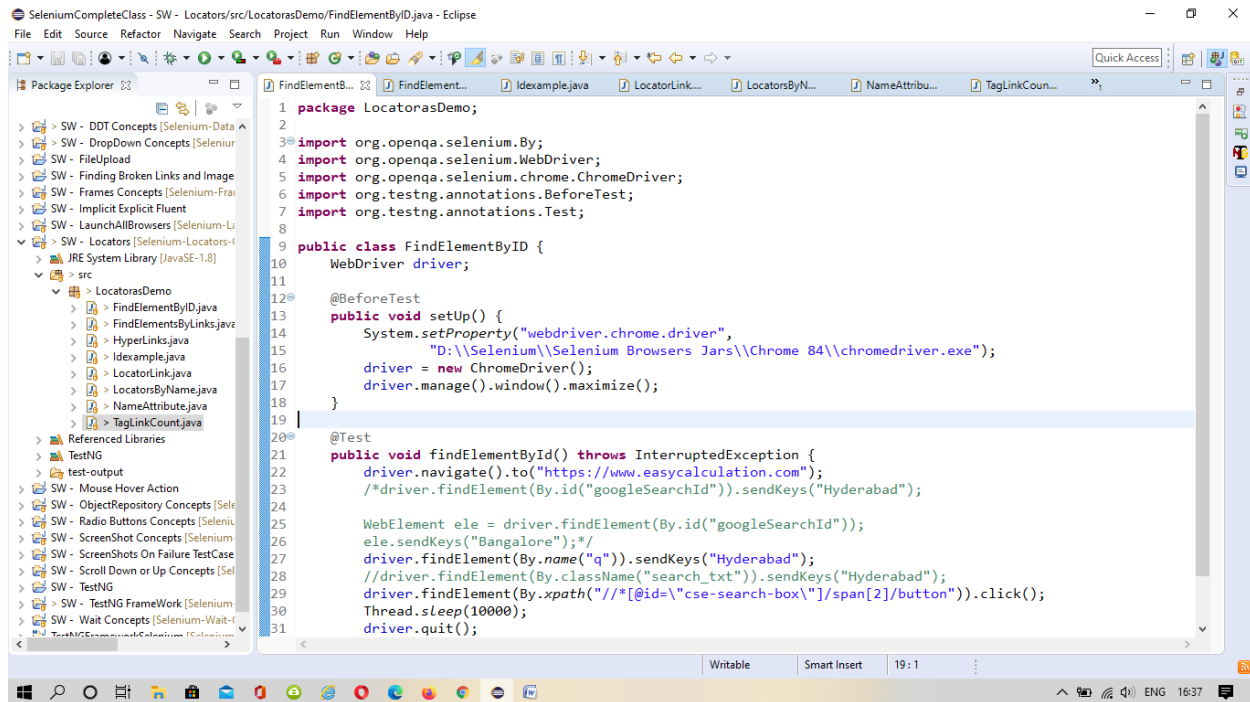


Locators Programs



FindElementById

package LocatorasDemo;

```
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;
```

```
public class FindElementById {
    WebDriver driver;

    @BeforeTest
    public void setUp() {
        System.setProperty("webdriver.chrome.driver",
            "D:\\Selenium\\Selenium Browsers Jars\\Chrome 84\\chromedriver.exe");
        driver = new ChromeDriver();
        driver.manage().window().maximize();
    }

    @Test
    public void findElementById() throws InterruptedException {
        driver.navigate().to("https://www.easycalculation.com");
        /*driver.findElement(By.id("googleSearchId")).sendKeys("Hyderabad");

        WebElement ele = driver.findElement(By.id("googleSearchId"));
        ele.sendKeys("Bangalore");*/
        driver.findElement(By.name("q")).sendKeys("Hyderabad");
        //driver.findElement(By.className("search_txt")).sendKeys("Hyderabad");
        driver.findElement(By.xpath("//*[@id='cse-search-box']/span[2]/button")).click();
        Thread.sleep(10000);
        driver.quit();
    }
}
```

FindElementsByLinks

```
package LocatorasDemo;
```

```
import java.util.List;
```

```
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.AfterTest;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;
```

```
public class FindElementsByLinks {
```

```
    WebDriver driver;
    int Total = 0;
```

```
    @BeforeTest
```

```
    public void setUp() throws Exception
    {
```

```
        System.setProperty("webdriver.chrome.driver",
                           "D:\\Selenium\\Selenium Browsers Jars\\Chrome 84\\chromedriver.exe");
        driver = new ChromeDriver();
        driver.manage().window().maximize();
    }
```

```
    @Test
```

```
    public void findElementById() throws InterruptedException {
```

```
        /*----- Demo Calculator com-----*/
        System.out.println("\n\n\nFirst Link");
```

```
        driver.navigate().to("https://www.easycalculation.com/");
        Thread.sleep(10000);
```

```
        // driver.findElement(By.id("twotabsearchtextbox")).sendKeys("redmi");
```

```
        driver.findElement(By.linkText("Calculators")).click();
```

```
        // driver.findElement(By.className("nav-input")).sendKeys("redmi");
```

```
        List<WebElement> links = driver.findElements(By.xpath("//a"));
```

```
        int linkCount = links.size();
        Total = Total + links.size();
```

```
        System.out.println("Number of Links: " + linkCount);
```

```
        for (int i = 1; i < links.size(); i++) {
            System.out.println(links.get(i).getText());
        }
```

```
        System.out.println("\n\n\nSecond Link");
```

```
        /*----- Demo Converters com-----*/
```

```
        driver.findElement(By.linkText("Converters")).click();
        Thread.sleep(10000);
```

```
        // driver.findElement(By.className("nav-input")).sendKeys("redmi");
```

```
        List<WebElement> links1 = driver.findElements(By.xpath("//a"));
```

```

int linkCount1 = links1.size();
Total = Total + links1.size();

System.out.println("Number of Links:" + linkCount1);

for (int i = 1; i < links1.size(); i++) {
    System.out.println(links1.get(i).getText());
}

System.out.println("\n\nThird Link");

/*----- Demo Formulas com-----*/

driver.findElement(By.linkText("Formulas")).click();
Thread.sleep(10000);
// driver.findElement(By.className("nav-input")).sendKeys("redmi");

List<WebElement> links2 = driver.findElements(By.xpath("//a"));

int linkCount2 = links2.size();
Total = Total + links2.size();

System.out.println("Number of Links:" + linkCount2);

for (int i = 1; i < links2.size(); i++) {
    System.out.println(links2.get(i).getText());
}

System.out.println("\n\nFourth Link");

/*----- Demo Currencies com-----*/

driver.findElement(By.linkText("Currencies")).click();
Thread.sleep(10000);
// driver.findElement(By.className("nav-input")).sendKeys("redmi");

List<WebElement> links3 = driver.findElements(By.xpath("//a"));

int linkCount3 = links3.size();
Total = Total + links3.size();

System.out.println("Number of Links:" + linkCount3);

for (int i = 1; i < links3.size(); i++) {
    System.out.println(links3.get(i).getText());
}

System.out.println("\n\nFifth Link");

/*----- Demo Charts com-----*/

driver.findElement(By.linkText("Charts")).click();
Thread.sleep(10000);
// driver.findElement(By.className("nav-input")).sendKeys("redmi");

List<WebElement> links4 = driver.findElements(By.xpath("//a"));

int linkCount4 = links4.size();
Total = Total + links4.size();

System.out.println("Number of Links:" + linkCount4);

for (int i = 1; i < links4.size(); i++) {
    System.out.println(links4.get(i).getText());
}

```

```

System.out.println("\n\nSixth Link");

/*----- Demo Charts com-----*/

driver.findElement(By.linkText("Examples")).click();
Thread.sleep(10000);
// driver.findElement(By.className("nav-input")).sendKeys("redmi");

List<WebElement> links5 = driver.findElements(By.xpath("//a"));

int linkCount5 = links5.size();
Total = Total + links5.size();

System.out.println("Number of Links:" + linkCount5);

for (int i = 1; i < links5.size(); i++) {
    System.out.println(links5.get(i).getText());
}

System.out.println("\n\nSeventh Link");

/*----- Demo Tutorials com-----*/

driver.findElement(By.linkText("Tutorials")).click();
Thread.sleep(10000);
// driver.findElement(By.className("nav-input")).sendKeys("redmi");

List<WebElement> links6 = driver.findElements(By.xpath("//a"));

int linkCount6 = links6.size();
Total = Total + links6.size();

System.out.println("Number of Links:" + linkCount6);

for (int i = 1; i < links6.size(); i++) {
    System.out.println(links6.get(i).getText());
}

System.out.println("\n\nEighth Link");

/*----- Demo Answers com-----*/

driver.findElement(By.linkText("Answers")).click();
Thread.sleep(10000);
// driver.findElement(By.className("nav-input")).sendKeys("redmi");

List<WebElement> links7 = driver.findElements(By.xpath("//a"));

int linkCount7 = links7.size();
Total = Total + links7.size();

System.out.println("Number of Links:" + linkCount7);

for (int i = 1; i < links7.size(); i++) {
    System.out.println(links7.get(i).getText());
}

System.out.println("\n\nNinth Link");

/*----- Demo Others com-----*/

driver.findElement(By.linkText("Others")).click();
Thread.sleep(10000);
// driver.findElement(By.className("nav-input")).sendKeys("redmi");

List<WebElement> links8 = driver.findElements(By.xpath("//a"));

```

```

        int linkCount8 = links8.size();
        Total = Total + links8.size();

        System.out.println("Number of Links:" + linkCount8);

        for (int i = 1; i < links8.size(); i++) {
            System.out.println(links8.get(i).getText());
        }

        System.out.println("Total no of links in websites-" + Total);
    }

    @AfterTest
    public void tearDown() {
        System.out.println(driver.getTitle());
        driver.quit();
    }
}

```

LocatorLink

package LocatorasDemo;

import java.util.List;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.Test;

```

public class LocatorLink {
    @Test
    public void TestLink() {

        System.setProperty("webdriver.chrome.driver",
            "D:\\Selenium\\Selenium Browsers Jars\\Chrome 84\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();

        driver.navigate().to("https://www.easycalculation.com");

        List<WebElement> links=driver.findElements(By.xpath("//a"));
        int nlinks=links.size();
        System.out.println("No.Of links in Calculation: " +nlinks);
        for(int i=0;i<links.size();i++) {
            System.out.println(links.get(i).getText());

            String str=links.get(i).getText();
            String str1="Love Calculator";
            if(str.equals(str1)) {
                driver.findElement(By.linkText("Love Calculator")).click();

            }

            driver.findElement(By.xpath("//*[@id=\"alarmContentDisplay\"]/div[1]/div[6]/div[2]/div[1]/ul/li[2]/a")).click();

        }
    }
}

```

LocatorsByName

```
package LocatorasDemo;
```

```
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.Test;
```

```
public class LocatorsByName {
    @Test
    public void TestRegister()
    {
        System.setProperty("webdriver.chrome.driver",
            "D:\\Selenium\\Selenium Browsers Jars\\Chrome 84\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.navigate().to("http://www.newtours.demoaut.com/mercuryregister.php");
        driver.findElement(By.name("firstName")).sendKeys("aparna");
        driver.findElement(By.name("lastName")).sendKeys("kadire");
        driver.findElement(By.name("phone")).sendKeys("9704772567");
        driver.findElement(By.name("userName")).sendKeys("aparna kaderi");
        driver.findElement(By.name("address1")).sendKeys("Byrapuram");
        driver.findElement(By.name("address2")).sendKeys("Nandikotkur");
        driver.findElement(By.name("city")).sendKeys("Kurnool");
        driver.findElement(By.name("state")).sendKeys("AP");
        driver.findElement(By.name("postalCode")).sendKeys("518405");
        driver.findElement(By.name("country")).sendKeys("India");
        driver.findElement(By.name("email")).sendKeys("aparnakaderi@gmail.com");
        driver.findElement(By.name("password")).sendKeys("aparna1234");
        driver.findElement(By.name("confirmPassword")).sendKeys("aparna1234");

        driver.findElement(By.xpath("/html/body/div/table/tbody/tr/td[2]/table/tbody/tr[4]/td/table/tbody/tr/td[2]/table/tbody/tr[5]/td/form/table/tbody/tr[18]/td/input\r\n" +
            "")).click();
        driver.findElement(By.linkText("CONTACT")).click();
        driver.findElement(By.xpath("/html/body/div/table/tbody/tr/td[2]/table/tbody/tr[4]/td/table"));
    }
}
```

```
package LocatorasDemo;
```

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

```
public class NameAttribute
{
    public static void main (String arg[]) throws Exception
    {
        /*System.setProperty("webdriver.chrome.driver", "D:\\Selenium\\Selenium Browsers Jars\\Chrome 84\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.get("http://automationpractice.com/index.php");
        driver.manage().window().maximize();
        driver.findElement(By.xpath("//*[@id='block_top_menu']/ul/li[3]/a")).click();
        driver.findElement(By.id("layered_id_attribute_group_1")).click();
        */

        /*
        System.setProperty("webdriver.chrome.driver", "D:\\Selenium\\Selenium Browsers Jars\\Chrome 83\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.get("file:///C:/Users/bnft/Desktop/id.html");
        driver.manage().window().maximize();
        */
    }
}
```

```

        driver.findElement(By.name("username")).sendKeys("raghavendra");
        driver.findElement(By.name("password")).sendKeys("raghu");
        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id='login']/input[3]")).click();

        driver.quit();*/

        System.setProperty("webdriver.chrome.driver", "D:\\Selenium\\Selenium Browsers Jars\\Chrome 84\\chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.get("file:///C:/Users/bnuf/Desktop/Name.html");
        driver.manage().window().maximize();

        driver.findElement(By.name("")).sendKeys("");
        driver.findElement(By.name("password")).sendKeys("raghu");
        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id='login']/input[3]")).click();

        driver.quit();
    }
}

```

TagLinkCount

/* TagLink Case Study:

```

* Step 1: Open URL by using any Browser Chrome, IE,
*           Firefox(https://store.webkul.com)
* Step 2: Use TestNG/Junit Annotations
* Step 3: Verify Title of Page and Validate PageTitle by Assertions
* Step 4: Count Number of Weblinks in Page and Print
**/

```

package LocatorasDemo;

import static org.testng.Assert.assertEquals;

import java.util.List;

```

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.AfterTest;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;

```

```

public class TagLinkCount {
    WebDriver driver;
    List<WebElement> list;
    int linkCount;

    @BeforeTest
    public void setUp() throws Exception {
        System.setProperty("webdriver.chrome.driver",
            "D:\\Selenium\\Selenium Browsers Jars\\Chrome 84\\chromedriver.exe");
        driver = new ChromeDriver();
        driver.manage().window().maximize();
    }

    @Test
    public void findElementByTagName() throws InterruptedException {
        driver.navigate().to("https://store.webkul.com");
        String actual = driver.getTitle();
        assertEquals(actual, "Premium Magento Prestashop Openerp Plugins & Themes - WebKul");
    }
}

```

```

        Thread.sleep(5000);

        list = driver.findElements(By.tagName("a"));
        System.out.println("Number of a links-" + list.size());

        for (int i = 0; i < list.size(); i++) {
            System.out.println(list.get(i).getText());
        }
        linkCount = list.size();
        System.out.println("Total no of links-" + linkCount);
    }

    @AfterTest
    public void tearDown() throws Exception {
        assertEquals(list.size(), linkCount);
        System.out.println(driver.getTitle());
        driver.quit();
    }
}

```