\\drivers\\chromedriver.exe");

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

driver.get("https://login.microsoftonline.com/");

Thread.*sleep*(2000);

driver.findElement(By.*id*("i0116")).sendKeys("pardha.saradhi@innojc.com");

Thread.*sleep*(2000);

driver.manage().window().fullscreen();

} **else** **if**(str.equals("edge")){

System.*setProperty*("webdriver.edgedriver", "C:\\Users\\ADMIN\\eclipse-workspace\\nov 8th\\drivers\\msedgedriver.exe");

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

driver.get("https://login.microsoftonline.com/");

Thread.*sleep*(2000);

driver.findElement(By.*id*("i0116")).sendKeys("pardha.saradhi@innojc.com");

Thread.*sleep*(2000);

driver.manage().window().fullscreen();

}

}

}