

Lesson 6



PERFORM DATA DRIVEN FRAMEWORK TESTING WITH SELENIUM

Edureka!Live

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College of Information and Communication Technology

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13/04/2023

Agenda For The Session



- i. **Selenium As An Automation Testing Tool?**
- ii. What Is **Data Driven Framework?**
- iii. Using **Apache POI** To Achieve Data Driven Testing
- iv. **Demo:** Implementing Data Driven Testing In Selenium

Selenium Automation Testing Tool

Selenium is an open-source tool which ***automates web browser testing***.

It is mainly used for functional testing (unit testing & regression testing).

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Programming Language Support



Web Browser Support



Operating System Support





What Is Data Driven Framework?

Let's understand what is Data Driven testing and
what are its benefits.

What Is Data Driven Framework?

Data Driven Framework is a testing strategy in which the **data set** under test, is stored separately from the **test script**.

DATA DRIVEN FRAMEWORK



Code and data stored separately

Features

- Automation testing is driven by the **data set** under test.
- Same test script will work for different data sets.
- **Eg:-** Login credentials stored in excel & passed as parameters to the code.

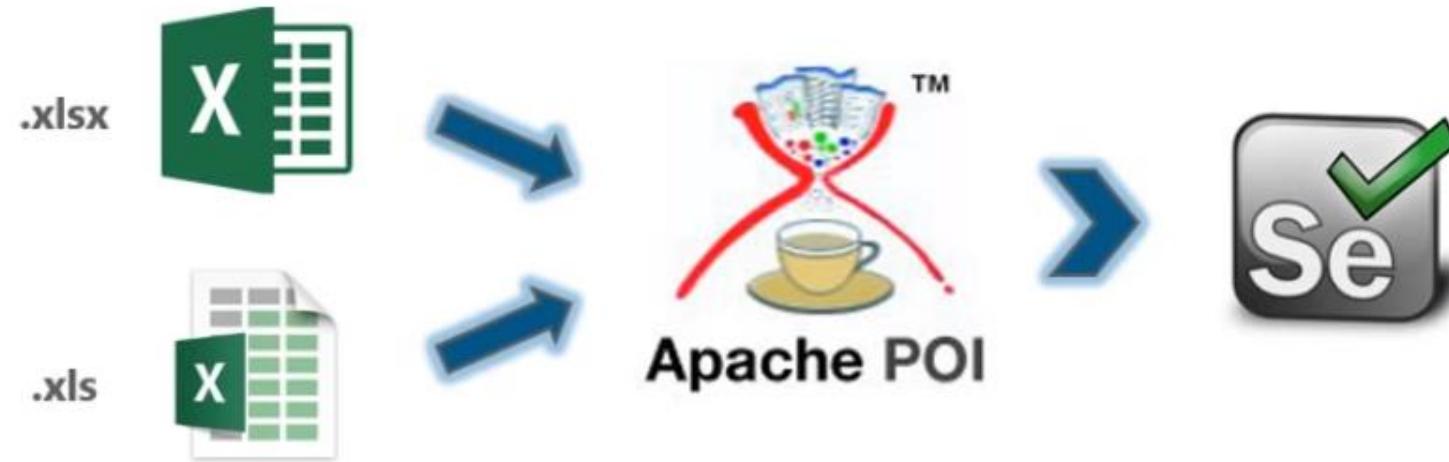


The Question Is:-

**Does Selenium WebDriver support reading
of data from an Excel file for input?**

Selenium WebDriver + Apache POI

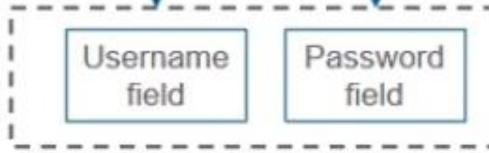
No! Selenium WebDriver does not support *read* and *write* operations on excel files.
But, it can be supported with the integration of third party tool (Apache POI).



Apache POI is a library, which allows you to read, create & edit Microsoft Office-documents using Java.
Advantages:- Easy **maintenance** and improved **test coverage**.

Integrating Selenium WebDriver & Apache POI

	A	B
1	edureka	edureka123
2	mercury	mercury
3	Admin	admin123
4	Admin	admin124
5	Admin	admin125
6		



Method which takes the input
from the mentioned Excel file.

```
@DataProvider(name="testdata")
public Object[][] TestDataFeed()
{
    ...
    ExcelDataFile config = new ExcelDataFile("C:\\\\Users\\\\Vardhan\\\\workspace\\\\Selenium\\\\LoginCredentials.xlsx");
    ...
    int rows = config.getRowCount(0);
    ...
    Object[][] credentials=new Object[rows][2];
    ...
    for(int i=0;i<rows;i++)
    {
        ...
        credentials[i][0] = config.getData(0, i, 0);
        credentials[i][1] = config.getData(0, i, 1);
    }
    ...
    return credentials;
}
```



Hands-on:-

Selenium WebDriver + Apache POI

Let's learn how Selenium & POI are used together to achieve Data Driven Testing in Selenium with a Demo.

How to use Selenium WebDriver with Apache POI?

- Download
- Add Jars to a project
- Create an Excel file and read data from it



Apache POI download



D

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Settings Tools

About 1,010,000 results (0.45 seconds)

[Download Release Artifacts - Apache POI](https://poi.apache.org/download.html)

<https://poi.apache.org> › download ▾

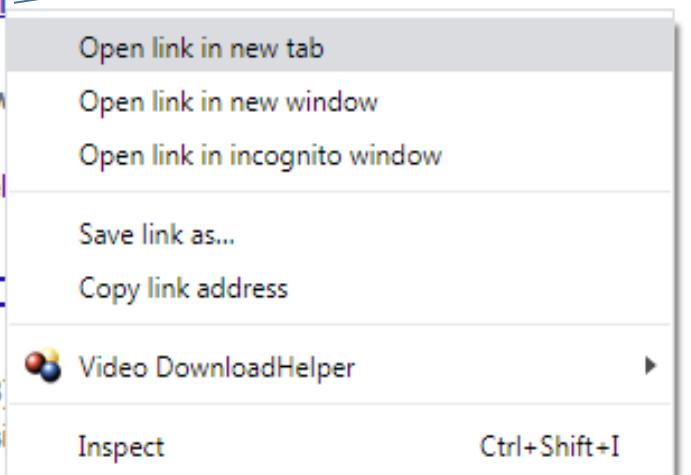
5 days ago - This page provides instructions on how to download release artifacts. There are different versions available ...

[History of Changes](#) · Of /dist/poi/release/bin · Of /dist/poi/rel...

[Apache POI - the Java API for Microsoft Office](https://poi.apache.org/)

<https://poi.apache.org> ▾

Apache POI is your Java Excel solution (for Excel 97-2008) and have the time: Download the source from the Subversive



People also ask

How do I download Apache POI?

How do I download and install Apache POI?

- Search: “Apache POI download”
- Open the first link in a new tab

Apache POI - Download Release × +

poi.apache.org/download.html

Apache Software Foundation > Apache POI >



APACHE POI

Search the site with google Search

Last Published: 11/03/2021 17:44:36

Home Help Component APIs Getting Involved

Overview

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- Text Extraction
- Encryption support
- Case Studies
- Related projects
- Legal

Apache Wide



Apache POI - Download Release Artifacts

Available Downloads

This page provides instructions on how to download and verify the Apache POI release artifacts. There are different versions available depending on how stable your code should be.

- The latest stable release is Apache POI 5.1.0
- Archives of all prior releases

Click on [The latest stable release is Apache POI 5.1.0](#)

Apache POI releases are available under the [Apache License, Version 2.0](#). See the NOTICE file contained in each release artifact for applicable copyright attribution notices.

To ensure that you have downloaded the true release you should [verify the integrity](#) of the files using the signatures and checksums available from this page.

1 November 2021 - POI 5.1.0 available

The Apache POI team is pleased to announce the release of 5.1.0. Featured are a handful of new areas of functionality and numerous bug fixes.

- Javadocs
- Text Extraction
- Encryption support
- Case Studies
- Related projects
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- ▶ Apache Wide



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1 November 2021 - POI 5.1.0 available

The Apache POI team is pleased to announce the release of 5.1.0. Featured are a handful of new areas of functionality and numerous bug fixes.

A summary of changes is available in the [Release Notes](#). A full list of changes is available in the [change log](#). People interested should also follow the [dev list](#) to track progress.

The POI source release as well as the pre-built binary deployment packages are listed below. Pre-built versions of all [POI components](#) are available in the central Maven repository under Group ID "org.apache.poi" and Version "5.1.0".

Binary Distribution

- [poi-bin-5.1.0-20211024.tgz](#) (57 MB, [signature](#), (.asc, checksum, SHA-256, SHA-512))
- [poi-bin-5.1.0-20211024.zip](#) (57 MB, [signature](#))

Click on <https://poi-bin-5.1.0-20211024.zip>

Source Distribution

- [poi-src-5.1.0-20211024.tgz](#) (110 MB, [signature](#) (.asc), checksum: [SHA-256](#), [SHA-512](#))
- [poi-src-5.1.0-20211024.zip](#) (114 MB, [signature](#) (.asc), checksum: [SHA-256](#), [SHA-512](#))

Verify

It is essential that you verify the integrity of the downloaded files using the PGP and SHA2 signatures. Please read [Verifying Apache HTTP Server Releases](#) for more information on why you should verify our releases. This page provides detailed instructions which you can use for POI artifacts.

The PGP signatures can be verified using PGP or GPG. First download the [KEYS](#) file as well as the .asc signature files for the relevant release packages. Make sure you get these files from the main distribution directory, rather than from a mirror. Then [verify the signatures](#).

Batch check of all distribution files:



COMMUNITY-LED DEVELOPMENT "THE APACHE WAY"



We suggest the following site for your download:

<https://dlcdn.apache.org/poi/release/bin/poi-bin-5.1.0-20211024.zip>

Alternate download locations are suggested below.

It is essential that you verify the integrity of the downloaded file using the PGP signature ([.asc](#) file) or a hash ([.md5](#) or [.sha*](#) file).

HTTP

<https://dlcdn.apache.org/poi/release/bin/poi-bin-5.1.0-20211024.zip>

Click on this link

BACKUP SITE

<https://downloads.apache.org/poi/release/bin/poi-bin-5.1.0-20211024.zip>

VERIFY THE INTEGRITY OF THE FILES

It is essential that you verify the integrity of the downloaded file using the PGP signature ([.asc](#) file) or a hash ([.md5](#) or [.sha*](#) file). Please read [Verifying Apache](#)

Install selenium

File Home Share View

Pin to Quick access Copy Paste Cut Copy path Paste shortcut Move to Copy to Delete Rename New item New folder New Open Properties Select all Select none Invert selection

Clipboard Organize New Open Select

← → ↑ This PC > Software (D:) > Install selenium Search Install sele...

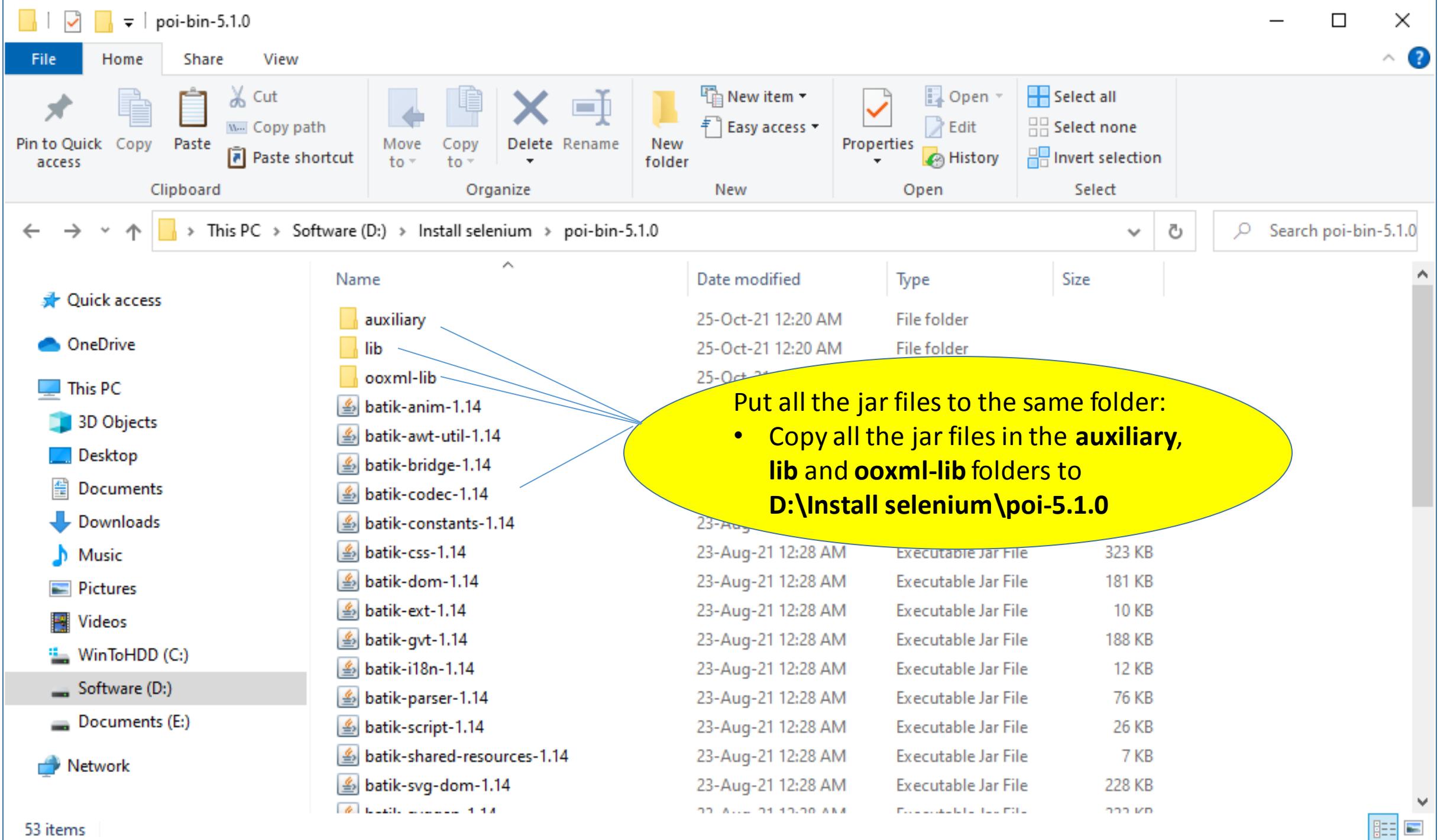
Quick access OneDrive This PC 3D Objects Desktop Documents Downloads Music Pictures Videos WinToHDD (C:) Software (D:) Documents (E:) Network

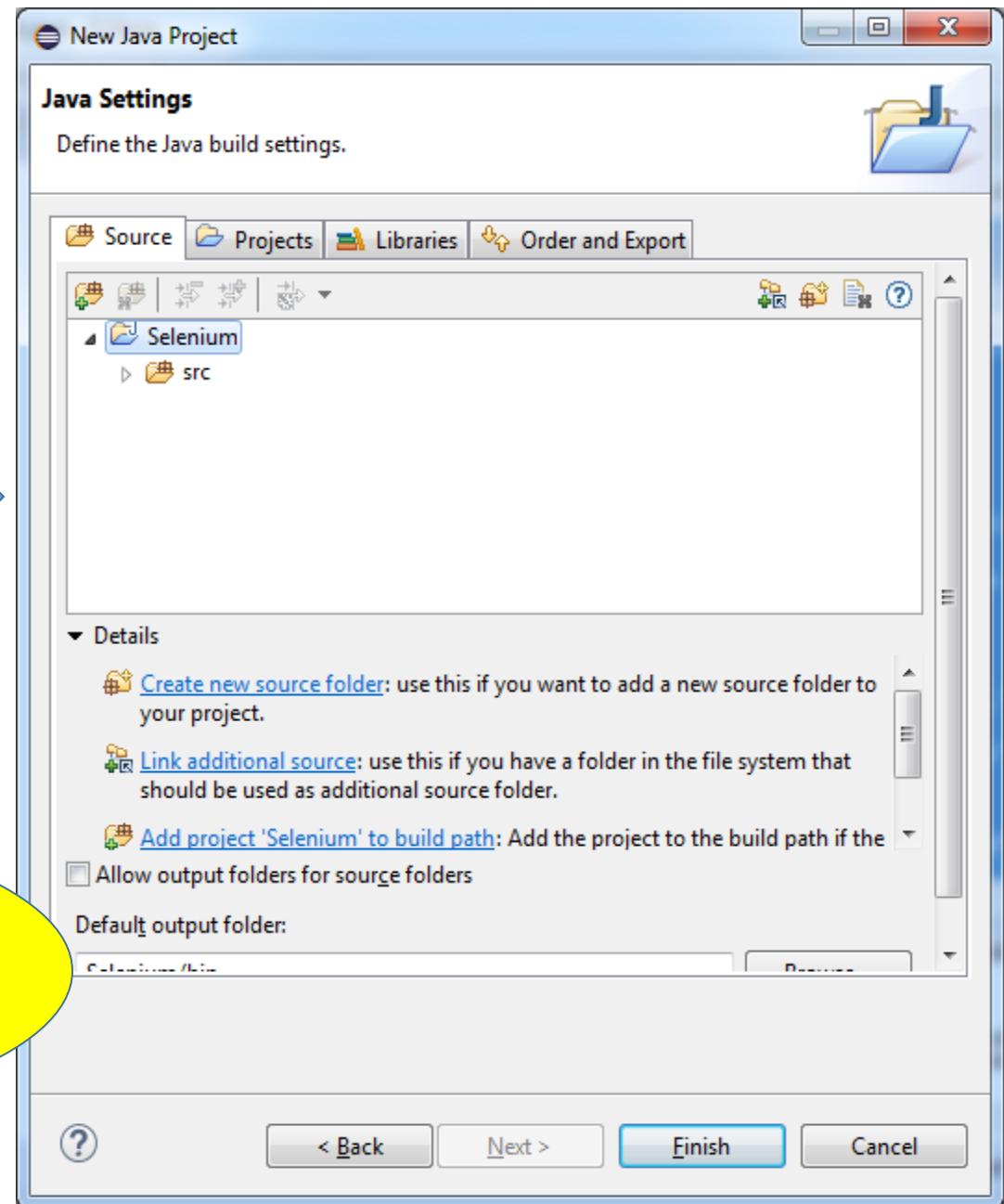
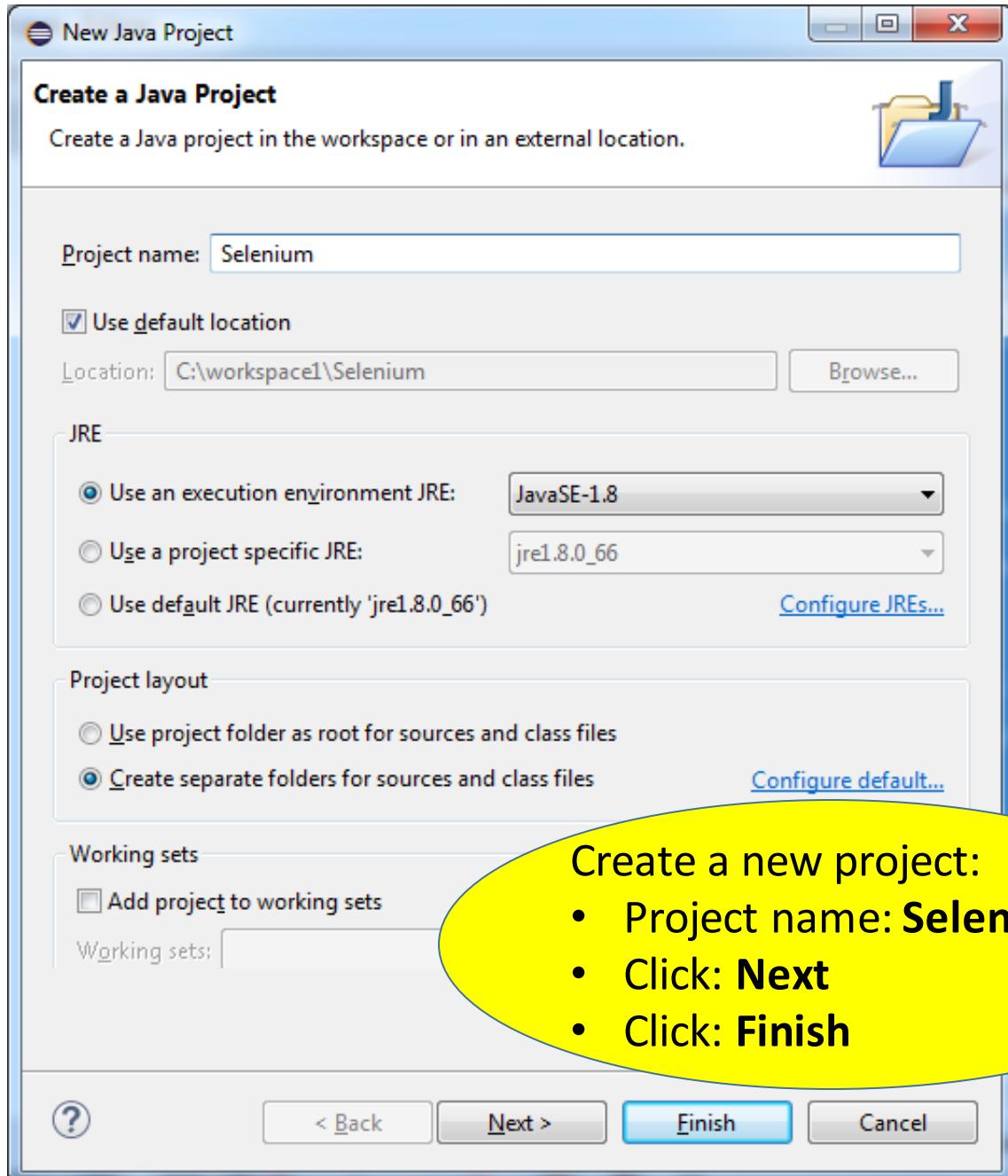
Name Date modified Type Size

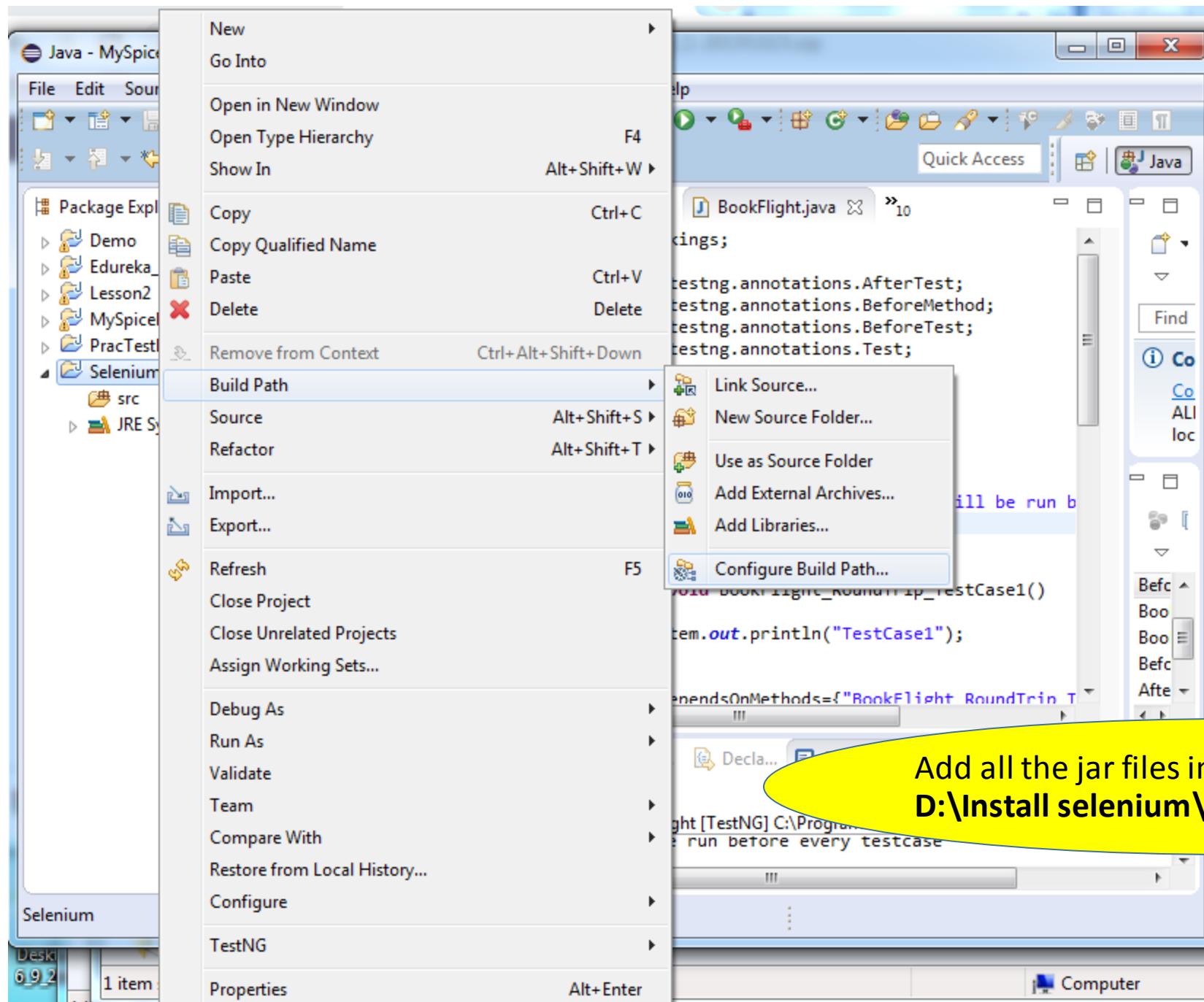
Extract poi-bin-5.1.0-20211024.zip to get the poi-5.1.0 folder

Name	Date modified	Type	Size
chromedriver_win32	29-May-2012 07 AM	File folder	
geckodriver-v0.26.0-win64	30-Oct-19 11:26 PM	File folder	
Java			
poi-4.1.1	30-Oct-19 11:26 PM	File folder	
poi-bin-5.1.0	25-Oct-21 12:20 AM	File folder	
selenium-server-3.9.1	16-Oct-19 2:11 PM	File folder	
chromedriver_win32	20-Oct-21 3:58 PM	WinRAR ZIP archive	5,854 KB
geckodriver-v0.26.0-win64	16-Oct-19 11:28 PM	WinRAR ZIP archive	1,497 KB
poi-bin-4.1.1-20191023	30-Oct-19 11:14 PM	WinRAR ZIP archive	39,495 KB
poi-bin-5.1.0-20211024	03-Nov-21 4:08 PM	WinRAR ZIP archive	58,458 KB
selenium-server-3.9.1	16-Oct-19 2:08 PM	WinRAR ZIP archive	21,553 KB
selenium-server-standalone-3.9.1	16-Oct-19 2:09 PM	Executable Jar File	22,880 KB

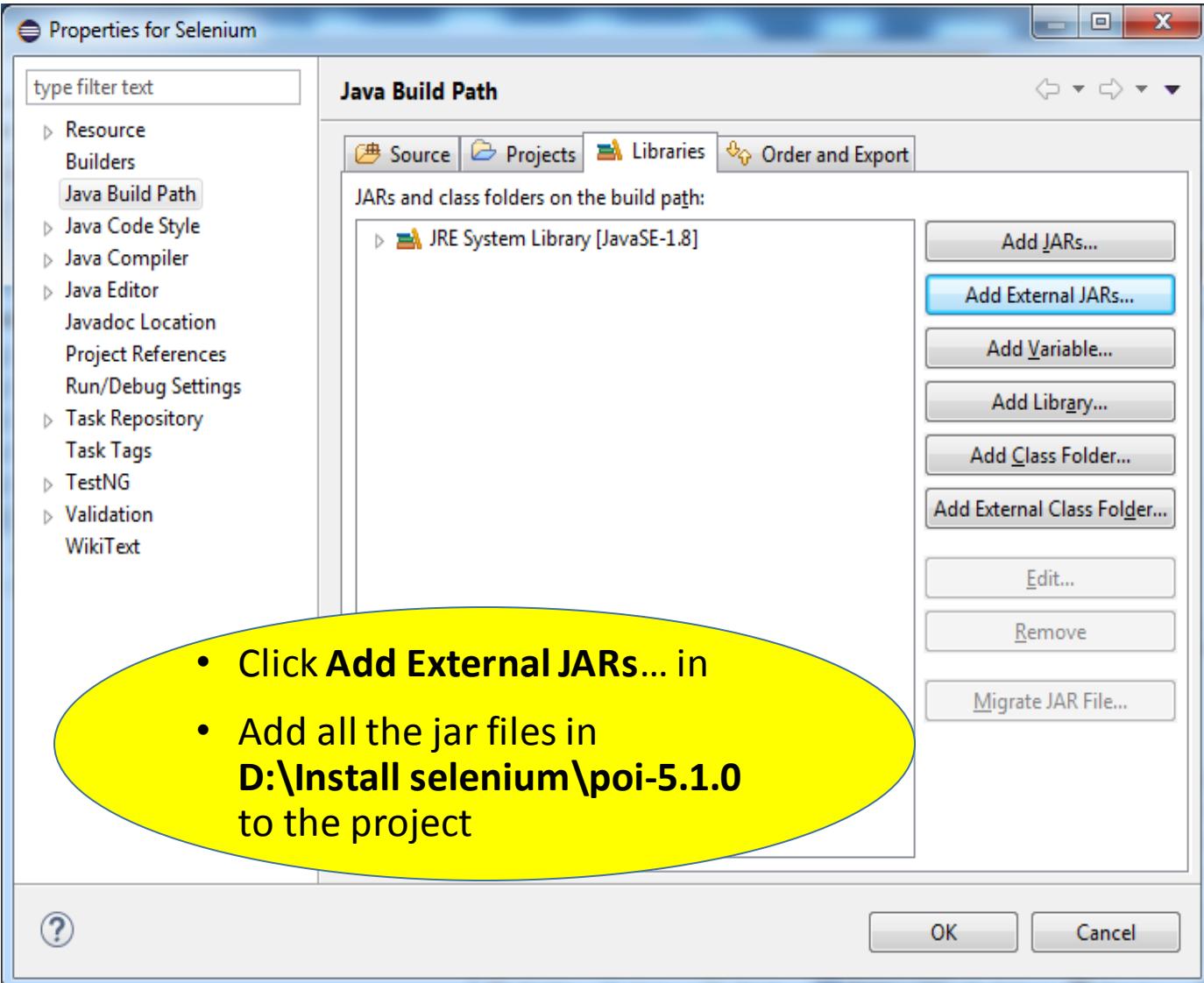
12 items | 1 item selected







Add all the jar files in
D:\Install selenium\poi-5.1.0 to the project



poi-bin-5.1.0

File Home Share View

Pin to Quick access Copy Paste Move to Delete New folder New Open Properties Select all Select none Invert selection Select

Clipboard Organize

← → ↑ ↓ << Software (D:) >> Install selenium poi-bin-5.1.0 ⏪ ⏩ Search poi-bin-5.1.0

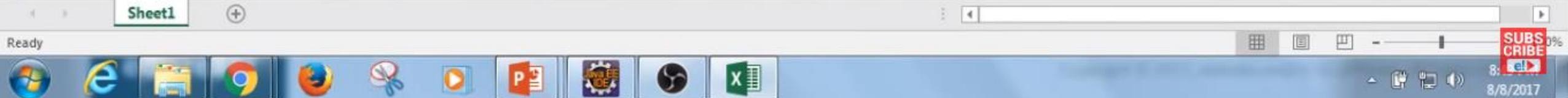
Name	Date modified	Type	Size
auxiliary	25-Oct-21 12:20 AM	File folder	
lib	25-Oct-21 12:20 AM	File folder	
ooxml-lib	25-Oct-21 12:20 AM	File folder	
batik-anim-1.14	23-Aug-21 12:28 AM	Executable Jar File	475 KB
batik.awt-util-1.14	23-Aug-21 12:28 AM	Executable Jar File	415 KB
batik-bridge-1.14	23-Aug-21 12:28 AM	Executable Jar File	688 KB
batik-codec-1.14	23-Aug-21 12:28 AM	Executable Jar File	110 KB
batik-constants-1.14	23-Aug-21 12:28 AM	Executable Jar File	9 KB
batik-css-1.14	23-Aug-21 12:28 AM	Executable Jar File	323 KB
batik-dom-1.14	23-Aug-21 12:28 AM	Executable Jar File	181 KB
batik-ext-1.14	23-Aug-21 12:28 AM	Executable Jar File	10 KB
batik-gvt-1.14	23-Aug-21 12:28 AM	Executable Jar File	188 KB
batik-i18n-1.14	23-Aug-21 12:28 AM	Executable Jar File	12 KB
batik-parser-1.14	23-Aug-21 12:28 AM	Executable Jar File	76 KB
batik-script-1.14	23-Aug-21 12:28 AM	Executable Jar File	26 KB
batik-shared-resources-1.14	23-Aug-21 12:28 AM	Executable Jar File	7 KB
batik-svg-dom-1.14	23-Aug-21 12:28 AM	Executable Jar File	228 KB

53 items | 14 items selected 2.67 MB

The screenshot shows the Microsoft Excel ribbon with the "Home" tab selected. The ribbon includes sections for File, Home, Insert, Page Layout, Formulas, Data, Review, View, and a "Tell me what you want to do" search bar. The "Home" tab's ribbon contains icons for Cut, Copy, Paste, Format Painter, Calibri font, font size 11, bold, italic, underline, alignment, merge & center, number formats, conditional formatting, styles, insert, delete, and format.

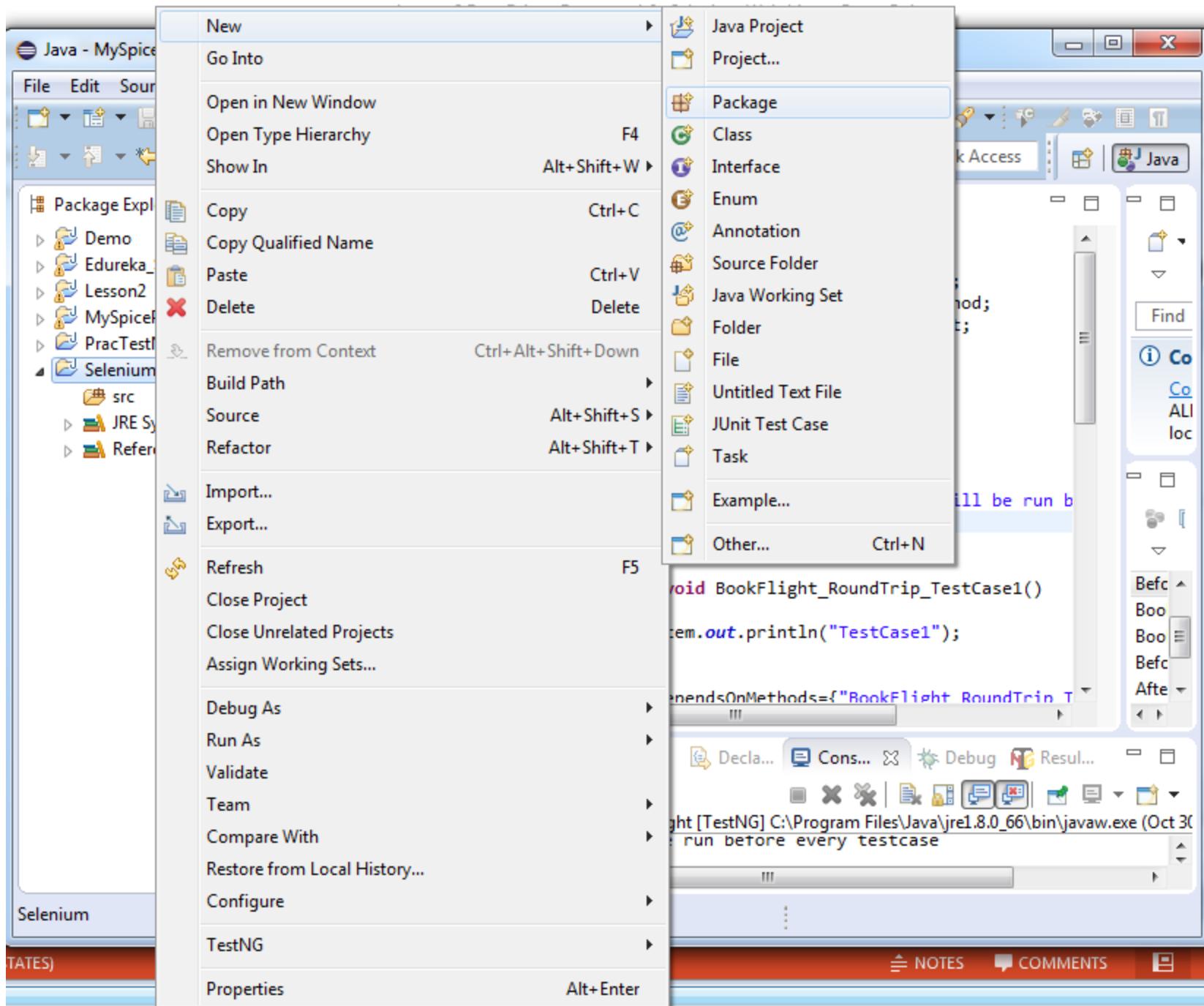
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	edureka	edureka123																		
2	mercury	mercury																		
3	Admin	admin123																		
4	Admin	admin124																		
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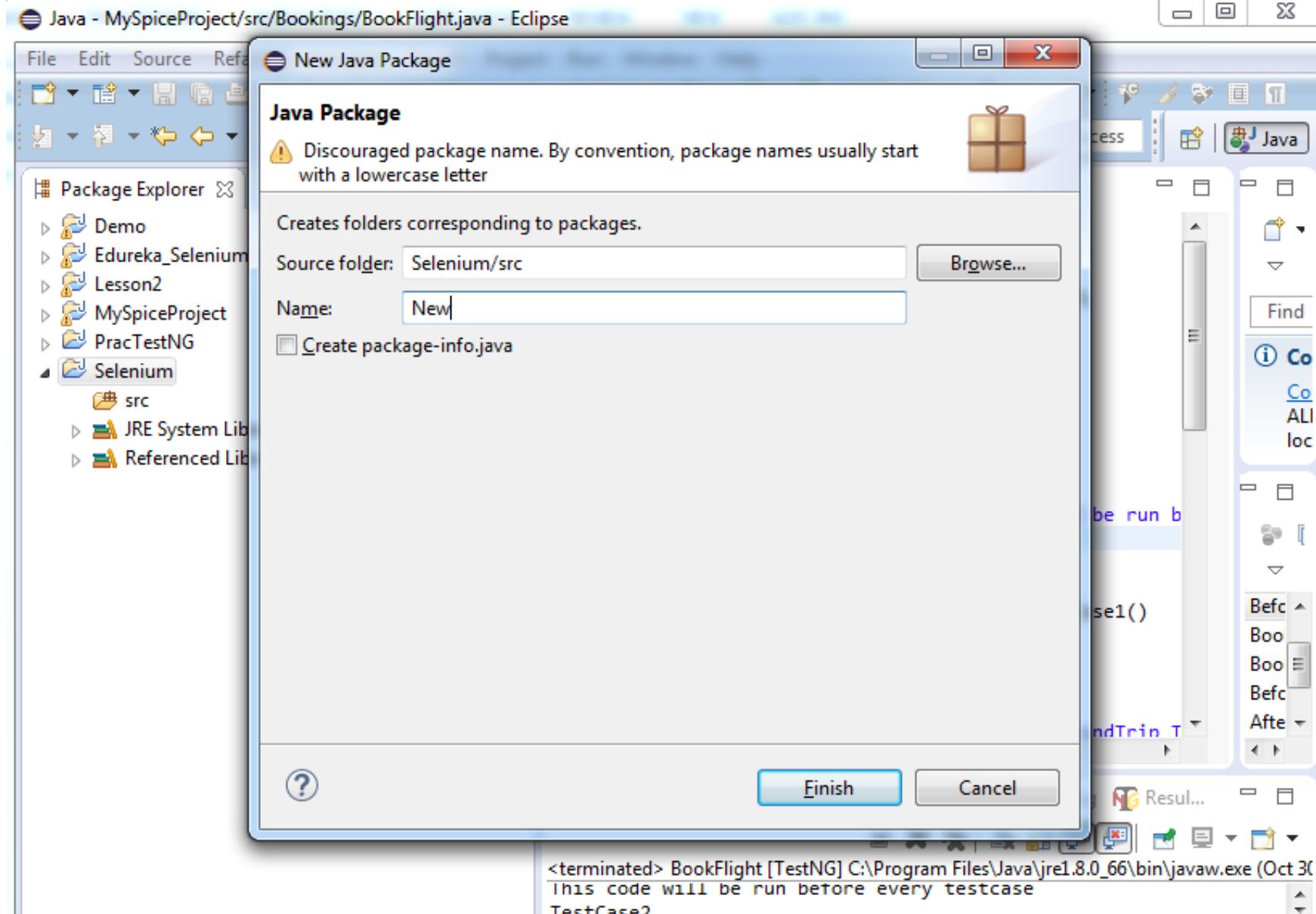
- 
- Create an Excel file on disk
 - File name: **LoginCredentials.xlsx**
 - Type **username + password** on Sheet1

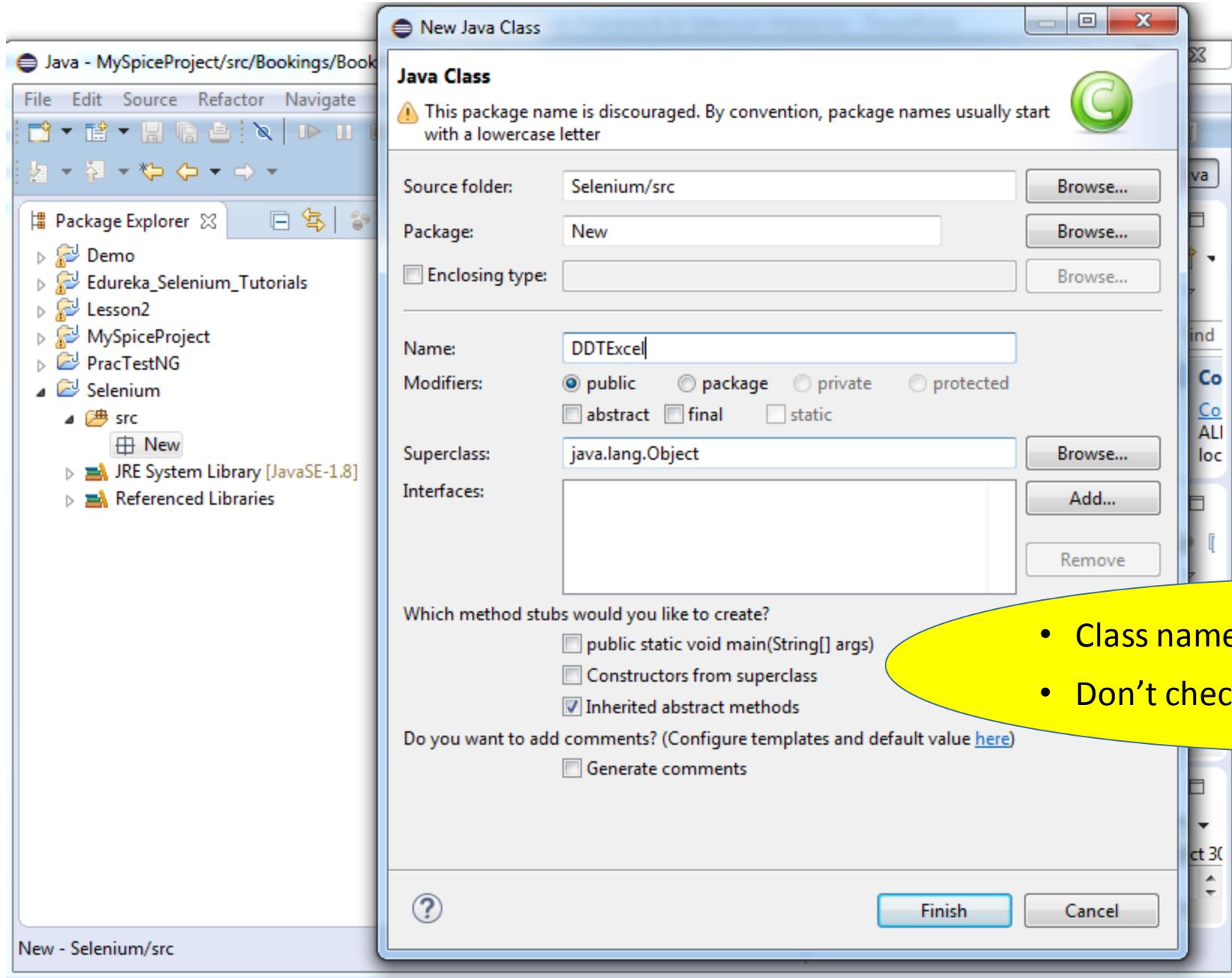


Create package and Java classes

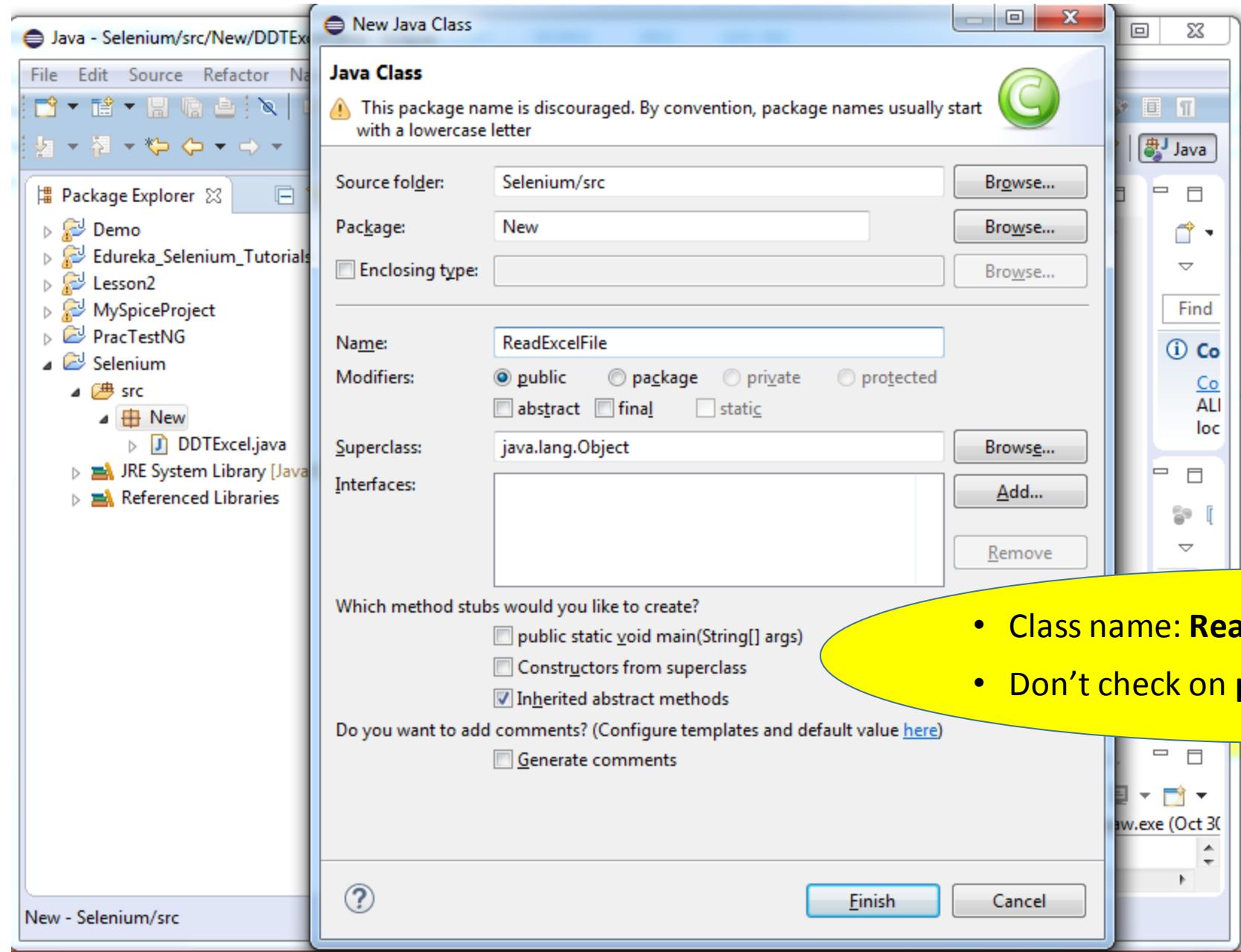
- In Selenium project, create:
 - Package: **New**
 - In the New package , create 2 Java classes:
 - **DDTExcel.java**
 - **ReadExcelFile.java**



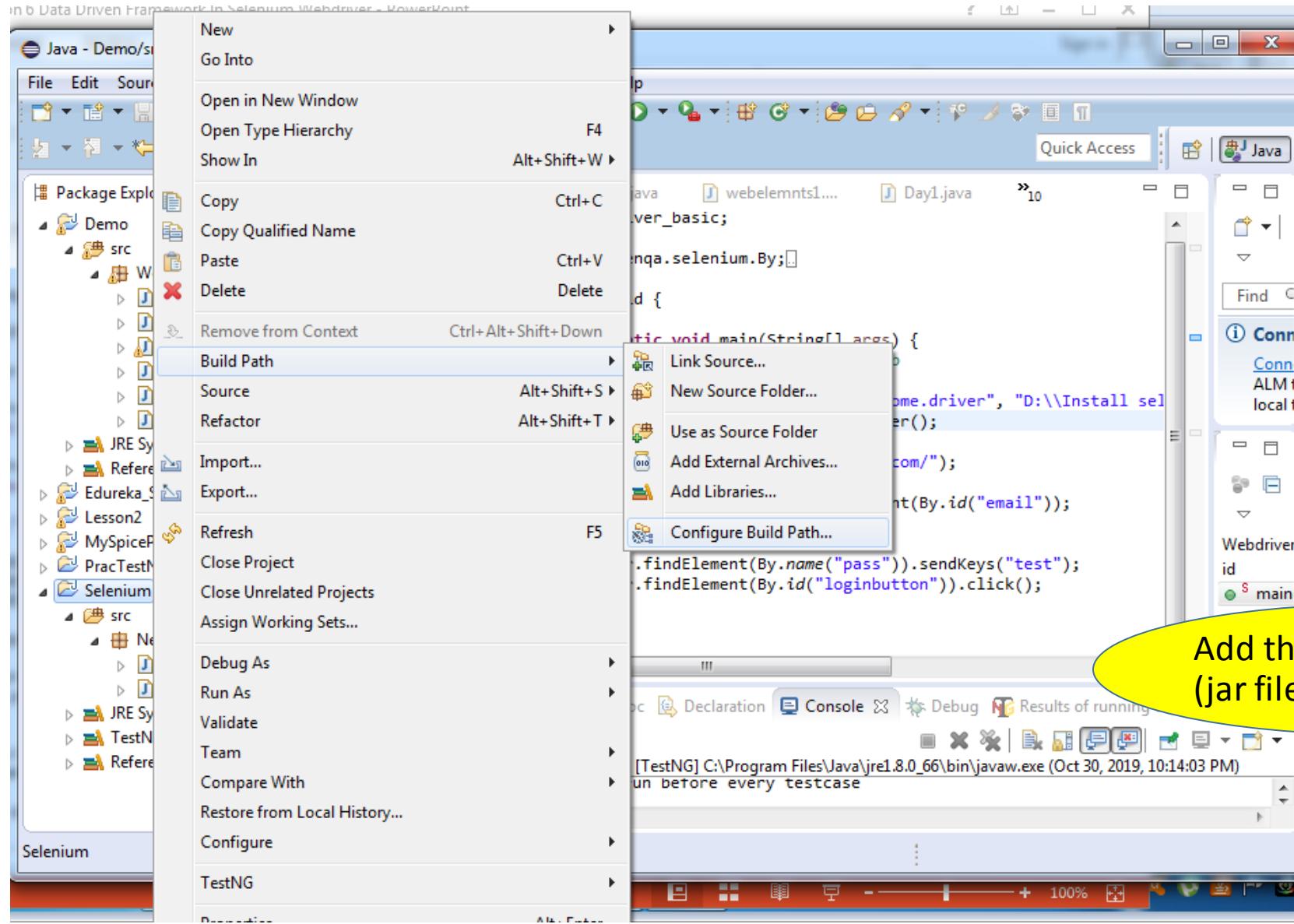




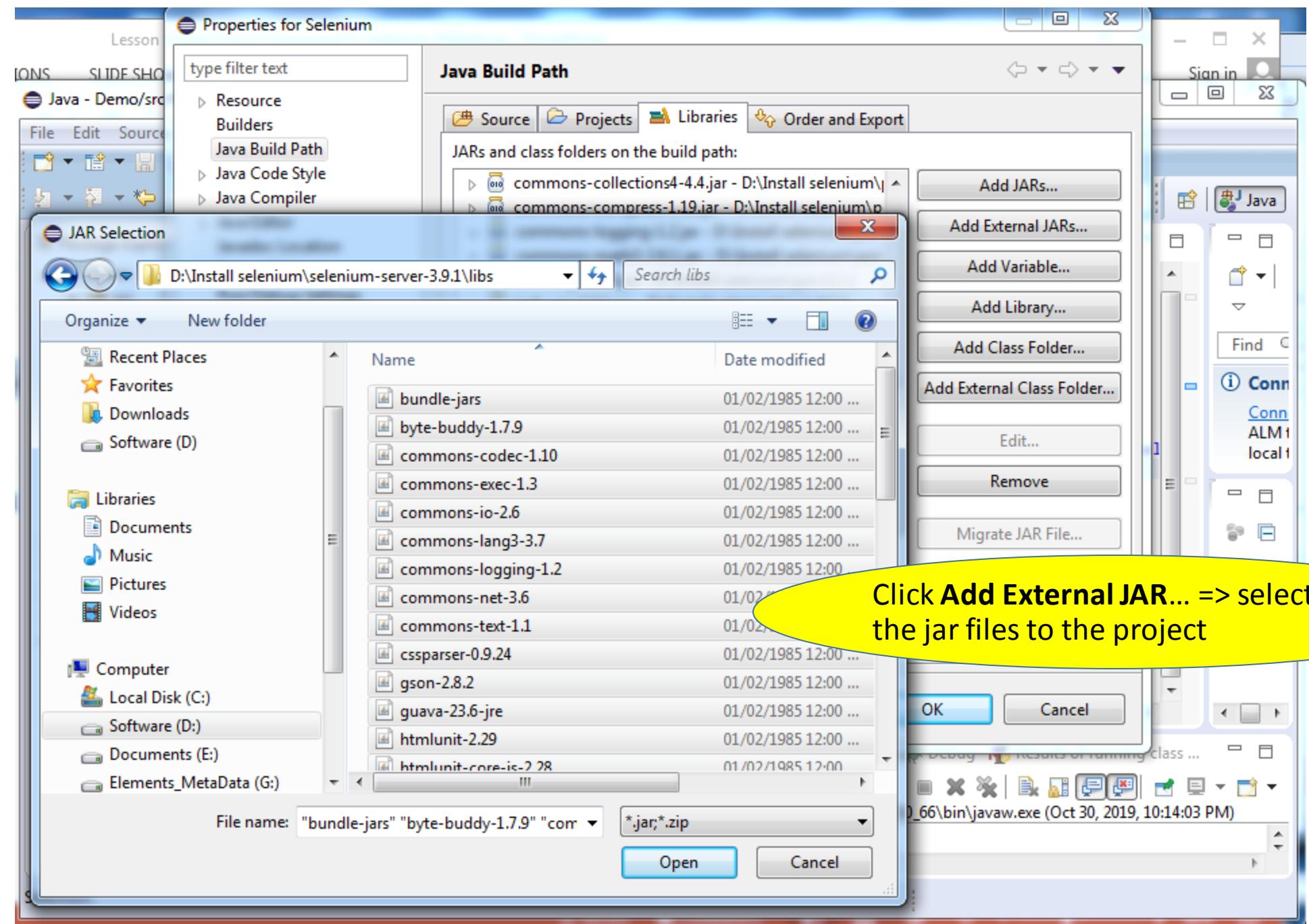
- Class name: **DDTExcel**
- Don't check on **public static void main()**

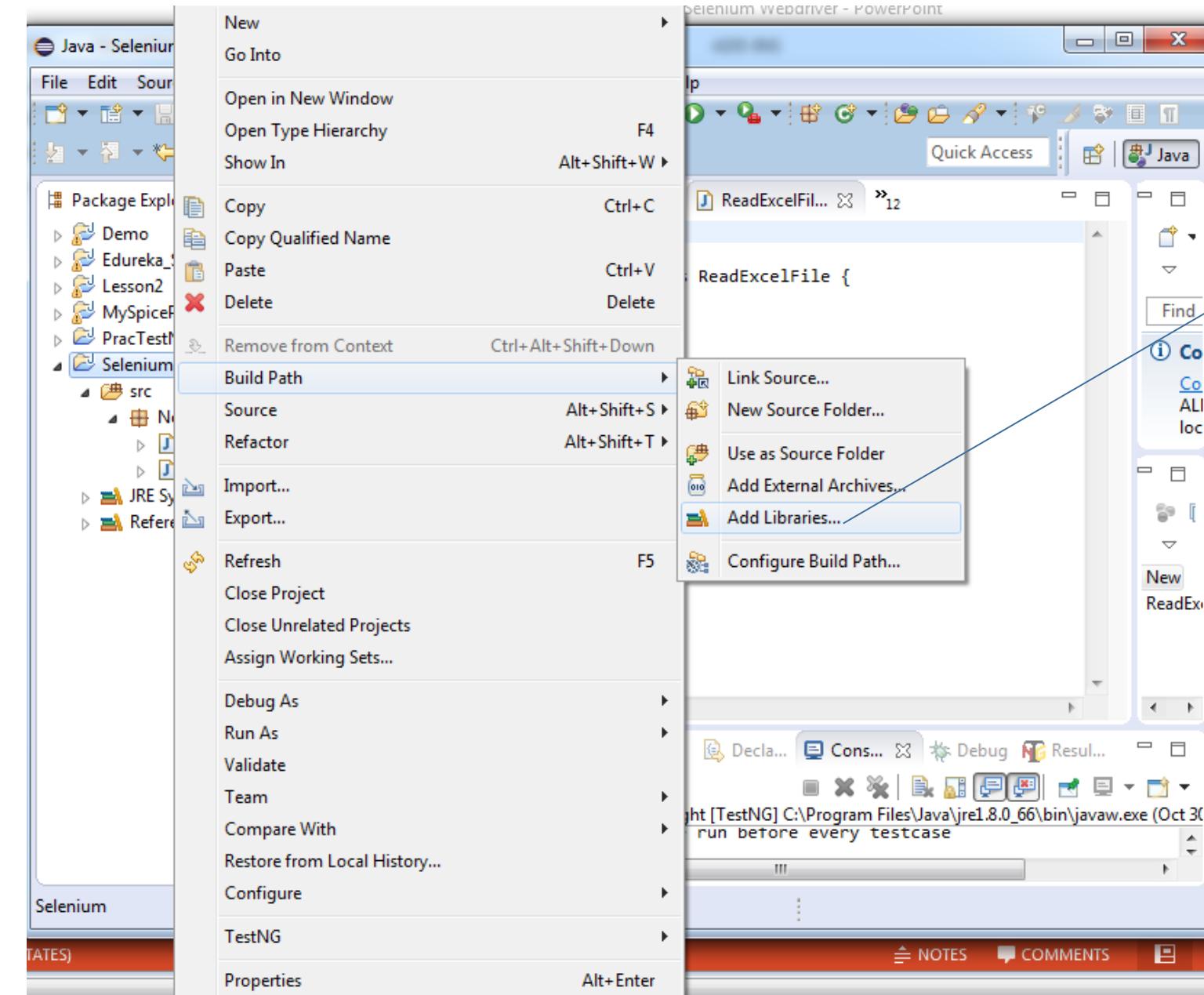


- Class name: **ReadExcelFile**
- Don't check on **public static void main()**



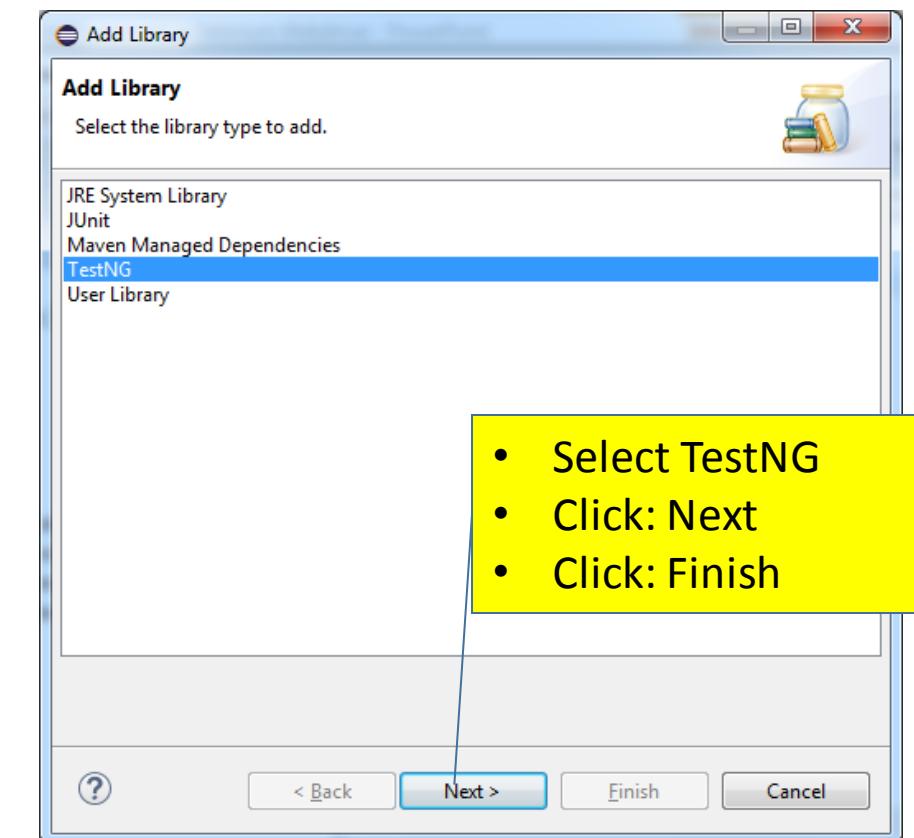
Add the Selenium library
(jar files) to the project



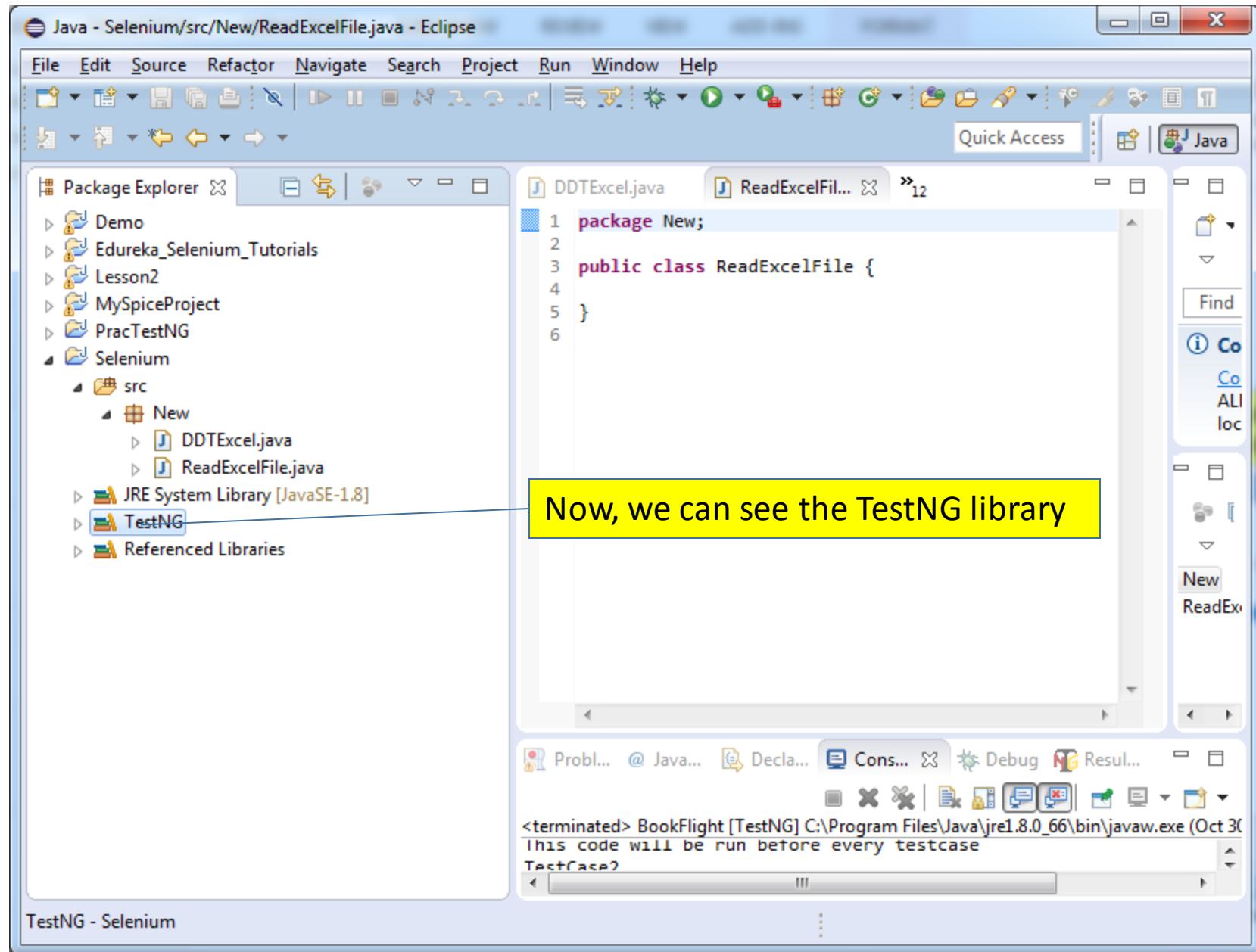


Add the TestNG library to the project

- Right click on the Selenium project
- Build Path => Add Libraries...



- Select TestNG
- Click: Next
- Click: Finish



Java - Selenium/src/New/DDTExcel.java - Eclipse

File Edit Source Refactor Navigate Search Project Run Window Help

Quick Access Java EE Java

Package Explorer DDTEExcel.java ReadExcelFile.java

```
1 package New;
2 import org.openqa.selenium.By;
3
4 public class DDTEExcel {
5     // TODO Auto-generated method stub
6     WebDriver driver;
7     protected static String result;
8
9     @TestdataProvider="testdata"
10    public void DemoProject(String username, String password)
11    {
12        try {
13            System.setProperty("webdriver.chrome.driver", "D:\\Install selenium\\chromedriver_win32\\chromedriver.exe");
14            driver = new ChromeDriver();
15            driver.get("http://newtours.demoaut.com");
16
17            driver.findElement(By.name("userName")).sendKeys(username);
18            driver.findElement(By.name("password")).sendKeys(password);
19            driver.findElement(By.name("submit")).click();
20
21            Thread.sleep(5000);
22
23            Assert.assertTrue(driver.getTitle().matches("Login: Mercury Tours"), "Invalid credentials");
24            System.out.println("Login successful");
25        } catch (InterruptedException e) {
26            // TODO Auto-generated catch block
27            e.printStackTrace();
28        }
29    }
30}
```

Problems @ Javadoc Declaration Console Results of running class DDTEExcel

<terminated> DDTEExcel [TestNG] C:\Program Files\Java\jdk1.8.0_311\bin\javaw.exe (Nov 3, 2021, 5:25:31 PM)

at org.testng.TestNG.run (TestNG.java:1115)

Writable Smart Insert 13:36

Java - Selenium/src/New/DDTExcel.java - Eclipse

File Edit Source Refactor Navigate Search Project Run Window Help

Quick Access Java EE Java

Package Explorer X DDTExcel.java ReadExcelFile.java

```
// TODO Auto-generated catch block
e.printStackTrace();
}

}
}

@AfterMethod
void ProgramTermination()
{
    driver.quit();
}

@DataProvider(name="testdata")
public Object[][] TestDataFeed()
{
    New.ReadExcelFile config = new New.ReadExcelFile("D:\\TestProjects\\newtours\\LoginCredentials.xlsx");

    int rows = config.getRowCount(0);

    Object[][] credentials = new Object[rows][2];

    for(int i=0; i<rows; i++)
    {
        credentials[i][0] = config.getData(0, i, 0);
        credentials[i][1] = config.getData(0, i, 1);
    }
    return credentials;
}
}
```

Problems @ Javadoc Declaration Console X Results of running class DDTExcel

<terminated> DDTExcel [TestNG] C:\Program Files\Java\jdk1.8.0_311\bin\javaw.exe (Nov 3, 2021, 5:25:31 PM)

at org.testng.TestNG.run (TestNG.java:1115)

Writable Smart Insert 13:36



Package Explorer X

- > Edureka_Selenium_Tutorials
- > MySpiceProject
- > PracTestNG
- < Selenium
 - < src
 - < New
 - > DDTExcel.java
 - > ReadExcelFile.java
- > JRE System Library [JavaSE-1.8]
- > TestNG
- > Referenced Libraries

DDTExcel.java X

1 package New;

2
3 import java.io.File;
4 import java.io.FileInputStream;
5 import java.io.FileNotFoundException;
6 import java.io.IOException;7
8 import org.apache.poi.xssf.usermodel.XSSFSheet;
9 import org.apache.poi.xssf.usermodel.XSSFWorkbook;10
11 public class ReadExcelFile {12
13 XSSSSFWorkbook wb;
14 XSSFSheet sheet;15
16 public ReadExcelFile(String excelPath)

17 {

18 try {
19 File src = new File(excelPath);
20 FileInputStream fis = new FileInputStream(src);
21 wb = new XSSSSFWorkbook(fis);
22 } catch (FileNotFoundException e) {
23 // TODO Auto-generated catch block
24 e.printStackTrace();
25 } catch (IOException e) {
26 // TODO Auto-generated catch block
27 e.printStackTrace();
28 }
29 }

30 }

Problems @ Javadoc Declaration Console X Results of running class DDTExcel

<terminated> DDTExcel [TestNG] C:\Program Files\Java\jdk1.8.0_311\bin\javaw.exe (Nov 3, 2021, 5:25:31 PM)

at org.testng.TestNG.run (TestNG.java:1115)

The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows the project structure under "Selenium/src/New". The "src" folder contains "DDTExcel.java" and "ReadExcelFile.java". Other projects like "Edureka_Selenium_Tutorials", "MySpiceProject", and "PracTestNG" are also listed.
- DDTExcel.java:** This file is currently open in the editor. It contains Java code for reading Excel files using the Apache POI library. The code includes methods to get data from a specific cell and to get the row count of a sheet.
- ReadExcelFile.java:** This file is also present in the project but is not currently open.
- Toolbars:** Standard Eclipse toolbars for file operations, search, and navigation are visible at the top.
- Quick Access:** A toolbar on the right side of the header bar.
- Java EE:** A button in the top right corner indicating the current perspective.
- Code Editor:** The main workspace where the Java code is written. Lines 18 through 47 of the DDTExcel.java code are shown.
- Bottom Bar:** Includes tabs for "Problems", "Javadoc", "Declaration", "Console", and "Results of running class DDTExcel". The "Results" tab shows the output of the last run: "terminated> DDTExcel [TestNG] C:\Program Files\Java\jdk1.8.0_311\bin\javaw.exe (Nov 3, 2021, 5:25:31 PM) at org.testng.TestNG.run (TestNG.java:1115)".
- Status Bar:** Shows "Writable", "Smart Insert", and the current line number "12:1".

File Home Insert Page Layout Formulas Data Review View Tell me what you want to do

Cut Copy Format Painter Paste

Font Alignment Number Styles Cells Editing

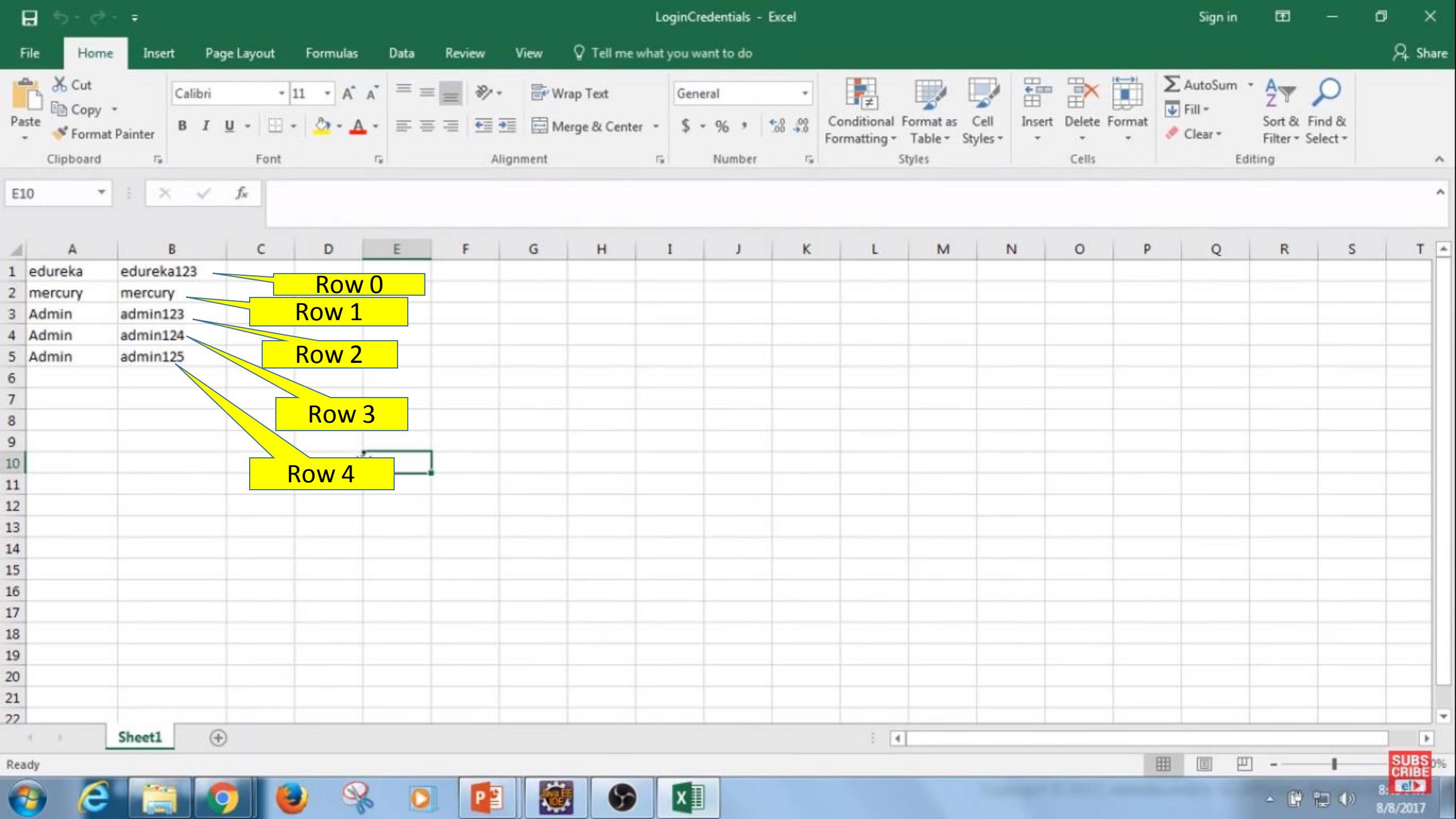
A1

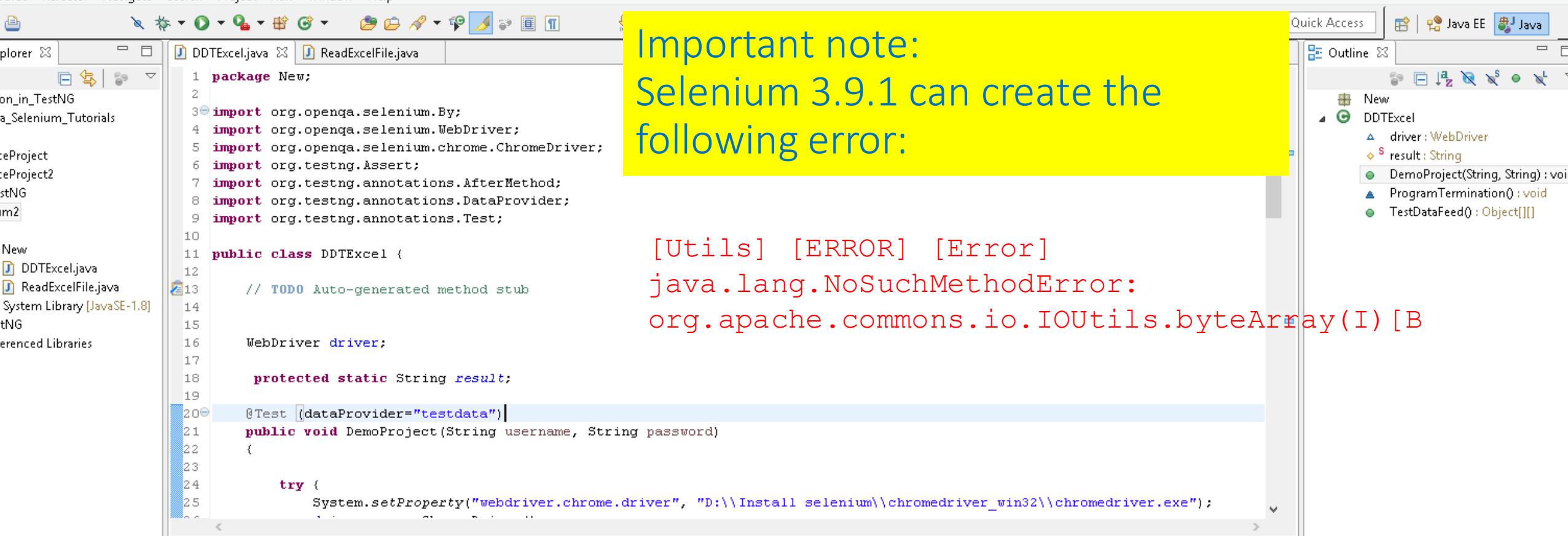
Index = 0
Index = 1
Index = 2
Index = 3

Sheet1 Sheet2 Sheet3 Sheet4 +

SUBSCRIBE

8:00 PM 8/8/2017





Important note:
Selenium 3.9.1 can create the
following error:

```
[Utils] [ERROR] [Error]
java.lang.NoSuchMethodError:
org.apache.commons.io.IOUtils.toByteArray(I) [B
```



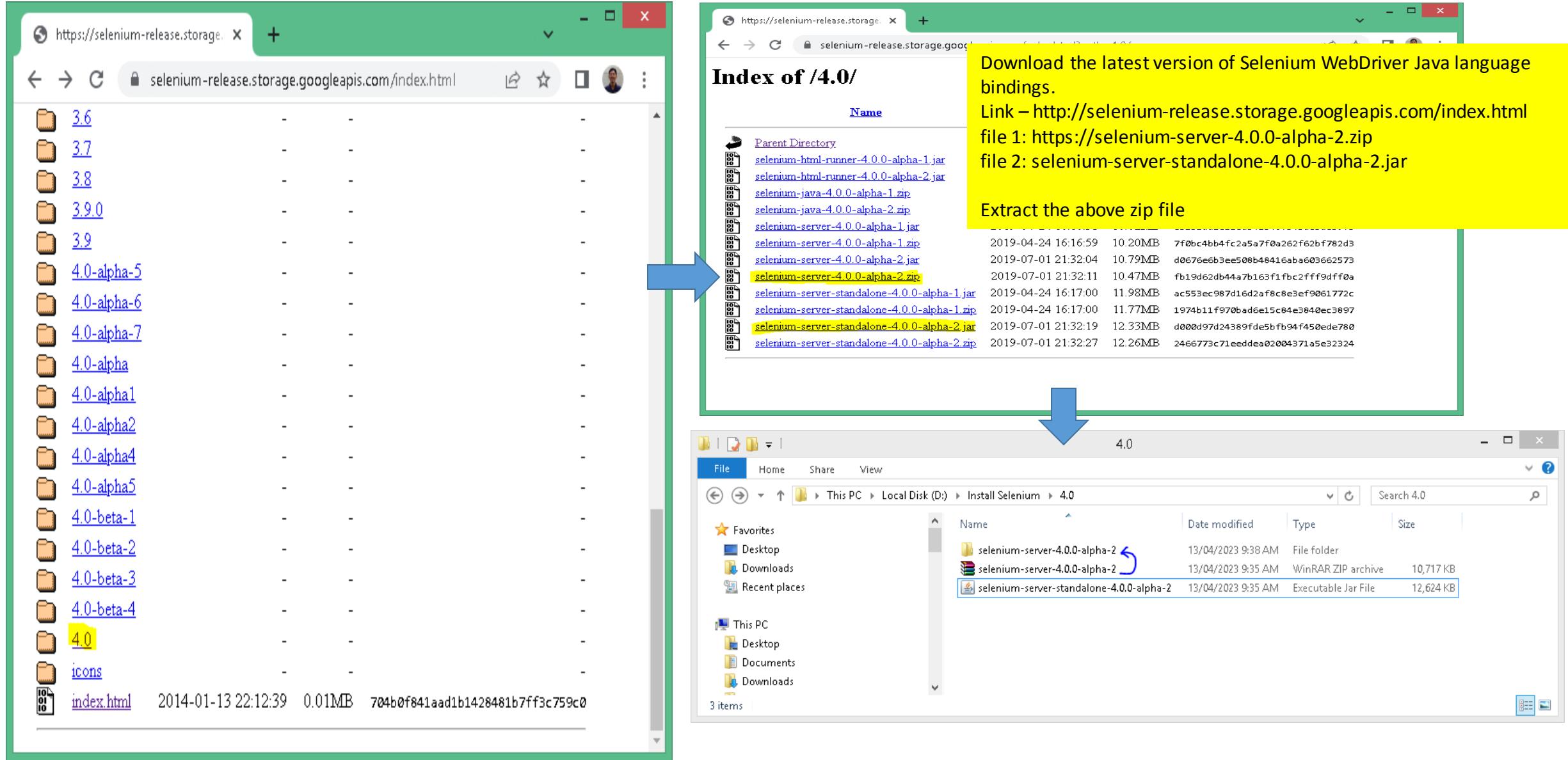
The screenshot shows the Eclipse IDE interface with the following details:

- Top menu bar: Problems, @ Javadoc, Declaration, Console, Results of running class DDTEExcel.
- Console tab is selected.
- Message: <terminated> DDTEExcel [TestNG] C:\Program Files\Java\jdk1.8.0_221\bin\javaw.exe (Apr 13, 2023, 10:59:09 AM)
- Error message: ERROR StatusLogger Log4j2 could not find a logging implementation. Please add log4j-core to the classpath. Using SimpleLogger to log to the console...
- Stack trace (highlighted in yellow):

```
[Utils] [ERROR] [Error] java.lang.NoSuchMethodError: org.apache.commons.io.IOUtils.byteArray(I)[B
at org.apache.commons.io.output.AbstractByteArrayOutputStream.needNewBuffer(AbstractByteArrayOutputStream.java:104)
at org.apache.commons.io.output.UnsynchronizedByteArrayOutputStream.<init>(UnsynchronizedByteArrayOutputStream.java:51)
at org.apache.poi.util.IOUtils.peekFirstNBytes(IOUtils.java:139)
at org.apache.poi.poifs.filesystem.FileMagic.valueOf(FileMagic.java:209)
at org.apache.poi.openxml4j.opc.internal.ZipHelper.verifyZipHeader(ZipHelper.java:143)
at org.apache.poi.openxml4j.opc.internal.ZipHelper.openZipStream(ZipHelper.java:175)
at org.apache.poi.openxml4j.opc.ZipPackage.<init>(ZipPackage.java:130)
at org.apache.poi.openxml4j.opc.OPCPackage.open(OPCPackage.java:319)
at org.apache.poi.ooxml.util.PackageHelper.open(PackageHelper.java:59)
at org.apache.poi.xssf.usermodel.XSSFWorkbook.<init>(XSSFWorkbook.java:290)
at org.apache.poi.xssf.usermodel.XSSFWorkbook.<init>(XSSFWorkbook.java:286)
```

Activate Windows
Go to PC settings to activate Windows.

Solution: Use the latest version of Selenium (4.0) and POI (poi-bin-5.2.3)



Solution: Use the latest version of Selenium (4.0) and POI (poi-bin-5.2.3)

The screenshot shows the Apache POI Download Release Artifacts page. It features the Apache Software Foundation logo and the Apache POI logo. A large blue arrow points from this page to the next one.

Available Downloads
This page provides instructions on how to download and verify the Apache POI release artifacts. There are different versions available depending on how stable your code should be.

- The latest stable release is [Apache POI 5.2.3](#).
- [Archives of all prior releases](#)

Apache POI releases are available under the [Apache License, Version 2.0](#). See the NOTICE file contained in each release artifact for applicable copyright attribution notices.

To ensure that you have downloaded the true release you should [verify the integrity](#) of the files using the signatures and checksums available from this page.

16 September 2022 - POI 5.2.3 available
The Apache POI team is pleased to announce the release of 5.2.3. Featured are a handful of new areas of functionality and numerous bug fixes. A summary of changes is available in the [Release Notes](#). A full list of changes is available in the [change log](#). People interested should also follow the [dev list](#) to track progress.

The POI source release is listed below. Pre-built versions of all [POI components](#) are available in the central Maven repository under Group ID "org.apache.poi" and Version "5.2.3".

Source Distribution

- [poi-src-5.2.3-20220909.tgz](#) (112 MB, [signature \(.asc\)](#), checksum: [SHA-256](#), [SHA-512](#))
- [poi-src-5.2.3-20220909.zip](#) (116 MB, [signature \(.asc\)](#), checksum: [SHA-256](#), [SHA-512](#))

Binary Artifacts
POI 5.2.3 is the last version where we produced a set of poi-bin*.zip and poi-bin*.tgz files. We will continue to publish jars to Maven Central. If you want to download a legacy poi-bin archive, see the [archives of all prior releases](#).

The screenshot shows the Apache POI Download Release Artifacts page, specifically the "Binary Artifacts" section. A large blue arrow points from the previous page to this one.

Binary Artifacts
POI 5.2.3 is the last version where we produced a set of poi-bin*.zip and poi-bin*.tgz files. We will continue to publish jars to Maven Central. If you want to download a legacy poi-bin archive, see the [archives of all prior releases](#).

Verify
It is essential that you verify the integrity of the downloaded files using the PGP and SHA2 signatures. Please read [Verifying Apache HTTP Server Releases](#) for more information on why you should verify releases. This page provides detailed instructions which you can use for POI artifacts. The PGP signatures can be verified using PGP or GPG. First download the [KEYS](#) file as well as the [.asc](#) signature files for the relevant release packages. Make sure you get these files from the main distribution directory, rather than from a mirror. Then [verify the signatures](#).

Batch check of all distribution files:

```
1. find . -name "*.sharzse" -type f -execdir sha256sum -c {} \;
2. find . -name "*.shasig2" -type f -execdir sha256sum -c {} \;
3. find . -name "*.asc" -exec gpg --nosecmem-warning --verify {} \;
```

Sample verification of poi-bin-3.5-FINAL-20090928.tgz

```
1. % gpg --import KEYS
2. evn: key 12345678: "Glen Stampoultzis <glen at apache dot org>" not changed
3. evn: key ACEDD75F: "Nick Bush <nick at apache.org>" not changed
4. evn: key B4E5A42E: "Reinhard Klute <rainer.klute at gmx.de>" not changed
5. evn: key F5B852CD: "Vojtech Kozole <vojtech.kozole at gmail.com>" not changed
6. evn: Total number processed: 4
7. evn: 
8. evn: 
9. evn: % gpg --verify poi-bin-3.5-FINAL-20090928.tgz.asc poi-bin-3.5-FINAL-20090928.tgz
10. evn: Signature made on Sep 28 20:28:25 2009 using RSA key ID F5B852CD
11. evn: Good signature from "Vojtech Kozole <vojtech.kozole at gmail.com>"
12. evn:      aka "Vojtech Kozole <vojtech at dinon dot ru>"
13. evn:      aka "Vojtech Kozole <vojtech at apache dot org>"
14. evn: Primary key fingerprint: 7D77 EC77 EC67 75A4 E6AF 236A 6934 8A62 F5B8 5AC0
15. evn: % gpg --fingerprint F5B852CD
16. evn: pub 3e240f78E5B52CD 2007-06-18 [expires: 2012-06-16]
17. evn:   Key fingerprint = 7D77 EC77 EC67 75A4 E6AF 236A 6934 8A62 F5B8 5AC0
18. evn: uid Vojtech Kozole <vojtech.kozole at gmail.com>
19. evn: uid Vojtech Kozole <vojtech at dinon dot ru>
20. evn: uid Vojtech Kozole <vojtech at apache dot org>
21. sub 4609c77045A008 2007-06-18 [expires: 2012-06-16]
```

Release Archives
Apache POI became a top level project in June 2007 and POI 3.0 artifacts were re-released. Prior to that date POI was a sub-project of [Apache Jakarta](#).

- [Source Artifacts](#)
- [Binary Artifacts](#)
- [Artifacts from prior to 3.0](#)

The screenshot shows a Windows File Explorer window displaying the contents of the "poi-bin-5.2.3" folder. A large blue arrow points from the previous page to this one.

poi-bin-5.2.3

Name	Date modified	Type
auxiliary	09/09/2022 2:55 PM	File folder
lib	09/09/2022 2:54 PM	File folder
ooxml-lib	09/09/2022 2:55 PM	File folder
LICENSE	02/08/2022 5:09 PM	File
NOTICE	02/08/2022 5:09 PM	File
poi-5.2.3	09/09/2022 2:52 PM	Executable Jar File
poi-examples-5.2.3	09/09/2022 2:52 PM	Executable Jar File
poi-excelant-5.2.3	09/09/2022 2:52 PM	Executable Jar File
poi-javadoc-5.2.3	09/09/2022 2:54 PM	Executable Jar File
poi-ooxml-5.2.3	09/09/2022 2:52 PM	Executable Jar File
poi-ooxml-full-5.2.3	09/09/2022 2:52 PM	Executable Jar File
poi-ooxml-lite-5.2.3	09/09/2022 2:53 PM	Executable Jar File
poi-scratchpad-5.2.3	09/09/2022 2:49 PM	Executable Jar File

Quick Access Java EE Java

Package Explor... DDTExcel.java ReadExcelFile.java

```

1 package New;
2
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
5 import org.openqa.selenium.chrome.ChromeDriver;
6 import org.testng.Assert;
7 import org.testng.annotations.AfterMethod;
8 import org.testng.annotations.DataProvider;
9 import org.testng.annotations.Test;
10
11 public class DDTExcel {
12     WebDriver driver;
13     String result;
14
15     @Test(dataProvider = "DDTData")
16     public void DemoProject(String username, String password) {
17         driver.get("http://demo.guru99.com/test/newtours/");
18         driver.findElement(By.name("username")).sendKeys(username);
19         driver.findElement(By.name("password")).sendKeys(password);
20         driver.findElement(By.name("submit")).click();
21         Assert.assertEquals(driver.getTitle(), "Welcome To Our Hotel Management System!");
22     }
23
24     @DataProvider(name = "DDTData")
25     public Object[][] TestDataFeed() {
26         return new Object[][] {
27             {"guru99", "guru99"}, {"testuser", "testuser"}, {"admin", "admin"} };
28     }
29
30     @AfterMethod
31     public void ProgramTermination() {
32         driver.quit();
33     }
34 }
  
```

New Go Into Open in New Window Open Type Hierarchy Show In F4 Alt+Shift+W Copy Ctrl+C Copy Qualified Name Ctrl+V Paste Ctrl+V Delete Delete Remove from Context Ctrl+Alt+Shift+Down Build Path Link Source... New Source Folder... Use as Source Folder Add External Archives... Add Libraries... Configure Build Path... F5 password)

password)

Configure Build Path...

Console Results of running class DDTExcel

Passed: 2 Failed: 3 Skipped: 0 Tests: 1/1 Methods: 5 (74427 ms)

Activate Windows Go to PC settings to activate Windows.

Selenium2 Properties Alt+Enter

Quick Access Java EE Java

Outline New DDTExcel driver : WebDriver result : String DemoProject(String, String) : void ProgramTermination() : void TestDataFeed() : Object[] []

File Edit Source Refactor Navigate Search Project Run Window Help

Quick Access Java EE Java

Package Explor... DDTExcel.java ReadExcelFile.java

```

1 package New;
2
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
5 import org.openqa.selenium.chrome.ChromeDriver;
6 import org.testng.Assert;
7 import org.testng.annotations.AfterMethod;
8 import org.testng.annotations.DataProvider;
9 import org.testng.annotations.Test;
10
11 public class DDTExcel {
12     WebDriver driver;
13     String result;
14
15     @Test(dataProvider = "DDTData")
16     public void DemoProject(String username, String password) {
17         driver.get("http://demo.guru99.com/test/newtours/");
18         driver.findElement(By.name("username")).sendKeys(username);
19         driver.findElement(By.name("password")).sendKeys(password);
20         driver.findElement(By.name("submit")).click();
21         Assert.assertEquals(driver.getTitle(), "Welcome To Our Hotel Management System!");
22     }
23
24     @DataProvider(name = "DDTData")
25     public Object[][] TestDataFeed() {
26         return new Object[][] {
27             {"guru99", "guru99"}, {"testuser", "testuser"}, {"admin", "admin"} };
28     }
29
30     @AfterMethod
31     public void ProgramTermination() {
32         driver.quit();
33     }
34 }
  
```

New Go Into Open in New Window Open Type Hierarchy Show In F4 Alt+Shift+W Copy Ctrl+C Copy Qualified Name Ctrl+V Paste Ctrl+V Delete Delete Remove from Context Ctrl+Alt+Shift+Down Build Path Link Source... New Source Folder... Use as Source Folder Add External Archives... Add Libraries... Configure Build Path... F5 password)

Configure Build Path...

Console Results of running class DDTExcel

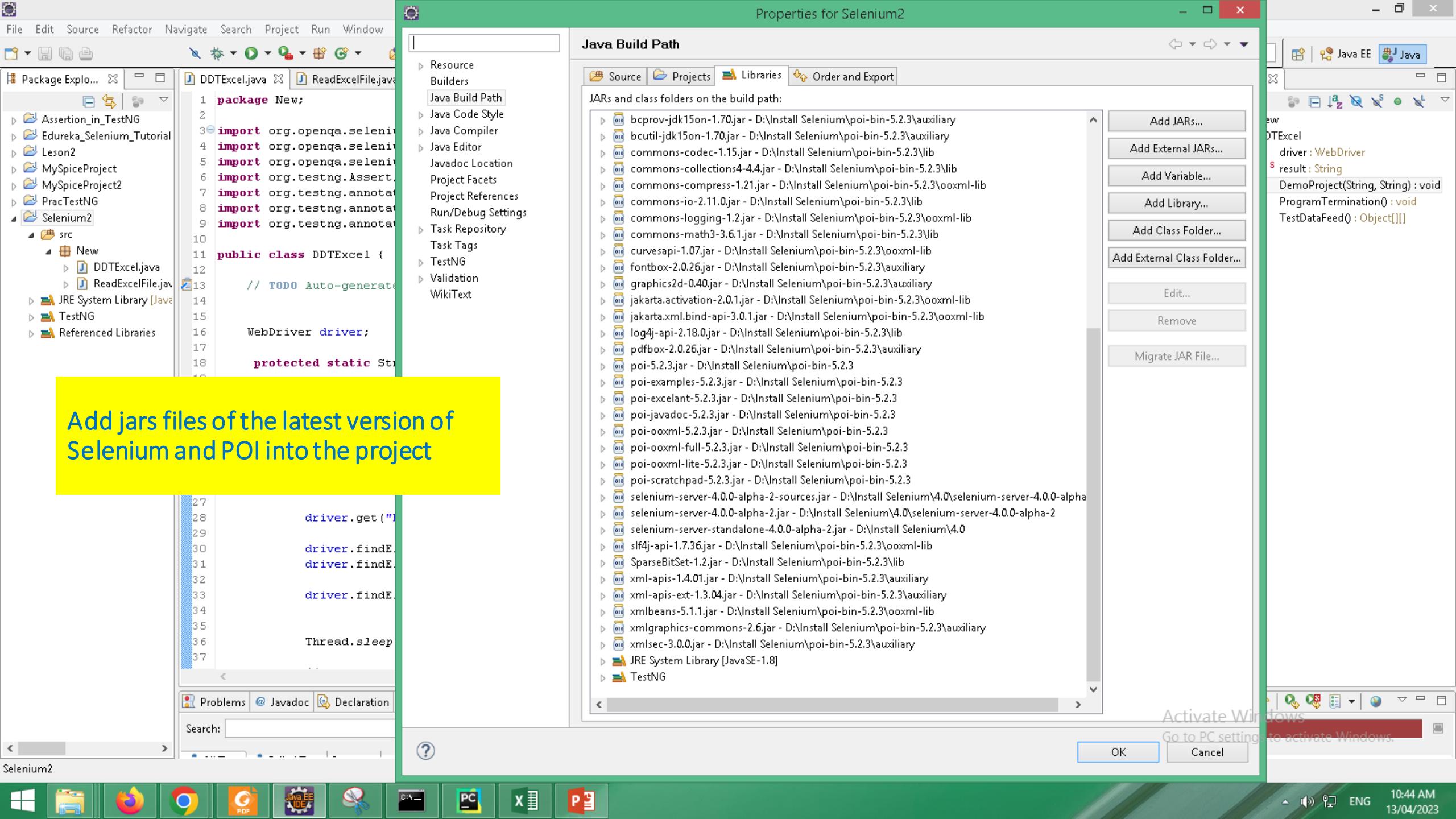
Passed: 2 Failed: 3 Skipped: 0 Tests: 1/1 Methods: 5 (74427 ms)

Activate Windows Go to PC settings to activate Windows.

Selenium2 Properties Alt+Enter

Quick Access Java EE Java

Outline New DDTExcel driver : WebDriver result : String DemoProject(String, String) : void ProgramTermination() : void TestDataFeed() : Object[] []



Run the program



Java EE Java

Quick Access

Package Explorer DDTEExcel.java ReadExcelFile.java

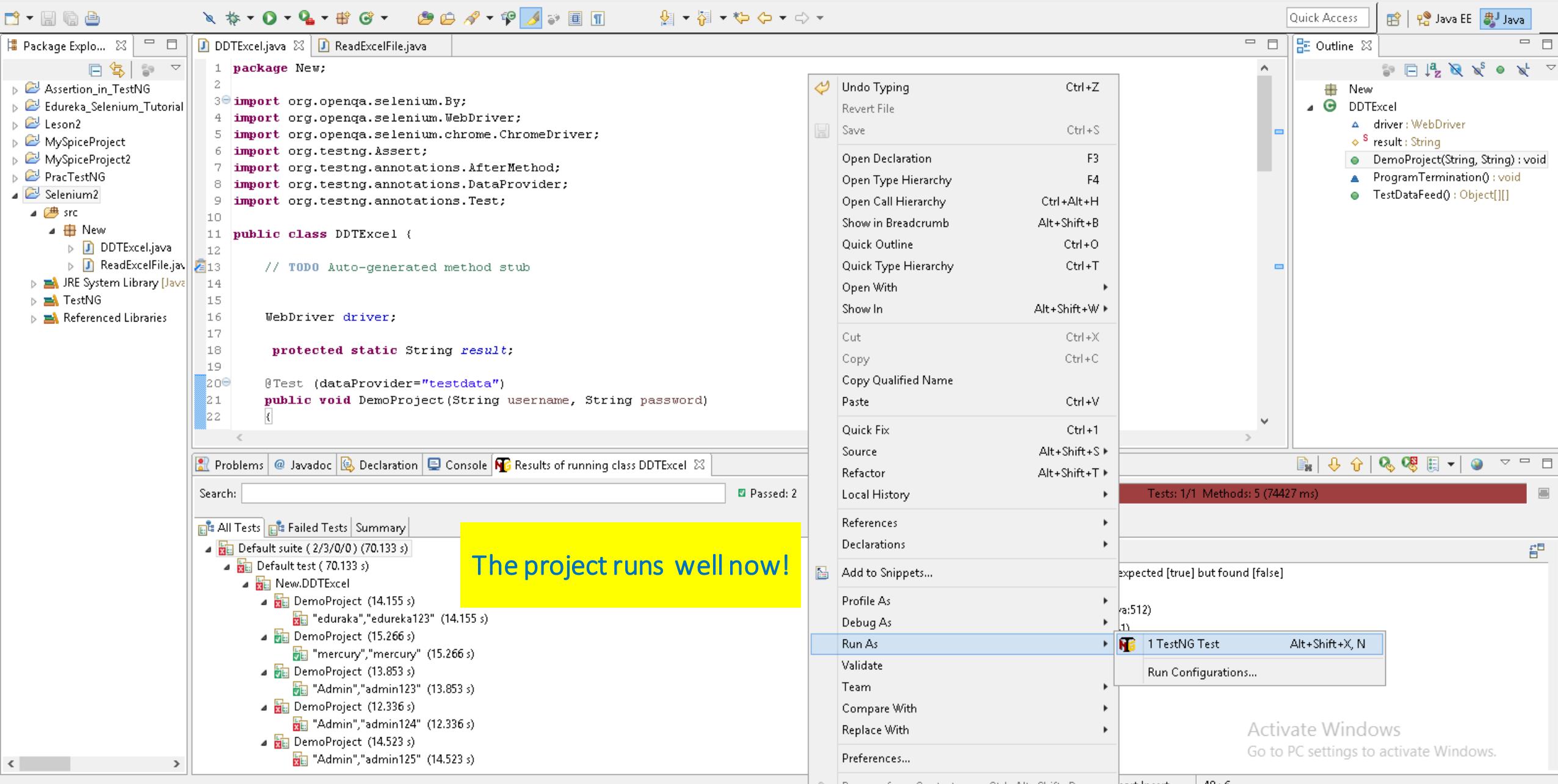
```
10 public class DDTEExcel {
11     // TODO Auto-generated method stub
12     WebDriver driver;
13     protected static String result;
14
15     @TestdataProvider="testdata222"
16     public void DemoProject(String username, String password)
17     {
18         try {
19             System.setProperty("webdriver.chrome.driver", "D:\\Install selenium\\chromedriver_win32\\chromedriver.exe");
20             driver = new ChromeDriver();
21             driver.get("http://newtours.demoaut.com");
22
23             driver.findElement(By.name("userName")).sendKeys(username);
24             driver.findElement(By.name("password")).sendKeys(password);
25             driver.findElement(By.name("submit")).click();
26
27             Thread.sleep(5000);
28
29             Assert.assertTrue(driver.getTitle().matches("Login: Mercury Tours"), "Invalid credentials");
30             System.out.println("Login successful");
31         } catch (InterruptedException e) {
32             // TODO Auto-generated catch block
33             e.printStackTrace();
34         }
35     }
36
37     @AfterMethod
38     void ProgramTermination()
39     {
```

Problems @ Javadoc Declaration Console Results of running class DDTEExcel

<terminated> DDTEExcel [TestNG] C:\Program Files\Java\jdk1.8.0_311\bin\javaw.exe (Nov 3, 2021, 5:25:31 PM)

at org.testng.TestNG.run (TestNG.java:1115)

New.DDTEExcel.java - Selenium/src



Welcome: Mercury Tours

Not secure | newtours.demoaut.com

one cool summer ARUBA

SIGN-ON REGISTER SUPPORT CONTACT

Featured Destination ARUBA

Aug 8, 2017

Find A Flight

Registered users can sign-in here to find the lowest fare on participating airlines.

User Name: edureka

Password:

Sign-In

This island is surrounded by coral reefs, offers guaranteed sunshine and is blessed with beautiful beaches. Luxury resorts have taken up residence along most of the beachfronts on the southern coast, but there are still undeveloped areas on the exposed northern coast, and much of the interior is inhabited by nothing more substantial than goats.

Destinations

Find detailed information about [your destination](#).

Vacations

Read about our [featured vacation destinations](#).

Register

[Register here](#) to join Mercury Tours!

Links

Tour Tips

Business Travel @ About.com

Salon Travel

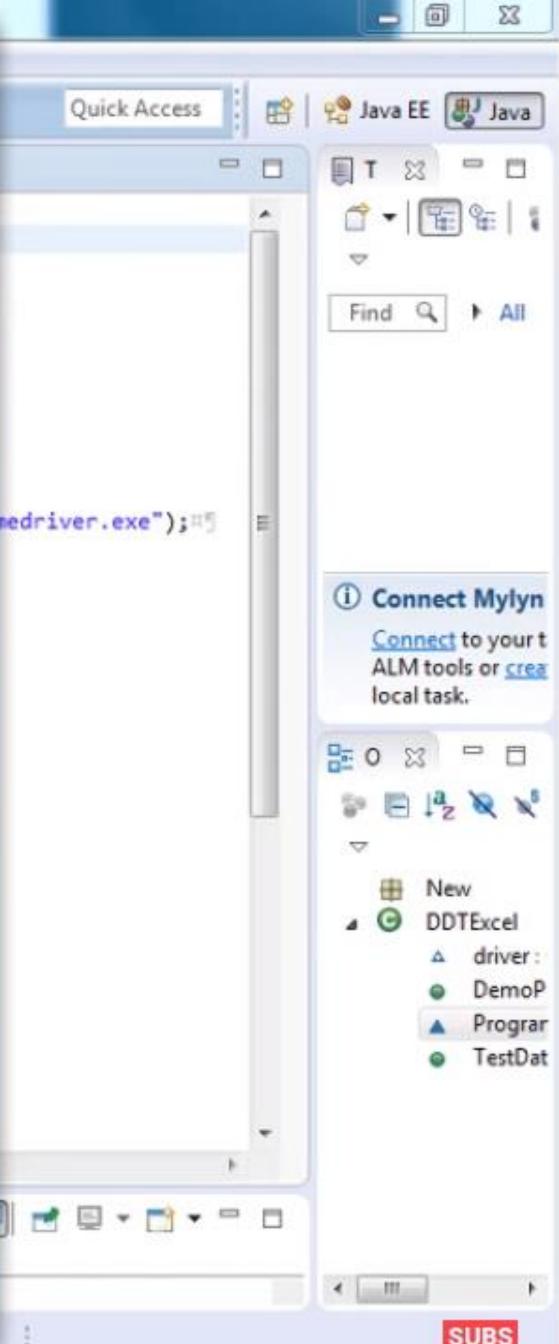
HTML VERSION

Use Java Version

SAVINGS! Rent A Car

CLICK HERE

Login using the first username and password



Find a Flight: Mercury To < newtours.demoaut.com/mercuryreservation.php?osCsid=c5a01d924c230622e98e606ea2c3949c

MERCURY TOURS

one cool summer ARUBA

SIGN-OFF ITINERARY PROFILE SUPPORT CO

FLIGHT FINDER

Use our Flight Finder to search for the lowest fare on participating airlines. Once you've booked your flight, don't forget to visit the Mercury Tours Hotel Finder to reserve lodging in your destination city.

Flight Details

Type: Round Trip One Way

Passengers: 1

Departing From: Acapulco

On: August 8

Arriving In: Acapulco

Returning: August 8

Preferences

Service Class: Economy class Business class First class

Airline: No Preference

CONTINUE

edureka *****

Do you want Google Chrome to save your password for this site?

Save Never

HTML VERSION Use Java Version

SAVINGS! Rent A Car CLICK HERE

© 2005, Mercury Interactive (v. 011003-1.01-058)

Quick Access

Java EE Java

Find All

omedriver.exe");

① Connect Mylyn
Connect to your ALM tools or create local task.

New

DDTExcel

driver:
DemoP
Program
TestDat

SUBSCRIBE

8:11 PM
8/8/2017

Welcome: Mercury Tours

Not secure | newtours.demoaut.com

one cool summer ARUBA

SIGN-ON REGISTER SUPPORT CONTACT

Featured Destination

ARUBA

This island is surrounded by coral reefs, offers guaranteed sunshine and is blessed with beautiful beaches. Luxury resorts have taken up residence along most of the beachfronts on the southern coast, but there are still undeveloped areas on the exposed northern coast, and much of the interior is inhabited by nothing more substantial than goats.

Specials

Atlanta to Las Vegas	\$398
Boston to San Francisco	\$513
Los Angeles to Chicago	\$168
New York to Chicago	\$198
Phoenix to San Francisco	\$213

SIGN-IN

Aug 8, 2017

Find A Flight

Registered users can sign-in here to find the lowest fare on participating airlines.

User Name: mercury

Password:

Sign-In

Destinations

Vacations

Register

Links

Business Travel @ About.com

Salon Travel

Waiting for newtours.demoaut.com...

Login using
the second
username and
password

Quick Access

Java EE Java

Find All

omedriver.exe");

i Connect Mylyn

Connect to your t ALM tools or crea local task.

0

New

DDTExcel

driver:

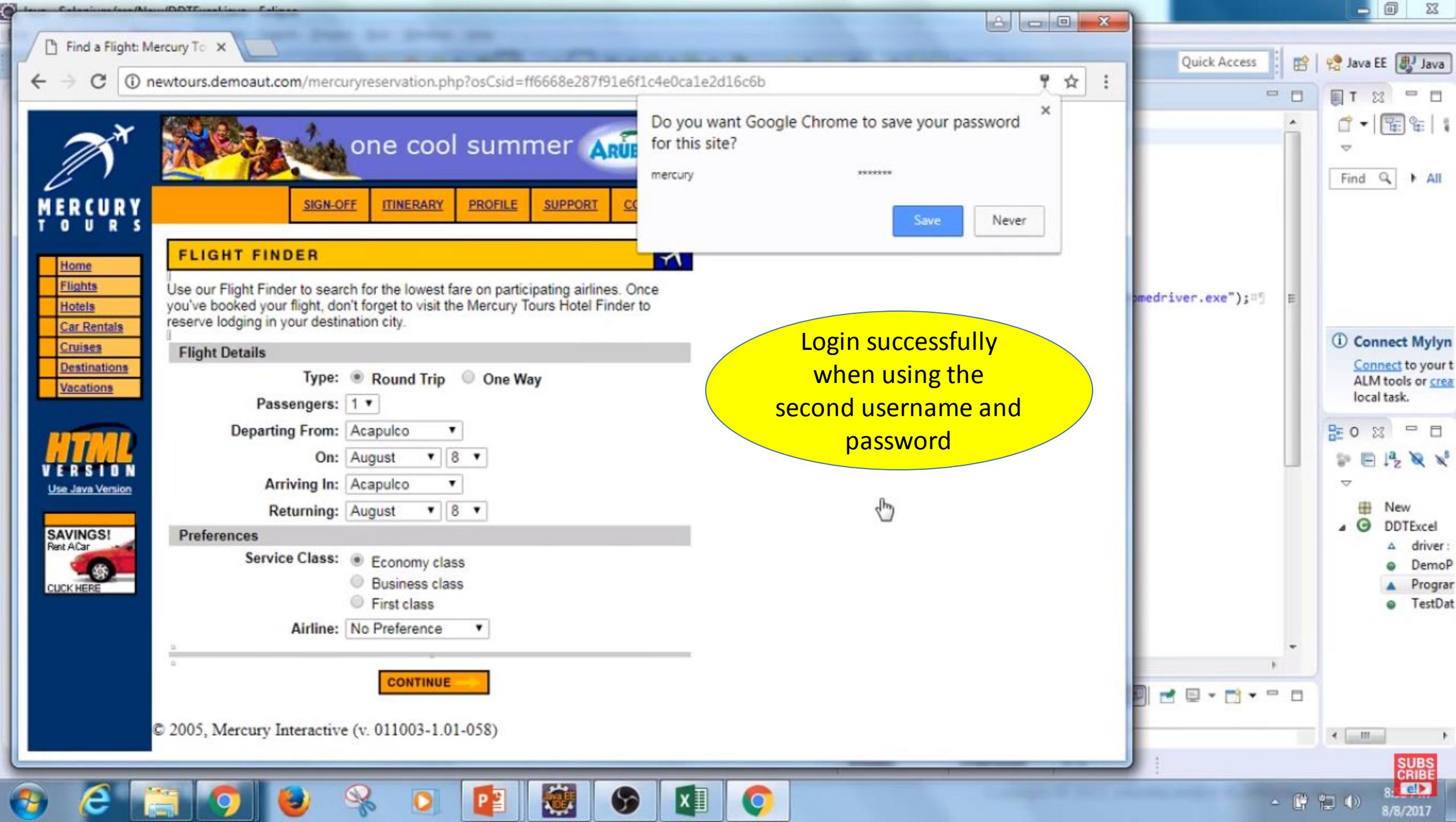
DemoP

Program

TestDat

SUBSCRIBE

8: 8/8/2017



Welcome: Mercury Tours

Not secure | newtours.demoaut.com

MERCURY TOURS

one cool summer ARUBA

SIGN-ON REGISTER SUPPORT CONTACT

Featured Destination ARUBA

Aug 8, 2017

Find A Flight

Registered users can sign-in here to find the lowest fare on participating airlines.

User Name: Admin

Password:

Sign-In

Destinations

Vacations

SAVINGS! Rent A Car

CICK HERE

Specials

Atlanta to Las Vegas \$398

Boston to San Francisco \$513

Los Angeles to Chicago \$168

New York to Chicago \$198

Phoenix to San Francisco \$213

Business Travel @ About.com

Salon Travel

HTML VERSION Use Java Version

Quick Access Java EE Java

Find All

omedriver.exe");

① Connect Mylyn

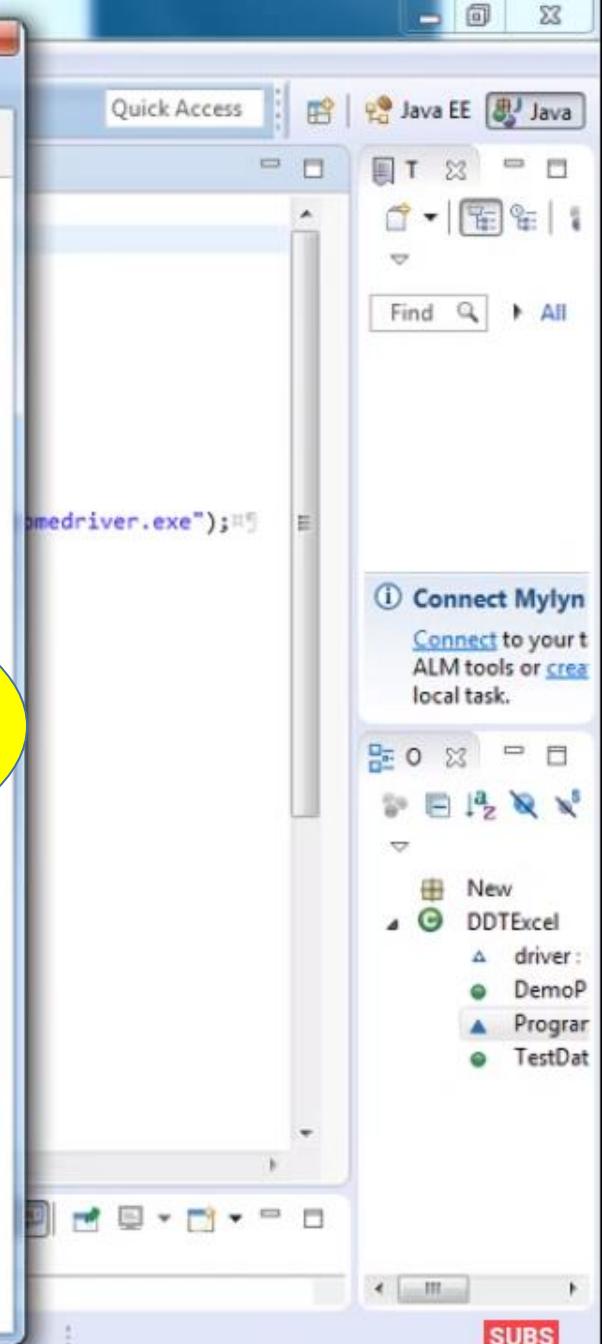
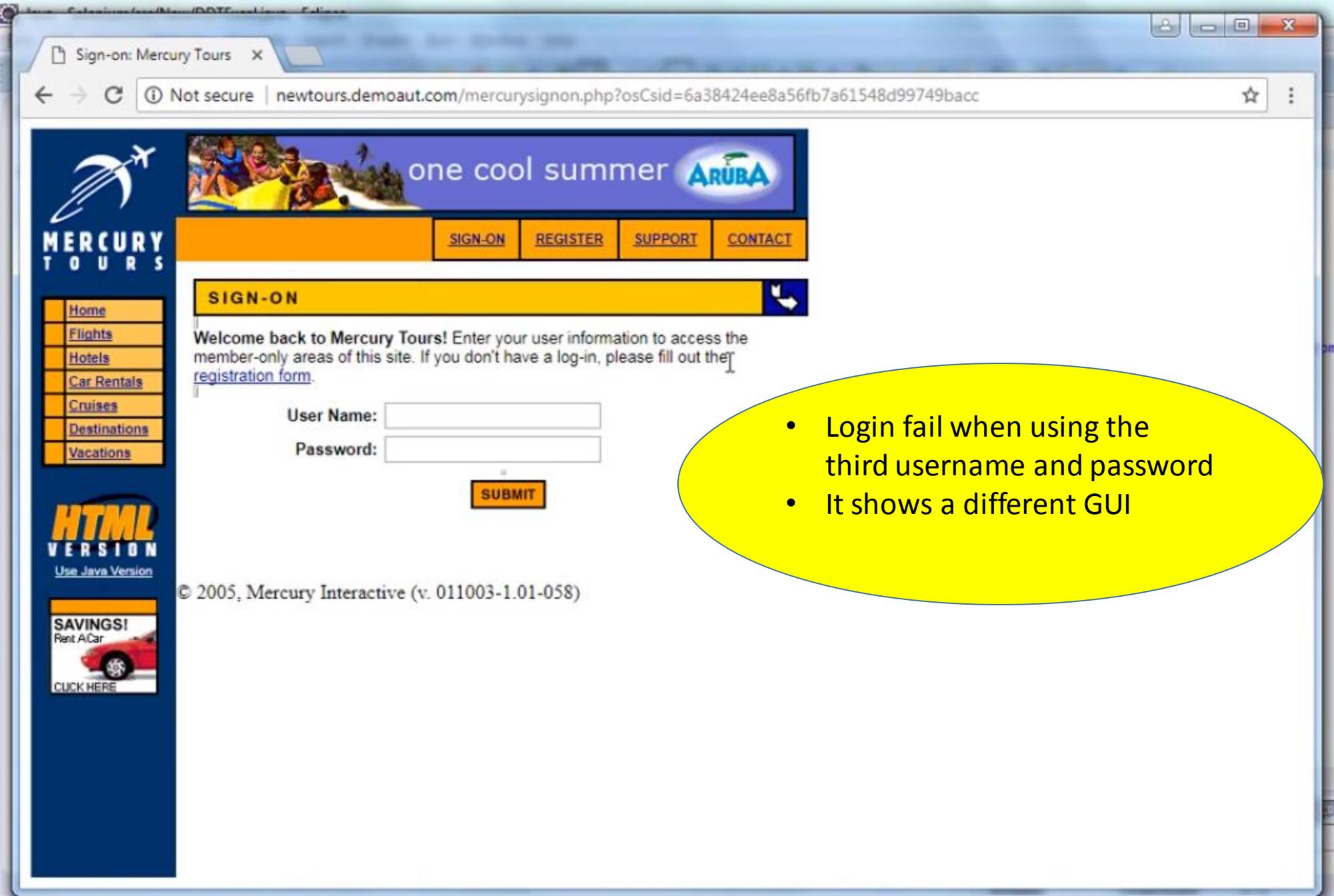
Connect to your ALM tools or create local task.

New DDTExcel driver: DemoP Program TestDat

Waiting for newtours.demoaut.com...

Log in using the third username and password

8: 8/8/2017



File Home Insert Page Layout Formulas Data Review View Tell me what you want to do

Cut Copy Format Painter Paste

Font Alignment Number Styles Cells Editing

General \$ % ,

Conditional Format as Table Styles

AutoSum Fill Sort & Find & Select Clear

A1 edureka

The first two testcases using valid usernames and valid passwords

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	edureka	edureka123																		
2	mercury	mercury																		
3	Admin	admin123																		
4	Admin	admin124																		
5	Admin	admin125																		
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				

Sheet1 Sheet2 Sheet3 Sheet4 +

Count: 4

SUBSCRIBE

8: el 8/8/2017

File Home Insert Page Layout Formulas Data Review View Tell me what you want to do

Cut Copy Format Painter Paste

Font Alignment Number Styles Cells Editing

A3 Admin

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	edureka	edureka123																		
2	mercury	mercury																		
3	Admin	admin123																		
4	Admin	admin124																		
5	Admin	admin125																		
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
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20																				
21																				
22																				

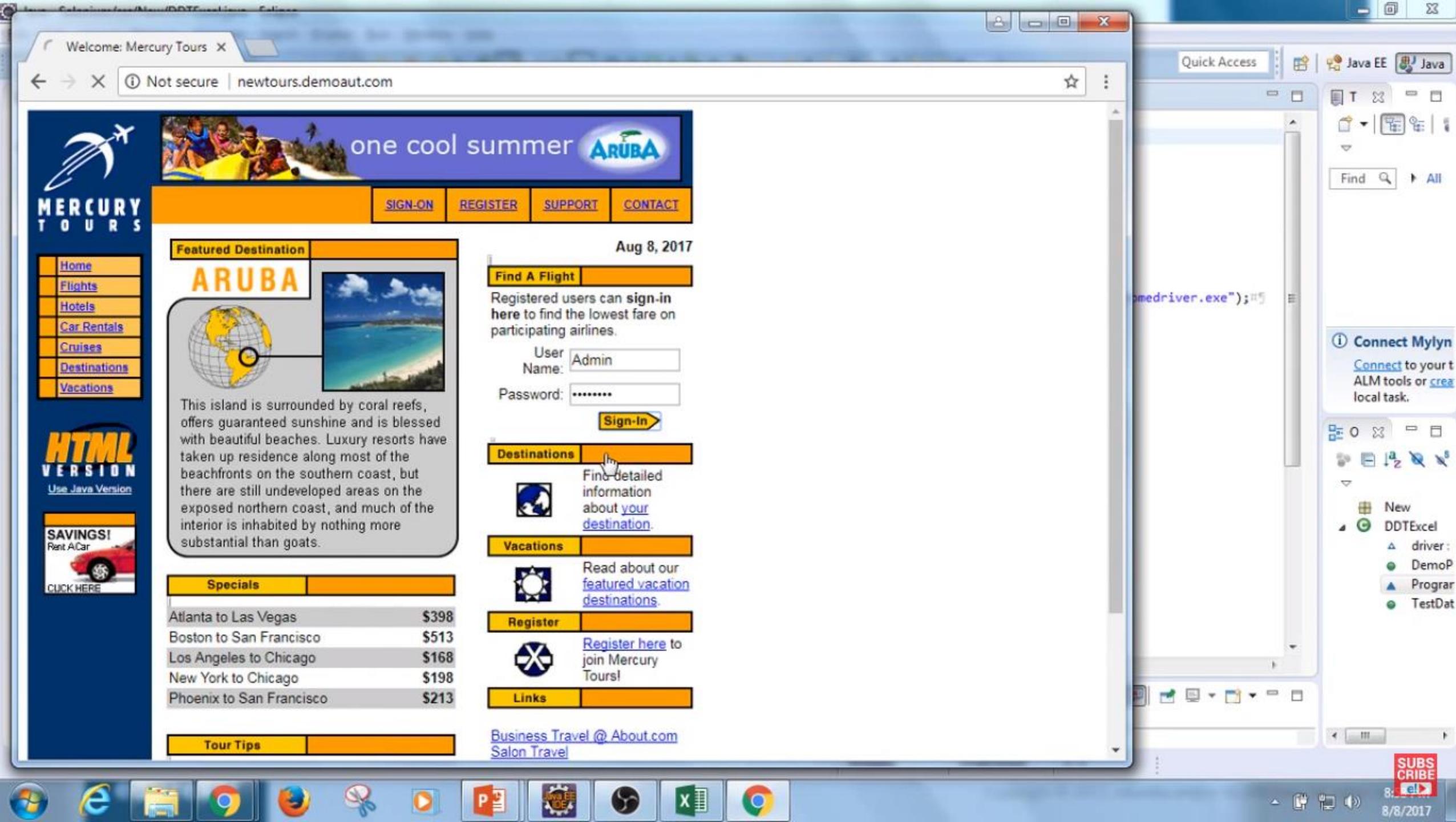
The last three test cases using invalid usernames and invalid passwords, so the login failed

Sheet1 Sheet2 Sheet3 Sheet4 +

Count: 6

SUBSCRIBE

8: el 8/8/2017



Java - Selenium/src/New/DDTExcel.java - Eclipse

File Edit Source Refactor Navigate Search Project Run Window Help

Quick Access Java EE Java

Selenium

- src
 - New
 - DDTExcel.java
 - DDTLocal.java
 - ReadExcelFile.java
- JRE System Library [JavaSE-1.8]
- Referenced Libraries
- TestNG
- test-output
- Selenium-Demo
- SeleniumProject
- seleniumtest
- SeleniumYouTubeDemo

DDTExcel.java ReadExcelFile.java

1 package New;

Console Results of running class DDTExcel

```
<terminated> DDTExcel [TestNG] C:\Program Files\Java\jre1.8.0_131\bin\javaw.exe (Aug 8, 2017, 8:57:48 PM)
at org.testng.internal.Invoker.invokeTestMethod(Invoker.java:869)
at org.testng.internal.Invoker.invokeTestMethods(Invoker.java:1193)
at org.testng.internal.TestMethodWorker.invokeTestMethods(TestMethodWorker.java:126)
at org.testng.internal.TestMethodWorker.run(TestMethodWorker.java:109)
at org.testng.TestRunner.privateRun(TestRunner.java:744)
at org.testng.TestRunner.run(TestRunner.java:602)
at org.testng.SuiteRunner.runTest(SuiteRunner.java:380)
at org.testng.SuiteRunner.runSequentially(SuiteRunner.java:375)
at org.testng.SuiteRunner.privateRun(SuiteRunner.java:340)
at org.testng.SuiteRunner.run(SuiteRunner.java:289)
at org.testng.SuiteRunnerWorker.runSuite(SuiteRunnerWorker.java:52)
at org.testng.SuiteRunnerWorker.run(SuiteRunnerWorker.java:86)
at org.testng.TestNG.runSuitesSequentially(TestNG.java:1301)
at org.testng.TestNG.runSuitesLocally(TestNG.java:1226)
at org.testng.TestNG.runSuites(TestNG.java:1144)
at org.testng.TestNG.run(TestNG.java:1115)
at org.testng.remote.AbstractRemoteTestNG.run(AbstractRemoteTestNG.java:132)
at org.testng.remote.RemoteTestNG.initAndRun(RemoteTestNG.java:230)
at org.testng.remote.RemoteTestNG.main(RemoteTestNG.java:76)
```

=====

Default test

Tests run: 5, Failures: 3, Skips: 0

=====

=====

Default suite

Total tests run: 5, Failures: 3, Skips: 0

=====

Console shows:

- Tests run: 5
- Failures: 3
- Skips: 0

Find All

① Connect Mylyn
Connect to your ALM tools or create local task.

0 New

DDTExcel

- driver : DemoP
- Program
- TestDat

SUBSCRIBE

8:11 8/8/2017

Java - Selenium/src/New/DDTExcel.java - Eclipse

File Edit Source Refactor Navigate Search Project Run Window Help

Quick Access Java EE Java

Package Expl... JUnit DDTExcel.java ReadExcelFile.java

1 package New;

Console Results of running class DDTExcel

<terminated> DDTExcel [TestNG] C:\Program Files\Java\jre1.8.0_131\bin\javaw.exe (Aug 8, 2017, 8:57:48 PM)

Starting ChromeDriver 2.27.440174 (e97a722caafc2d3a8b807ee115bfb307f7d2cf9) on port 34460
Only local connections are allowed.
log4j:WARN No appenders could be found for logger (org.apache.http.client.protocol.RequestAddCookies).
log4j:WARN Please initialize the log4j system properly.
log4j:WARN See http://logging.apache.org/log4j/1.2/faq.html#noconfig for more info.
Aug 08, 2017 8:57:53 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: OSS
Login successful ←

Starting ChromeDriver 2.27.440174 (e97a722caafc2d3a8b807ee115bfb307f7d2cf9) on port 11679
Only local connections are allowed.
Aug 08, 2017 8:58:07 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: OSS
Login successful ←

Starting ChromeDriver 2.27.440174 (e97a722caafc2d3a8b807ee115bfb307f7d2cf9) on port 25947
Only local connections are allowed.
Aug 08, 2017 8:58:22 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: OSS
Starting ChromeDriver 2.27.440174 (e97a722caafc2d3a8b807ee115bfb307f7d2cf9) on port 33295
Only local connections are allowed.
Aug 08, 2017 8:58:34 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: OSS
Starting ChromeDriver 2.27.440174 (e97a722caafc2d3a8b807ee115bfb307f7d2cf9) on port 10615
Only local connections are allowed.
Aug 08, 2017 8:58:47 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: OSS
PASSED: DemoProject("edureka", "edureka123")
PASSED: DemoProject("mercury", "mercury")
FAILED: DemoProject("Admin", "admin123")
java.lang.AssertionError: Invalid credentials expected [true] but found [false]
at org.testng.Assert.fail(Assert.java:93)
at org.testng.Assert.failNotEquals(Assert.java:512)
at org.testng.Assert.assertTrue(Assert.java:41)
at New.DDTExcel.DemnProject(DDTExcel.java:28)

Find All

① Connect Mylyn
Connect to your ALM tools or create local task.

New DDTExcel driver: DemoP Program TestDat

SUBSCRIBE

The first fail

Console also shows: 2 logins successful

Java - Selenium/src/New/DDTExcel.java - Eclipse

File Edit Source Refactor Navigate Search Project Run Window Help

Quick Access Java EE Java

Package Expl... JUnit

Selenium

- src
 - New
 - DDTExcel.java
 - DDTLocal.java
 - ReadExcelFile.java
- JRE System Library [JavaSE-1.8]
- Referenced Libraries
- TestNG
- test-output
- Selenium-Demo
- SeleniumProject
- seleniumtest
- SeleniumYouTubeDemo

DDTExcel.java ReadExcelFile.java

1 package New;

Console Results of running class DDTExcel

<terminated> DDTExcel [TestNG] C:\Program Files\Java\jre1.8.0_131\bin\javaw.exe (Aug 8, 2017, 8:57:48 PM)

```
at org.testng.TestNG.run(TestNG.java:1115)
at org.testng.remote.AbstractRemoteTestNG.run(AbstractRemoteTestNG.java:132)
at org.testng.remote.RemoteTestNG.initAndRun(RemoteTestNG.java:230)
at org.testng.remote.RemoteTestNG.main(RemoteTestNG.java:76)

FAILED: DemoProject("Admin", "admin124")
java.lang.AssertionError: Invalid credentials expected [true] but found [false]
at org.testng.Assert.fail(Assert.java:93)
at org.testng.Assert.failNotEquals(Assert.java:512)
at org.testng.Assert.assertTrue(Assert.java:41)
at New.DDTExcel.DemoProject(DDTExcel.java:28)
at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
at sun.reflect.NativeMethodAccessorImpl.invoke(Unknown Source)
at sun.reflect.DelegatingMethodAccessorImpl.invoke(Unknown Source)
at java.lang.reflect.Method.invoke(Unknown Source)
at org.testng.internal.MethodInvocationHelper.invokeMethod(MethodInvocationHelper.java:108)
at org.testng.internal.Invoker.invokeMethod(Invoker.java:661)
at org.testng.internal.Invoker.invokeTestMethod(Invoker.java:869)
at org.testng.internal.Invoker.invokeTestMethods(Invoker.java:1193)
at org.testng.internal.TestMethodWorker.invokeTestMethods(TestMethodWorker.java:126)
at org.testng.internal.TestMethodWorker.run(TestMethodWorker.java:109)
at org.testng.TestRunner.privateRun(TestRunner.java:744)
at org.testng.TestRunner.run(TestRunner.java:602)
at org.testng.SuiteRunner.runTest(SuiteRunner.java:380)
at org.testng.SuiteRunner.runSequentially(SuiteRunner.java:375)
at org.testng.SuiteRunner.privateRun(SuiteRunner.java:340)
at org.testng.SuiteRunner.run(SuiteRunner.java:289)
at org.testng.SuiteRunnerWorker.runSuite(SuiteRunnerWorker.java:52)
at org.testng.SuiteRunnerWorker.run(SuiteRunnerWorker.java:86)
at org.testng.TestNG.runSuitesSequentially(TestNG.java:1301)
at org.testng.TestNG.runSuitesLocally(TestNG.java:1226)
at org.testng.TestNG.runSuites(TestNG.java:1144)
at org.testng.TestNG.run(TestNG.java:1115)
```

The next fail

① Connect Mylyn
Connect to your ALM tools or create local task.

0 New

DDTExcel

- driver :
- DemoP
- Program
- TestDat

SUBSCRIBE

8: el 8/8/2017

Java - Selenium/src/New/DDTExcel.java - Eclipse

File Edit Source Refactor Navigate Search Project Run Window Help

Quick Access Java EE Java

Package Expl... JUnit DDTExcel.java ReadExcelFile.java

1 package New;

Console Results of running class DDTExcel

<terminated> DDTExcel [TestNG] C:\Program Files\Java\jre1.8.0_131\bin\javaw.exe (Aug 8, 2017, 8:57:48 PM)

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at org.testng.TestNG.runSuitesLocally(TestNG.java:1226)
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at org.testng.remote.RemoteTestNG.initAndRun(RemoteTestNG.java:230)
at org.testng.remote.RemoteTestNG.main(RemoteTestNG.java:76)
```

FAILED: DemoProject("Admin", "admin125")

```
java.lang.AssertionError: Invalid credentials expected [true] but found [false]
at org.testng.Assert.fail(Assert.java:93)
at org.testng.Assert.failNotEquals(Assert.java:512)
at org.testng.Assert.assertTrue(Assert.java:41)
at New.DDTExcel.DemoProject(DDTExcel.java:28)
at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
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at org.testng.internal.TestMethodWorker.run(TestMethodWorker.java:109)
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at org.testng.TestRunner.run(TestRunner.java:602)
at org.testng.SuiteRunner.runTest(SuiteRunner.java:380)
at org.testng.SuiteRunner.runSequentially(SuiteRunner.java:375)
at org.testng.SuiteRunner.privateRun(SuiteRunner.java:340)
at org.testng.SuiteRunner.run(SuiteRunner.java:289)
at org.testng.SuiteRunnerWorker.runSuite(SuiteRunnerWorker.java:52)
at org.testng.SuiteRunnerWorker.run(SuiteRunnerWorker.java:86)
at org.testng.TestNG.runSuitesSequentially(TestNG.java:1301)
at org.testng.TestNG.runSuitesSequentially(TestNG.java:1226)
```

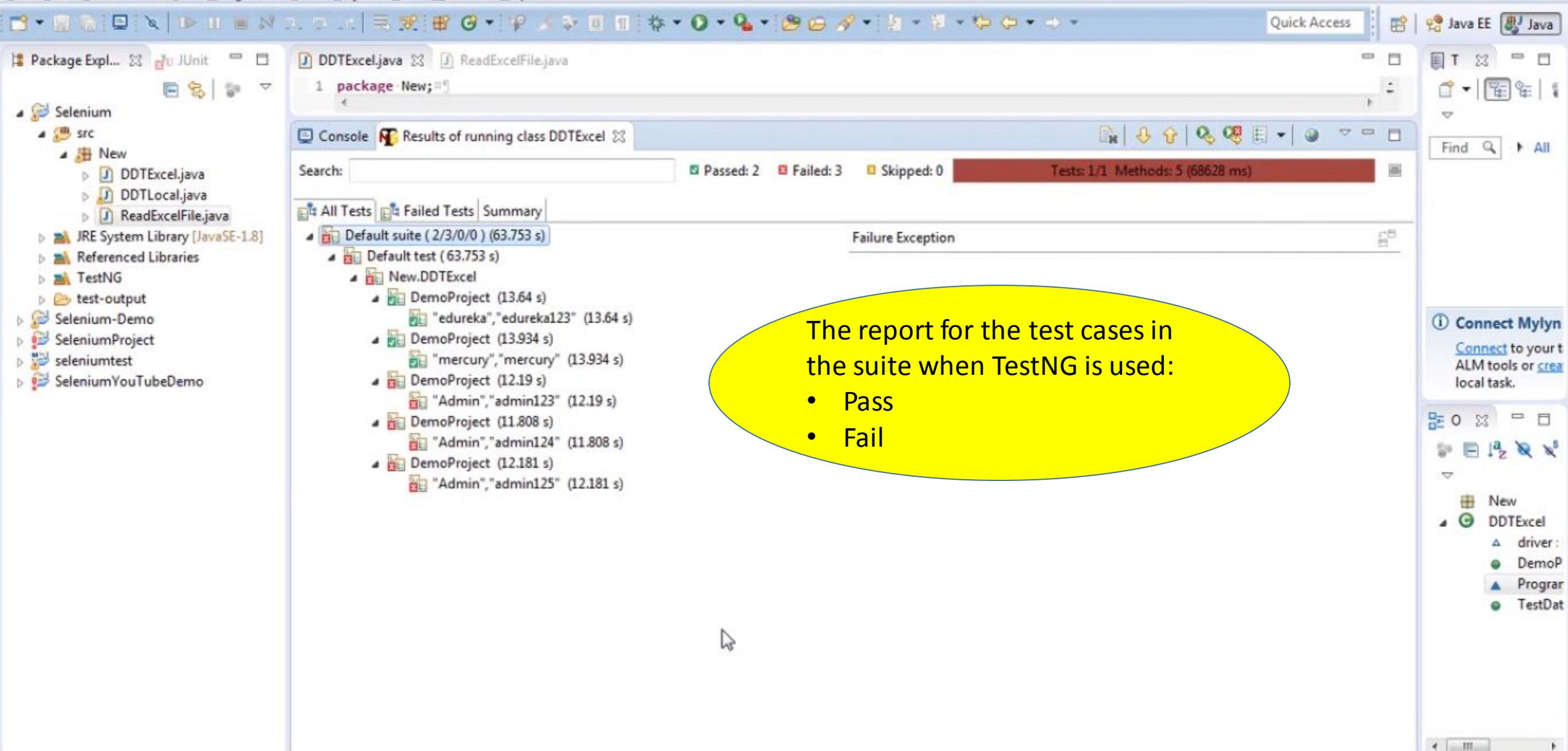
The last fail

① Connect Mylyn
Connect to your ALM tools or create local task.

0 X □

New DDTExcel driver: DemoP Program TestDat

SUBSCRIBE



The report for the test cases in the suite when TestNG is used:

- Pass
 - Fail

Some changes in practice (1)

- The page is tested: <http://demo.guru99.com/test/newtours/>

Welcome: Mercury Tours +

Not secure | demo.guru99.com/test/newtours/

Selenium - Insurance Project Agile Project Bank Project Security Project Telecom Project Payment Gateway Project New Tours SEO -

MERCURY TOURS

one cool summer ARUBA

SIGN-ON REGISTER SUPPORT CONTACT

Featured Destination ARUBA

Jul 6, 2017

Find A Flight

Registered users can sign-in here to find the lowest fare on participating airlines.

User Name:

Password:

Submit

Destinations

Find detailed information about [your destination](#).

Vacations

Read about our [featured vacation destinations](#).

Register

[Register here](#) to join Mercury Tours!

Links

Tour Tips

TIP #93 Always carry a travel first aid kit with bandages, antacids, aspirin, bee sting wipes, and other basic

HTML VERSION
Use Java Version

Business Travel @ About.com
Salon Travel

This screenshot shows a web browser displaying the Mercury Tours website. The page features a top navigation bar with links for Selenium, Insurance Project, Agile Project, Bank Project, Security Project, Telecom Project, Payment Gateway Project, New Tours, and SEO. On the left, there's a sidebar with a logo, a menu for Home, Flights, Hotels, Car Rentals, Cruises, Destinations, and Vacations, and a link to the HTML version or Java version. The main content area has a banner for 'one cool summer ARUBA'. Below the banner are buttons for SIGN-ON, REGISTER, SUPPORT, and CONTACT. A 'Featured Destination' section highlights ARUBA, showing a globe icon and a photo of a beach. To the right, there's a login form for registered users with fields for User Name and Password, and a Submit button. Below the login, there are sections for Destinations (with a link to detailed information) and Vacations (with a link to featured vacation destinations). There are also Register and Links sections. At the bottom, there's a 'Tour Tips' section with a tip about carrying a travel first aid kit, and a 'TIP #93' box. The URL in the address bar is 'http://demo.guru99.com/test/newtours/'.

Some changes in practice (2)

Welcome: Mercury Tours +

Not secure | demo.guru99.com/test/newtours/

MERCURY TOURS

one cool summer

SIGN-ON REGISTER SUPPORT

Featured Destination ARUBA

This island is surrounded by coral reefs, offers guaranteed sunshine and is blessed with beautiful beaches. Luxury resorts have taken up residence along most of the beachfronts on the southern coast, but there are still undeveloped areas on the exposed northern coast, and much of the interior is inhabited by nothing more substantial than goats.

Specials

Atlanta to Las Vegas	\$398
Boston to San Francisco	\$513
Los Angeles to Chicago	\$168
New York to Chicago	\$198
Phoenix to San Francisco	\$213

Tour Tips

TIP #93 Always carry a travel first aid kit with bandages, antacids, aspirin, bee sting wipes, and other basic necessities.

Find A Flight

Registered user here to find the participating air...

User Name:

Password:

Submit

Destinations Find detailed information about your destination.

Vacations Read about our featured vacation destinations.

Register Register here to join Mercury Tours!

Links

Business Travel @ About.com
Salon Travel

HTML VERSION Use Java Version

Elements Console Sources Network Performance Memory

<tr>

<td width="273" valign="top">...</td>

<td width="216">&nbsp&nbsp&nbsp</td>

<td width="192" valign="top">

<form method="post" action="index.php" name="home">

<input type="hidden" name="action" value="process">

<table width="192" border="0" cellspacing="0" cellpadding="0">

<tbody>

<tr align="right">...</tr>

<tr>...</tr>

<tr>...</tr>

<tr>

<td colspan="2">

<table width="100%" border="0" cellspacing="0" cellpadding="3" style="margin:5px;">

<tbody>

<tr>...</tr>

<tr>

<td align="right">...</td>

<td width="112" style="font-family:Arial, Helvetica;font-size:13px;color:#000;padding:5px;">

<input type="text" name="userName" size="10"> == \$0

...

Console What's New

Unchecked runtime.lastError: The message port closed before a response was received.

Failed to load resource: the server responded with a status of 404 (Not Found) spacer.gif:1

Failed to load resource: the server responded with a status of 404 (Not Found) black:1

DevTools failed to load source map: Could not load content for http://demo.guru99.com/test/css/bootstrap.min.css.map: HTTP error: status code 404, net::ERR_HTTP_RESPONSE_CODE_FAILURE

Type here to search

29°C ENG US 03-Nov-21 7:09 PM

Some changes in practice (3)

Welcome: Mercury Tours Not secure | demo.guru99.com/test/newtours/

Elements Console Sources Network Performance Memory Styles

input 102.43 x 20.42
Background: #FFFFFF
Padding: 1px 2px

Find A Flight
Registered user here to find the participating air
Name: textbox
Role: Keyboard-focusable ✓
User Name:
Password:
Submit
Destinations: Find detailed information about your destination.
Vacations: Read about our featured vacation destinations.
Register: Register here to join Mercury Tours!
Links
Business Travel @ About.com
Salon Travel

ARUBA

This island is surrounded by coral reefs, offers guaranteed sunshine and is blessed with beautiful beaches. Luxury resorts have taken up residence along most of the beachfronts on the southern coast, but there are still undeveloped areas on the exposed northern coast, and much of the interior is inhabited by nothing more substantial than goats.

MERCURY TOURS

Home
Flights
Hotels
Car Rentals
Cruises
Destinations
Vacations

HTML VERSION
Use Java Version

Atlanta to Las Vegas \$398
Boston to San Francisco \$513
Los Angeles to Chicago \$168
New York to Chicago \$198
Phoenix to San Francisco \$213

Tour Tips
TIP #93 Always carry a travel first aid kit with bandages, antacids, aspirin, bee sting wipes, and other basic necessities.

...

<td align="right">...</td>
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 <input type="text" name="userName" size="10">
</td>
</tr>
<tr>
 <td align="right">...</td>
 <td width="112" style="font-family:Arial, Helvetica;font-size:13px;color:#000;padding:5px;">
 <input type="password" name="password" size="10"> == \$0

 </td>
</tr>
<tr>...</tr>
<tr>...</tr>
</tbody>
</table>
</td>
</tr>

...

Console What's New

Unchecked runtime.lastError: The message port closed before a response was received.
Failed to load resource: the server responded with a status of 404 (Not Found) spacer.gif:1
Failed to load resource: the server responded with a status of 404 (Not Found) black:1
DevTools failed to load source map: Could not load content for http://demo.guru99.com/test/css/bootstrap.min.css.map: HTTP error: status code 404, net::ERR_HTTP_RESPONSE_CODE_FAILURE

Type here to search

O E C G F M P W D S PDF IDE

Cloud 29°C 7:11 PM ENG US 03-Nov-21

Some changes in practice (4)

Welcome: Mercury Tours +

Not secure | demo.guru99.com/test/newtours/

MERCURY TOURS

one cool summer ARUBA

SIGN-ON REGISTER SUPPORT CONTACT

Featured Destination ARUBA

This island is surrounded by coral reefs, offers guaranteed sunshine and is blessed with beautiful beaches. Luxury resorts have taken up residence along most of the beachfronts on the southern coast, but there are still undeveloped areas on the exposed northern coast, and much of the interior is inhabited by nothing more substantial than goats.

HTML VERSION Use Java Version

Specials

Atlanta to Las Vegas	\$398
Boston to San Francisco	\$513
Los Angeles to Chicago	\$168
New York to Chicago	\$198
Phoenix to San Francisco	\$213

Tour Tips

TIP #93 Always carry a travel first aid kit with bandages, antacids, aspirin, bee sting wipes, and other basic necessities.

Find A Flight

Registered user here to find the participating airline

Name Submit

User Name:

Role

Password:

ACCESSIBILITY Keyboard-focusable

Destinations

Find detailed information about your destination.

Vacations

Read about our featured vacation destinations.

Register

Register here to join Mercury Tours!

Links

Business Travel @ About.com
Salon Travel

Elements Console Sources Network Performance Memory

<td width="112" style="font-family:Arial, Helvetica;font-size:13px;color:#000;padding:5px;">

input type="password" name="password" size="10">

</td>

</tr>

<td align="right">&nbsp</td>

<td width="112">

<div align="center">

<input type="submit" name="submit" value="Submit" style="background-color: #FACB00;border: 1px solid black;font-family:MS Sans Serif;font-size: 15px;"> == \$0

</div>

</td>

</tr>

<tr>...</tr>

</tbody>

</table>

</td>

...

Console What's New

Unchecked runtime.lastError: The message port closed before a response was received.

Failed to load resource: the server responded with a status of 404 (Not Found) spacer.gif:1

Failed to load resource: the server responded with a status of 404 (Not Found) black:1

DevTools failed to load source map: Could not load content for http://demo.guru99.com/test/css/bootstrap.min.css.map: HTTP error: status code 404, net::ERR_HTTP_RESPONSE_CODE_FAILURE

Type here to search

29°C ENG US 7:13 PM 03-Nov-21

Some changes in practice (5)

Login: Mercury Tours

Not secure | demo.guru99.com/test/newtours/login_sucess.php

GURU⁹⁹ Demo Site

Selenium ▾ Insurance Project Agile Project Bank Project Security Project Telecom Project Payment Gateway Project New Tours SEO ▾

one cool summer ARUBA

SIGN-OFF REGISTER SUPPORT CONTACT

MERCURY TOURS

Home
Flights
Hotels
Car Rentals
Cruises
Destinations
Vacations

HTML VERSION
Use Java Version

© 2005, Mercury Interactive (v. 011003-1.01-058)

Some changes in practice (6)

The screenshot shows a Windows File Explorer window with the following details:

- Title Bar:** newtours
- File Menu:** File, Home, Share, View
- Toolbar:** Pin to Quick access, Copy, Paste, Cut, Copy path, Paste shortcut, Move to, Delete, New folder, Properties, Select all, Select none, Invert selection.
- Address Bar:** D:\TestProjects\newtours
- Search Bar:** Search newtours
- Left Sidebar:** Quick access, OneDrive, This PC, 3D Objects, Desktop. A "1 item" notification is visible.
- Content Area:** A Microsoft Excel file named "LoginCredentials.xlsx" is open. The file contains the following data:

	A	B
1	edureka	edureka123
2	mercury	mercury
3	Admin	admin123
4	Admin	admin124
5	Admin	admin125
6		
7		

The Excel ribbon tabs shown are: File, Home, Insert, Page Layout, Formulas, Data, Review, View, Help, Share, Cells, Editing, Analyze Data, Analysis.

Exercise

Create a testing project as the above one but with some changes:

- Testing Login function of Elcit page: <https://elcit.ctu.edu.vn/>
- Using test data from a Excel file (your own file)
 - D:\TestProjects\Elcit\LoginCredentials.xlsx
 - Contains a list of test data for test cases: username and password
 - username1 password1
 - username2 password2
 -
- Assert that the above page will be successfully logged in using a valid username and valid password.

elcit.ctu.edu.vn

Apps

VnExpress - Báo tiể...

[https://www.facebook...](https://www.facebook.com)<https://translate.go...>

Inbox (21) - ncdanh...

<https://drive.google...><https://elcit.ctu.edu...>

New Tab

<https://trithucvn.net>

»



KHOA CÔNG NGHỆ THÔNG TIN & TRUYỀN THÔNG

HỆ THỐNG HỖ TRỢ ĐÀO TẠO

Bạn chưa đăng nhập. ([Đăng nhập](#))

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Cao học

- [Thông tin cao học \(9\)](#)

- [Các môn học Cao học \(8\)](#)

Các hoạt động khác (5)

Hoạt động các lớp (Cố vấn học tập)

- [Khóa 45 \(1\)](#)

Login form

Đơn sử dụng tài khoản

[Dành cho cá nhân](#)[Dành cho tập thể](#)

Đăng nhập

 Tên đăng nhập Mật khẩu**DĂNG NHẬP**

Thành viên trực tuyến

(cách đây 5 phút)

Nguyễn Thị Hiếu Nohña

Lesson 1 Install S....docx

Lesson 2 Facebo....docx

Show all



KHOA CÔNG NGHỆ THÔNG TIN & TRUYỀN THÔNG

HỆ THỐNG HỖ TRỢ ĐÀO TẠO

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- Web CTU
- Web CICT
- Lịch thực hành

Khoa học

Xem 1226 khóa học.

Tìm kiếm khóa học: **XEM**

Assert that this page
will be showed if
logging in successfully

Đơn sử dụng tài khoản

- Dành cho cá nhân
- Dành cho tập thể

Thành viên trực tuyến

(cách đây 5 phút)

	Nguyễn Công Danh
	Phạm Văn Tú
	Trần Nguyên Khôi
	Lưu Quốc Trung
	Lê Hữu Nghĩa
	Nguyễn Đức Trung
	Trần Quang Trung
	Đinh Thái Hòa
	Huỳnh Triệu Vĩ
	Triệu Thị Kim Chi

Reference

- <https://www.youtube.com/watch?v=K9VQWQ7KnHk>

See more

- AUTOMATED SELENIUM TESTING FRAMEWORK USING TESTNG & WEBDRIVER, <http://www.faichi.com/blog/automated-selenium-testing-framework-using-testng-webdriver>
- TestNG, <https://testng.org/doc/documentation-main.html>