[What is JavaScriptExecutor in Selenium?](http://www.ufthelp.com/2014/11/what-is-javascriptexecutor-in-selenium.html)

What is JavaScriptExecutor?  
  
[JavaScriptExecutor](http://selenium.googlecode.com/git/docs/api/java/org/openqa/selenium/JavascriptExecutor.html) is an interface which provides mechanism to execute Javascript through selenium driver. It provides “executescript” & "executeAsyncScript" methods, to run JavaScript in the context of the currently selected frame or window.

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| [JavaScriptExecutor in Selenium](https://www.flickr.com/photos/93641603@N02/15818111855) |
| Lets inject Javascript into Browser using Selenium |

Why we use it?  
  
To enhance the capabilities of the existing scripts by performing javascript injection into our application under test.  
  
In simple words  “Javascript can be executed within the browser with the help of JavaScript Executor.”  
  
Package:-  
  
import org.openqa.selenium.JavascriptExecutor;  
  
Syntax:-

JavascriptExecutor js = (JavascriptExecutor) driver;

js.executeScript(Script,Arguments);

*script* - The JavaScript to execute  
*Arguments* - The arguments to the script.(Optional)  
  
  
Scenario’s  
  
1.How to generate *Alert Pop window* in selenium?  
  
Code:-

JavascriptExecutor js = (JavascriptExecutor)driver;

Js.executeScript("alert('hello world');");

2.How to *click a button* in Selenium WebDriver using JavaScript  
  
Code:-

JavascriptExecutor js = (JavascriptExecutor)driver;

js.executeScript("arguments[0].click();", element);

3.How to [refresh browser window](http://www.ufthelp.com/2014/11/Methods-Browser-Refresh-Selenium.html) using Javascript ?  
  
Code:-

JavascriptExecutor js = (JavascriptExecutor)driver;

driver.executeScript("history.go(0)");

4.How to get i*nnertext*of the entire webpage in Selenium?  
  
Code:-

JavascriptExecutor js = (JavascriptExecutor)driver;

string sText = js.executeScript("return document.documentElement.innerText;").toString();

5.How to get the*Title*of our webpage ?  
  
Code:-

JavascriptExecutor js = (JavascriptExecutor)driver;

string sText = js.executeScript("return document.title;").toString();

6.How to perform Scroll on application using  Selenium  
  
Code:-

JavascriptExecutor js = (JavascriptExecutor)driver;

//Vertical scroll - down by 50 pixels

js.executeScript("window.scrollBy(0,50)");

7.How to click on a SubMenu which is only visible on mouse hover on Menu?  
  
Code:-

JavascriptExecutor js = (JavascriptExecutor)driver;

//Hover on Automation Menu on the MenuBar

js.executeScript("$('ul.menus.menu-secondary.sf-js-enabled.sub-menu li').hover()");

8.[Implement Highlight in Selenium?](http://www.ufthelp.com/2014/11/how-to-implement-highlight-in-selenium.html)  
  
9.How to [navigate](http://www.ufthelp.com/2014/10/understanding-selenium-webdriver.html)to different page using Javascript?  
  
Code:-

JavascriptExecutor js = (JavascriptExecutor)driver;

//Navigate to new Page

js.executeScript("window.location = 'https://www.facebook.com/uftHelp'");

Working Demo:-

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.JavascriptExecutor;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

public class JavaScriptExecuter {

public static void main(String[] args) {

WebDriver driver = new FirefoxDriver();

//Launching the browser application

driver.get("http://www.uftHelp.com");

//Adding wait

driver.manage().timeouts().implicitlyWait(20, TimeUnit.SECONDS);

//Maximize window

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

//Creating the Javascriptexecutor interface object by Type casting

JavascriptExecutor js = (JavascriptExecutor)driver;

//Fetching the Domain Name

String sDomain = js.executeScript("return document.domain;").toString();

System.out.println("Domain = "+sDomain);

//Fetching the URL

String sURL = js.executeScript("return document.URL;").toString();

System.out.println("URL = "+sURL);

//Fetching the Title

String sTitle = js.executeScript("return document.title;").toString();

System.out.println("Title = "+sTitle);

//Vertical scroll - down by 200 pixels

js.executeScript("window.scrollBy(0,200)");

System.out.println("Successfully did the vertical scroll by 200px");

}