**Create Test Scripts in Selenium with Python**

* In this example, we did automation for "Facebook login page" using the Firefox driver.

**EXAMPLE 1**

from selenium import webdriver

fromselenium.webdriver.common.keys import Keys

user = ""

pwd = ""

driver = webdriver.Firefox()

driver.get("http://www.facebook.com")

assert "Facebook" in driver.title

elem = driver.find\_element\_by\_id("email")

elem.send\_keys(user)

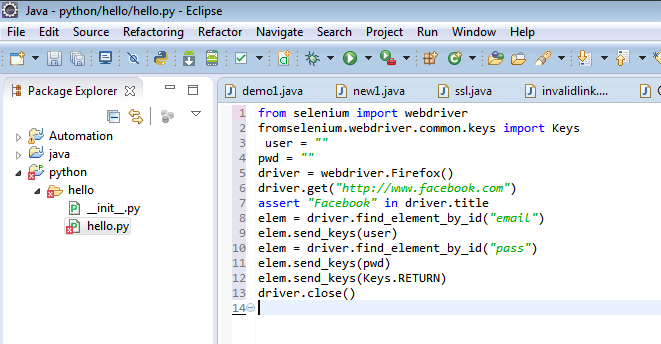
elem = driver.find\_element\_by\_id("pass")

elem.send\_keys(pwd)

elem.send\_keys(Keys.RETURN)

driver.close()

Snapshot of the Code

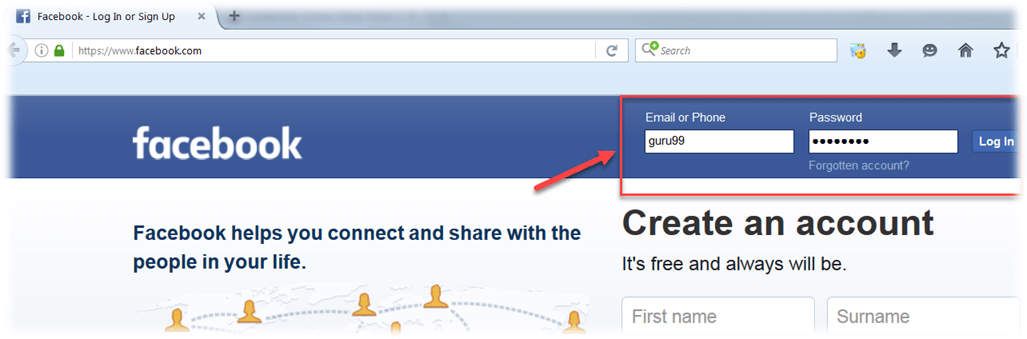
[](http://cdn.guru99.com/images/7-2016/072216_1035_UsingSeleni17.png)

**Explanation of the code**

* **Code line 1**: From selenium module import webdriver
* **Code line 2**: From selenium module import Keys
* **Code line 3**: User is a blank variable which will be we used to store values of username.
* **Code line 4**: pwd is also a blank (here it is empty, but the user can provide values in it) variable. This will be used to store values of the password.
* **Code line 5**: In this line, we are initializing "FireFox" by making an object of it.
* **Code line 6**: The "driver.get method" will explore to a page given by the URL.WebDriver will hold up until the page has completely been loaded (that is, the "onload" occasion has let go), before returning control to your test or script.
* **Code line 7**: "Asserts" keyword is used to verify the conditions. In this line, we are confirming whether the title is correct or not. For that, we will compare the title with the string which is given.
* **Code line 8**: In this line, we are finding the element of the textbox where the "email" has to be written.
* **Code line 9**: Now we are sending the values to the email section
* **Code line 10**: Same for the password
* **Code line 11**: Sending values to the password section
* **Code line 12**: Elem.send\_keys(Keys.RETURN) is used to press enter after the values are inserted
* **Code line 13**: Close

**OUTPUT**

The values of the username "guru99" and password entered.

[](http://cdn.guru99.com/images/7-2016/072216_1035_UsingSeleni18.png)

The Facebook page will login with email and password. Page opened (see image below)

[](http://cdn.guru99.com/images/7-2016/072216_1035_UsingSeleni19.png)

**EXAMPLE 2**

In this example,

* We will open a login page.
* Fill the required field"username" and "password".
* Then validate if the login was successful or not.

from selenium import webdriver

from selenium.common.exceptions import TimeoutException

browser = webdriver.Firefox()

browser.get( www.facebook.com )

username = browser.find\_element\_by\_id( "guru99" )

password = browser.find\_element\_by\_id( "password@123" )

submit = browser.find\_element\_by\_id( "submit" )

username.send\_keys( "me" )

password.send\_keys( "mykewlpass" )

submit.click()

wait = WebDriverWait( browser, 5 )

try:

page\_loaded = wait.until\_not(

lambda browser: browser.current\_url == login\_page

)

except TimeoutException:

self.fail( "Loading timeout expired" )

self.assertEqual(

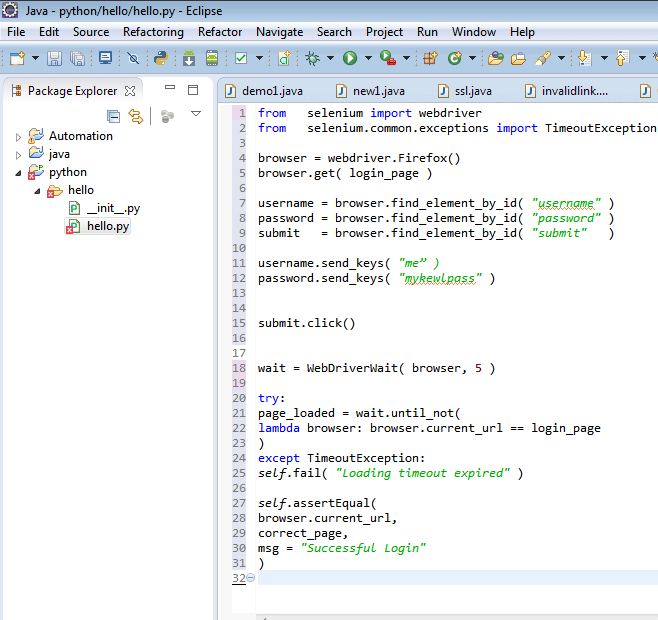
browser.current\_url,

correct\_page,

msg = "Successful Login"

)

**Snapshot of the code**

[](http://cdn.guru99.com/images/7-2016/072216_1035_UsingSeleni20.png)

**Explanation of the code:**

* **Code line 1-2**: Import selenium package
* **Code line 4**: Initialize Firefox by creating an object
* **Code line 5**: Get login page (Facebook)
* **Code line 7-9**: Fetch username, password input boxes and submit button.
* **Code line 11-12**: Input text in username and password input boxes
* **Code line 15**: Click on the "Submit" button
* **Code line 18**: Create wait object with a timeout of 5 sec.
* **Code line 20 -30:** Test that login was successful by checking if the URL in the browser changed. Assert that the URL is now the correct post-login page

**Note**: For the above scenarios there will be no output. Since no valid URL is used in the example.

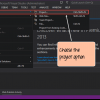
**Summary**:

* Selenium is an open-source web-based automation tool.
* Python language is used with Selenium for testing. It has far less verbose and easy to use than any other programming language
* The Python APIs empower you to connect with the browser through Selenium
* Selenium can send the standard Python commands to different browsers, despite variation in their browser's design.

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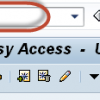
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