Selenium

Class 5

Agenda

Working with DropDowns

DropDown & Multiple Select Operation

- DropDown & Multiple Select Operations also works together and almost the same way.

- To perform any action, the first task is to identify the element group. It is a group, as DropDown /Multiple Select is not a single element.

- They always have a single name but they contains one or more than one elements in them/more than one option in DropDown and Multiple Select.

- The only difference between these two is deselecting statement & multiple selections are not allowed on DropDown

DropDown & Multiple Select Operation

To work with drop down we can choose it by ID, Name, Css & Xpath etc.

To perform any action on drop down element it is required to import **'import org.openqa.selenium.support.ui.Select'** package and to use it we need to create a new Select Object of class Select.

Selenium webdriver provides Select class, with help of select class we can handle dropdowns on the webpage
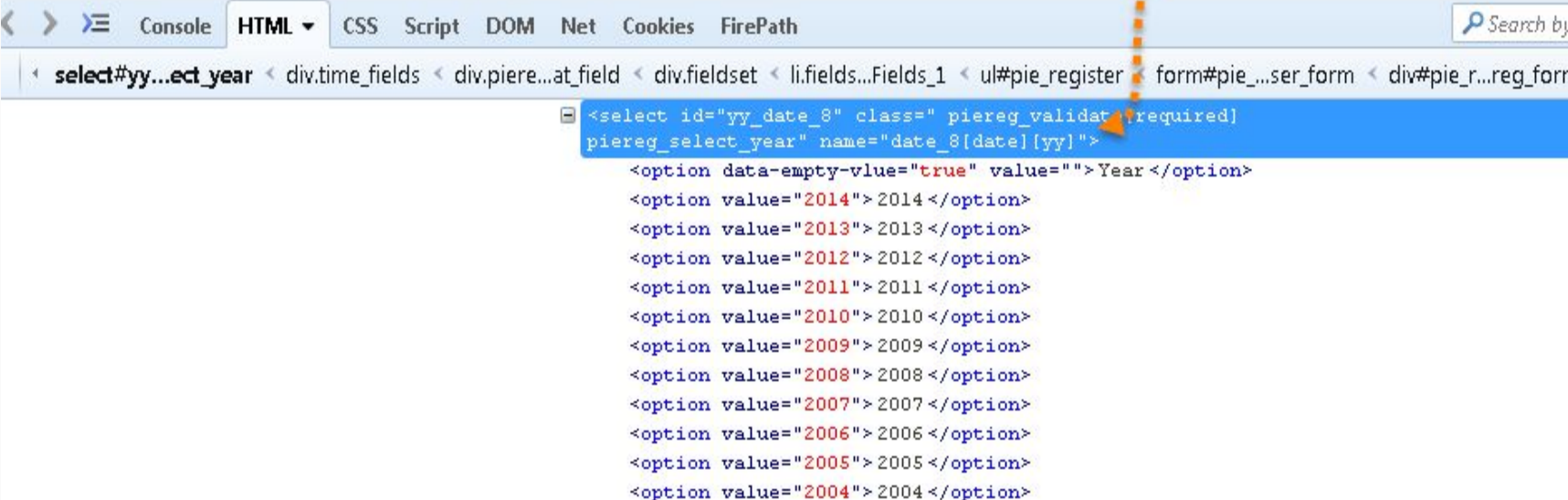
Select s = new Select()

Drop Down with Select Class

Date of Birth

3 | Day | Year

Phone Number

| ‹ › ⤵ Console | HTML ▾ | CSS | Script | DOM | Net | Cookies | FirePath | 🔍 Search by |

‹ **select#yy...ect_year** ‹ div.time_fields ‹ div.piere...at_field ‹ div.fieldset ‹ li.fields...Fields_1 ‹ ul#pie_register ‹ form#pie_...ser_form ‹ div#pie_r...reg_forr

```
<select id="yy_date_8" class=" piereg_validat [required]
piereg_select_year" name="date_8[date][yy]">
    <option data-empty-vlue="true" value="">Year</option>
    <option value="2014">2014</option>
    <option value="2013">2013</option>
    <option value="2012">2012</option>
    <option value="2011">2011</option>
    <option value="2010">2010</option>
    <option value="2009">2009</option>
    <option value="2008">2008</option>
    <option value="2007">2007</option>
    <option value="2006">2006</option>
    <option value="2005">2005</option>
    <option value="2004">2004</option>
```

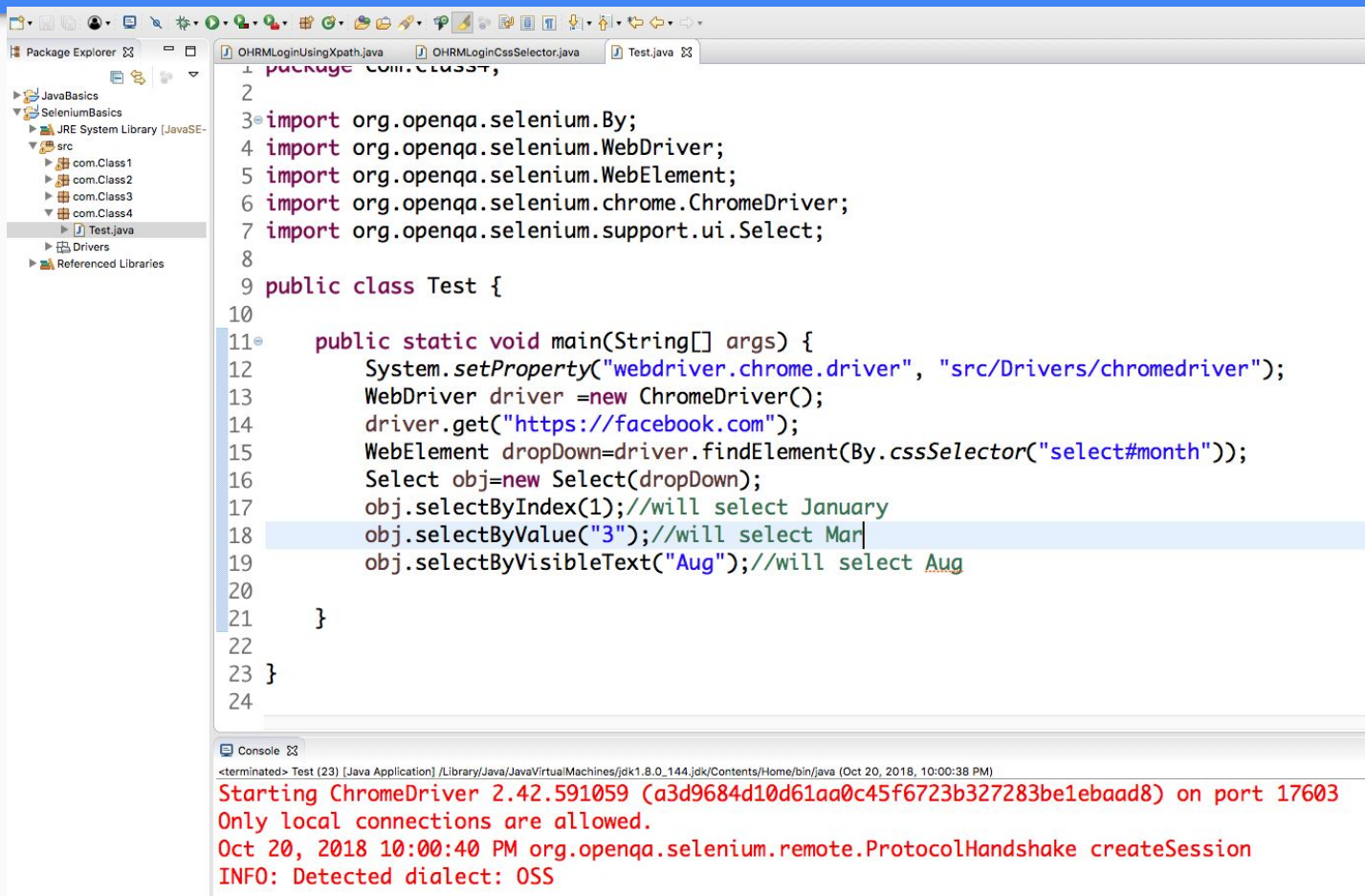# DropDown & Multiple Select Operation

Dropdown are formed using select tag in html, if dropdown **is not** formed with select tag you **cannot use this Select** Class methods in selenium.

To Handle Drop Down And Multi Select List in Selenium we use the following types of Select Methods:

- selectByVisibleText Method
- selectByIndex Method
- selectByValue Method

Note: **to verify if drop down allows multiple selection use method isMultiple();**

DropDown demo


```java
1  package com.class4;
2
3  import org.openqa.selenium.By;
4  import org.openqa.selenium.WebDriver;
5  import org.openqa.selenium.WebElement;
6  import org.openqa.selenium.chrome.ChromeDriver;
7  import org.openqa.selenium.support.ui.Select;
8
9  public class Test {
10
11     public static void main(String[] args) {
12         System.setProperty("webdriver.chrome.driver", "src/Drivers/chromedriver");
13         WebDriver driver =new ChromeDriver();
14         driver.get("https://facebook.com");
15         WebElement dropDown=driver.findElement(By.cssSelector("select#month"));
16         Select obj=new Select(dropDown);
17         obj.selectByIndex(1);//will select January
18         obj.selectByValue("3");//will select Mar
19         obj.selectByVisibleText("Aug");//will select Aug
20
21     }
22
23 }
24
```
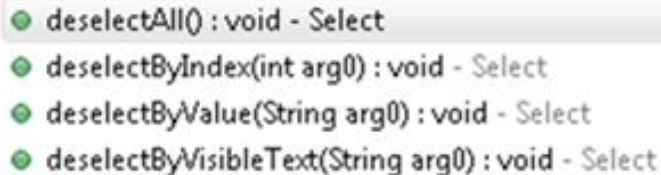
Console

<terminated> Test (23) [Java Application] /Library/Java/JavaVirtualMachines/jdk1.8.0_144.jdk/Contents/Home/bin/java (Oct 20, 2018, 10:00:38 PM)
Starting ChromeDriver 2.42.591059 (a3d9684d10d61aa0c45f6723b327283be1ebaad8) on port 17603
Only local connections are allowed.
Oct 20, 2018 10:00:40 PM org.openqa.selenium.remote.ProtocolHandshake createSession
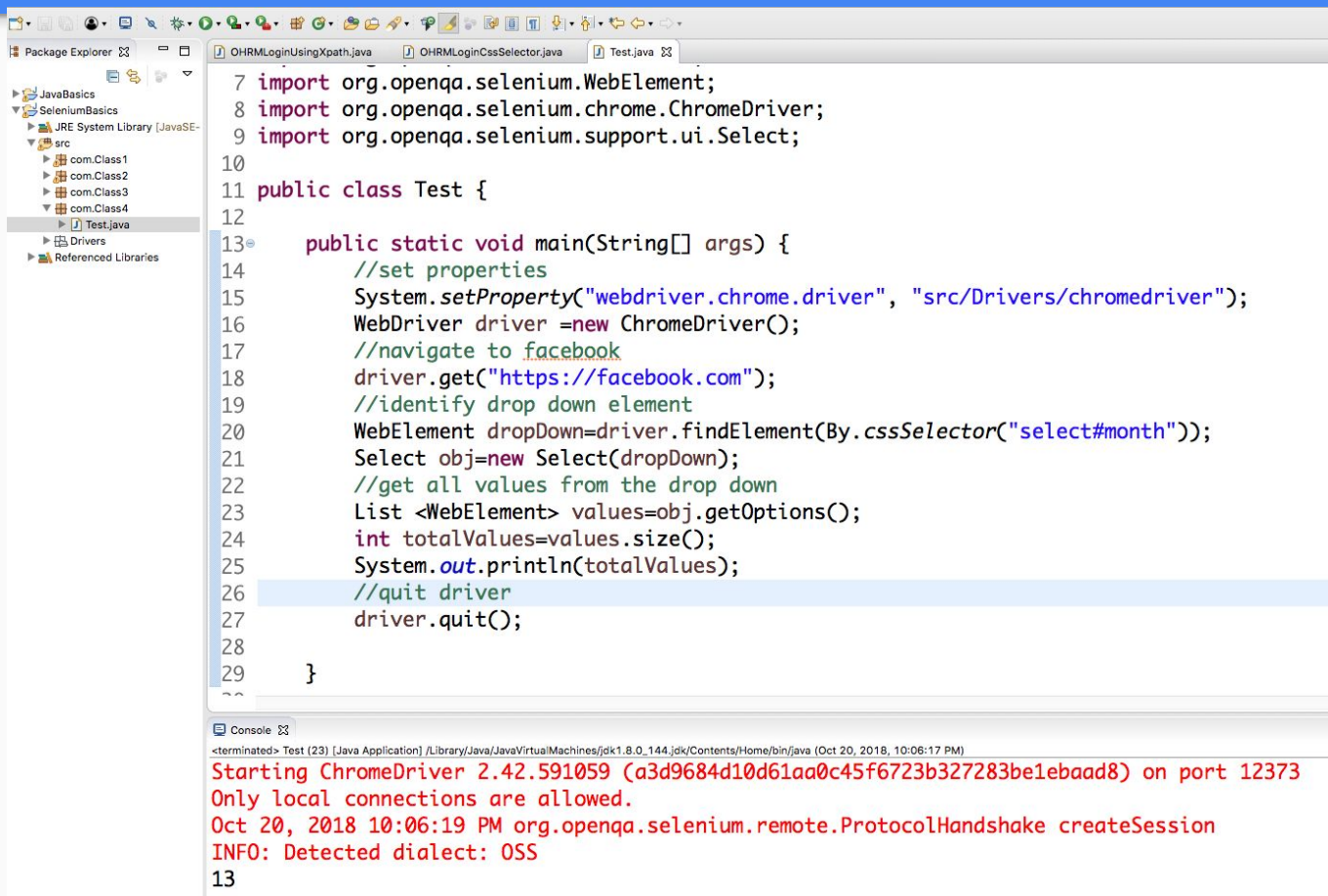INFO: Detected dialect: OSS

DropDown & Multiple Select Operation

getOptions( ) : List<WebElement> –This gets the all options belonging to the Select tag. It takes no parameter and returns List<WebElements>.

Command - oSelect.getOptions();

Sometimes you may like to count the element in the dropdown and multiple select box, so that you can use the loop on Select element.

DropDown getOptions()

DeSelect Methods

- The way we select different values of DropDown & Multi Select, the same way we can also **deselect** the values.
- But the only challenge is these methods **do not work for DropDown** and **only work for Multi Select elements.**
- In case you want to deselect any pre-selected option, that can be done with either deselectAll(), deselectByIndex, deselectByValue and deselectByVisibletext.

- deselectAll() : void - Select
- deselectByIndex(int arg0) : void - Select
- deselectByValue(String arg0) : void - Select
- deselectByVisibleText(String arg0) : void - Select

1. deselectAll( ) : void – Clear all selected entries. Valid when the SELECT supports multiple selections.
Command - `oSelect.deselectAll;`

2. deselectByIndex(int arg0) : void –Deselect the option at the given index.
Command - `oSelect.deselectByIndex;`

3. deselectByValue(String arg0) : void –Deselect all options that have a value matching the argument.
Command - `oSelect.deselectByValue;`

4. deselectByVisibleText(String arg0) : void – Deselect all options that display text matching the argument.
Command - oSelect.deselectByVisibleText

5. isMultiple( ) : boolean – Tells whether the SELECT element support multiple selecting options at the same time or not. It accepts nothing by returns boolean value(true/false).
Command - oSelect.isMultiple();
This is done by checking the value of the "multiple" attribute.