SmartCliff
CAREER MOBILITY SOLUTIONS

We are on a mission to address the digital skills gap for 10 Million+ young professionals, train and empower them to forge a career path into future tech

Handling Multiple Elements and its Methods

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Using findElement and findElements

Using findElement

findElement():

This method uniquely finds a web element on the web page.

- Selenium Find Element command takes in the By object as the parameter and returns an object of type list Web Element in Selenium

- By object in turn can be used with various locator strategies such as find element by ID Selenium, Name, Class Name, XPATH etc

Syntax:

       1) WebElement elementName = driver.findElement (By.LocatorStrategy("LocatorValue"))

Using findElement (Contd.)

Various Locators for finding WebElements:

1**. By ID**

Syntax: driver.findElement(By.id(<element ID>))

2*.* **By Name**

Syntax :driver.findElement(By.name(<element-name>))

3*.* **By Class Name**

Syntax : driver.findElement(By.className(<element-class>))

4*.* **By TagName**

Syntax : driver.findElement(By.tagName(<html tag name>))

Using findElement (Contd.)

5. By LinkText

Syntax :

driver.findElement(By.linkText(<link text>))
driver.findElement(By.partialLinkText(<link text>))

6. By cssSelector

Syntax : driver.findElement(By.cssSelector(<css-selector>))

7. By cssSelector

Syntax: driver.findElement(By.cssSelector(<css-selector>))

Using findElements

findElements():

- It fetches the list of all the elements matching the given locator.

- If the element is not available on the page then, the return an empty list is returned

Syntax:

List<WebElement> linklist = driver.findElements(By.xpath("//table/tr"));

Handling List

Handling List

To get the list of web elements:

Syntax:

List<WebElement> elementName = driver.findElements(By.LocatorStrategy("LocatorValue")

Example:

List<WebElement> gender = driver.findElements(By.name("gender"))

Handling Auto Suggestions

Handling Auto Suggestions

- Find multiple elements and store them in a List with the Knowledge of extracting WebElement using xpath/ CSS Selector
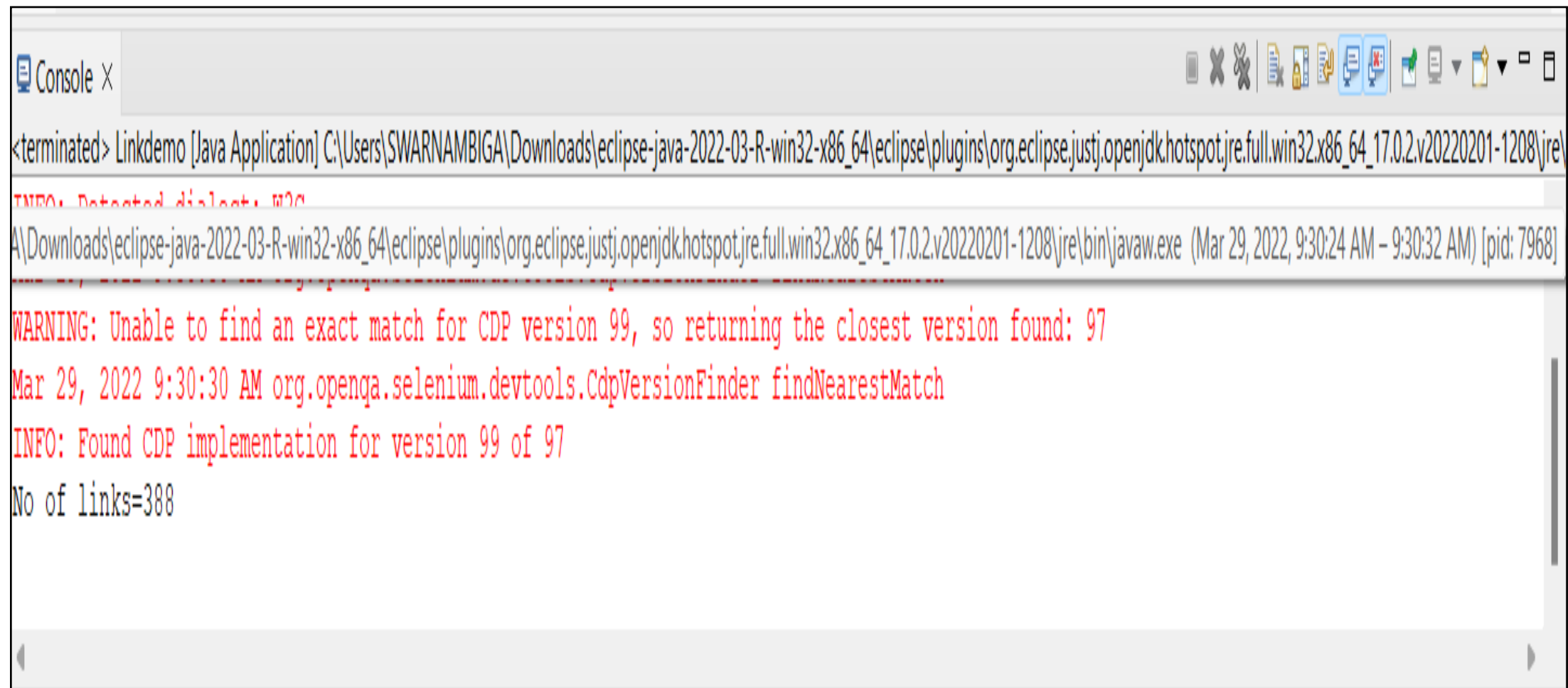
Syntax:

1) List<WebElement> elementName=

   driver.findElements(By.LocatorStrategy("LocatorValue"))

2) for (WebElement element: elementName) {

       if (element.getText().equalsIgnoreCase("search word")) {

         element.click();

         break;}

}

Program 1

```
public class Linkdemo {
public static void main(String[] args) {
// TODO Auto-generated method stub
        System.setProperty("webdriver.chrome.driver","c:\\Drivers\\chromedriver.exe");
        WebDriver driver=new ChromeDriver();
        driver.navigate().to("http://www.amazon.in");

        List<WebElement>no_of_links=driver.findElements(By.tagName("a"));
        System.out.println("No of links="+no_of_links);
}
}
```

Program 2

```
public class Autocompletedemo {

public static void main(String[] args) throws InterruptedException {
// TODO Auto-generated method stub
System.setProperty("webdriver.chrome.driver","c:\\Drivers\\chromedriver.exe");
WebDriver driver=new ChromeDriver();
driver.get("https://www.globalsqa.com/demo-site/auto-complete/");
Thread.sleep(3000);
WebElement inputBox=driver.findElement(By.id("search"));
inputBox.click();
inputBox.sendKeys("a");
Thread.sleep(3000);
```

Program 2 (Contd.)

```
System.out.println(options.size());

for (WebElement listElement : options) {

if(listElement.getText().equals("anders"))

{

listElement.click();

break;

}



}

}
```

Quiz

1) **Which method is used to select more webelements in a single statement?**

a) getElement()

b) getElements()

c) findElement()

d) findElements()

Answer : Option d)

Quiz

2) **How to access multiple windows in selenium?**

a) getWindowHandle

b) getWindowHandles

c) getMutipleWindows

d) Both b and c

Answer : Option b)

Quiz

3) Which tag is used to define options in a drop-down selection list?

a) <select>

b) <option>

c) <list>

d) <dropdown>

Answer : Option b)

Quiz

4) **Which Option is used to select an option based on visible text?**

a) selectByText

b) selectText

c) selectByVisibleText

d) selectByValue

Answer : Option c)

THANK YOU

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