



# Pre Classroom – Software Installation Document

Includes JDK, Eclipse, Selenium and Gradle Installation Guides

## 01 – Download Software

### Pre-Requisite/Note:

- Your Laptop or Desktop should be connected to good internet

### Steps:

1. Go to your laptop / desktop drive (any drive that you have 2 GB of space), create a folder by name "Selenium".
2. **Download the Eclipse IDE form** <http://www.eclipse.org/downloads/packages/> (Eclipse IDE for Java Developers).
3. **Download** "software's" to your local hard disk. **Note: This will be about 1+ GB of contents that includes software.**

For example:

E:\TestLeaf\Selenium

- 📄 This is the path referred in the further instructions.
- 📄 You can store it any folder and remember it during the further instructions.

### 03 - Installation Steps for JDK

Steps:

1. Check if java is installed in your machine already and know what version and type, if installed?

If you are using windows or MAC or Linux operating system then type in command prompt /

terminal `java -version`

If java is installed then you will get something like this

```
java version "1.8.0_91"
```

```
Java(TM) SE Runtime Environment (build 1.8.0_91-b14) Java HotSpot(TM)  
Client VM (build 25.91-b14, mixed mode)
```

**Note:** In this case, the version is 1.8 and mixed mode means it is of 32 bit version; else you have 64 but jdk/jre.

If you are 32 bit JDK 1.8 installed users, go to next page

**For all 64 bit JDK machine holders, you have 2 choices:**

- a) Either you can uninstall JDK and install 32 bit JDK 1.8 version on your 64 bit machines too. No difference in performance is noted  
-- When you uninstall 64 bit JDK, you have to go to C:/ProgramData/Oracle folder and delete that folder before you install 32 bit JDK (Note: ProgramData will be a hidden folder so you will not see it unless type in the file explorer)
- b) Or you can stay with 64 bit JDK but the downloaded eclipse (part of TestLeaf software library) may not be useful for you. So you need to download Eclipse 64 bit from [http://www.eclipse.org/downloads/download.php?file=/technology/epp/downloads/release/oxygen/2/eclipse-je-e-oxygen-2-win32-x86\\_64.zip](http://www.eclipse.org/downloads/download.php?file=/technology/epp/downloads/release/oxygen/2/eclipse-je-e-oxygen-2-win32-x86_64.zip)

**But we recommend option a)** as the eclipse downloaded from TestLeaf provided software has other required Plugin and software bundles. So we recommend uninstalling 64 bit and installing 32 bit JDK.

**If java not installed before,** you will see a message stating 'java' is not recognized.

If so, follow the steps as given in this link to complete the installation using the JDK software provided in the drive.

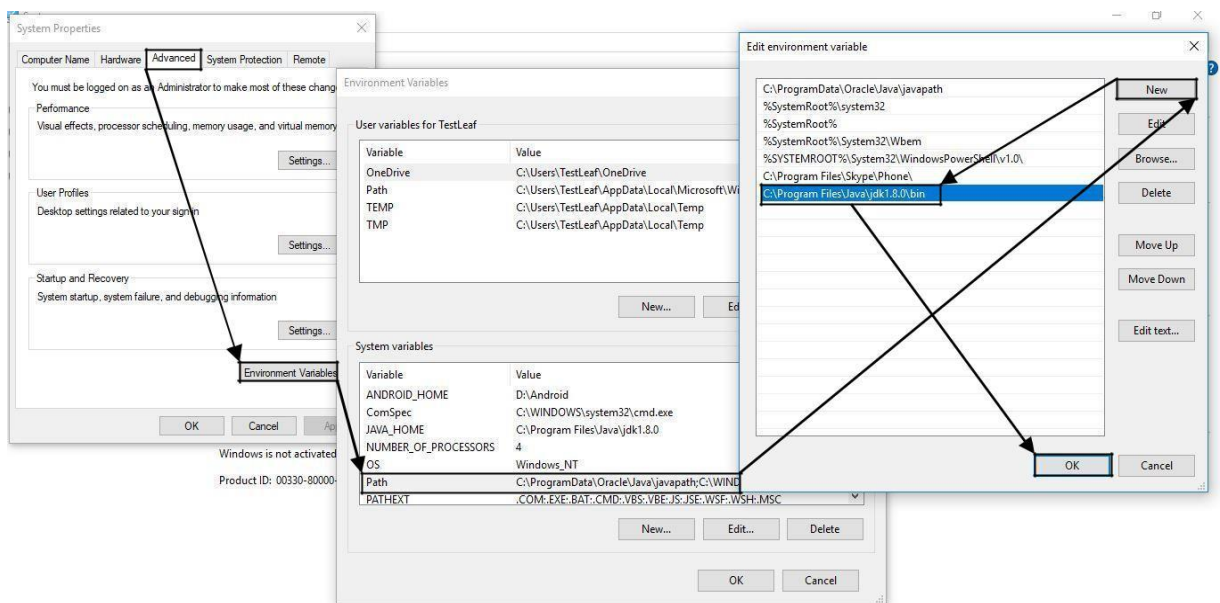
<http://www.wikihow.com/Install-the-Java-Software-Development-Kit>

If you java 1.7 or 1.6, uninstall JDK/JRE from your machine from control panel, and download 32 bit JDK (even for 64 bit machine; whereas a 32 bit machine do not support 64 bit JDK)

<http://www.wikihow.com/Install-the-Java-Software-Development-Kit>

## Set the Java Path as an Environmental Path Variable

- Go to the below location in your machine.
- Path: Control Panel\System and Security\System
- Click on “Advanced system settings” and click on Environment Variables
- Add the Maven path in the Path variable under the System Variables Eg: C:\Program Files\Java\jdk1.8.0\bin



- On successful completion of JDK installation, go to command prompt / terminal and

type **java -version**

And you will see the right version (1.8) and of 32/64 bit available

- Installation Process for JDK ends here.

## 04 - Installation Steps for Eclipse

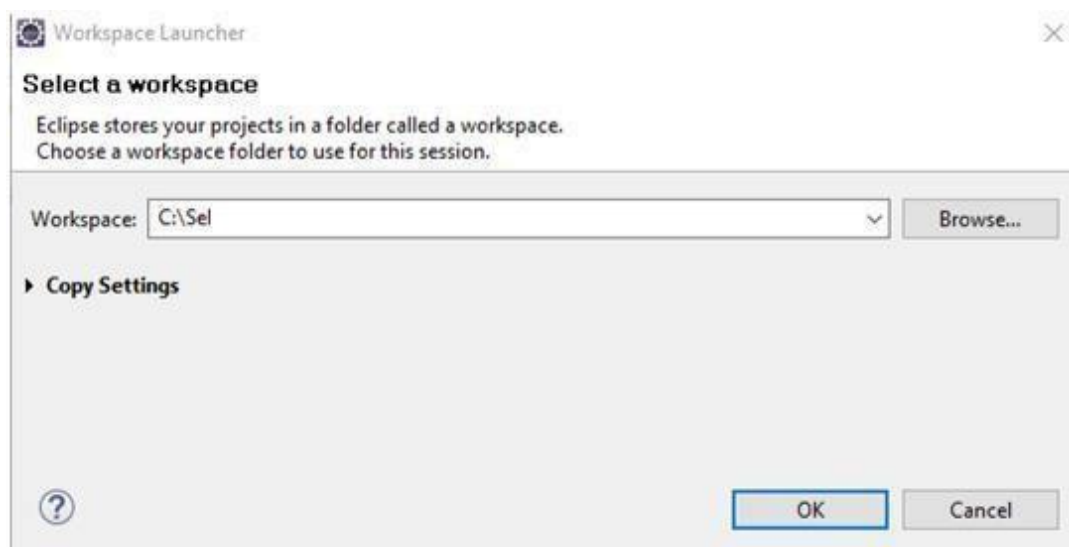
Pre-Requisite/Note:

- JDK 1.8 should be installed prior to the Eclipse installation
- You should have installed WinRAR software to extract eclipse.rar
- Internet should be available during Maven project creation
- You can as well follow using this URL <http://www.tech-recipes.com/rx/39279/create-a-new-maven-project-in-eclipse/>

Steps:

Go to the downloaded software folder given by TestLeaf and go to software's and extract eclipse.rar file (that means extract the contents of eclipse rar file)

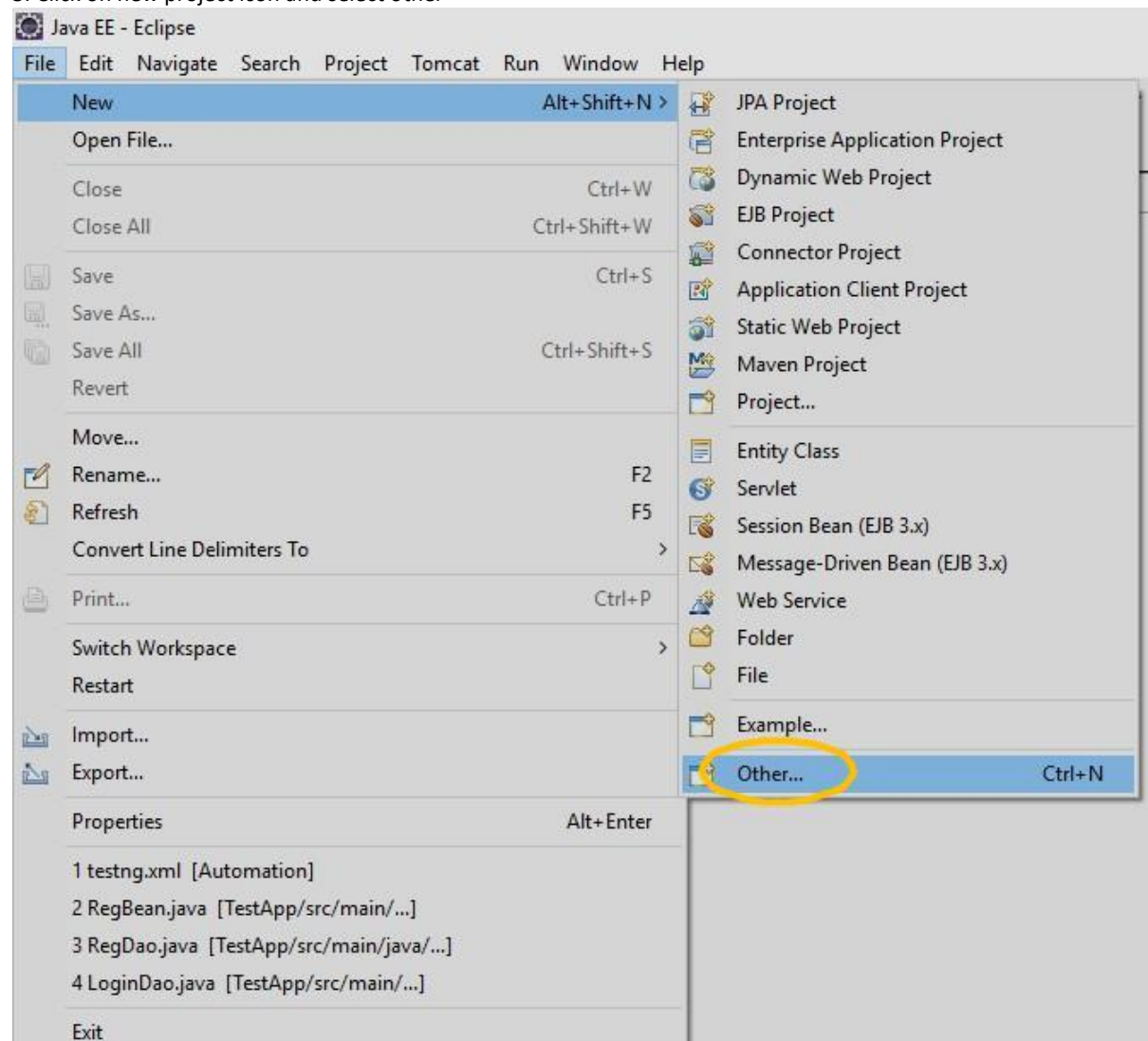
1. Once extracted, go inside the extracted folder and click on eclipse application. *[Eclipse does not require installation, just copying the given folder will enable you to use Eclipse]*
2. Choose the convenient workspace(Project Path ~ This can be of any path) and click ok



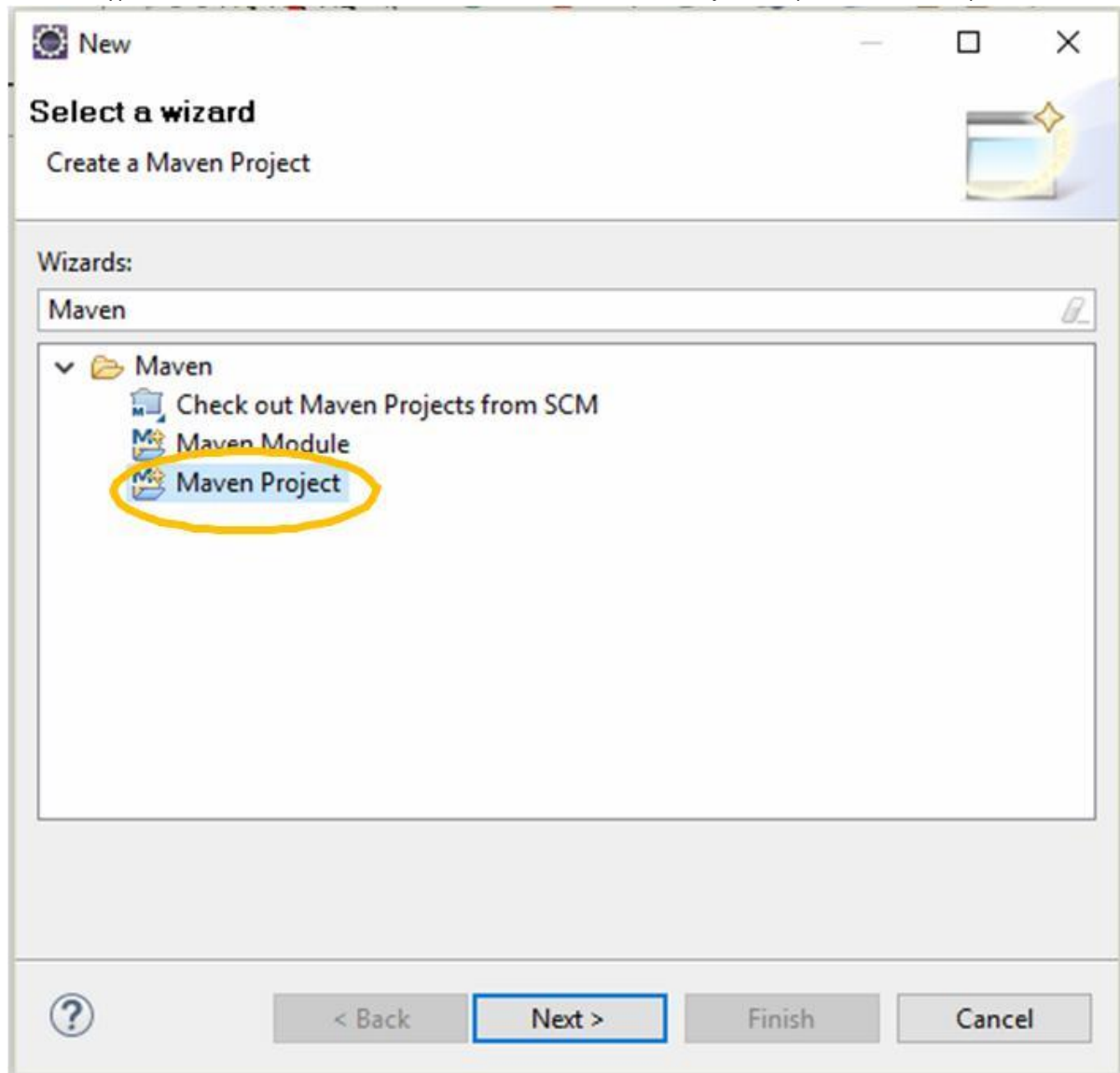
3. Read and Close the welcome tab



5. Click on new project icon and select other



6. Type Maven and Choose Maven folder and then click Maven Project and proceed to Next option



7. Check the box create a simple project & click Next



8. Enter Group ID & Artifact ID as of your wish(Let the name be relevant) & then click Finish button

**New Maven Project**

Configure project

**Artifact**

Group Id: SelJury

Artifact Id: Selenium

Version: 0.0.1-SNAPSHOT

Packaging: jar

Name:

Description:

**Parent Project**

Group Id:

Artifact Id:

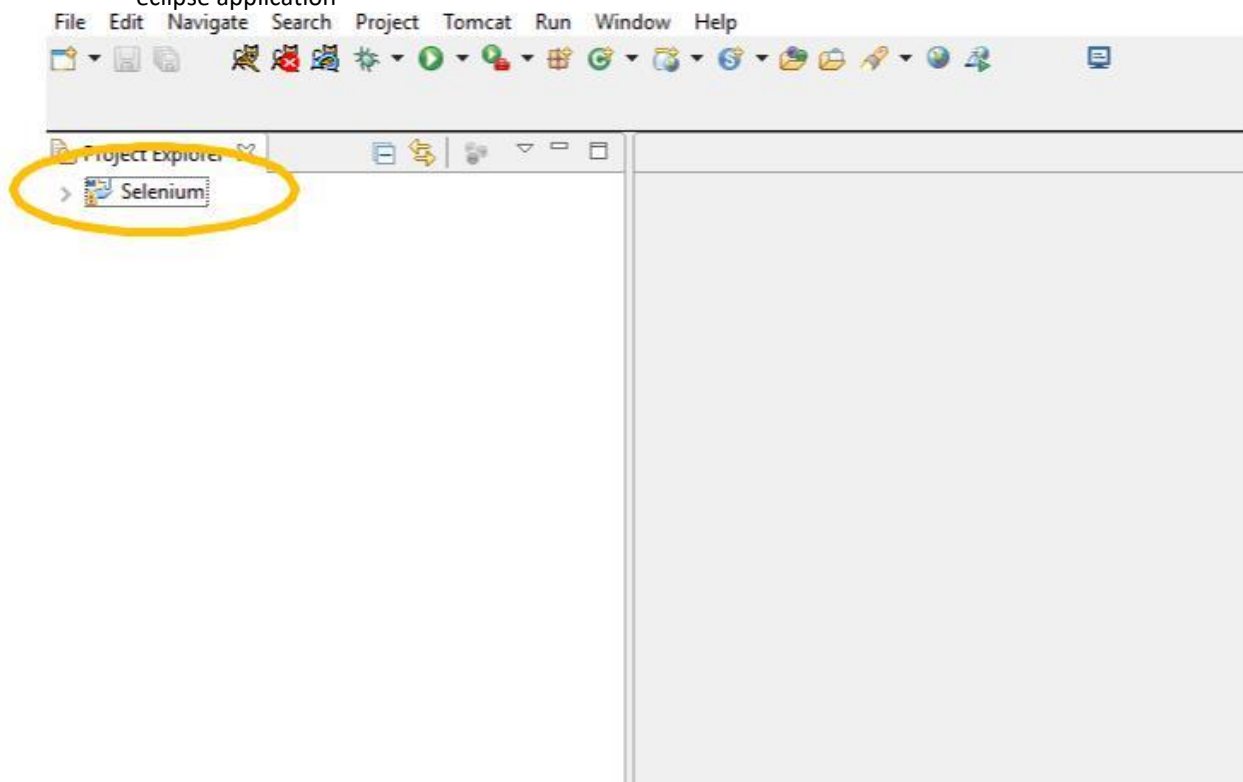
Version:

Browse... Clear

► **Advanced**

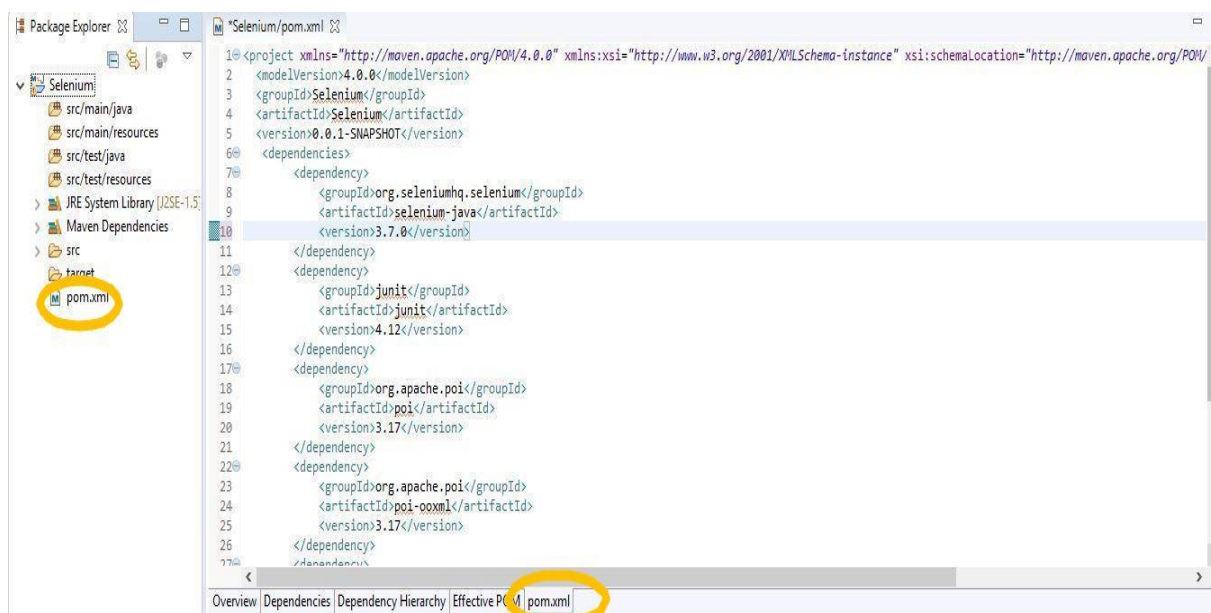
? < Back Next > **Finish** Cancel

9. Maven Project is created. Check for the project update at the Bottom Right corner of the eclipse application



10. Once the update is complete. The project looks as below

11. Go to the Project Explorer, click pom.xml and click pom.xml tab And copy All Dependence and place in after line 5 and before line 6 (that is between </version> and </project tag) contents in Eclipse and then 'Save'. And then will trigger auto download of the required libraries from the maven dependencies.



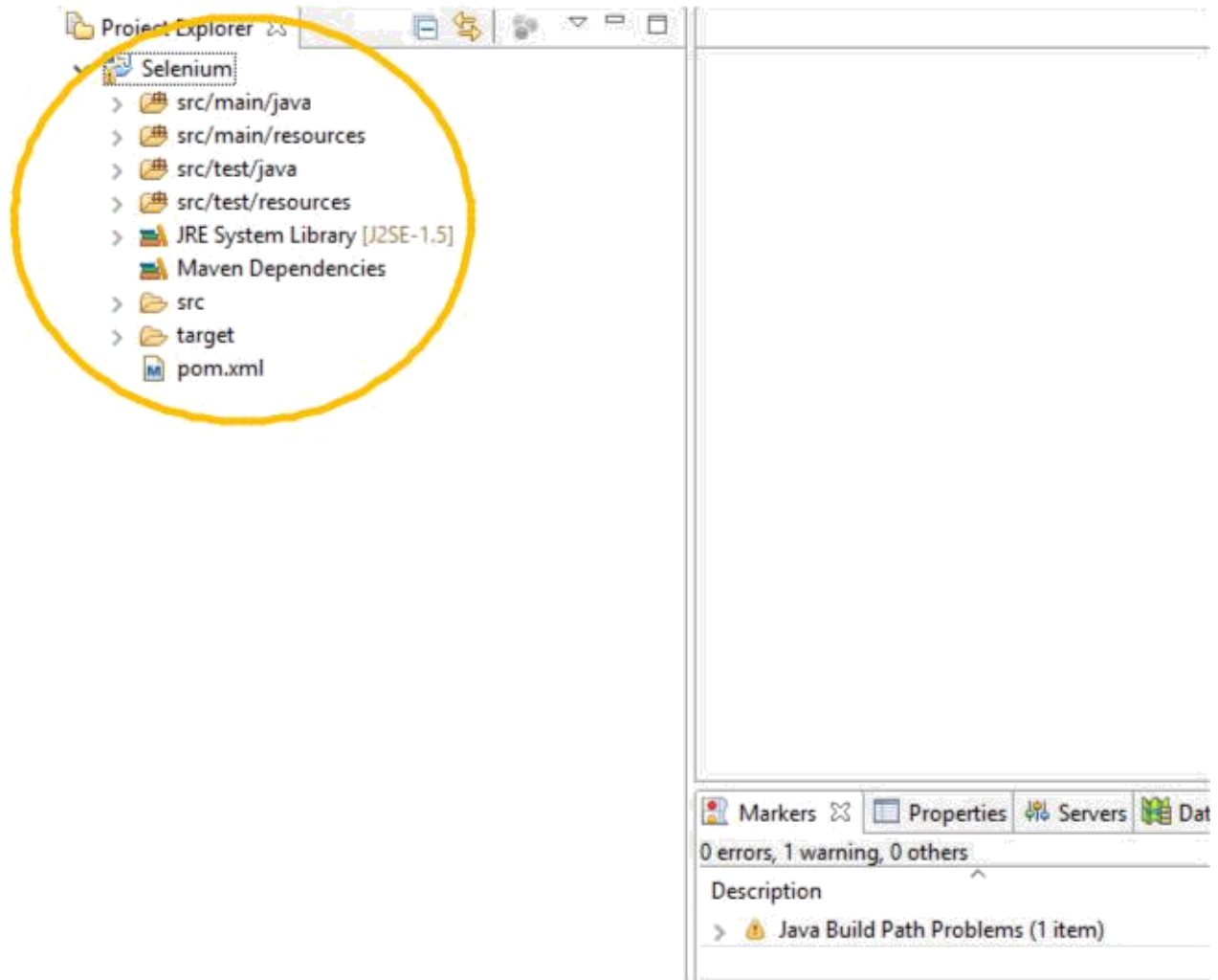
**Dependencies:**

```
<dependencies>
    <dependency>
        <groupId>org.seleniumhq.selenium</groupId>
        <artifactId>selenium-java</artifactId>
        <version>3.12.0</version>
    </dependency>
    <dependency>
        <groupId>junit</groupId>
        <artifactId>junit</artifactId>
        <version>4.12</version>
    </dependency>
    <dependency>
        <groupId>org.apache.poi</groupId>
        <artifactId>poi</artifactId>
        <version>3.17</version>
    </dependency>
    <dependency>
        <groupId>org.apache.poi</groupId>
        <artifactId>poi-ooxml</artifactId>
        <version>3.17</version>
    </dependency>
    <dependency>
        <groupId>com.aventstack</groupId>
        <artifactId>extentreports</artifactId>
        <version>3.1.5</version>
    </dependency>
    <dependency>
        <groupId>org.apache.commons</groupId>
        <artifactId>commons-io</artifactId>
        <version>1.3.2</version>
    </dependency>
    <dependency>
        <groupId>org.testng</groupId>
        <artifactId>testng</artifactId>
```

<version>6.14.2</version>

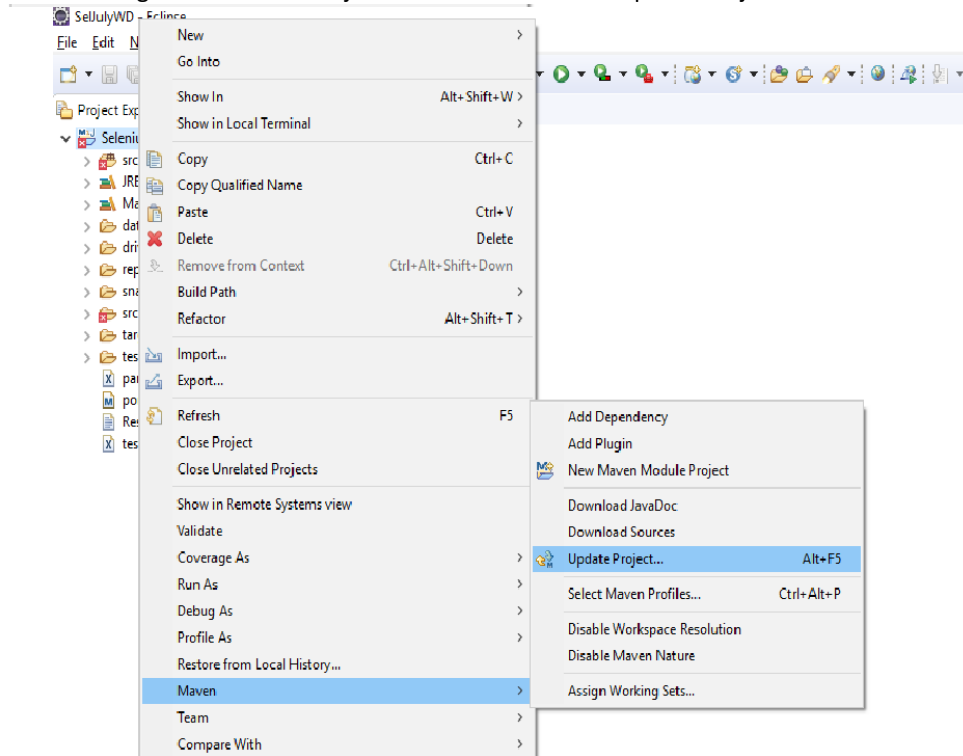
</dependency>

<dependencies>

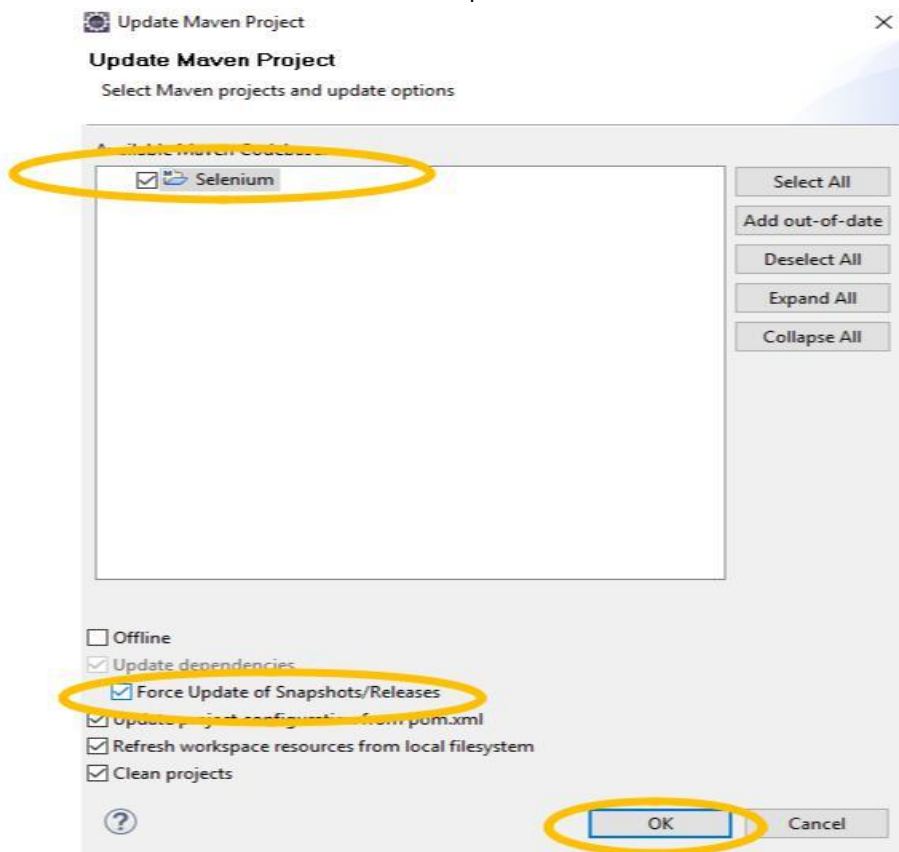


If it does not look like above snapshot, confirm the internet is enabled and follow the - below steps; else go to Step 10:

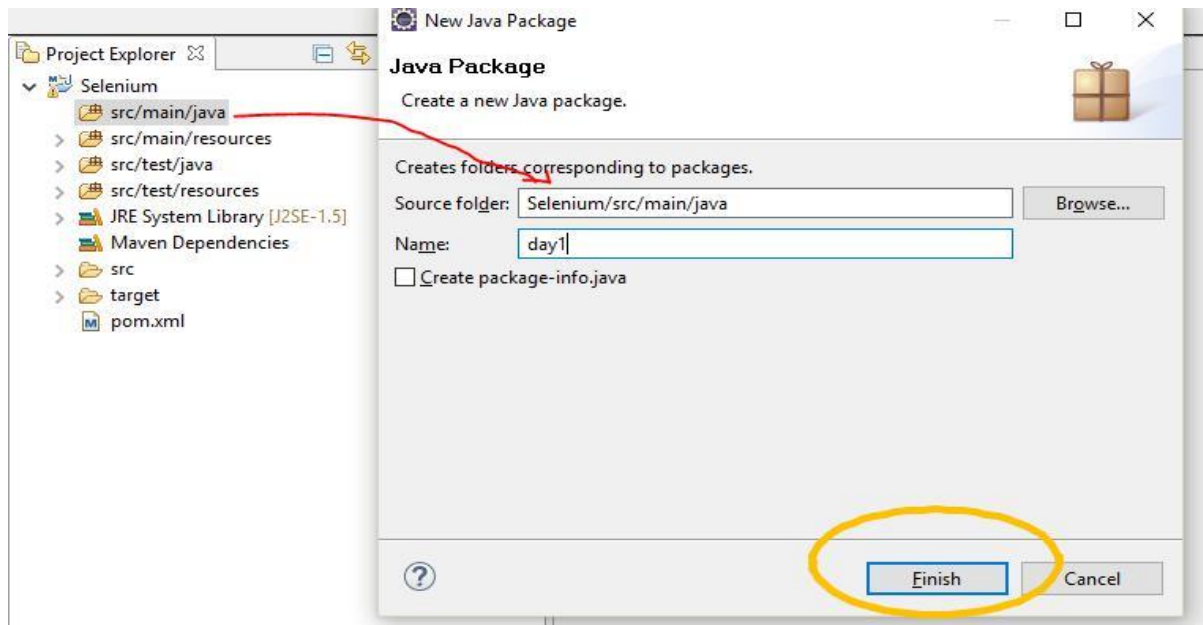
1. Right click on the Project and Select Maven -> Update Project



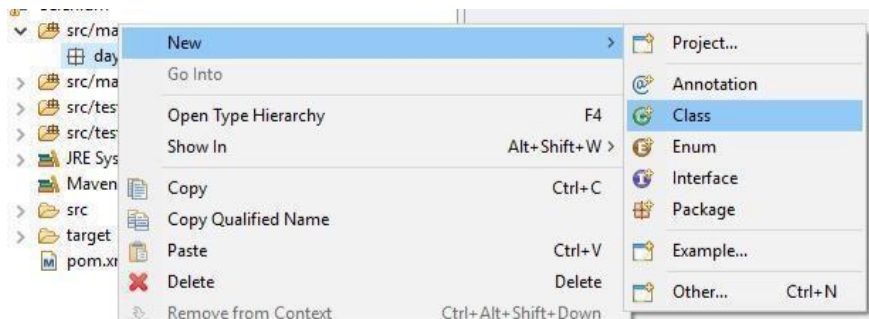
2. Check Force Update and Click OK



3. And that should download all required dependencies and make it look like Step 9.
  4. If yet your folder structure in eclipse looks not like step 9, then Whatsapp in the main group.
12. Right click on src/main/java, click on New & then click on package. In the New Java Package dialogue box, give the package name, which should be in lower camel case and click finish button.



13. Right click on package, click on New & then click on class.



- 14 In the New Java Class dialogue box, give the class name which should be in upper camel case and click Finish button and check the box “Public Static void main(String args[])

Package:

☐ Enclosing type:

Name:

Modifiers: ☒ public ☐ default ☐ private ☐ protected  
☐ abstract ☐ final ☐ static

Superclass:

Interfaces:

Which method stubs would you like to create?

☒ public static void main(String[] args)

☐ Constructors from superclass

☒ Inherited abstract methods

Do you want to add comments? (Configure templates and default value [here](#))

☐ Generate comments

**Selenium WebDriver Jar files would get downloaded from the Maven dependencies.**

## 1) Common Issues while creating Maven Project

### Issue:

If Maven project shows error / Maven dependencies are not downloaded properly in the eclipse package explorer / having issue in Maven installation

### Possible Solutions / Workarounds:

#### Maven Installation: Type 1

- In Eclipse Window -> Click **"Help"** Menu Bar-> In that **"Install New Software"**.
- In Install Window -> Click **"Add"** Button at top right Corner.
- At Pop Up:: Fill Name as **"M2Eclipse"** & Location as "<http://download.eclipse.org/technology/m2e/releases>"

Or

["http://download.eclipse.org/technology/m2e/milestones/1.0"](http://download.eclipse.org/technology/m2e/milestones/1.0)

#### Maven Installation: Type 2

5. In Eclipse Window -> Click **"Help"** Menu Bar-> in that choose **"Eclipse Marketplace"**.
6. Search by **"Maven"** and Click **"Install"** button at **"Maven Integration for Eclipse"**

### After successful installation:

- ? In Eclipse Window -> Click **"Window"** Menu Bar -> In that Choose **"Preferences"**.
- ? In Preference Window -> **Maven** is listed at left panel in pop-up.

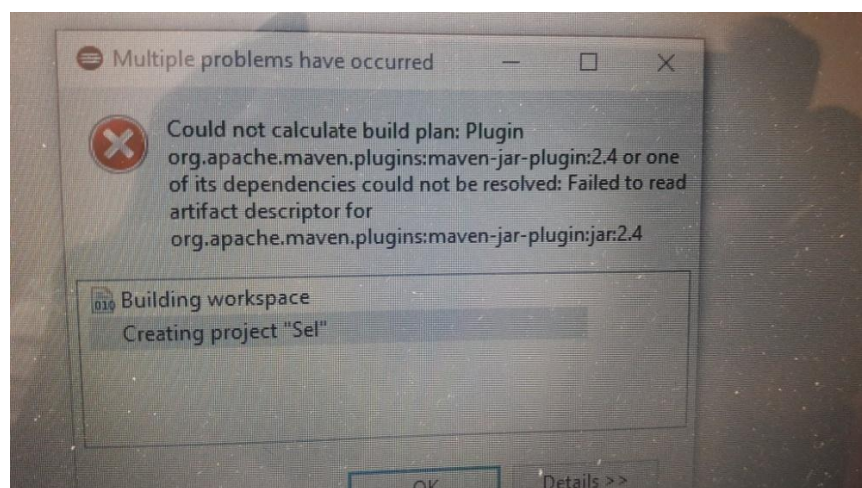
Check the below link for knowing the new Maven Project creation in eclipse:

<http://www.tech-recipes.com/rx/39279/create-a-new-maven-project-in-eclipse/>

## 2)

### Issue

While creating the new Maven Project, if you get the following error:





## Possible Solutions / Workarounds:

Right-click on your **project(s)** --> **Maven** --> **Update Project...UPDATE**: In latest versions

Of **Eclipse**: **Maven** > **Update Project**. Make sure "Force **Update** of Snapshots/Releases" is checked. Sometimes the dependencies don't **update** even with **Maven->Update Project->"Force Update** option" checked using m2eclipse plugin.

**Note**: Make sure to have internet connection...

2)

## Issue

While creating the new Maven Project, the dependencies continue to fail on download.

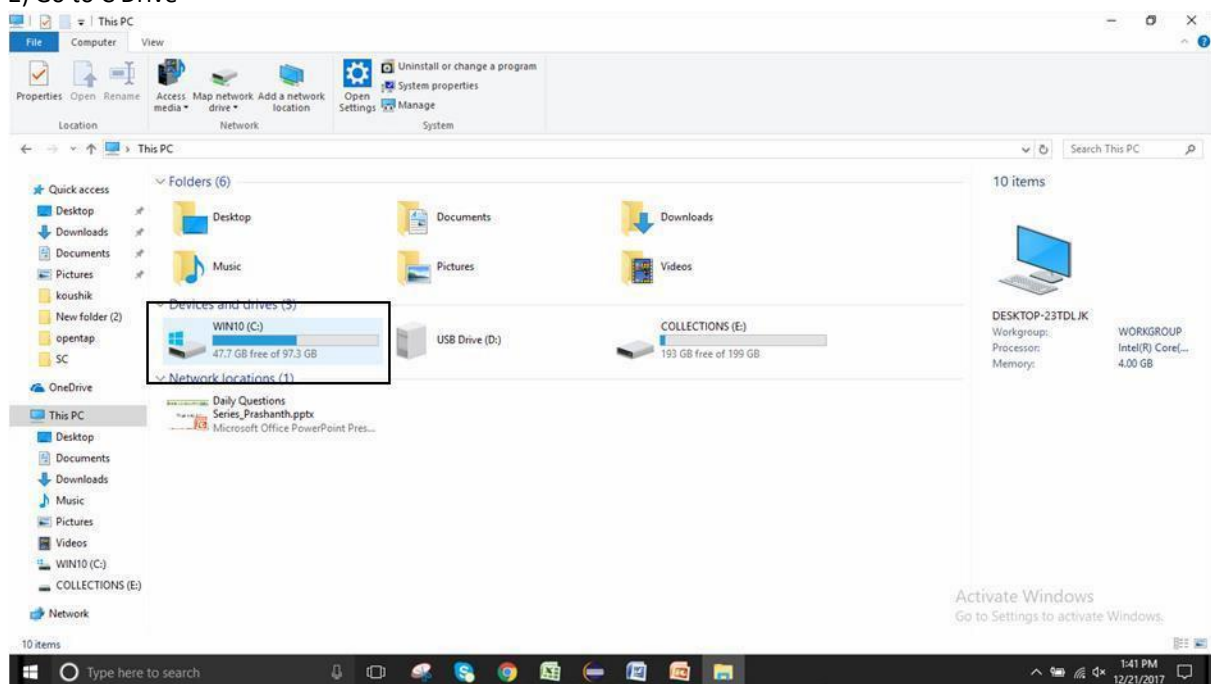
Solution:

Go to your .m2 Folder

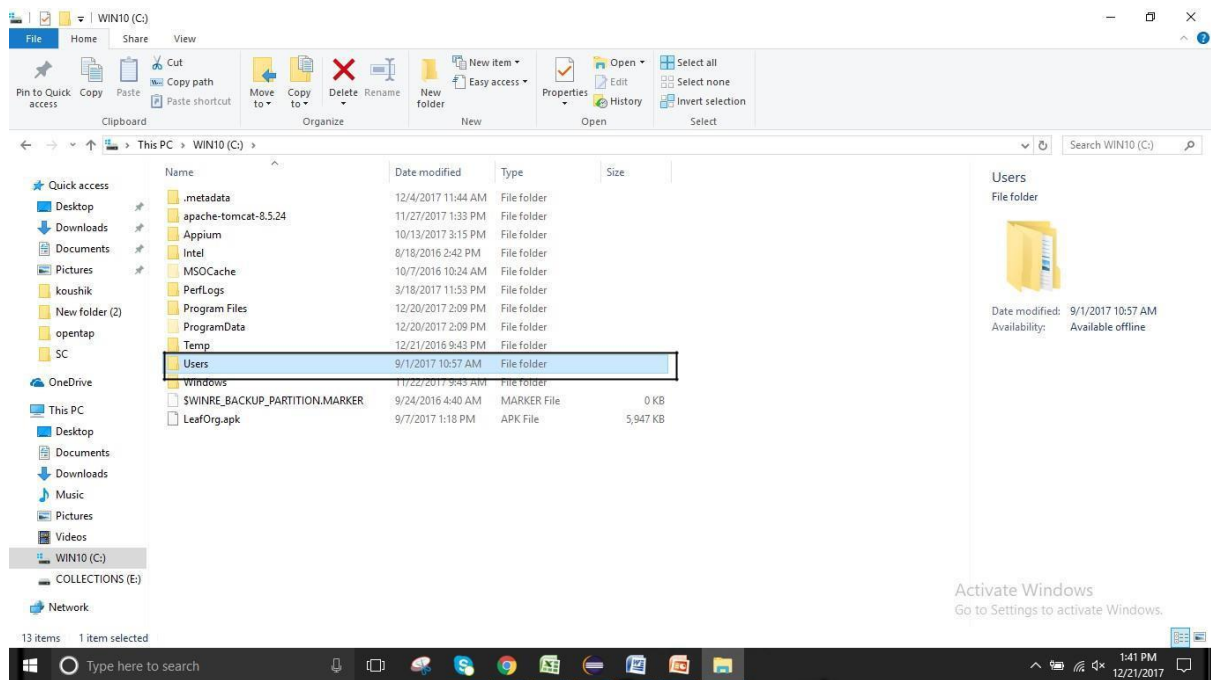
### Step 1:

1) Go to This Pc (or) My Computer

2) Go to C Drive



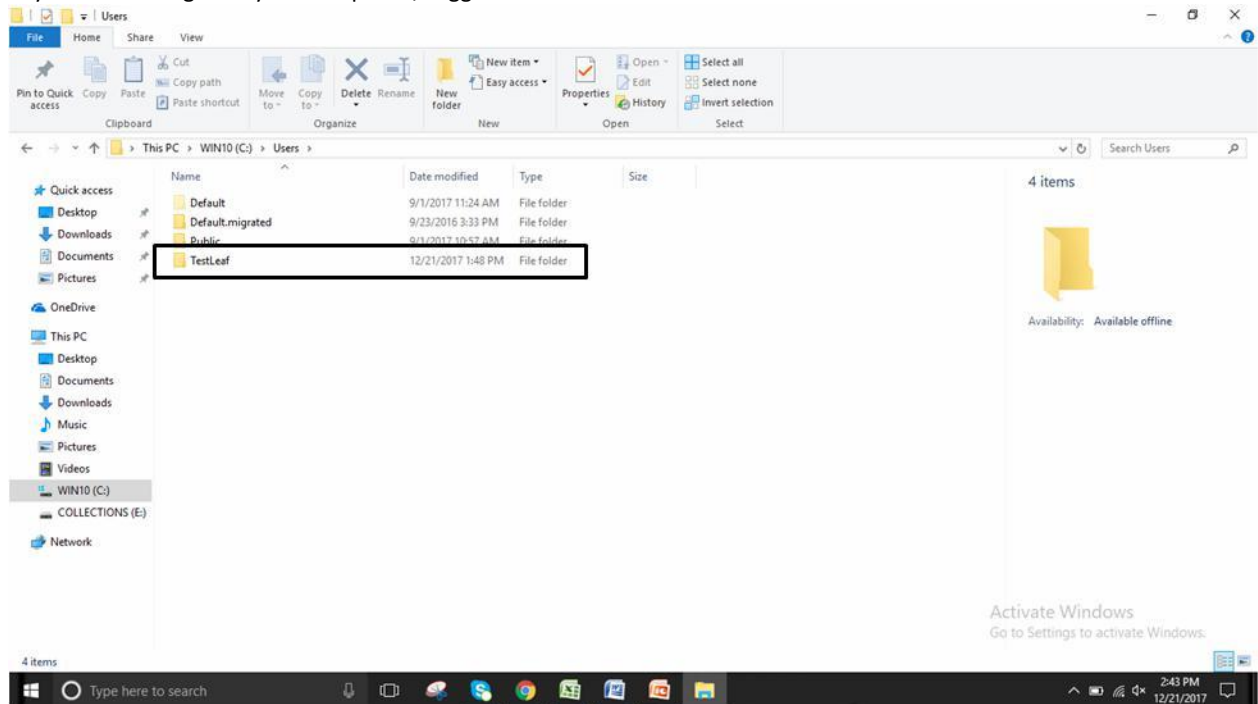
### 3) Go to Users folder



### 4) Go to your User Space

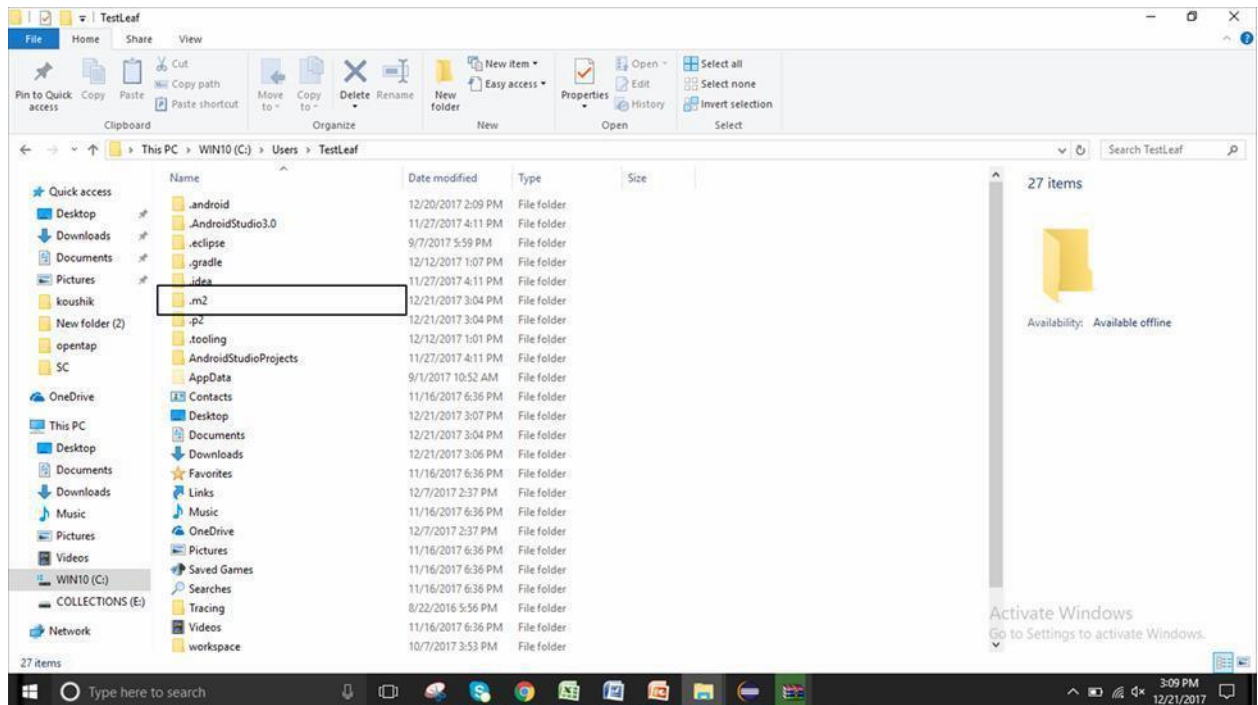
(Here TestLeaf is my user)

In your case it might be your computer / logged in user name



5) Now copy the .m2.zip from <https://tinyurl.com/SelM2Repo> and extract to your local machine and copy to your local .m2 folder





















Note: if your .m2 folder exist already, you replace all files and contents with the downloaded contents.



Confirm your .m2 folder is of size 37 MB or more.

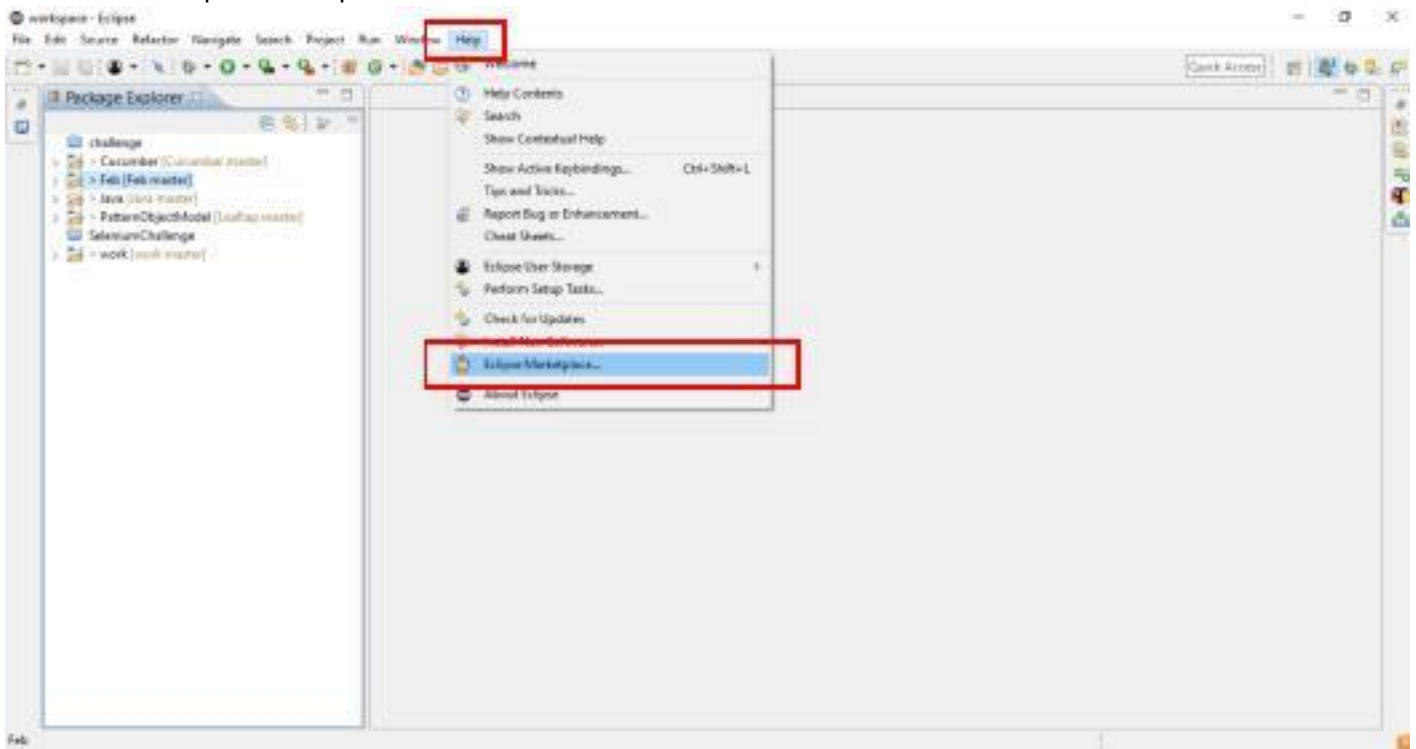
6) Right-click on your **project(s)** --> **Maven** --> **Update Project...UPDATE**: In latest versions Of **Eclipse: Maven** > **Update Project**. Make sure "Force **Update** of Snapshots/Releases" is

checked. And now confirm the maven dependencies are listed on your left panel

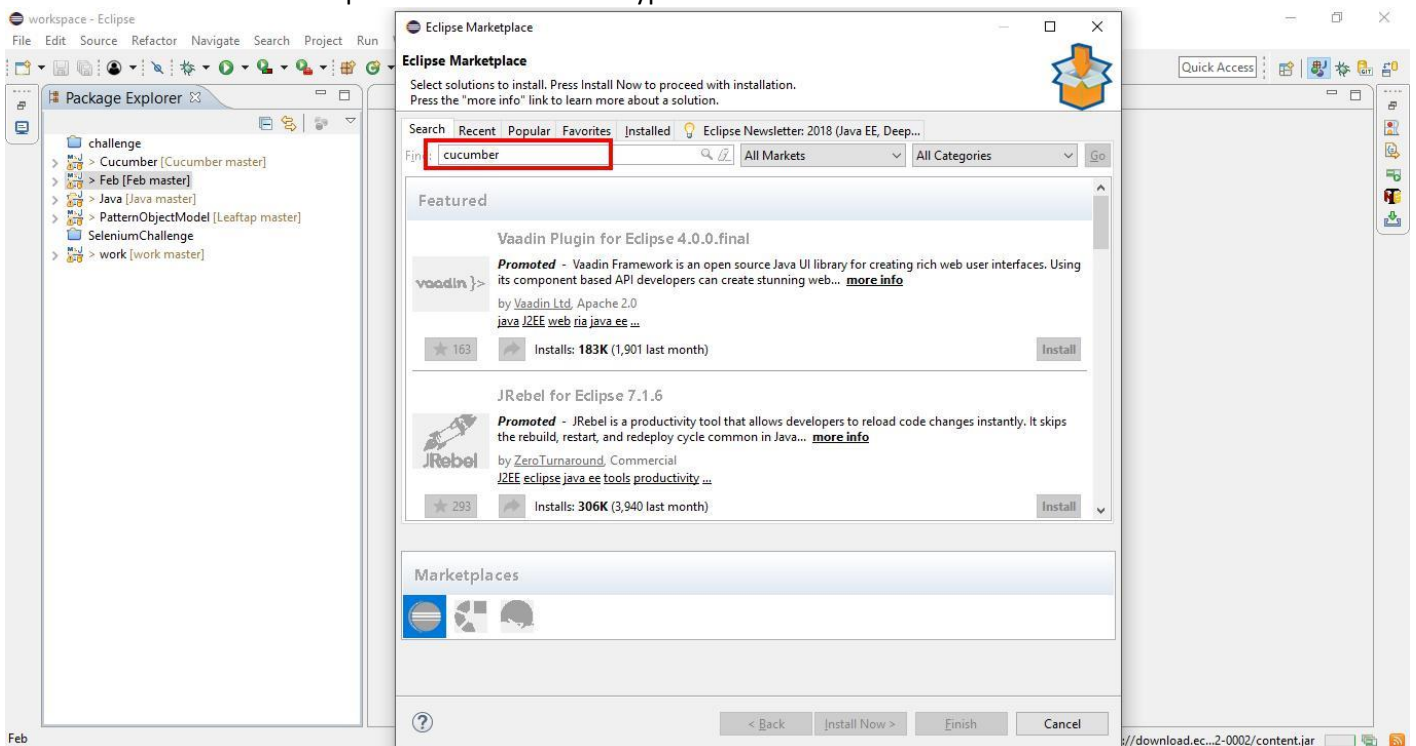
- ▼  SelWdDec
  - >  src/main/java
  -  src/main/resources
  -  src/test/java
  -  src/test/resources
  - >  JRE System Library (JavaSE-1.7)
  - ▼  Maven Dependencies
    - >  selenium-java-3.8.1.jar - C:\Users\Deff\m2\repository\org\seleniumhq\selenium\selenium-java\3.8.1
    - >  selenium-api-3.8.1.jar - C:\Users\Deff\m2\repository\org\seleniumhq\selenium\selenium-api\3.8.1
    - >  selenium-chrome-driver-3.8.1.jar - C:\Users\Deff\m2\repository\org\seleniumhq\selenium\selenium-chr
    - >  selenium-edge-driver-3.8.1.jar - C:\Users\Deff\m2\repository\org\seleniumhq\selenium\selenium-edge-
    - >  selenium-firefox-driver-3.8.1.jar - C:\Users\Deff\m2\repository\org\seleniumhq\selenium\selenium-firef
    - >  selenium-ie-driver-3.8.1.jar - C:\Users\Deff\m2\repository\org\seleniumhq\selenium\selenium-ie-drivr
    - >  selenium-opera-driver-3.8.1.jar - C:\Users\Deff\m2\repository\org\seleniumhq\selenium\selenium-oper
    - >  selenium-remote-driver-3.8.1.jar - C:\Users\Deff\m2\repository\org\seleniumhq\selenium\selenium-rem
    - >  selenium-safari-driver-3.8.1.jar - C:\Users\Deff\m2\repository\org\seleniumhq\selenium\selenium-safari
    - >  selenium-support-3.8.1.jar - C:\Users\Deff\m2\repository\org\seleniumhq\selenium\selenium-support\3
    - >  byte-buddy-1.7.5.jar - C:\Users\Deff\m2\repository\net\bytebuddy\byte-buddy\1.7.5
    - >  commons-exec-1.3.jar - C:\Users\Deff\m2\repository\org\apache\commons\commons-exec\1.3
    - >  commons-codec-1.10.jar - C:\Users\Deff\m2\repository\commons-codec\commons-codec\1.10

## Cucumber Installation

1. Click on Help
2. Click Eclipse Marketplace



3. A new window will open. In the search field type cucumber and hit Enter



4. Now click on Install in the Natural 0.7.6


Eclipse Marketplace

Eclipse Marketplace

Select solutions to install. Press Install Now to proceed with installation.  
Press the "more info" link to learn more about a solution.

SearchRecentPopularFavoritesInstalledEclipse Newsletter: 2018 (Java EE, Deep...

Find: cucumberAll MarketsAll CategoriesGo




Cucumber Eclipse Plugin 0.0.21.201802160922

An eclipse plugin for Cucumber . New Feature list in the version available from the update site: Lambda Expression support for Cucumber-Java8 Content... [more info](#)


by [Cucumber](#), MIT

[cucumber Eclipse Plugin](#) [eclipse-plugin JVM](#) [eclipse plugins](#)

★ 14

 Installs: 8.63K (3,087 last month)

Install




Natural 0.7.6

Natural is a set of plugins providing a smooth experience in editing and maintaining BDD/ATDD files. The currently supported languages are Cucumber (Gherkin... [more info](#)

by [Unknown](#), EPL


[cucumber Gherkin JBehave ATDD BDD ...](#)

★ 19

 Installs: 59.4K (3,443 last month)

Install

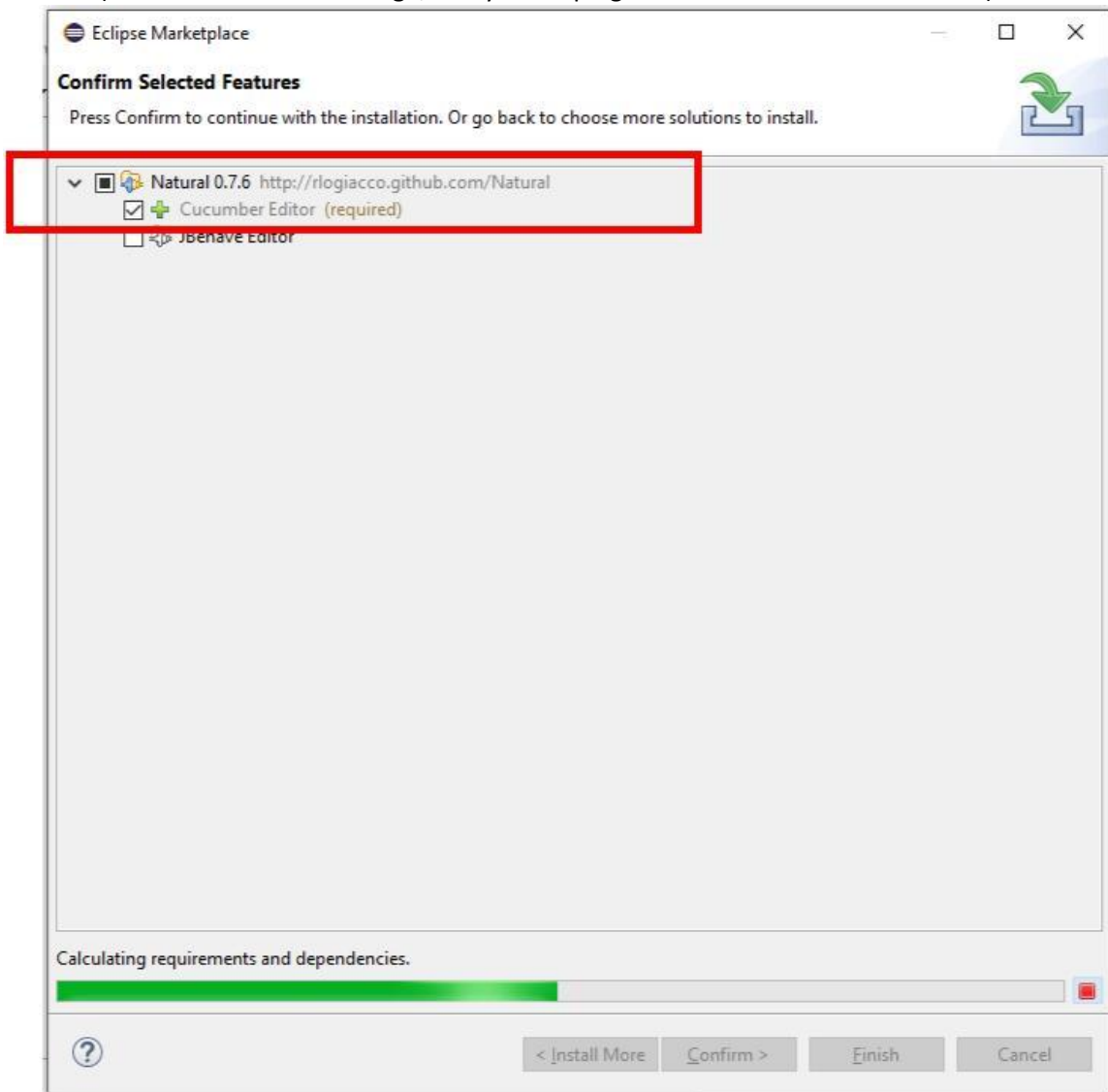
Marketplaces

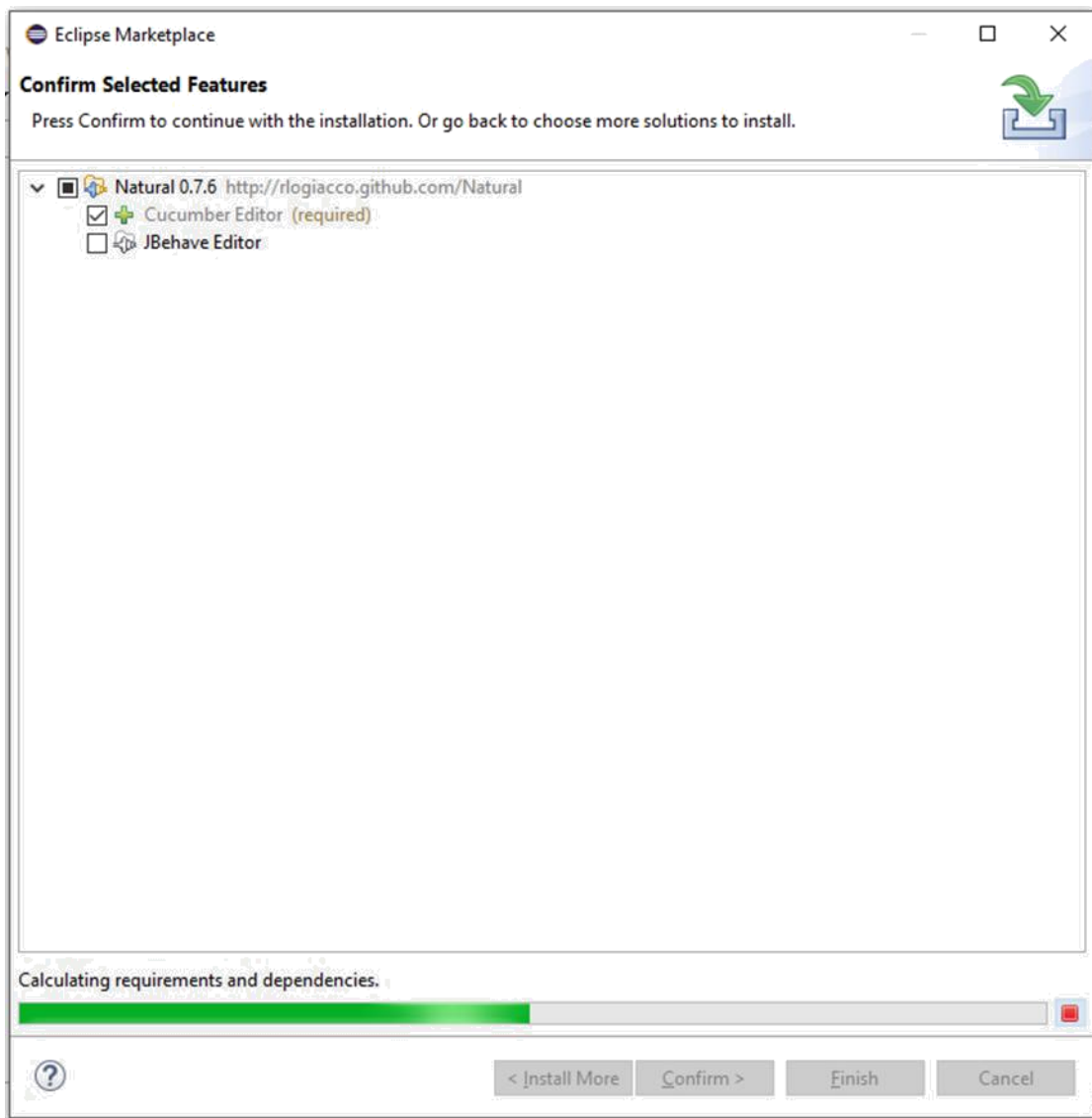


?

< BackInstall Now >FinishCancel

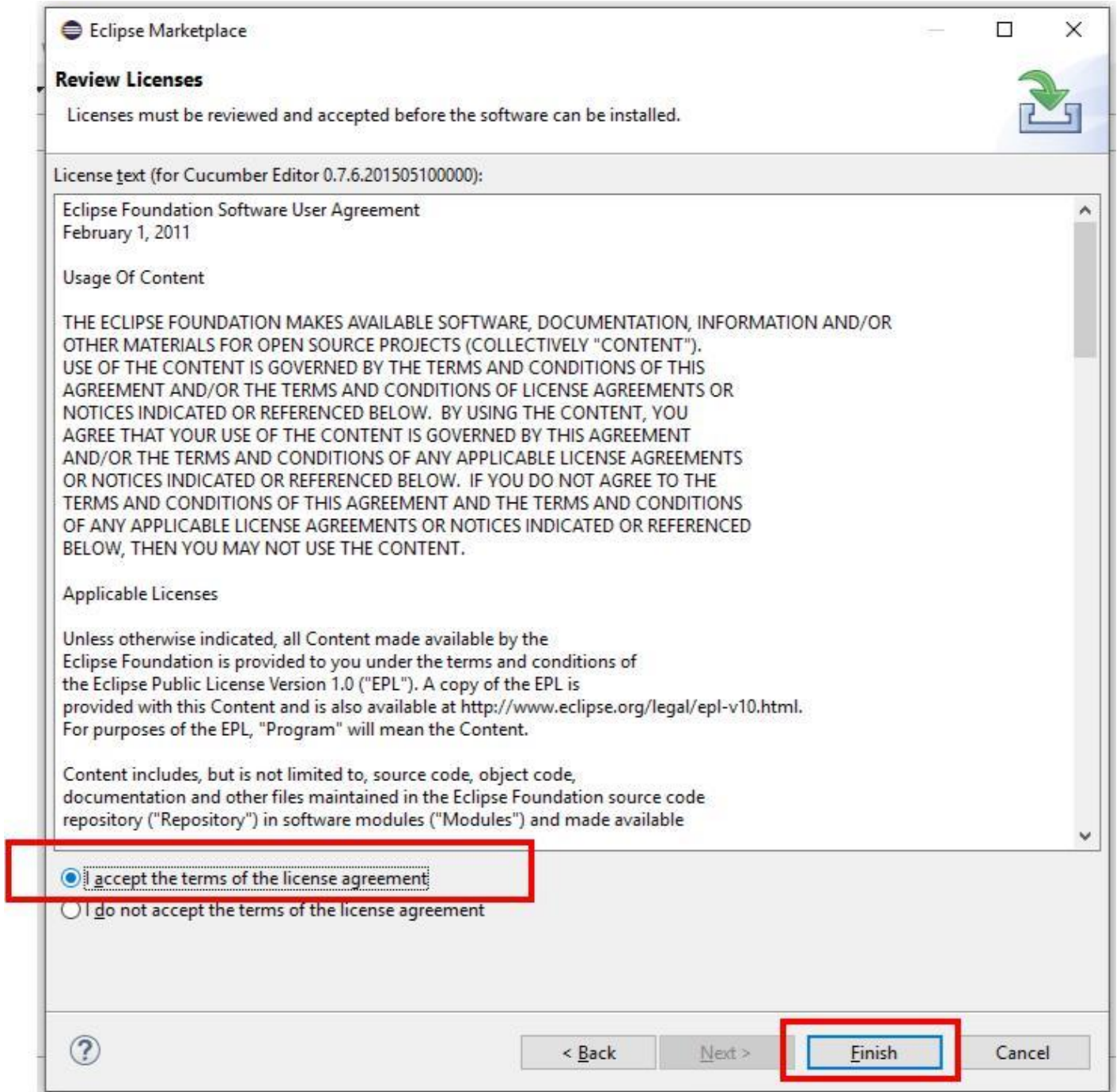
5. Click Confirm  
(Cucumber editor is enough, if any other plugin are shown can be unchecked)



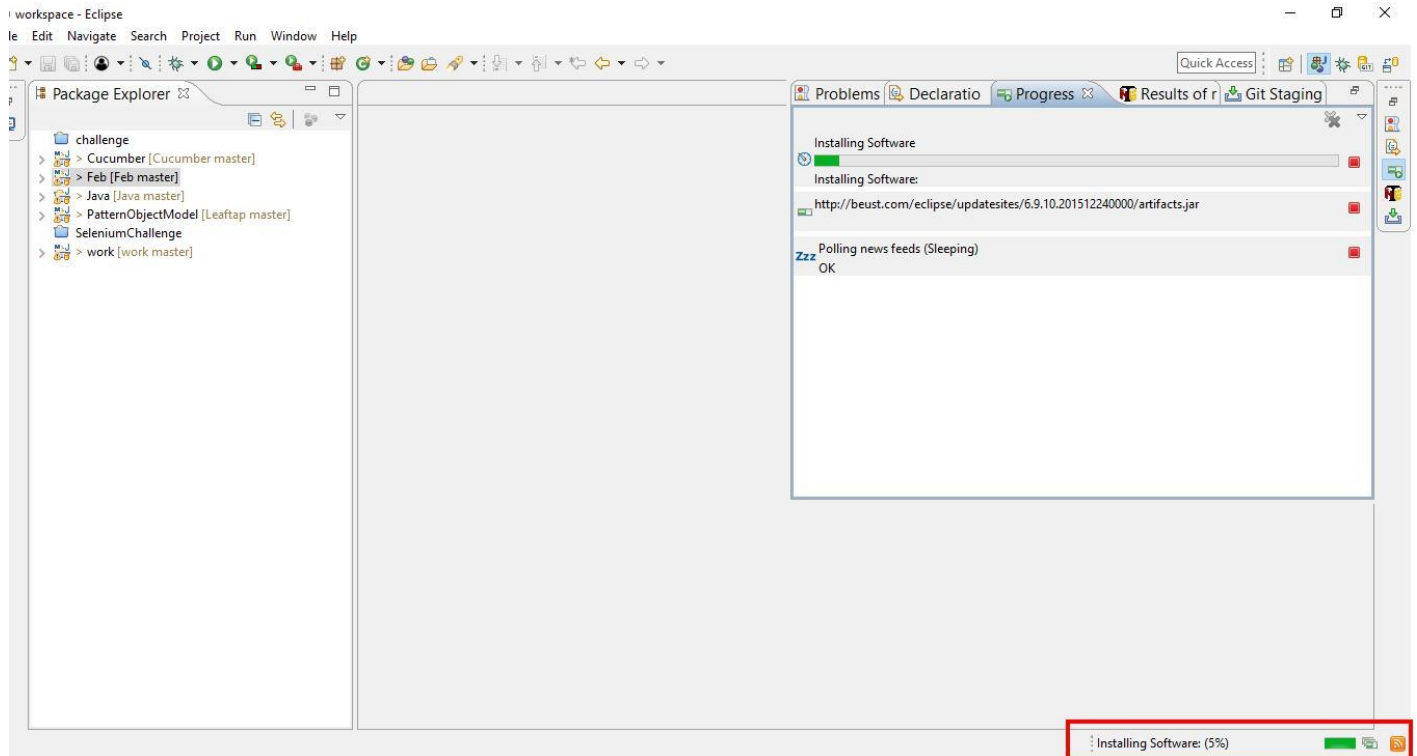




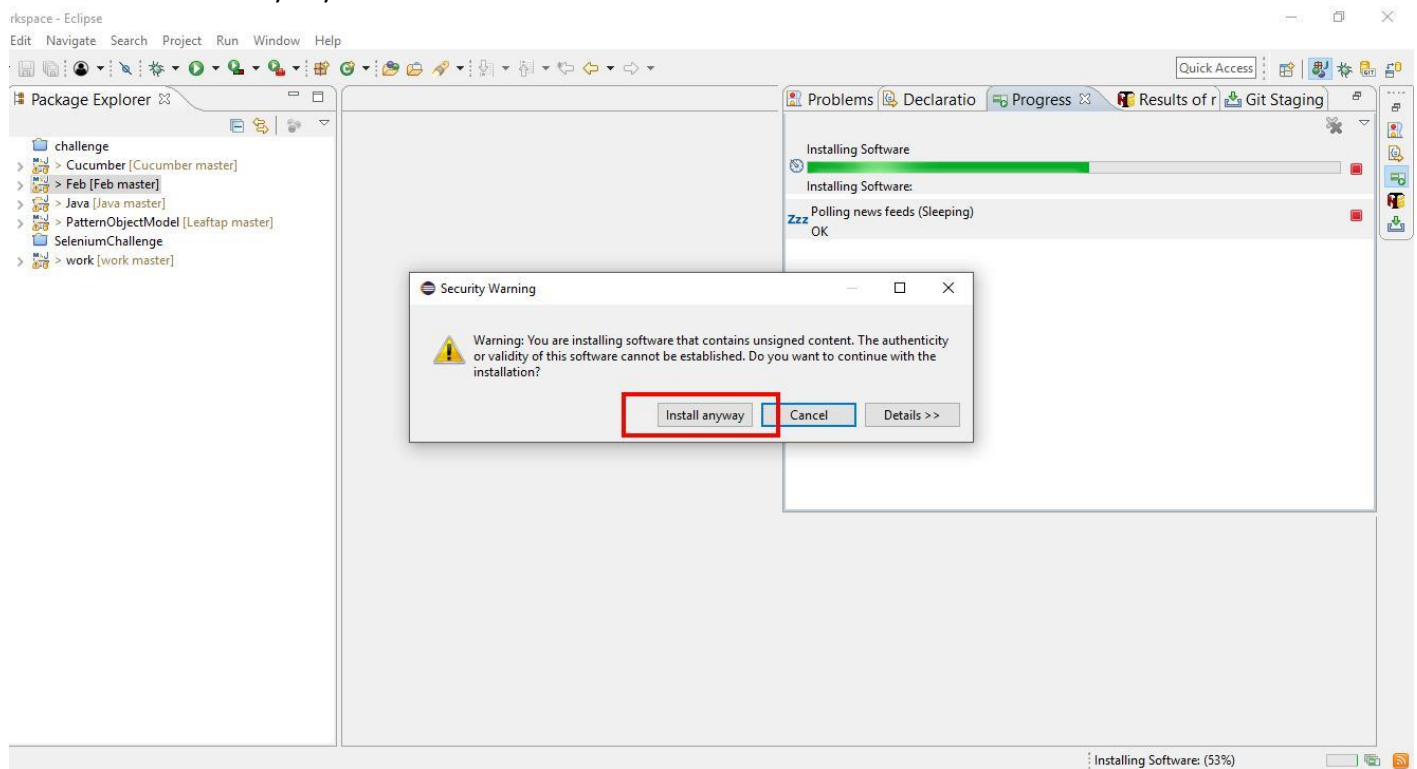
6. Accept terms and click Finish



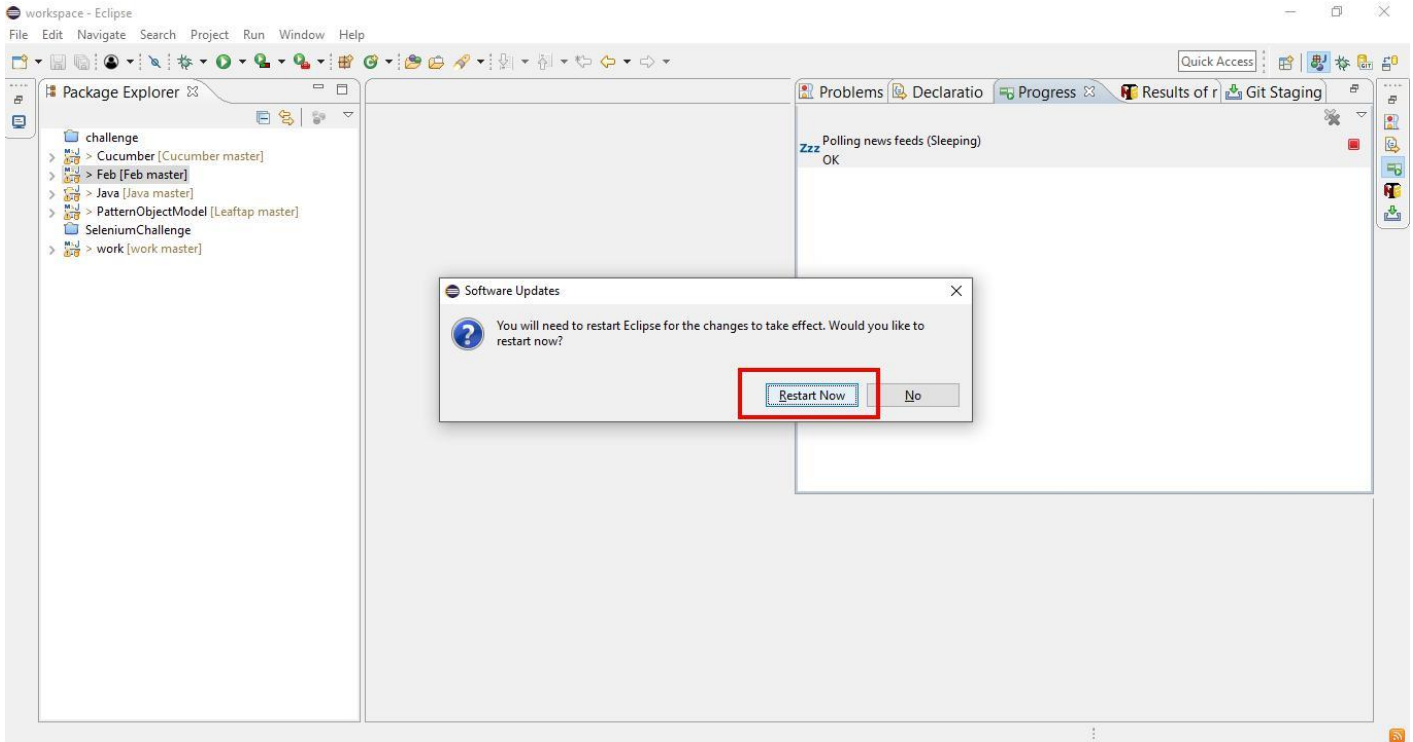
7. In the bottom you can see the status of downloading, Double click on that to see the full status of downloading



8. Click Install anyway



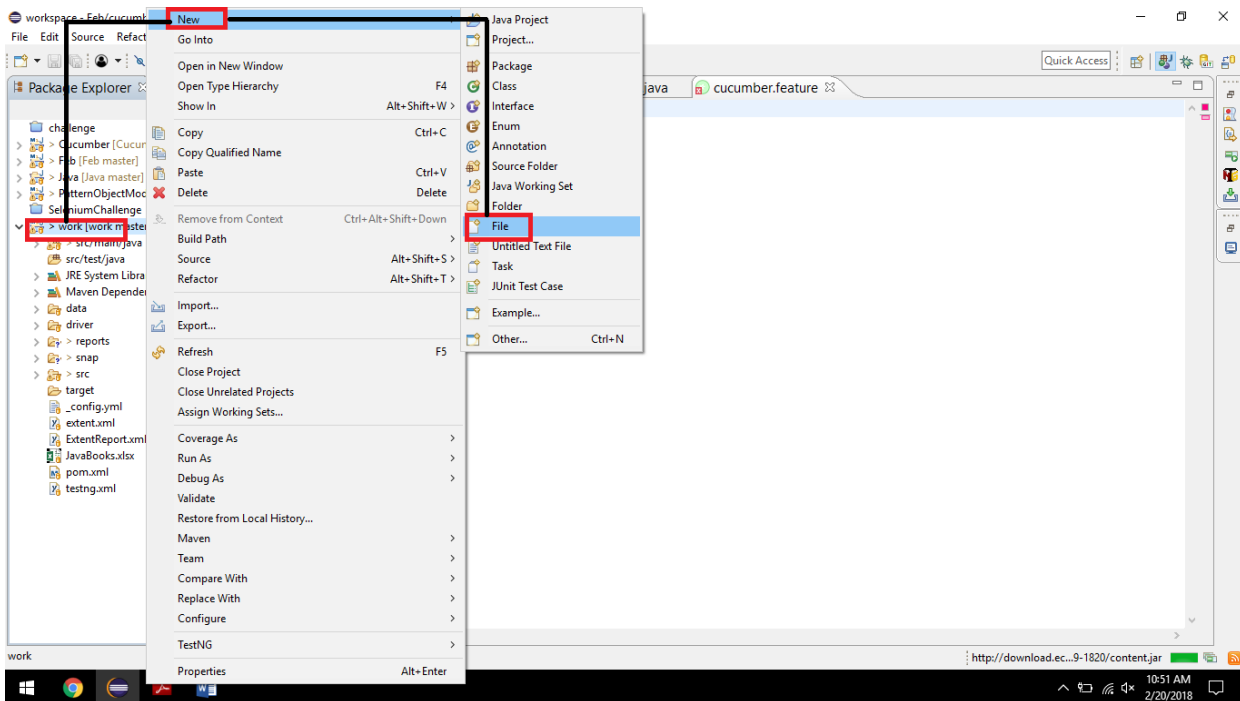
## 9. Click Restart now



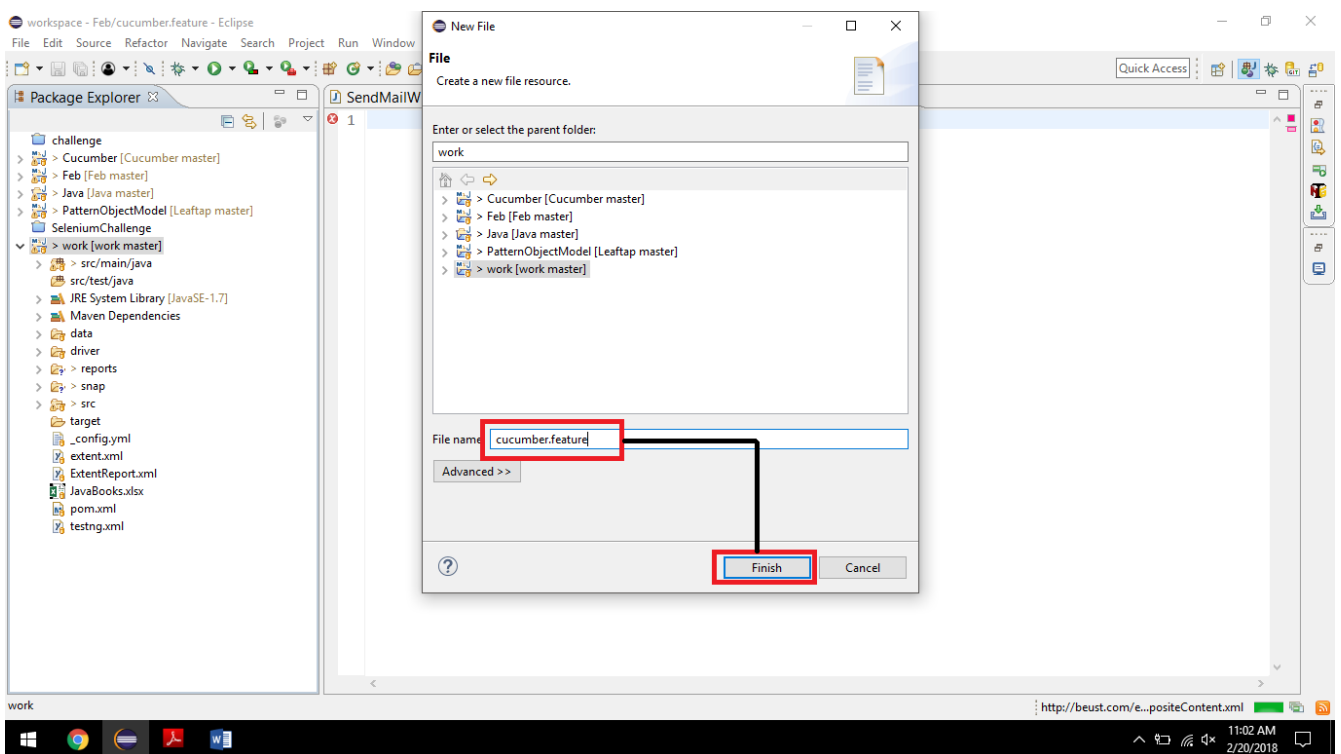
## 10. After restart -> right click on Project name (Selenium)

## 11. Click New

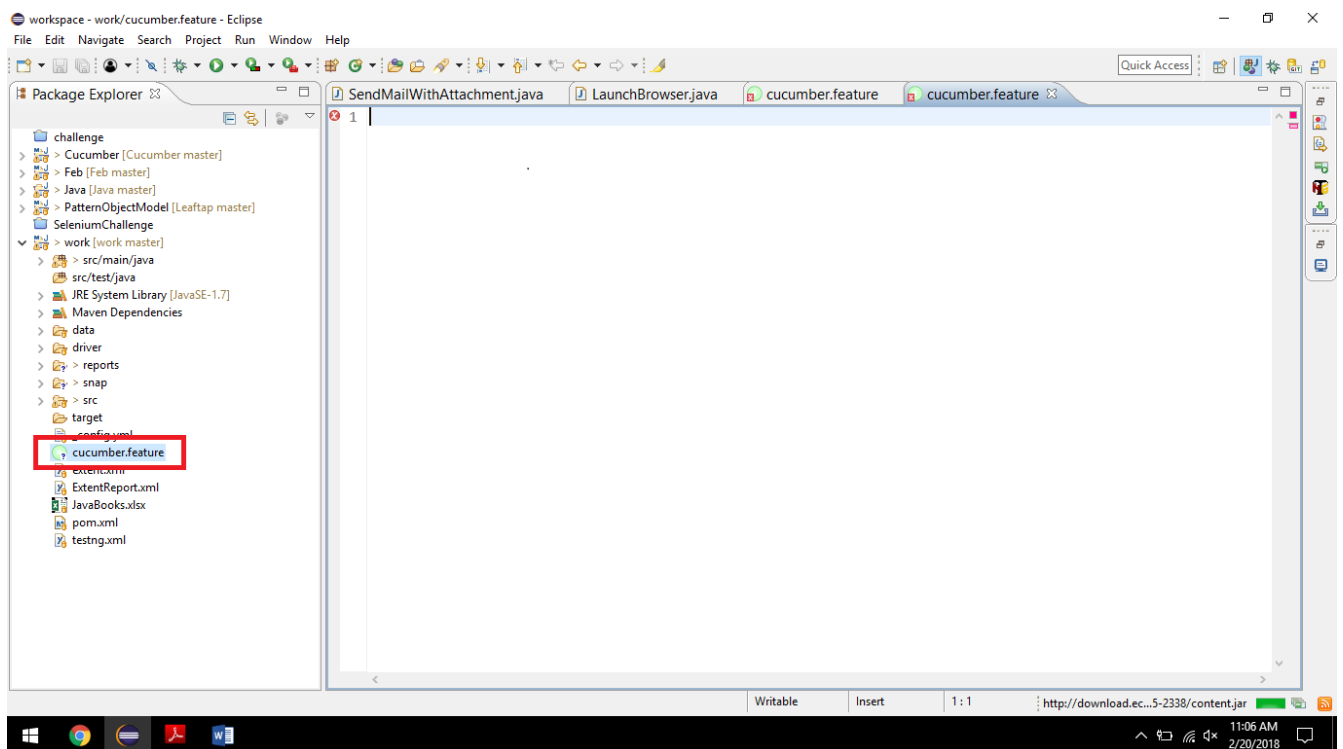
## 12. Click File



13. In the File name type **cucumber.feature** and click Finish



14. After creating the file you will see a file with green color as below, if you are able to see the similar file then installation is successful



That's all.

**Note:** If you had any other difficulties, call the support team and plan to visit the training office to update your software before the training commences.

On completing this software installation, please go to your WhatsApp group and mention that you completed with the following information.

<Your name>

Installation completed successfully on <date time>