UI Test Automation using Selenium WebDriver

Presented By:
Anik Barua, Shulin Yao

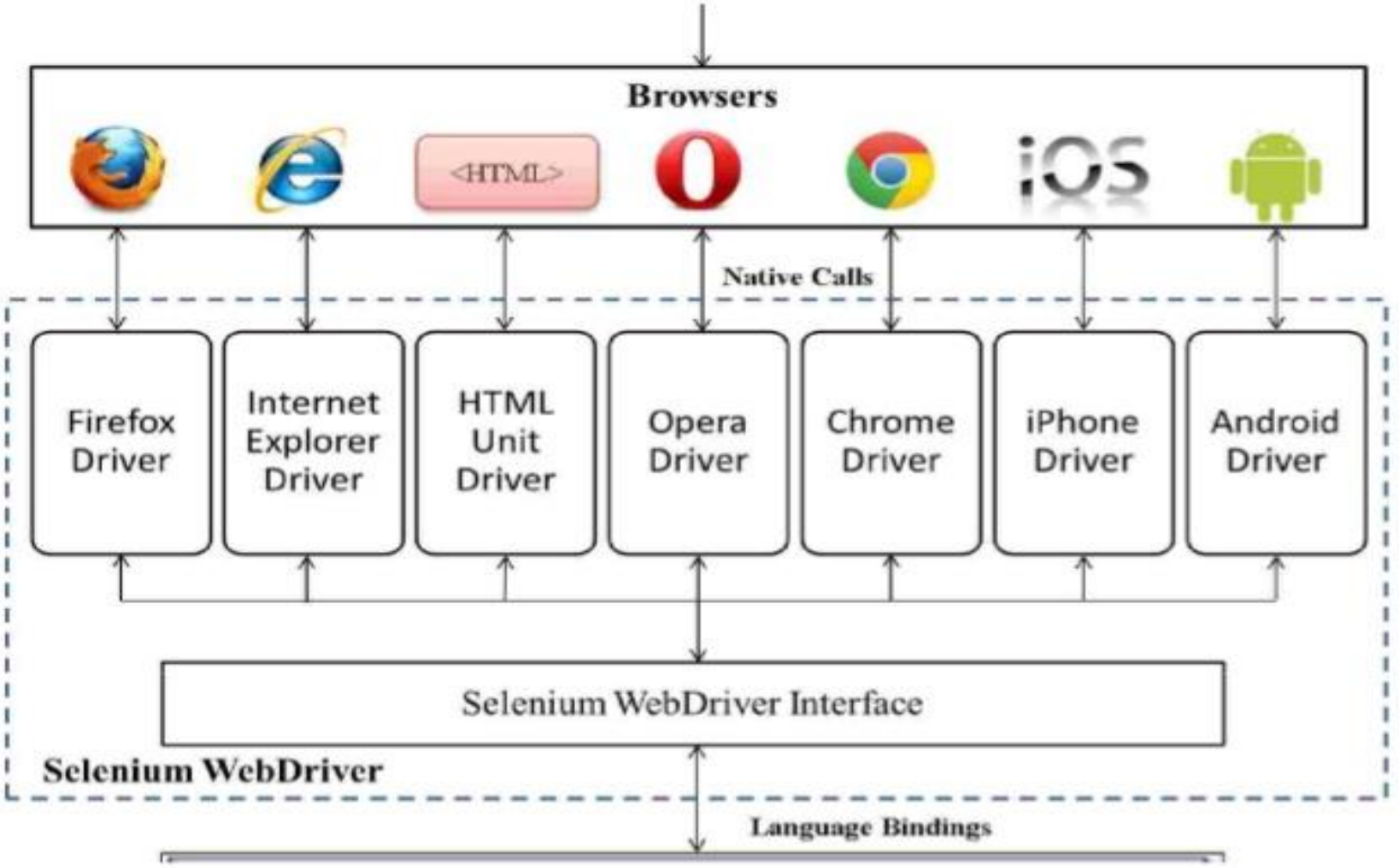
Selenium WebDriver

- A tool for automate web application testing - to verify that all the functions are working as expected
- Object oriented and friendly API - make a test easier to read and maintain
- Support multiple programming language - Java, C#, Python, Ruby, PHP, Perl…

Selenium WebDriver Supports…

Architecture of WebDriver

(WebDriver Interface and Implementing Class)



Methods & Locators

Methods: “findElement” is a method of Webdriver interface that can identify an element in the webpage

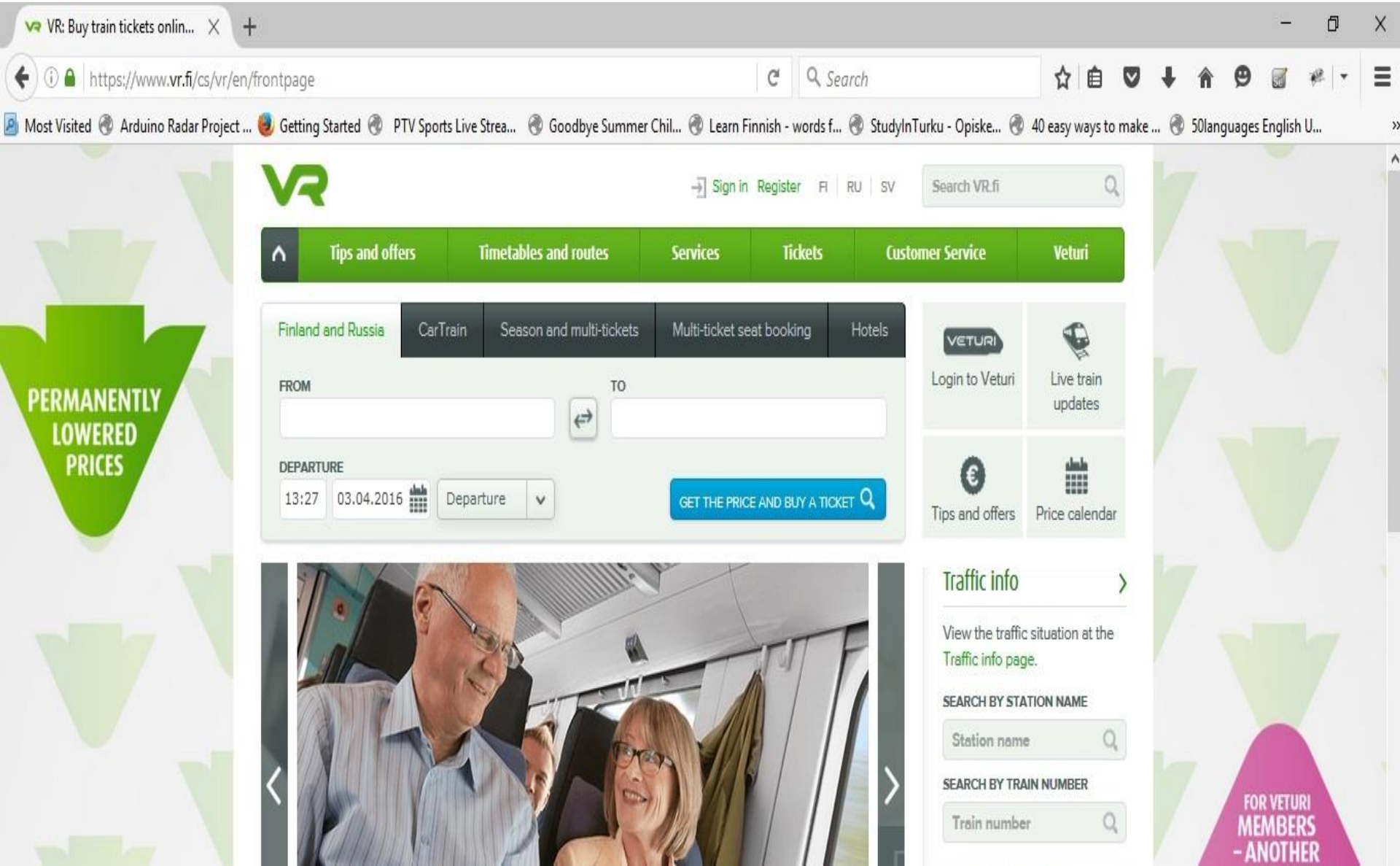
Locators:

1. By.id(arg)
2. By.name(String)
3. By.xpath(String xpathExpression)
4. By.cssSelector(String Selector)
5. By.linkText(String linkText)
6. By.partialLinkText(String linkText)
7. By.className(String className)
8. By.tagName(String Name)

Tool for Finding Web Elements

Firebug: http://getfirebug.com/

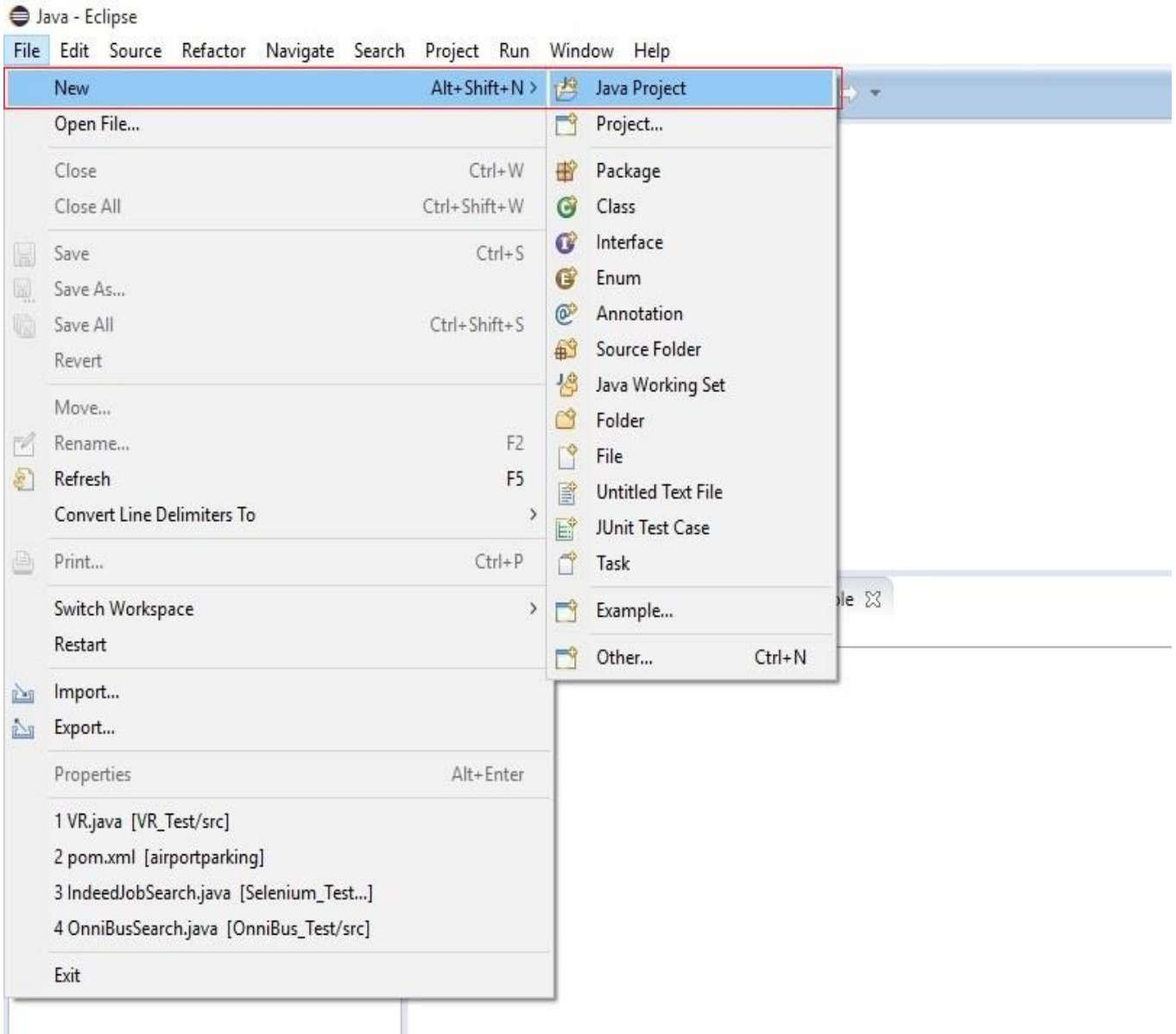
UI Test for VR Website



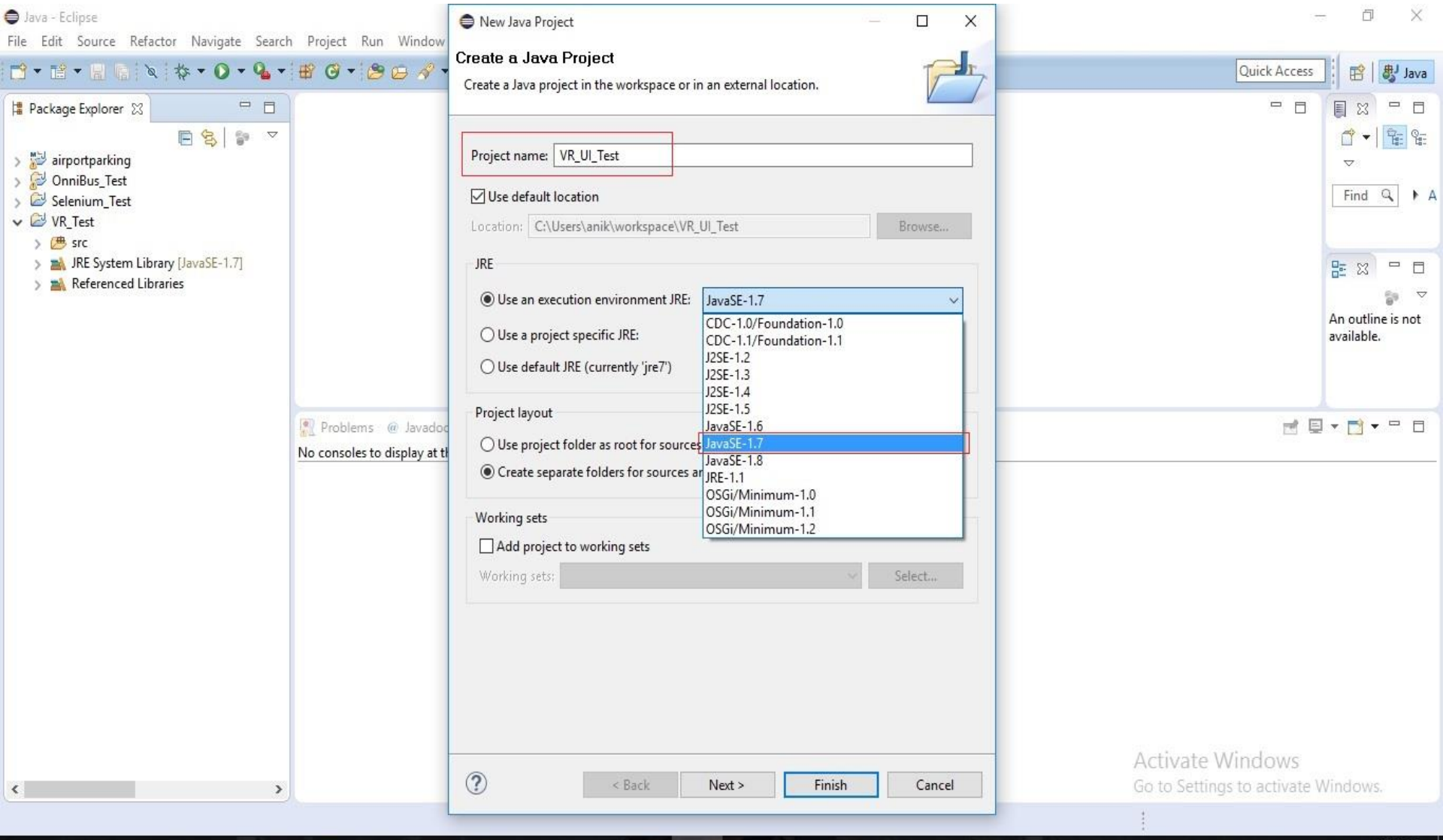
Work Flow

- ✓ Create new project for Testing
- ✓ Go to the VR site using Firefox
- ✓ Give input in “From” text box
- ✓ Give input in “To” text box
- ✓ Click on “Get the Price”
- ✓ Print the search result

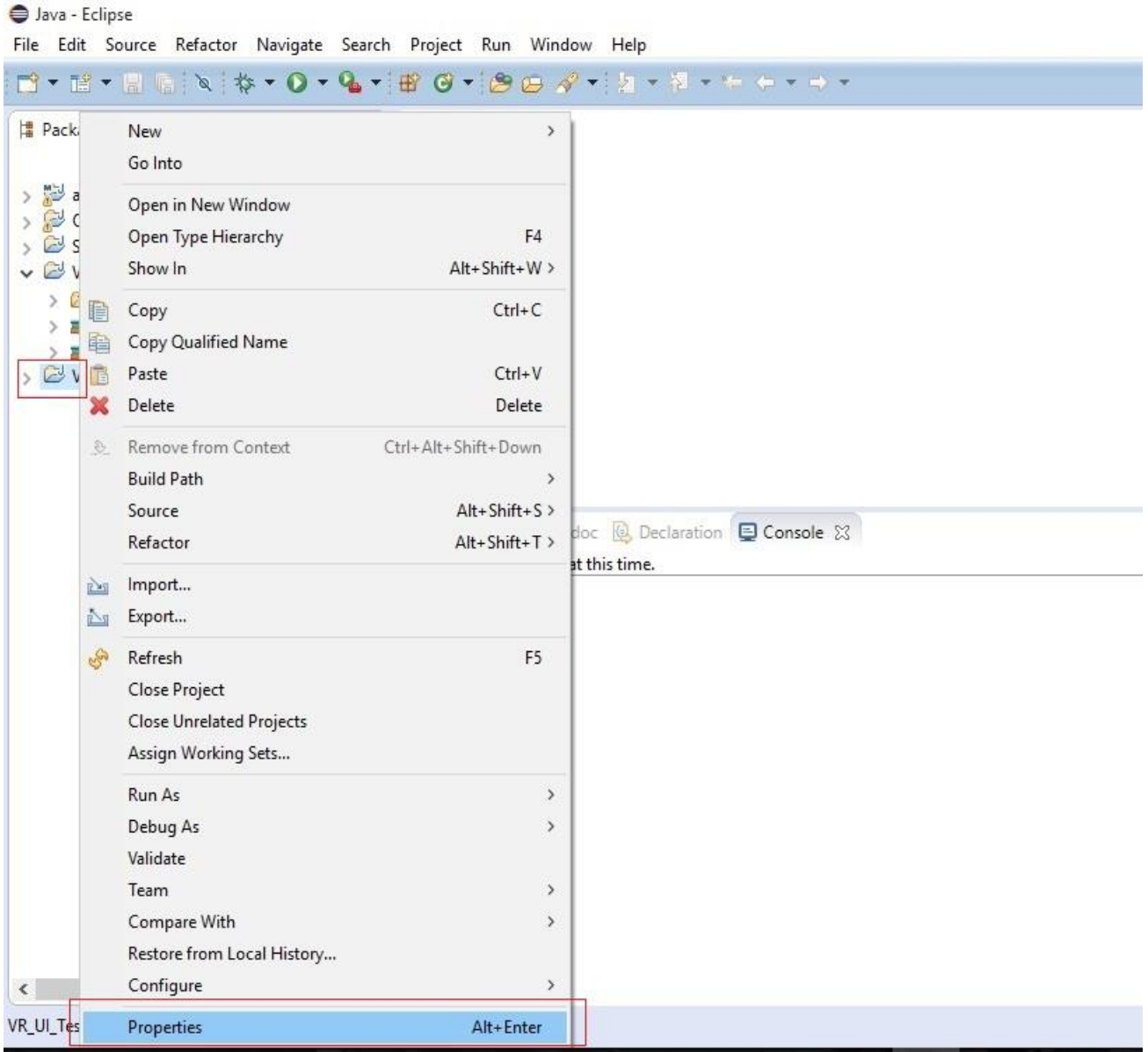
Create New Project



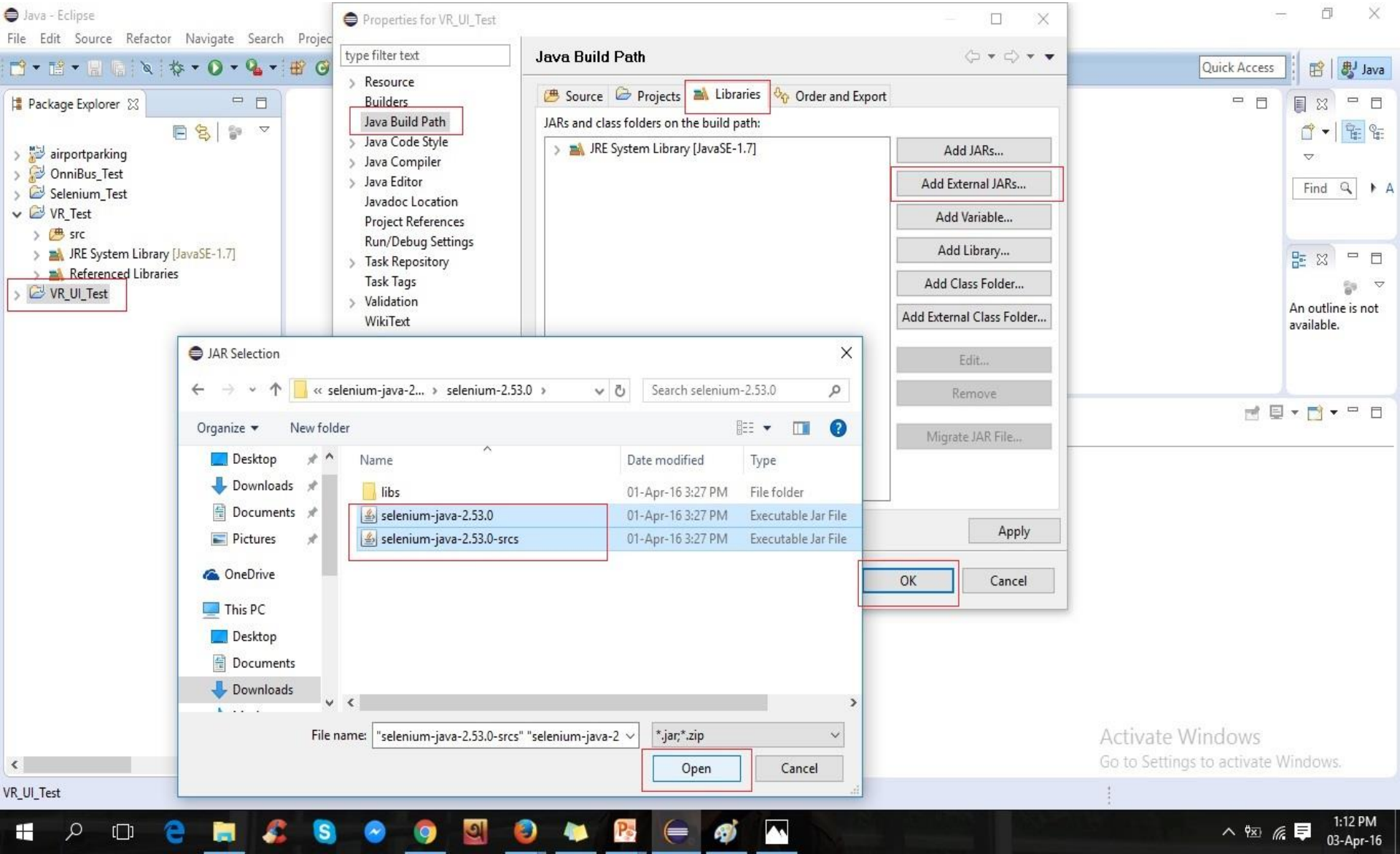
Project Name



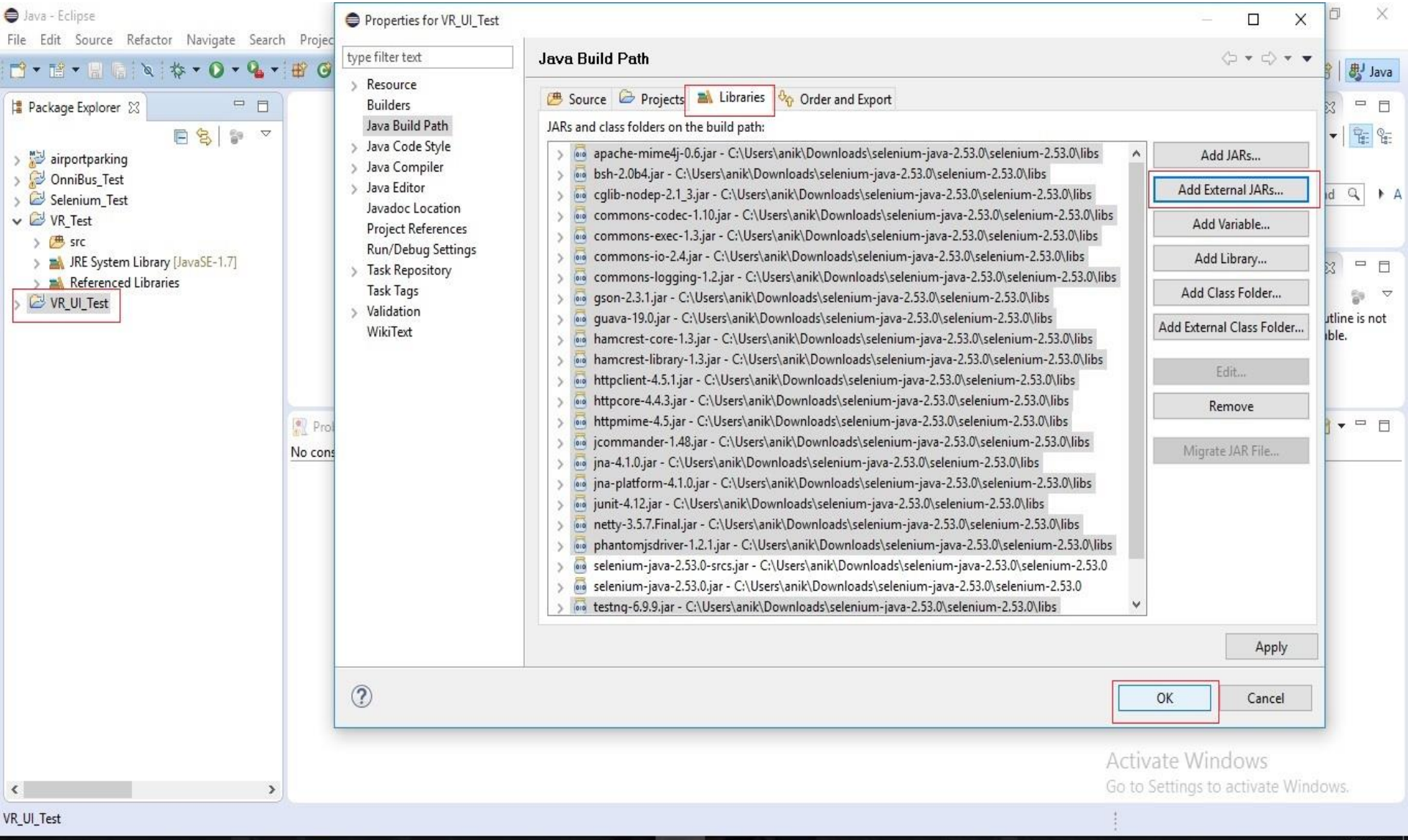
Including Selenium JAR



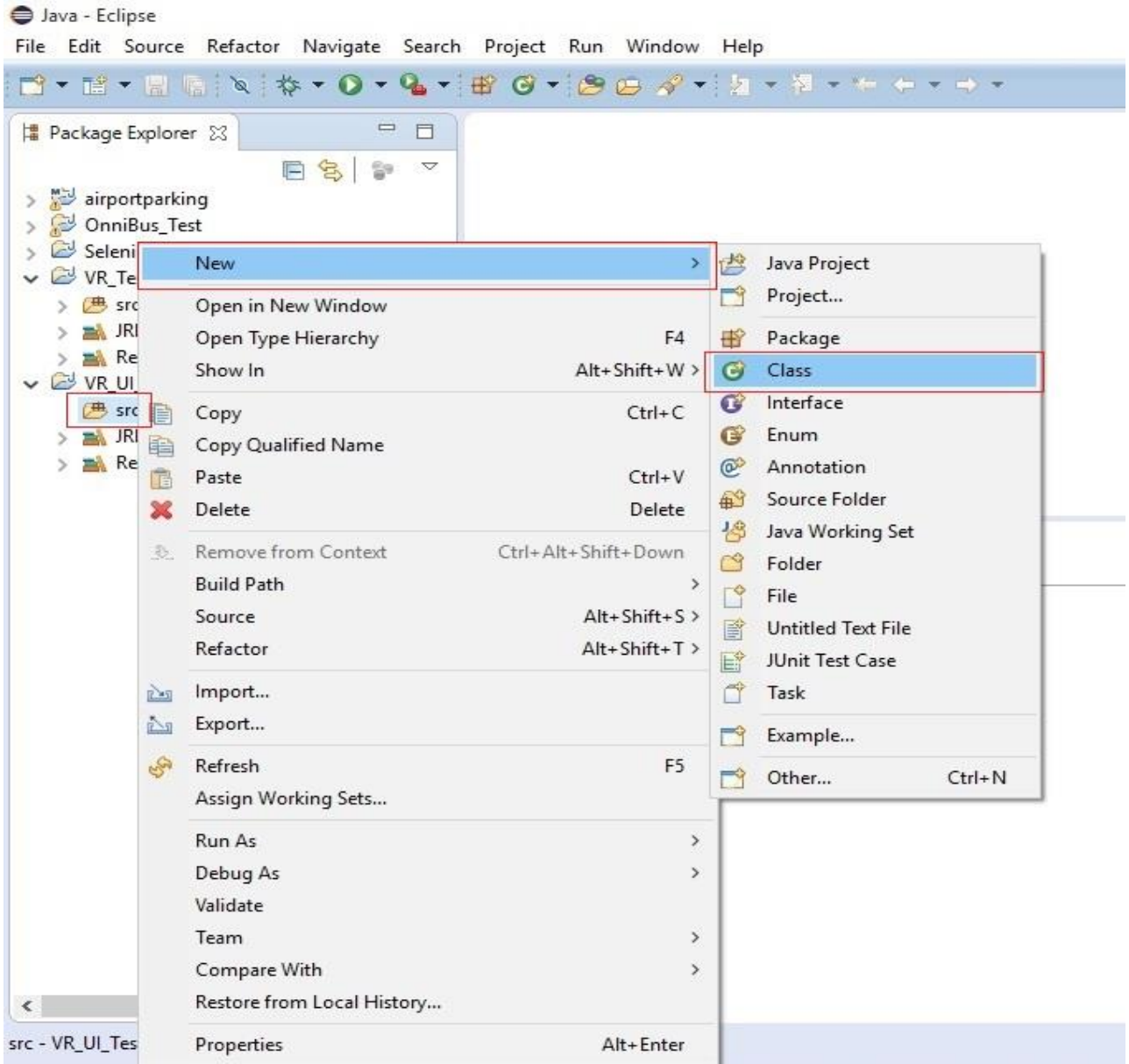
Including Selenium JAR



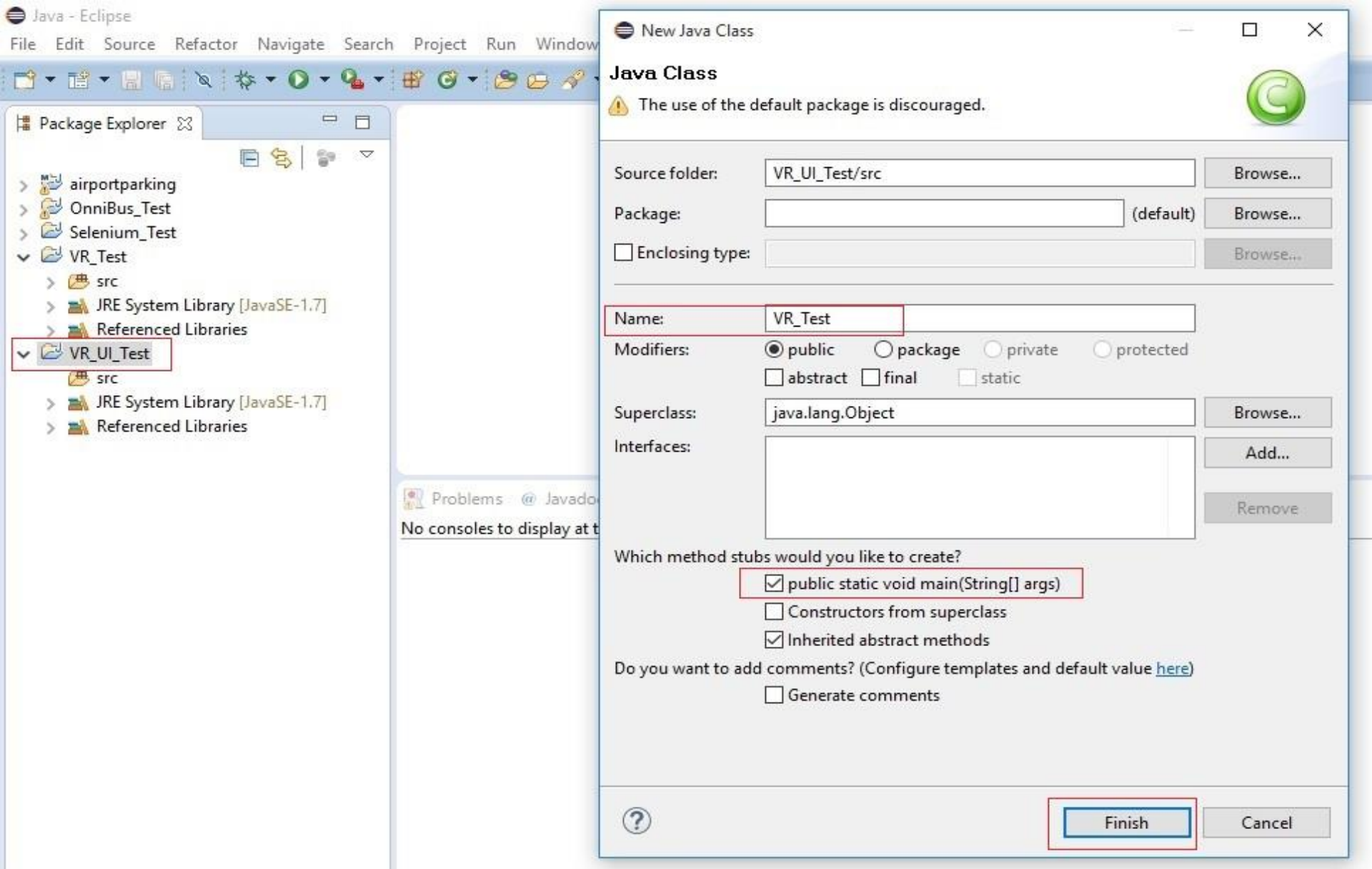
Including Selenium JAR



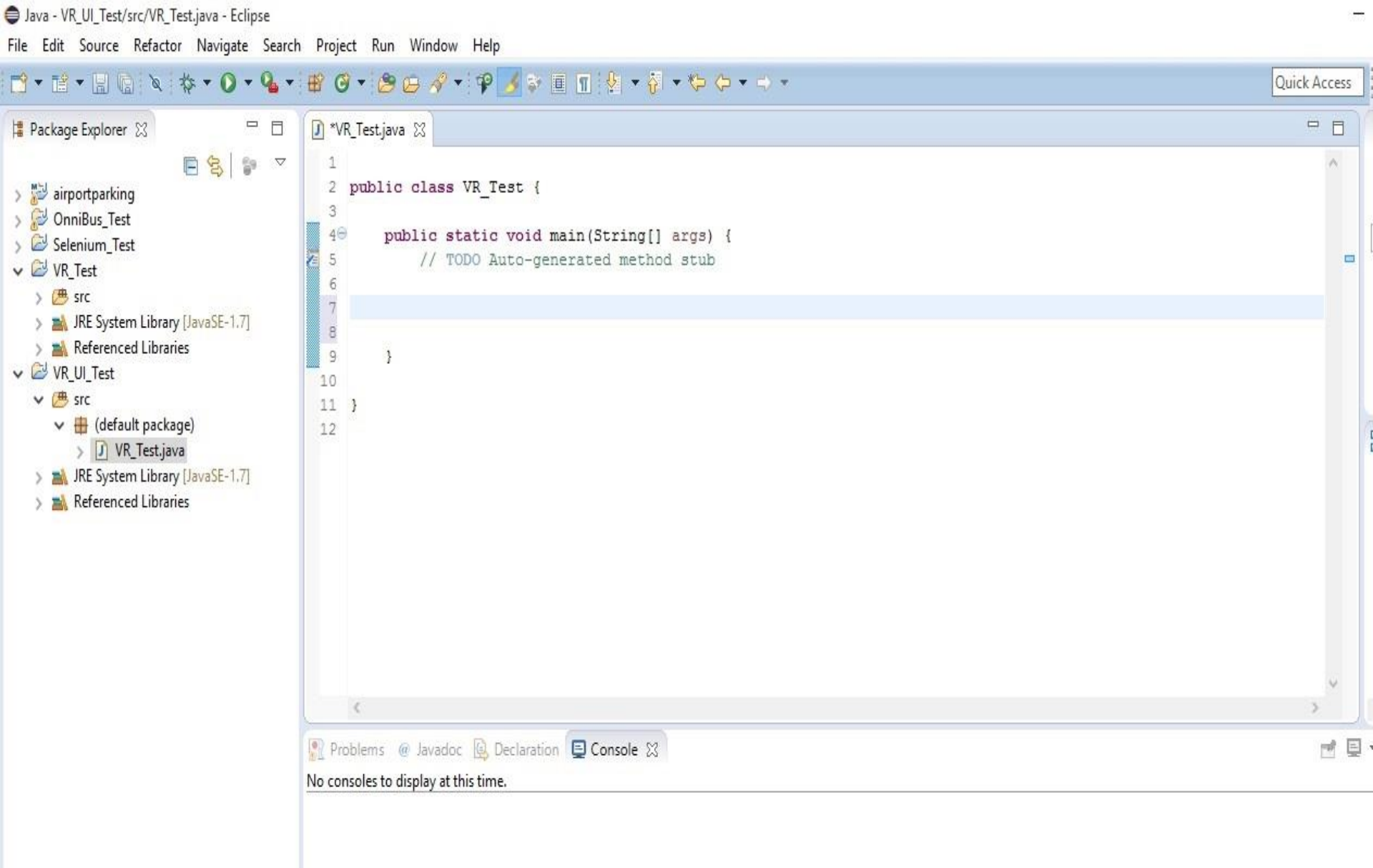
Create new Class



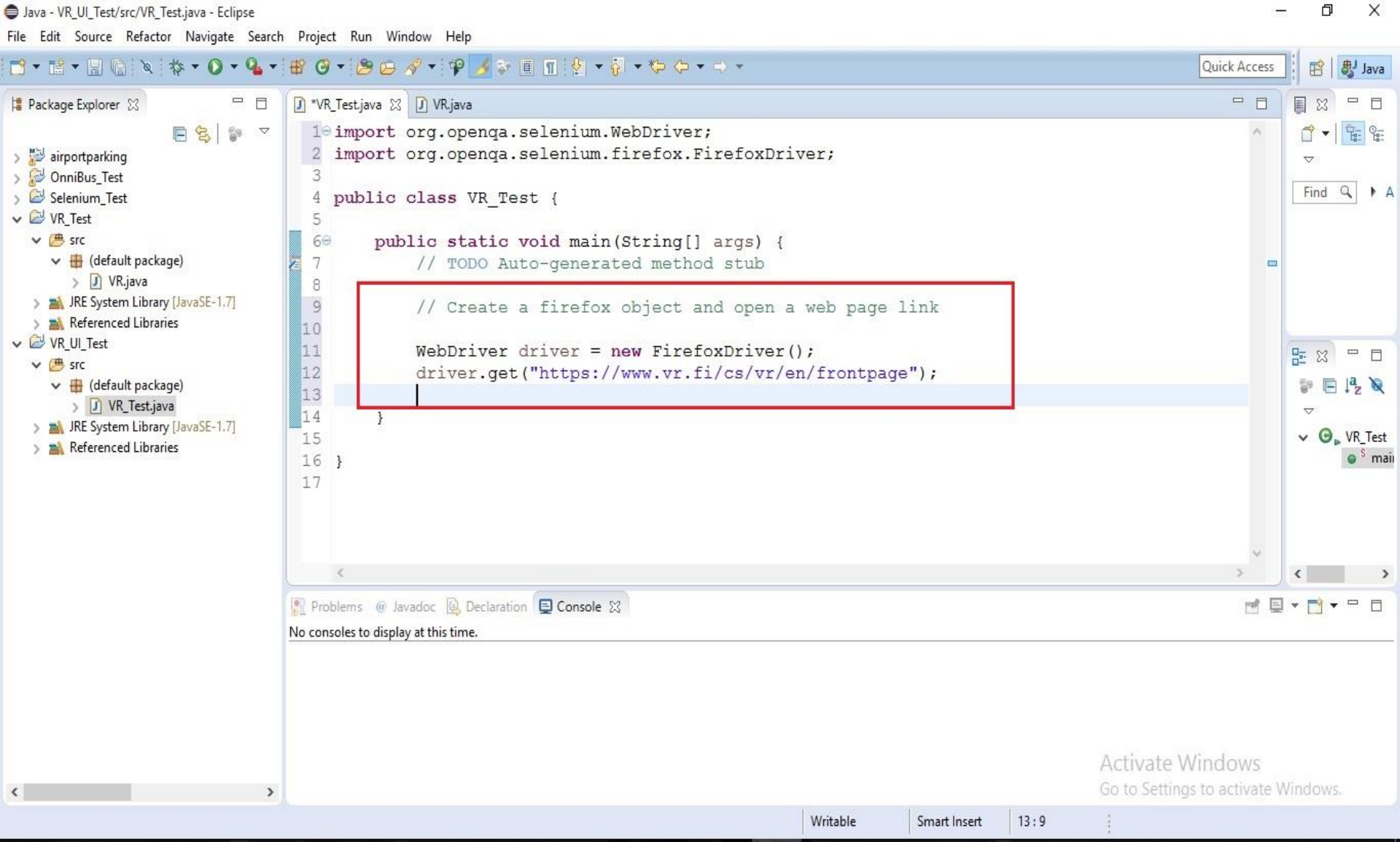
Create new Class



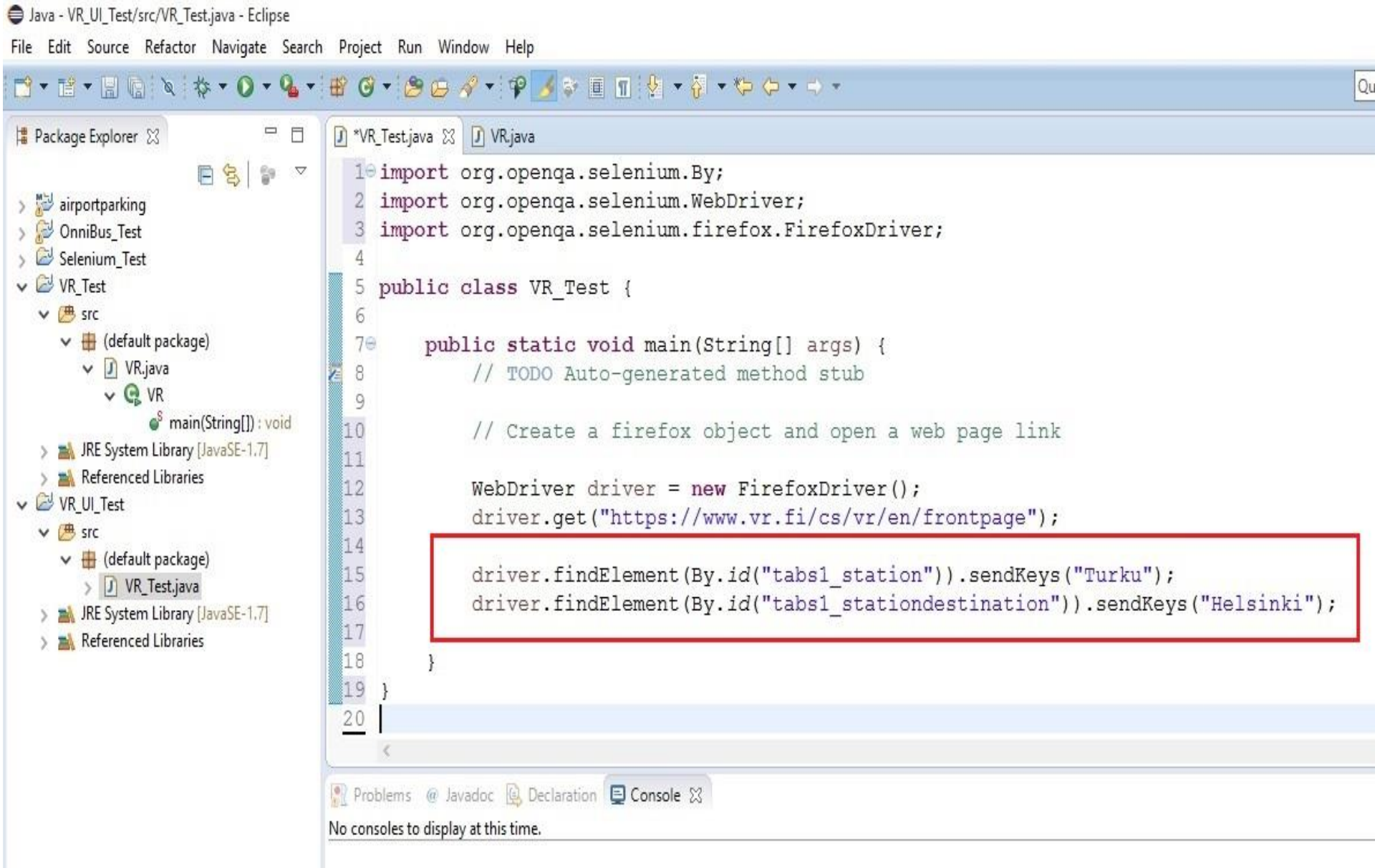
Writing test using Java



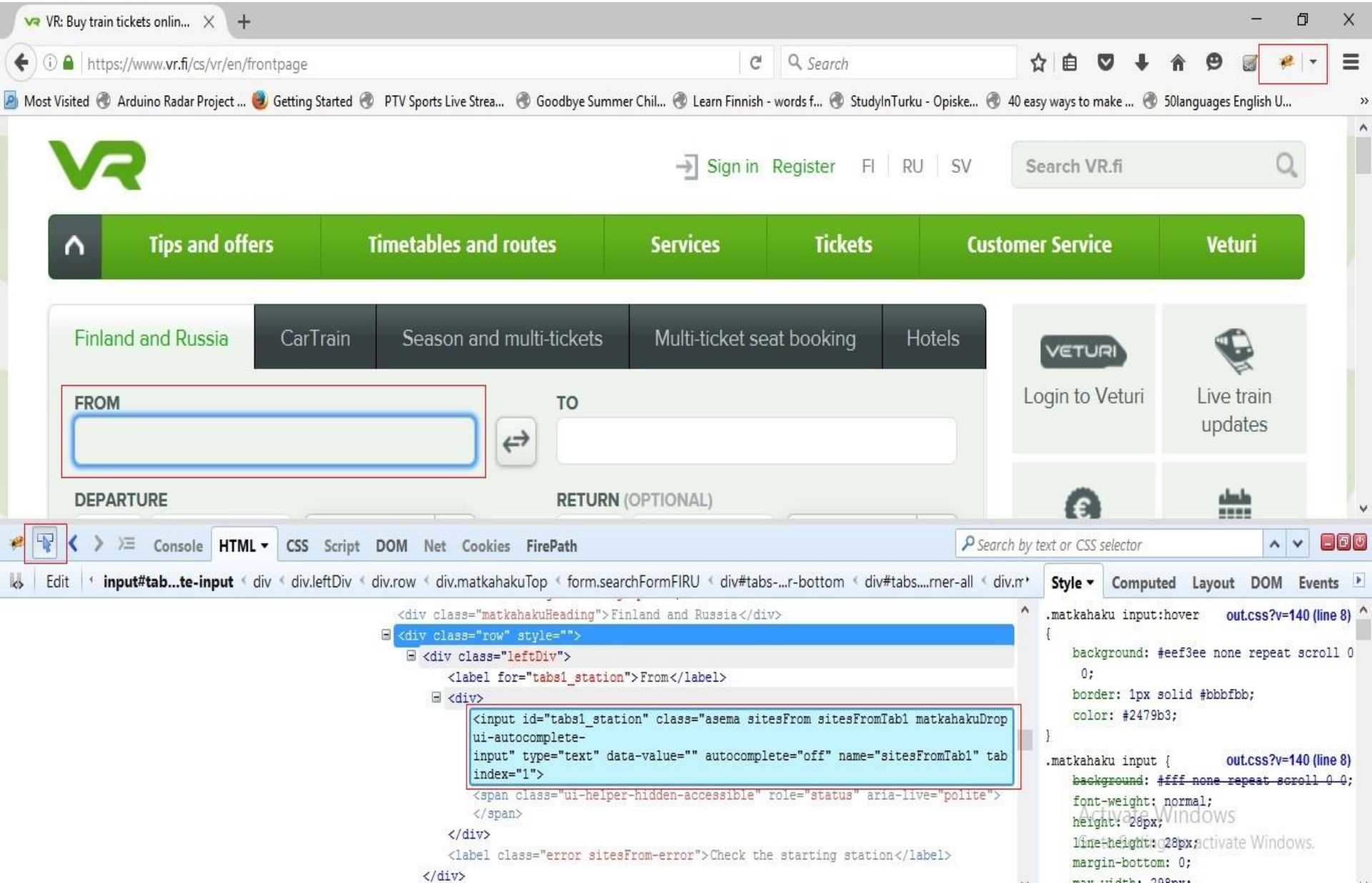
Create Firefox object



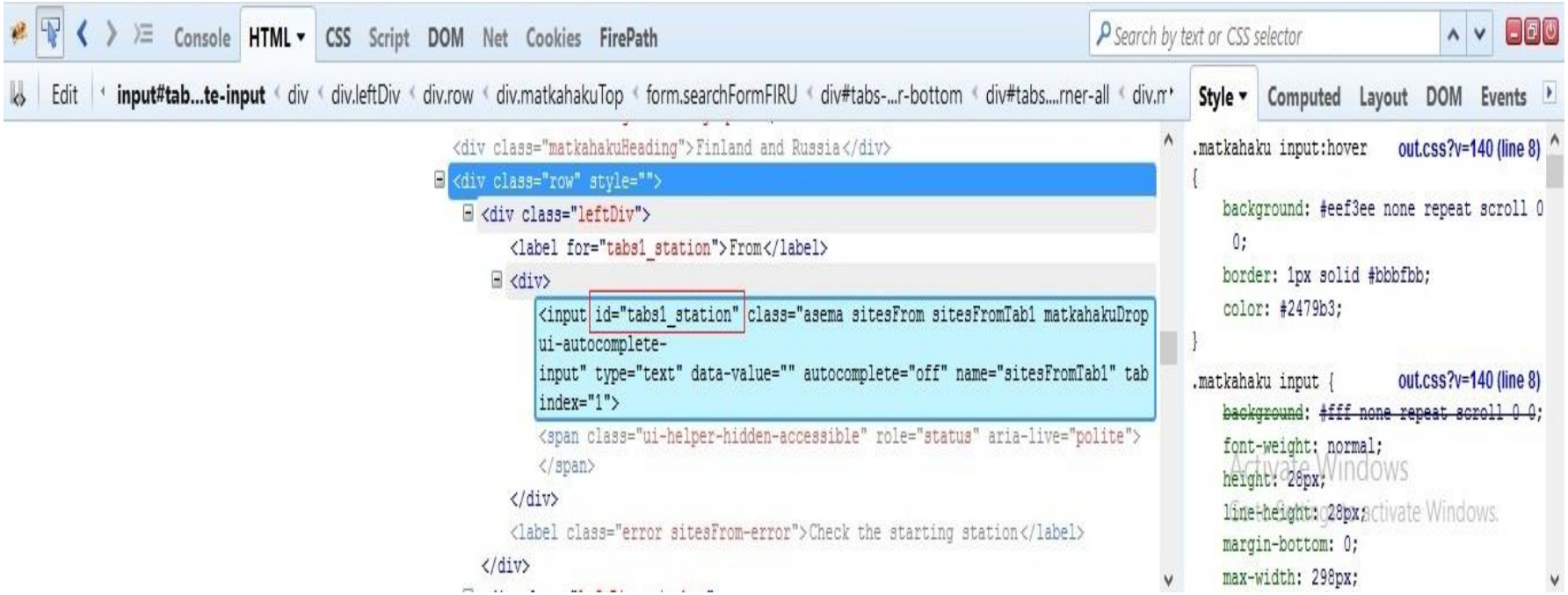
Input values for *From* and *To*



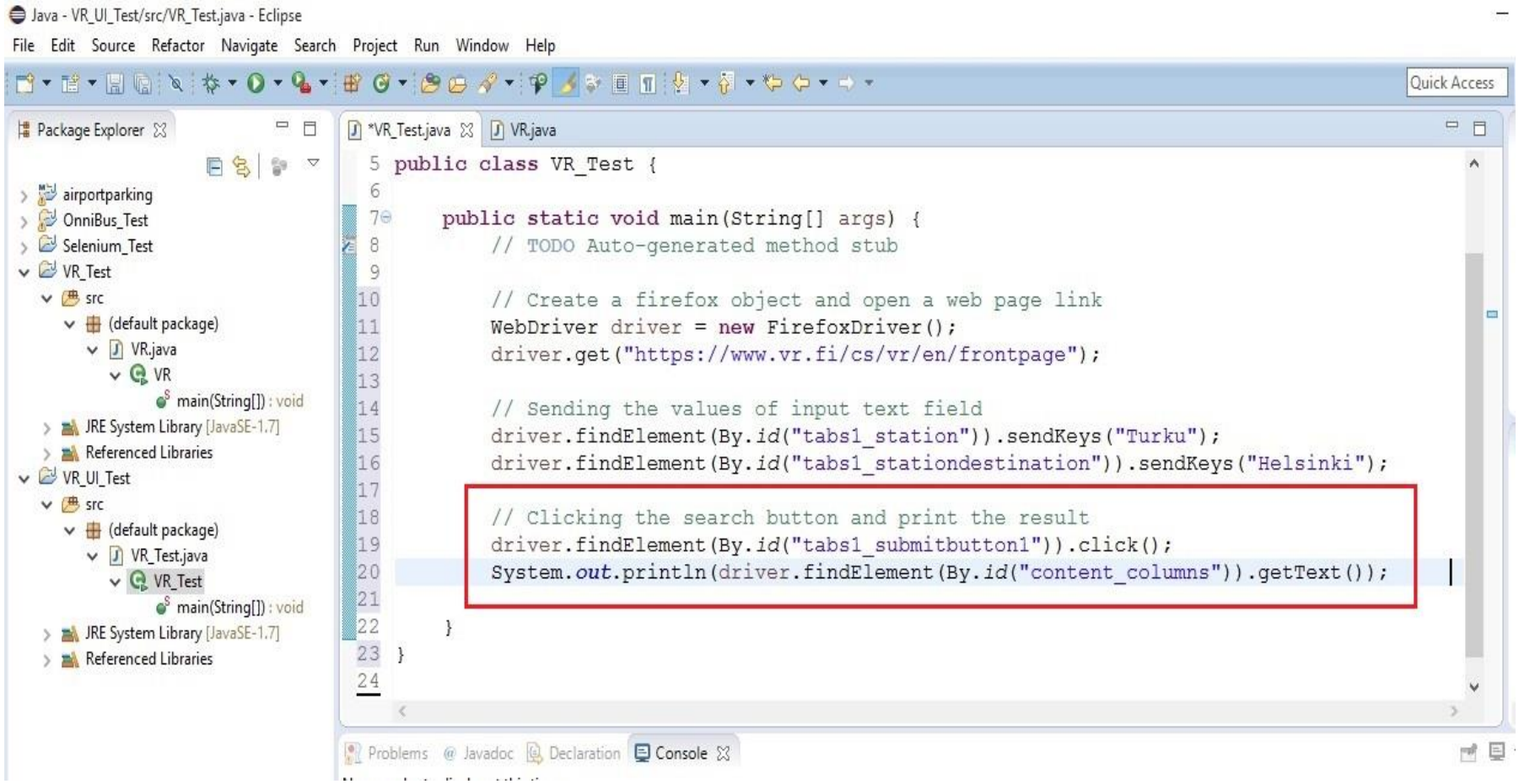
Tracking Web Elements



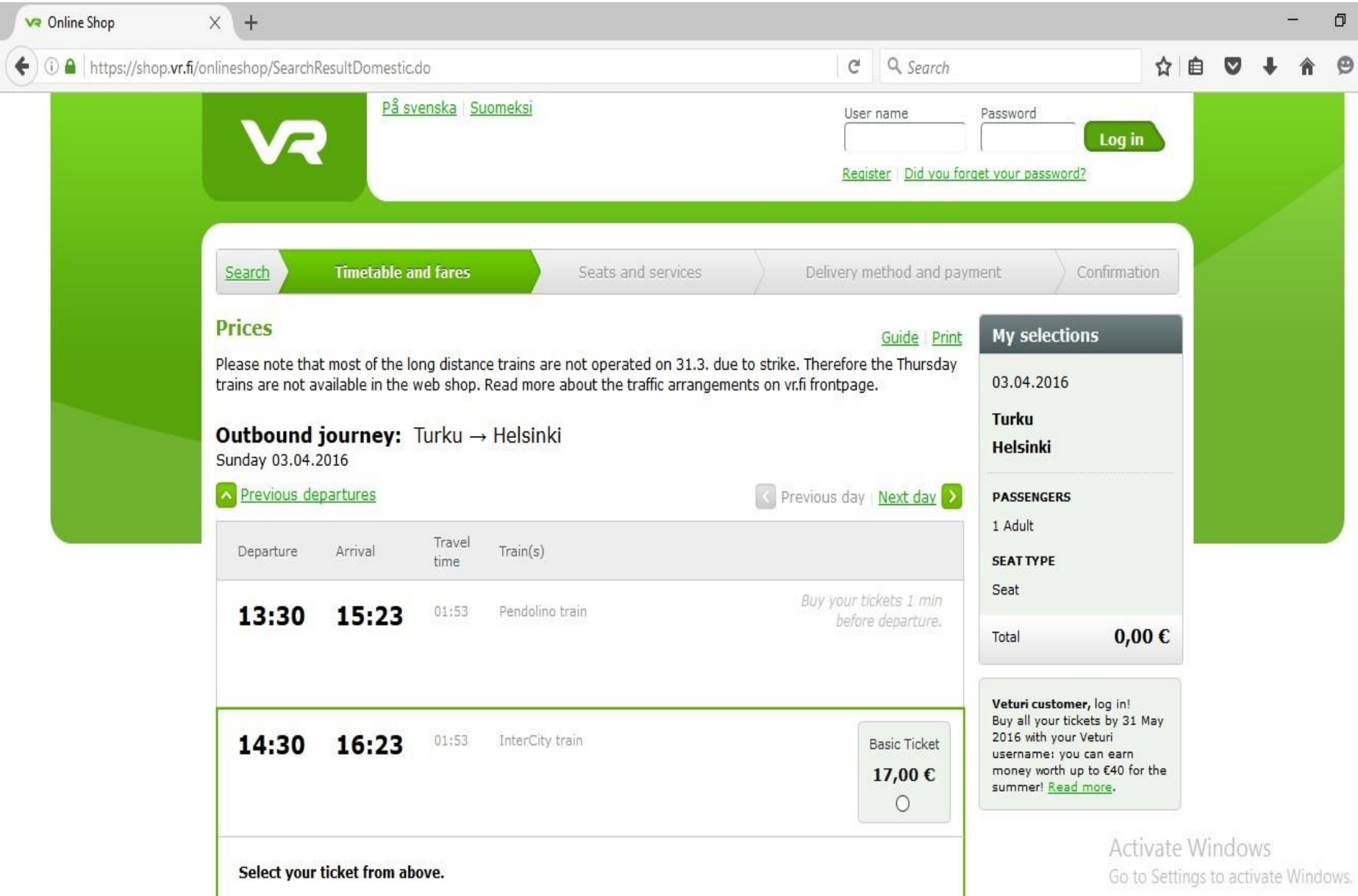
Tracking Web Elements using Firebug



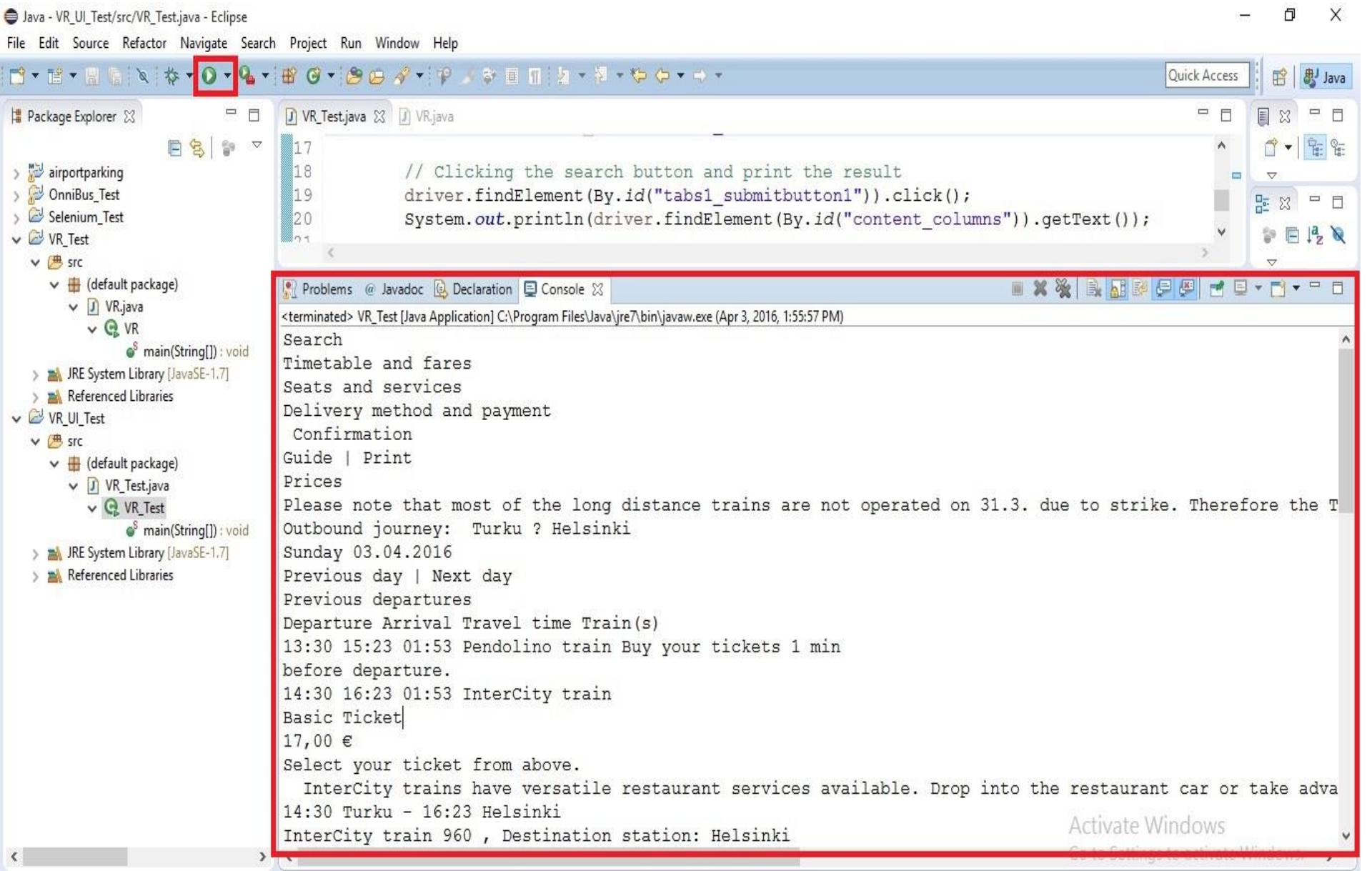
Click on *Submit* and print *Result*



Execution of the program



Print search *Result*



Thank you !!!