**ROBOT**

**OVERVIEW**

In some Selenium Automation tests, there is a need to control keyboard or mouse to interact with OS windows like Alert, upload, Download, Print pop-up and some OS applications like Notepad, Calculator etc. Selenium Webdriver cannot handle these OS pop-ups/applications. In Java version 1.3 **Robot class** was introduced to handle these. Robot is a class in the AWT package of Java. There are two packages required to import ROBOT class.

* Import java.awt.AWTException;
* Import java.awt.Robot;

**METHODS**

Popular methods used for file upload in ROBOT class are:

* keyPress()
* keyRelease()

1. **keypress():** This is used to press any key.

For eg. **robot.keyPress(KeyEvent.VK\_UP)**  - It will press UP key in the keyboard.

1. **keyRelease():**This is used to release the press key of keyboard.

For eg. **robot.keyRelease(KeyEvent.VK\_CAPS\_LOCK) -** It will release the pressed capslock key in the keyboard.

**FILE UPLOAD**

In order to upload a file using **ROBOT**,we have to use some keyboard events.

**STEP 1:** Copy the file location in the system clipboard.

**STEP 2:** Click on upload button.

**STEP 3:**  Paste the path using CTRL+V and press ENTER.

The test case will look like this

**package Test;**

**import java.awt.AWTException;**

**import java.awt.Robot;**

**import java.awt.Toolkit;**

**import java.awt.event.KeyEvent;**

**import java.io.IOException;**

**import [org.openqa.selenium.By](http://org.openqa.selenium.by/" \t "_blank);**

**import org.openqa.selenium.WebDriver;**

**import org.openqa.selenium.firefox.FirefoxDriver;**

**public class File\_upload**

**{**

**public static void main(String[] args) throws AWTException, IOException**

**{**

**WebDriver driver = new FirefoxDriver();**

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

**driver.get("**[**http://demoqa.com/**](http://demoqa.com/)**");**

**driver.findElement(By.id("menu-item-374")).click();**

**driver.findElement(By.xpath(".//\*[@id='profile\_pic\_10']")).click();**

**Robot file = new Robot();**

**file.keyPress(KeyEvent.VK\_CONTROL);**

**file.keyPress(KeyEvent.VK\_V);**

**file.keyRelease(KeyEvent.VK\_V);**

**file.keyRelease(KeyEvent.VK\_CONTROL);**

**file.keyPress(KeyEvent.VK\_ENTER);\*/**

**}**

**}**