

## **1) Install Java SE 8**

from

<https://www.oracle.com/java/technologies/javase/javase8u211-later-archive-downloads.html>

find in page the string 8u291

then download

Java SE Development Kit 8u291

for windows 10 64 bit

jdk-8u291-windows-x64.exe

**Pay attention!**

**You need to create an Oracle account, for downloading**

**jdk-8u202-windows-x64.exe**

(before downloading you will be redirected to

<https://login.oracle.com/mysso/signon.jsp>)

## **2) Set JAVA\_HOME Environment Variable and Java Path on Windows 10**

<https://www.youtube.com/watch?v=yGxCQisOL1A>

of course the path you have to insert is not the same as the one mentioned in the video:

but refer to this below:

Nuova variabile di sistema (new Environment variable)

Nuova variabile di sistema

Nome: JAVA\_HOME

Valore: C:\Program Files\Java\jre1.8.0\_291

Sfoggia directory... Sfoggia file... OK Annulla

Then select Path and then Edit

Variabili d'ambiente

Variabili dell'utente per SECOM

Variabile	Valore
OneDrive	C:\Users\SECOM\OneDrive
Path	C:\Users\SECOM\AppData\Local\Microsoft\WindowsApps;
TEMP	C:\Users\SECOM\AppData\Local\Temp
TMP	C:\Users\SECOM\AppData\Local\Temp

Nuova... Modifica... Elimina

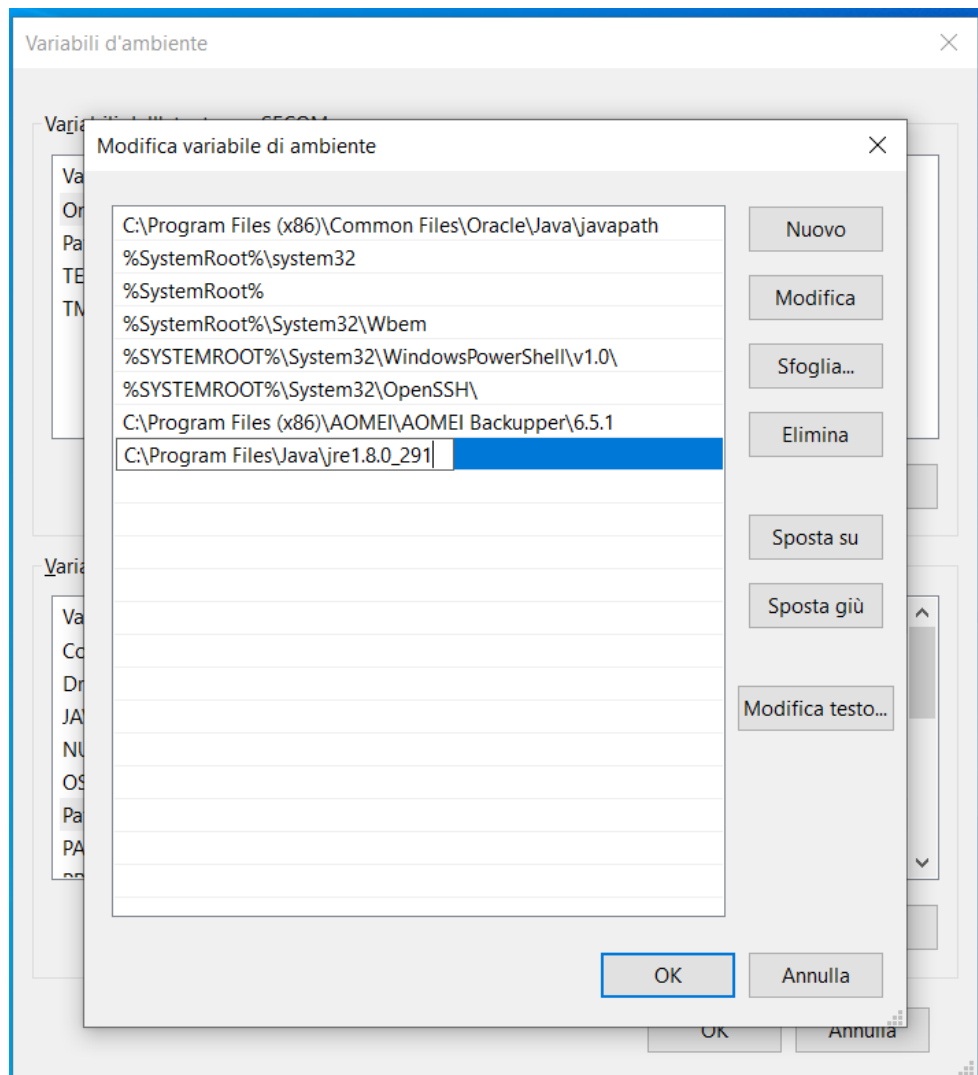
Variabili di sistema

Variabile	Valore
ComSpec	C:\Windows\system32\cmd.exe
DriverData	C:\Windows\System32\Drivers\DriverData
JAVA_HOME	C:\Program Files\Java\jre1.8.0_291
NUMBER_OF_PROCESSORS	8
OS	Windows_NT
Path	C:\Program Files (x86)\Common Files\Oracle\Java\javapath;C:...
PATHEXT	.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC
PROCESSOR_ARCHITECTURE	AMD64

Nuova... Modifica... Elimina

OK Annulla

Then New > Add jre path



To check if Java has been installed and configured correctly, go to CMD mode and exec DOS command

**java -version**

as shown below

```
C:\Users\SECOM>java -version
java version "1.8.0_291"
Java(TM) SE Runtime Environment (build 1.8.0_291-b10)
Java HotSpot(TM) 64-Bit Server VM (build 25.291-b10, mixed mode)
```

3) Install Eclipse on Windows 10

From <https://www.eclipse.org/downloads/packages/release/2021-06/r>

Go to the right side of the web page and click on the orange button below this text:

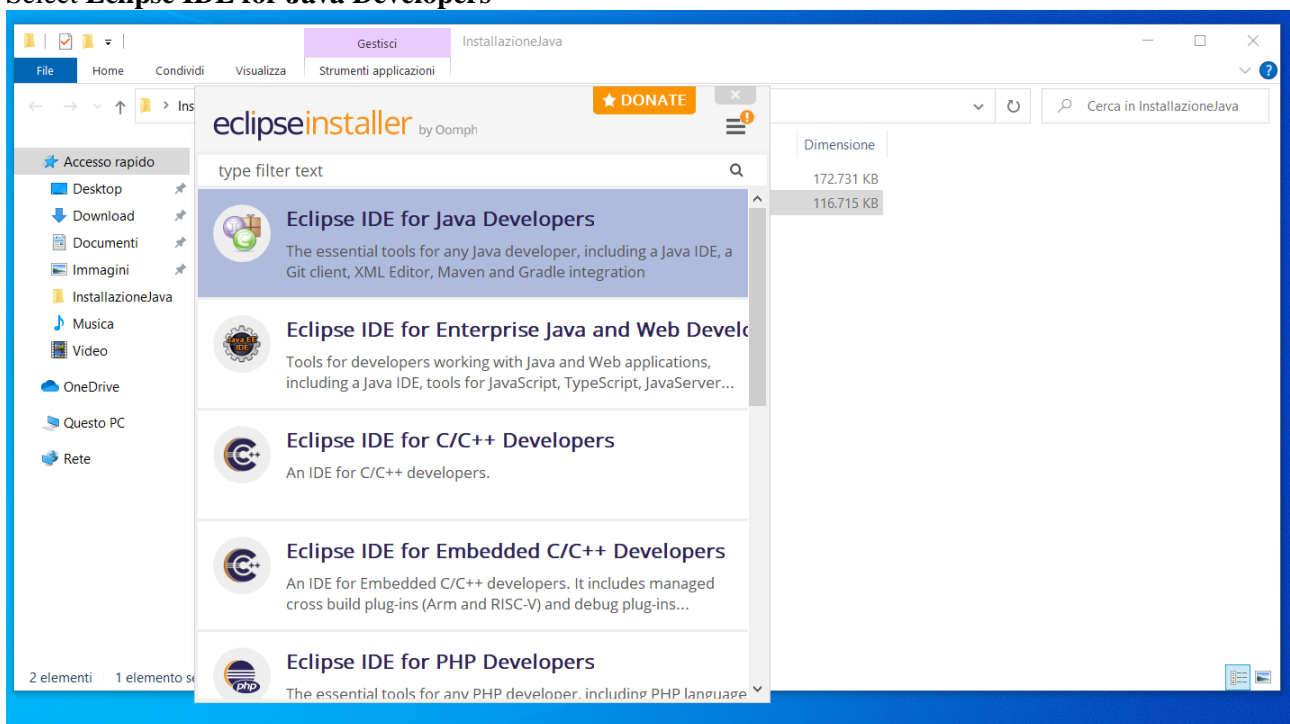
**Get Eclipse IDE 2021-12**

**Install your favorite desktop IDE packages**

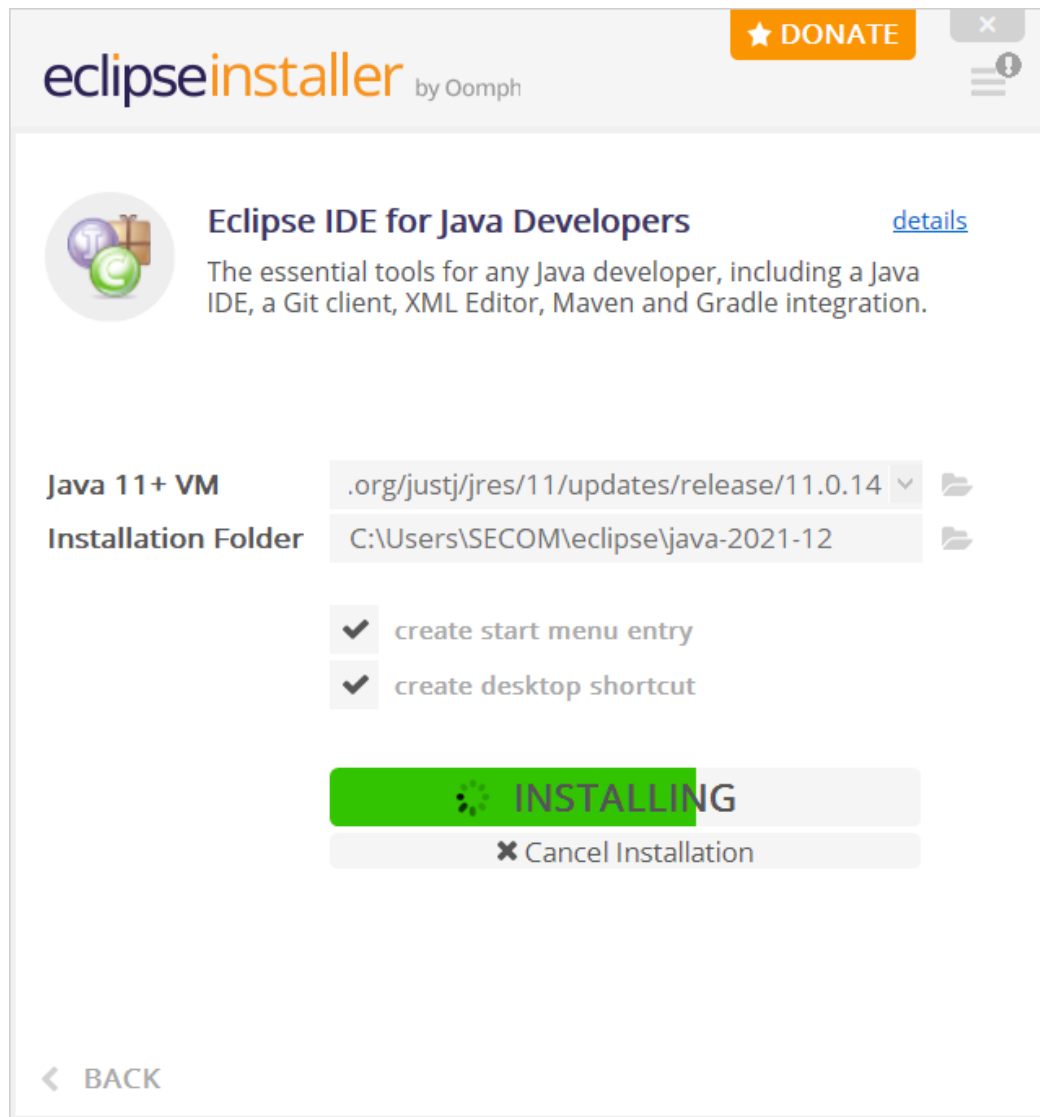


Then launch (Always with Administrator user) the installation setup **eclipse-inst-jre-win64.exe**

### Select **Eclipse IDE for Java Developers**



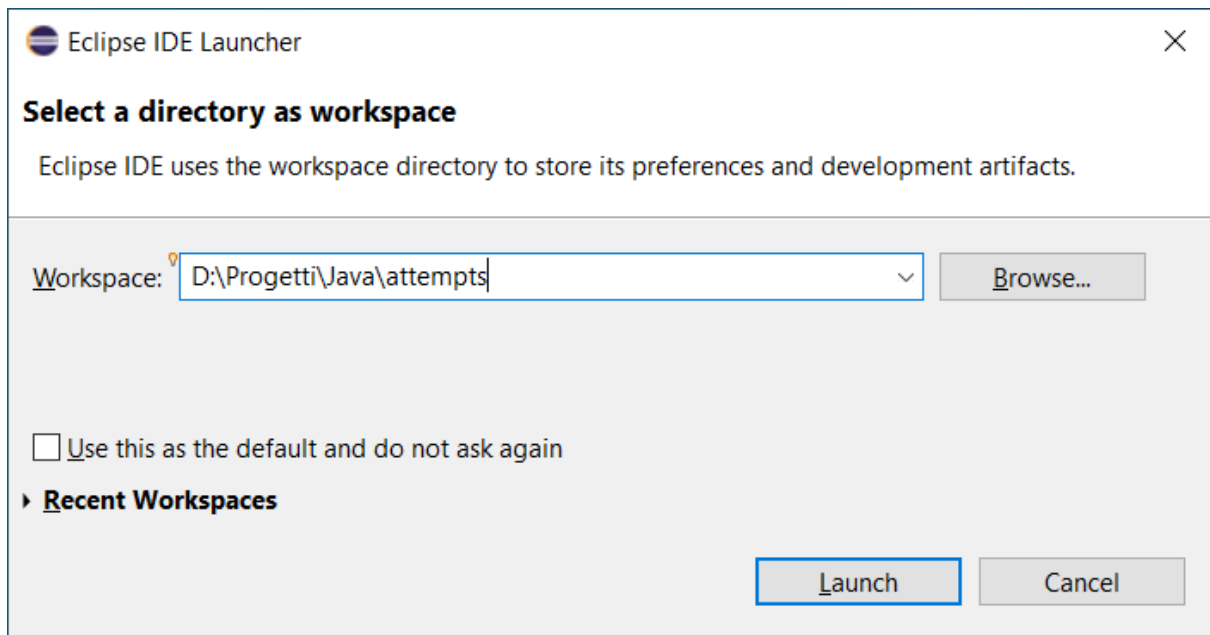
Accept default settings and click on Install



Once installation has finished,

Click on LAUNCH

And then set a test Workspace (I suggest D:\Progetti\Java\attempts) and then go on



Close Introductory page

**Welcome to the Eclipse IDE for Java Developers**

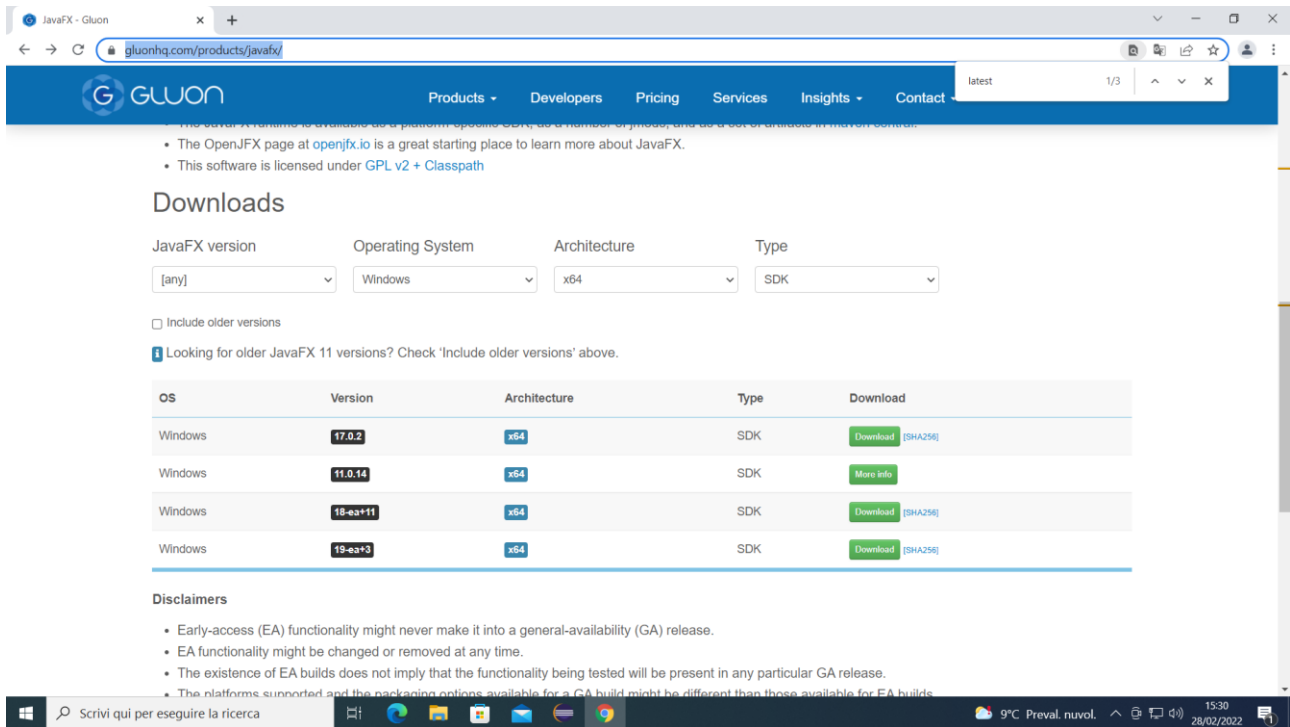
**3) Now INSTALL JAVAFX according to the instructions contained in this video:**

<https://www.youtube.com/watch?v=bC4XB6JAaoU&t=129s>

**NOTE: you can download Javafx from this link:**

<https://gluonhq.com/products/javafx/>

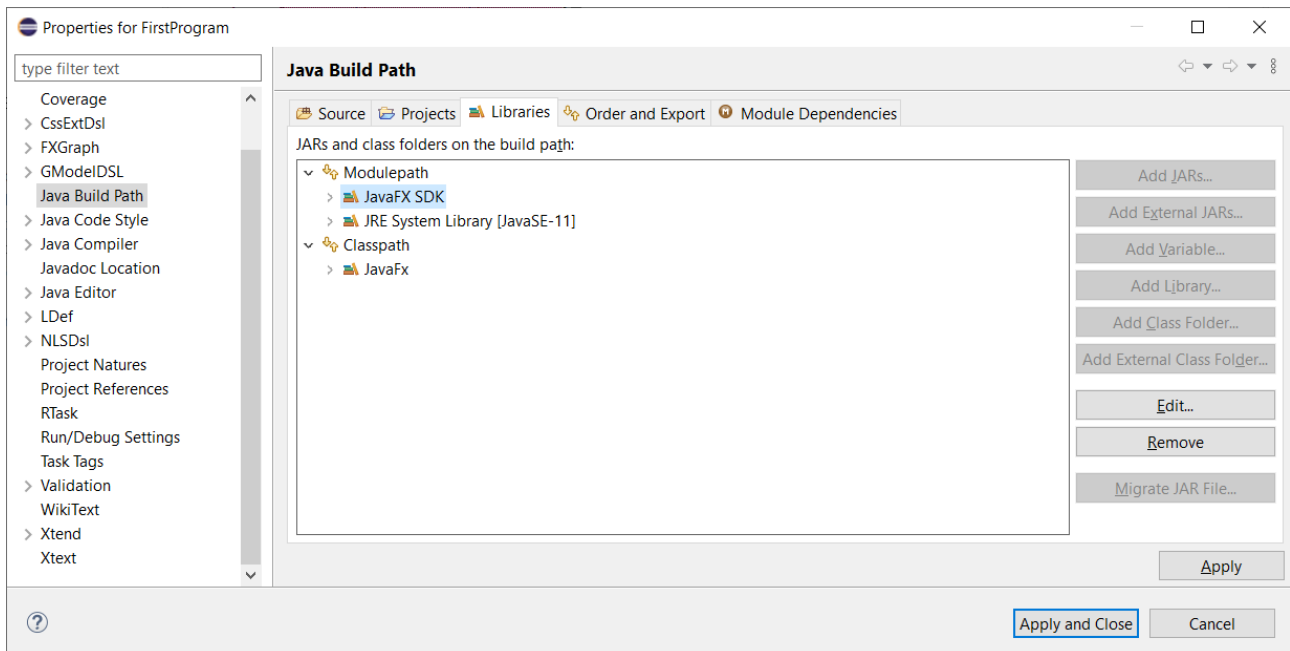
**then filter how indicated below:**



**And download version 17.0.2 (javafx-sdk-17.0.2)**

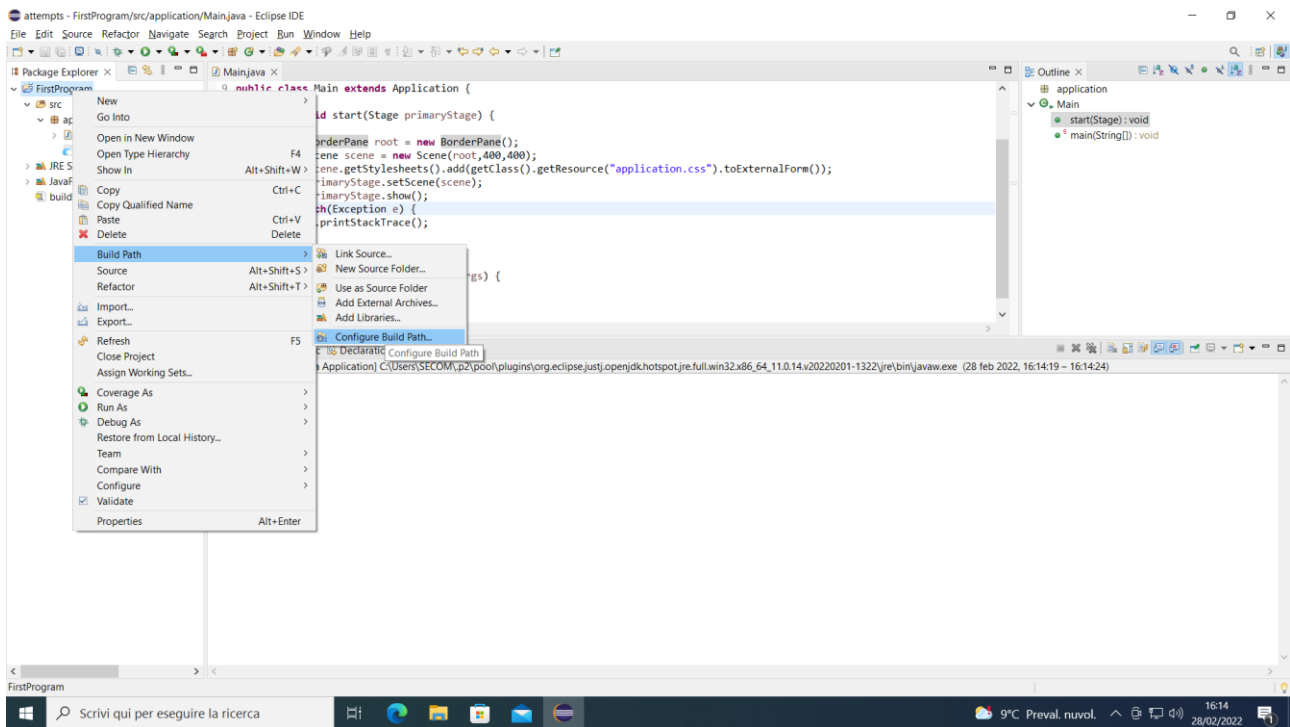
**Follow the instructions in the video above.**

**Remember to remove JavaFX SDK if you find it under Modulepath:**



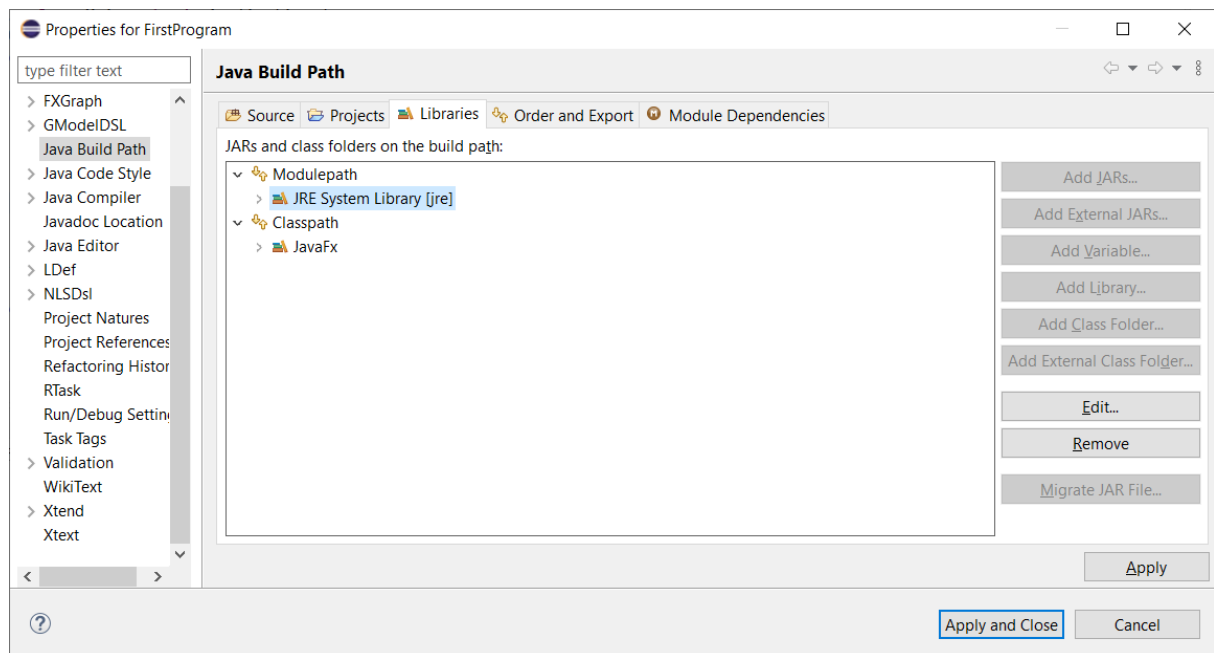
**Remember that by default Java 11 is installed, but we decided to use Java 1.8.xx**

**So, what you need to do is:**



## Select Configure Build Path

Then change **JRE System Library** from 11 to 1.8.

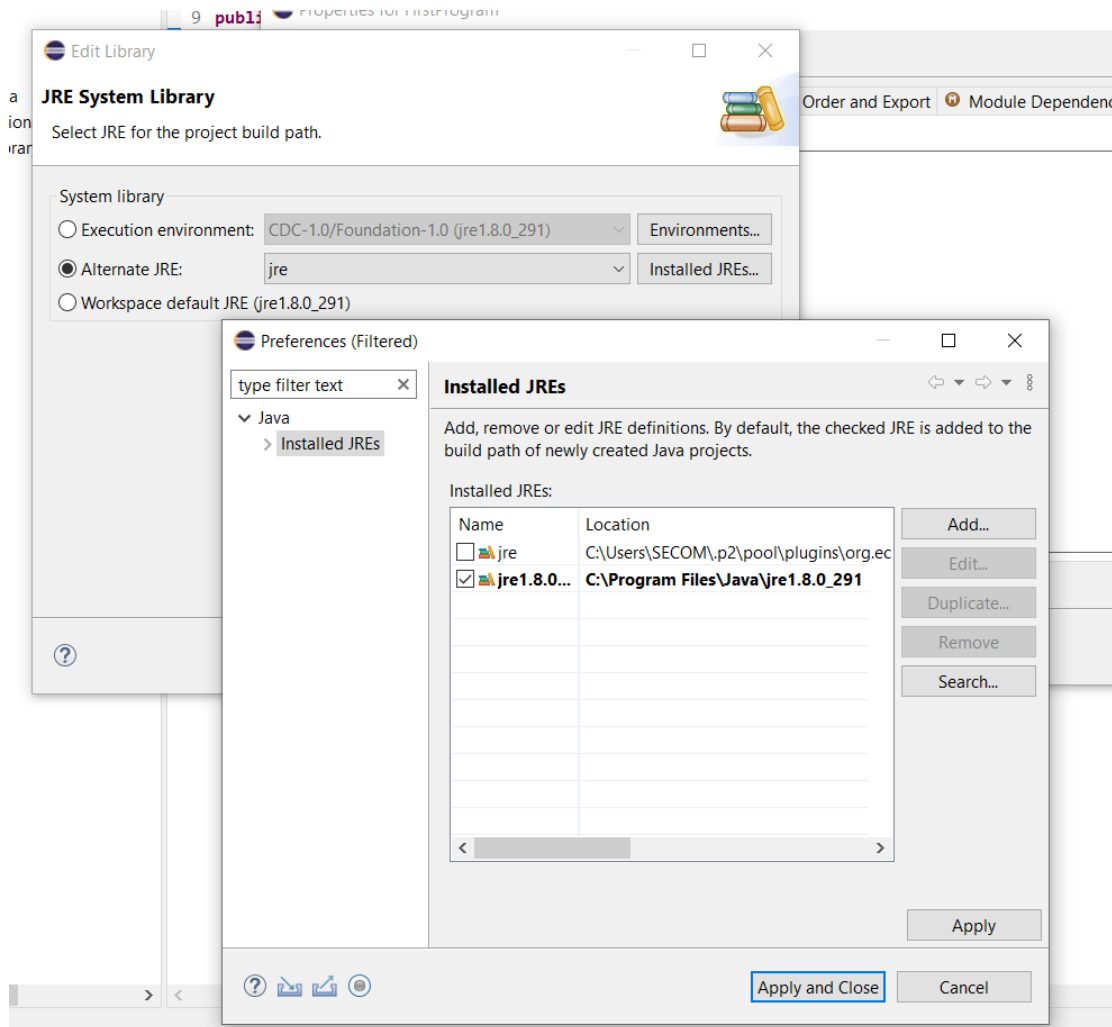


To do this, you need to select

## JRE System Library

Then Click on Edit, select Alternate JRE and select the path to **jre1.8.0\_291**.





#### 4) Install Scene Builder

Download Scene Builder from


<https://gluonhq.com/products/scene-builder/>

In the page goto

#### Download Scene Builder for Java 8

Scene Builder 8.5.0 is for users who are still on Java 8. It was released on Jun 5, 2018.

**And download Scene Builder Windows Installer 64-bit**



Products ▾DevelopersPricingServicesInsights ▾Contact ▾

Scene Builder Kit [info](#)Jar FileDownload

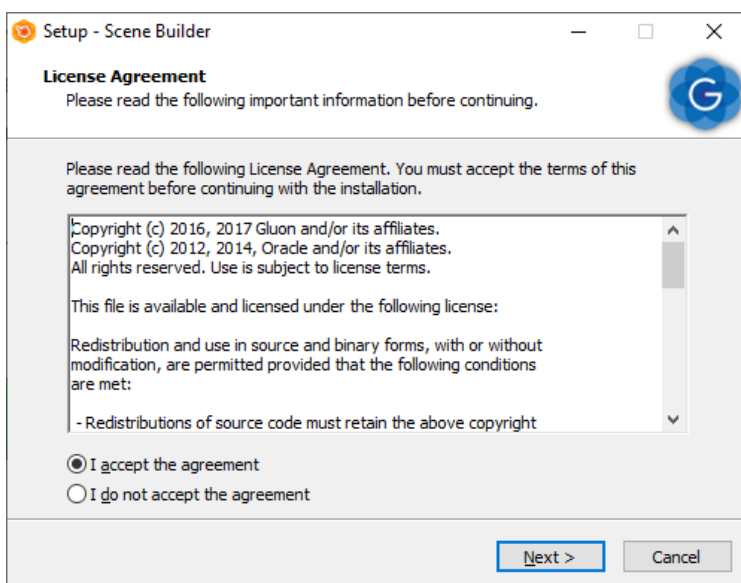
License: Scene Builder 17 is licensed under the BSD license.

## Download Scene Builder for Java 8

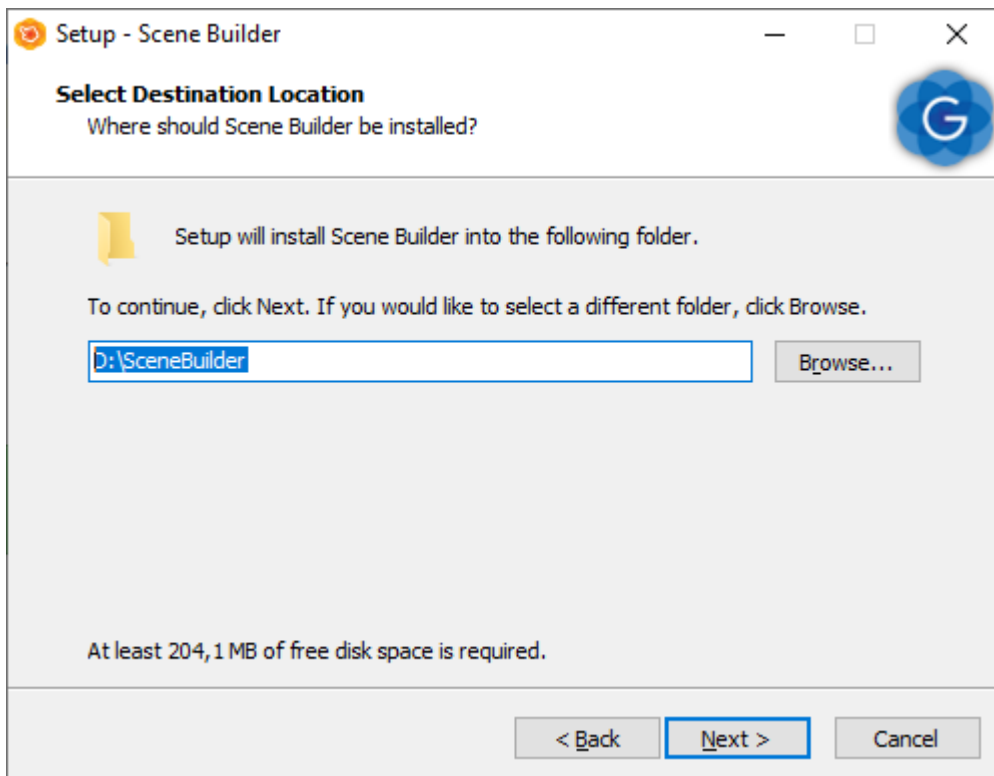
Scene Builder 8.5.0 is for users who are still on Java 8. It was released on **Jun 5, 2018**.

Product	Platform	Download
Scene Builder	Executable Jar	<a href="#">Download</a>
Scene Builder	Windows Installer 64-bit	<a href="#">Download</a>

## Download and install

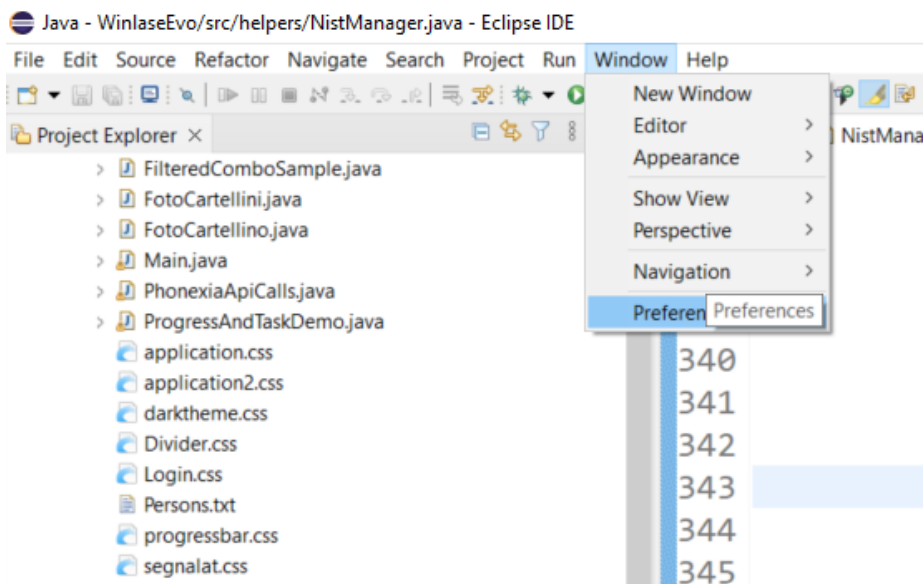


## Install it into D:\SceneBuilder

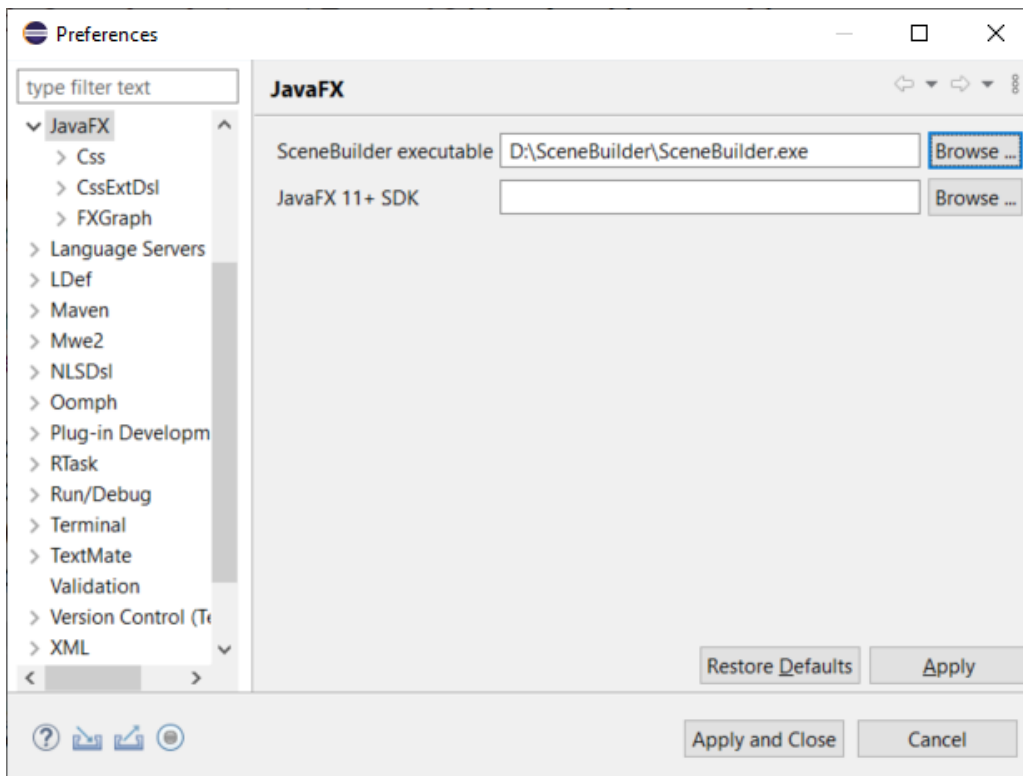


Once SceneBuilder has been downloaded and installed in D:\SceneBuilder

Open Eclipse and goto Window>Preferences



Then select JavaFx and set the SceneBuilder exe Path



Now you should be able to open an FXML file into a Javafx program.

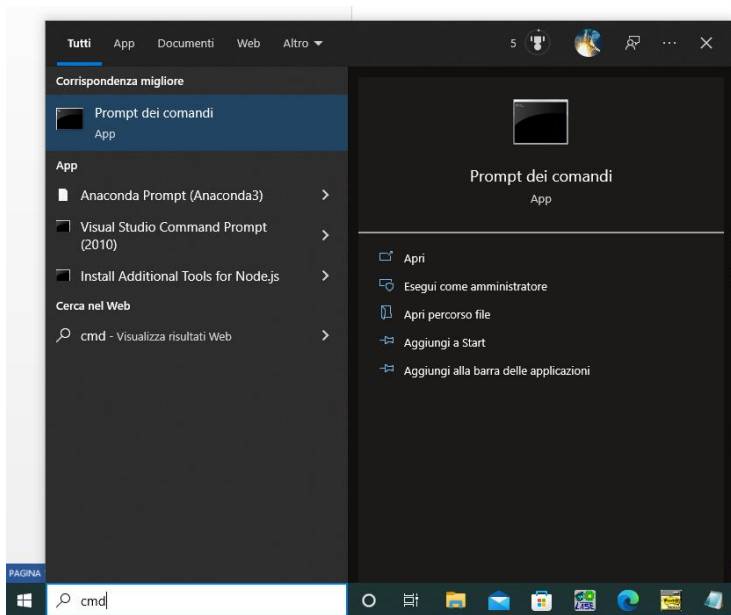
To understand better what a FXML file is, I suggest you to read the following introductions:

<https://www.vojtechruzicka.com/javafx-fxml-scene-builder/>

[https://docs.oracle.com/javase/8/javafx/api/javafx/fxml/doc-files/introduction\\_to\\_fxml.html](https://docs.oracle.com/javase/8/javafx/api/javafx/fxml/doc-files/introduction_to_fxml.html)

## 5) Connect to Secom Git Repository

Open **Prompt** (through CMD command)



check git version using the following command:

**git --version**

if no Git version is available then install 64-bit Git from

**<https://git-scm.com/download/win>**

Once **Git-2.35.1.2-64-bit.exe** file has been downloaded, install it

Then close CMD window and open it again

Check git version

**git --version**

Now the following string should be returned

**git version 2.35.1.windows.2**

Then go to D:\ and create the following folder

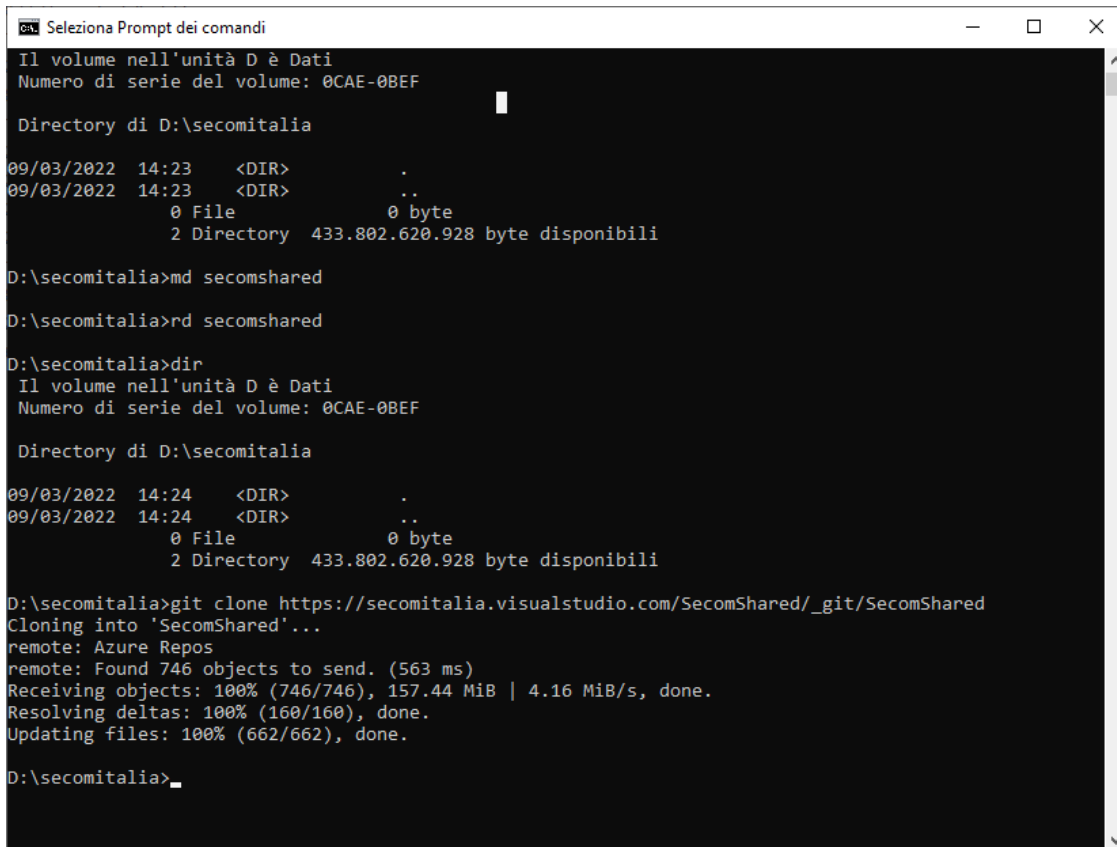
**D:\secomitalia**

The access SecomShared folder through dos command **cd**

then launch this command

**git clone https://secomitalia.visualstudio.com/SecomShared/\_git/SecomShared**

you will be requested to authenticate



```
Seleziona Prompt dei comandi
Il volume nell'unità D è Dati
Numero di serie del volume: 0CAE-0BEF

Directory di D:\secomitalia
09/03/2022 14:23 <DIR>      .
09/03/2022 14:23 <DIR>      ..
                0 File      0 byte
                2 Directory 433.802.620.928 byte disponibili

D:\secomitalia>md secomshared

D:\secomitalia>rd secomshared

D:\secomitalia>dir
Il volume nell'unità D è Dati
Numero di serie del volume: 0CAE-0BEF

Directory di D:\secomitalia
09/03/2022 14:24 <DIR>      .
09/03/2022 14:24 <DIR>      ..
                0 File      0 byte
                2 Directory 433.802.620.928 byte disponibili

D:\secomitalia>git clone https://secomitalia.visualstudio.com/SecomShared/_git/SecomShared
Cloning into 'SecomShared'...
remote: Azure Repos
remote: Found 746 objects to send. (563 ms)
Receiving objects: 100% (746/746), 157.44 MiB | 4.16 MiB/s, done.
Resolving deltas: 100% (160/160), done.
Updating files: 100% (662/662), done.

D:\secomitalia>_
```

See below the DOS commands to execute (in order)

**Microsoft Windows [Versione 10.0.19044.1566]**

**(c) Microsoft Corporation. Tutti i diritti sono riservati.**

```
C:\Users\SECOM>git --version
git version 2.35.1.windows.2
```

```
C:\Users\SECOM>cd\
```

.....

Open Dos modality (through CMD command)  
check git version using the following command:

**git --version**

in no git version is available

install 64-bit Git from  
<https://git-scm.com/download/win>

Once Git-2.35.1.2-64-bit.exe file  
has been downloaded  
install it

close CMD window and open it again  
check git version

**git --version**

Now it should return the following string

**git version 2.35.1.windows.2**

Now go to D:\  
create this path

**D:\secomitalia**

then do:

**cd secomitalia**

then launch this command

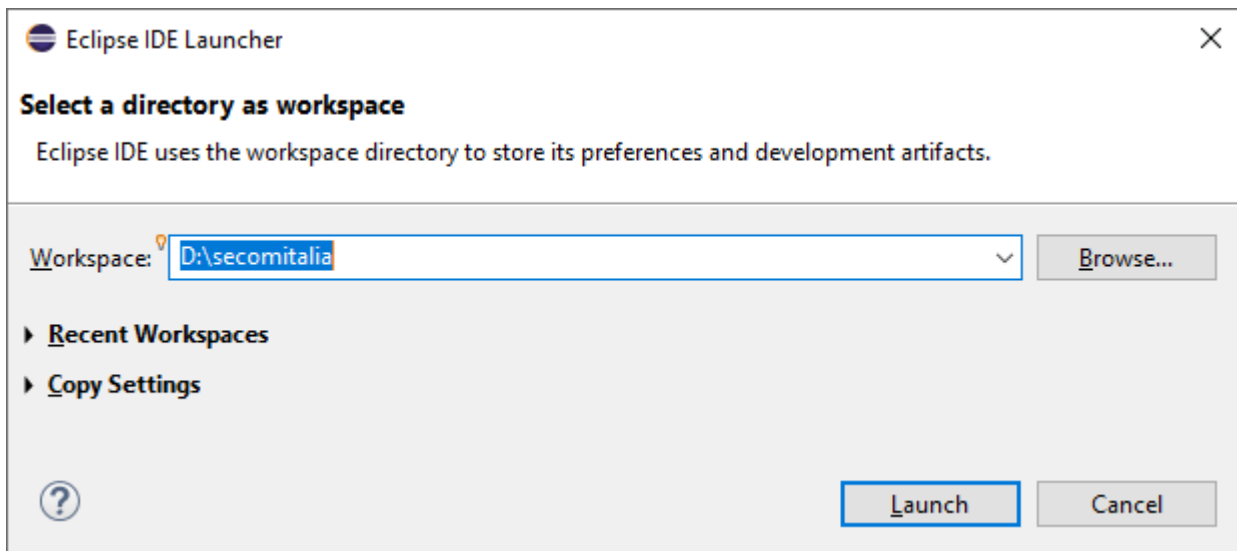
**git clone  
https://secomitalia.visualstudio.com/SecomShared/\_git/SecomShared**

you will be requested to authenticate

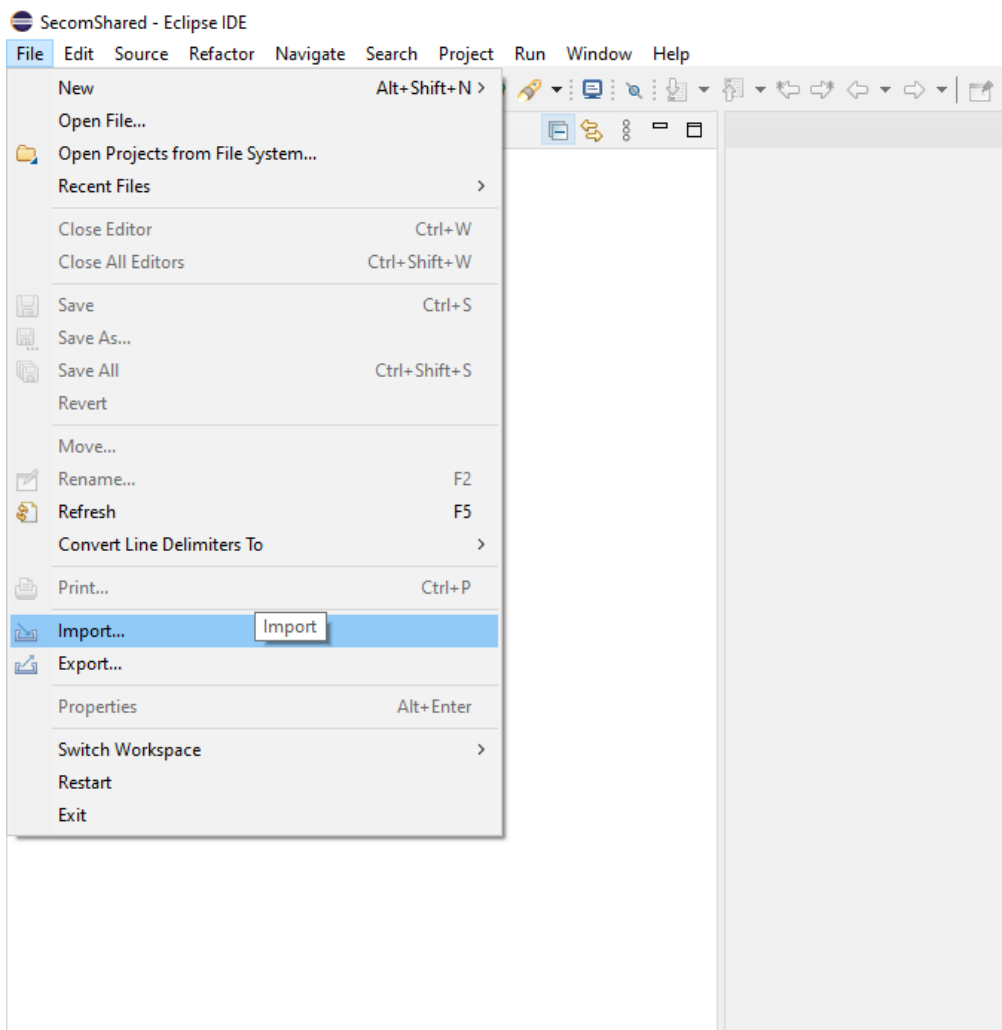
```
C:\secomitalia>git clone
https://secomitalia.visualstudio.com/SecomShared/_git/SecomShared
Cloning into 'secomitalia'...
remote: Azure Repos
remote: Found 410 objects to send. (36 ms)
Receiving objects: 100% (410/410), 100.13 MiB | 4.57 MiB/s, done.
Resolving deltas: 100% (87/87), done.
*****
```

Now open eclipse (Run as Administrator, better) and set the following workspace:

Close Welcome page

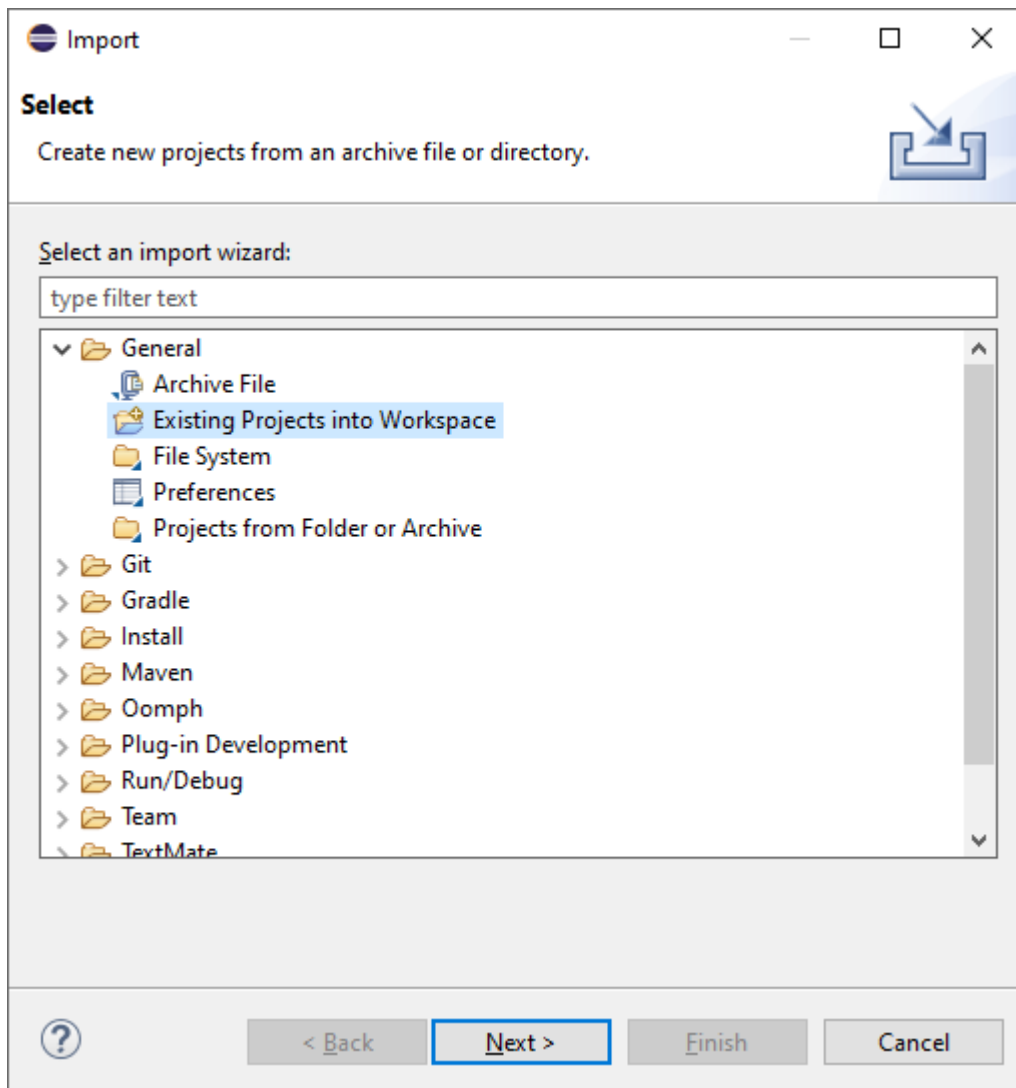


After closing the starting page, click on File>Import

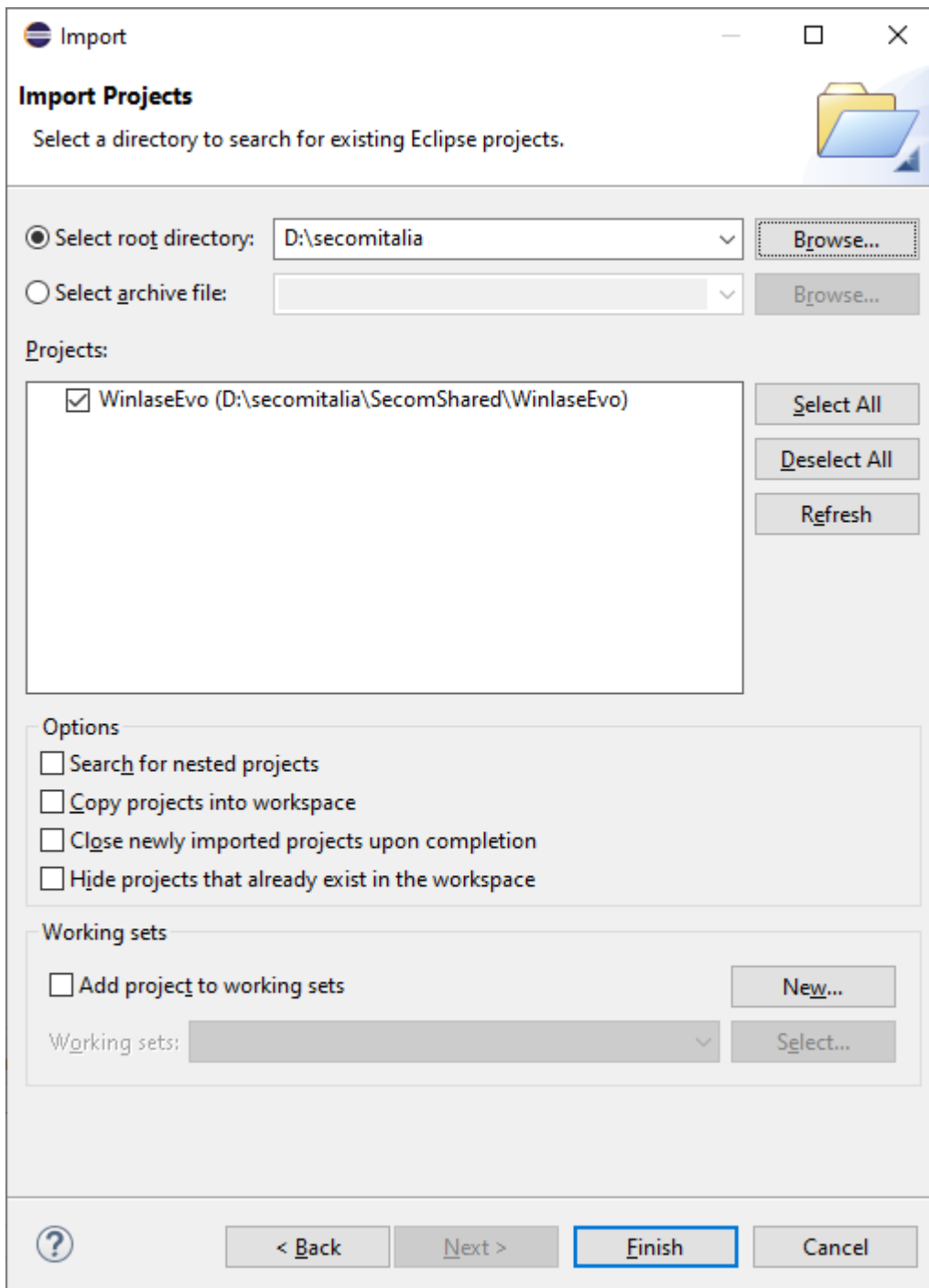


Then click on General>Existing Projects into Workspace

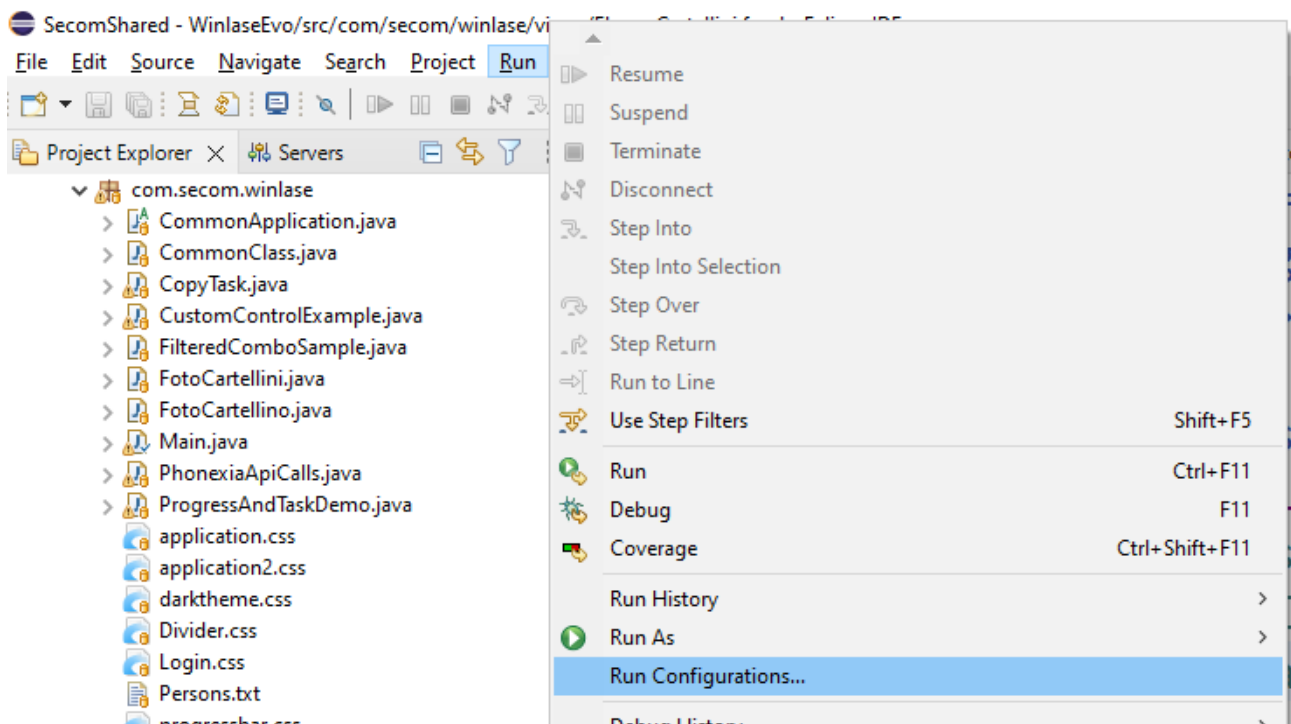




Select existing workspace as follows and then click on Finish

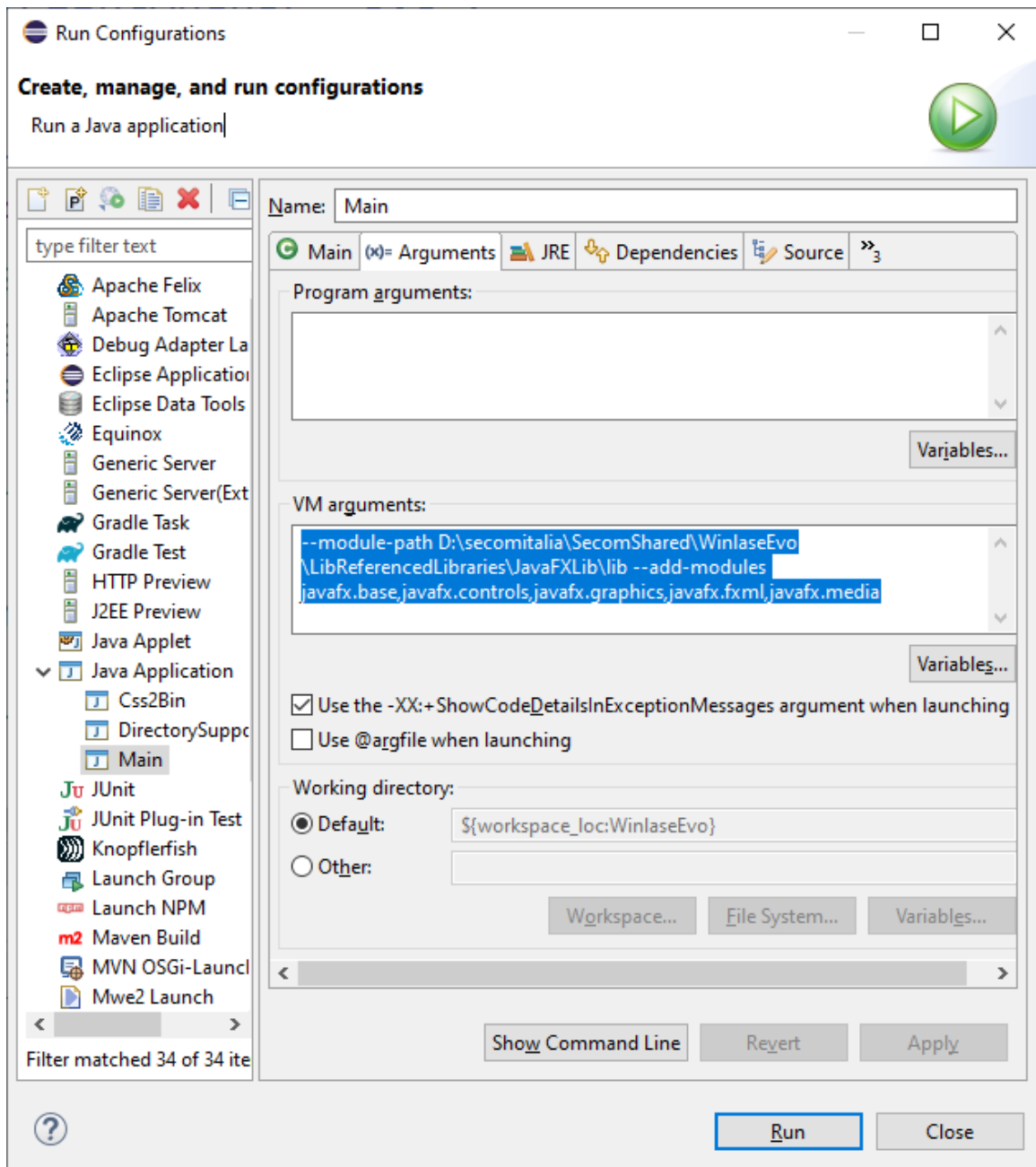


Once the project (WinlaseEvo) has been imported go to Run> Run Configurations



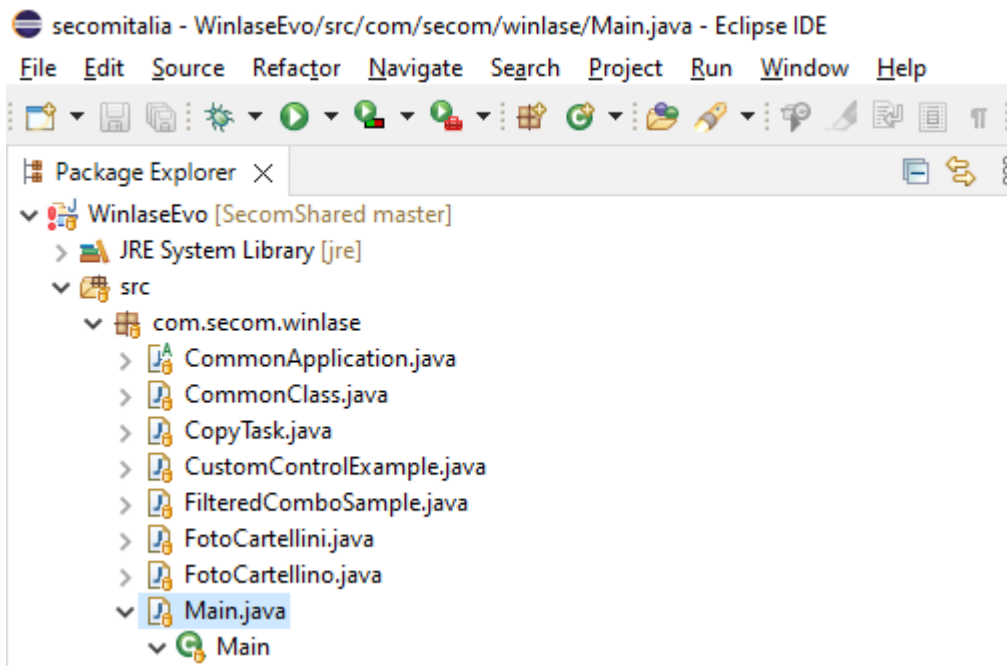
And paste the following string into the VM Arguments textbox, as shown in the picture below.

**--module-path D:\secomitalia\SecomShared\WinlaseEvo\LibReferencedLibraries\JavaFXLib\lib --  
add-modules javafx.base,javafx.controls,javafx.graphics,javafx.fxml,javafx.media**



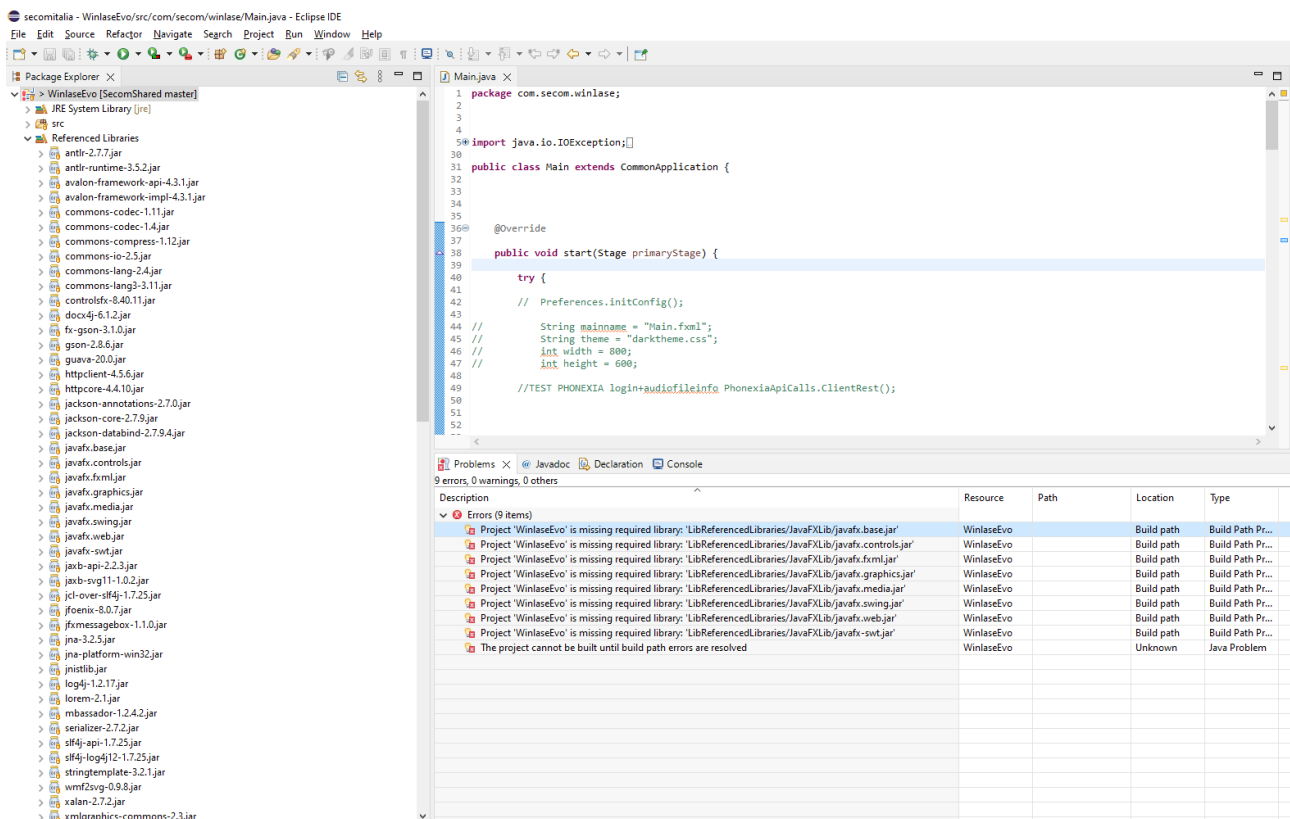
Click on Apply and then close.

Now, select the main module as shown below

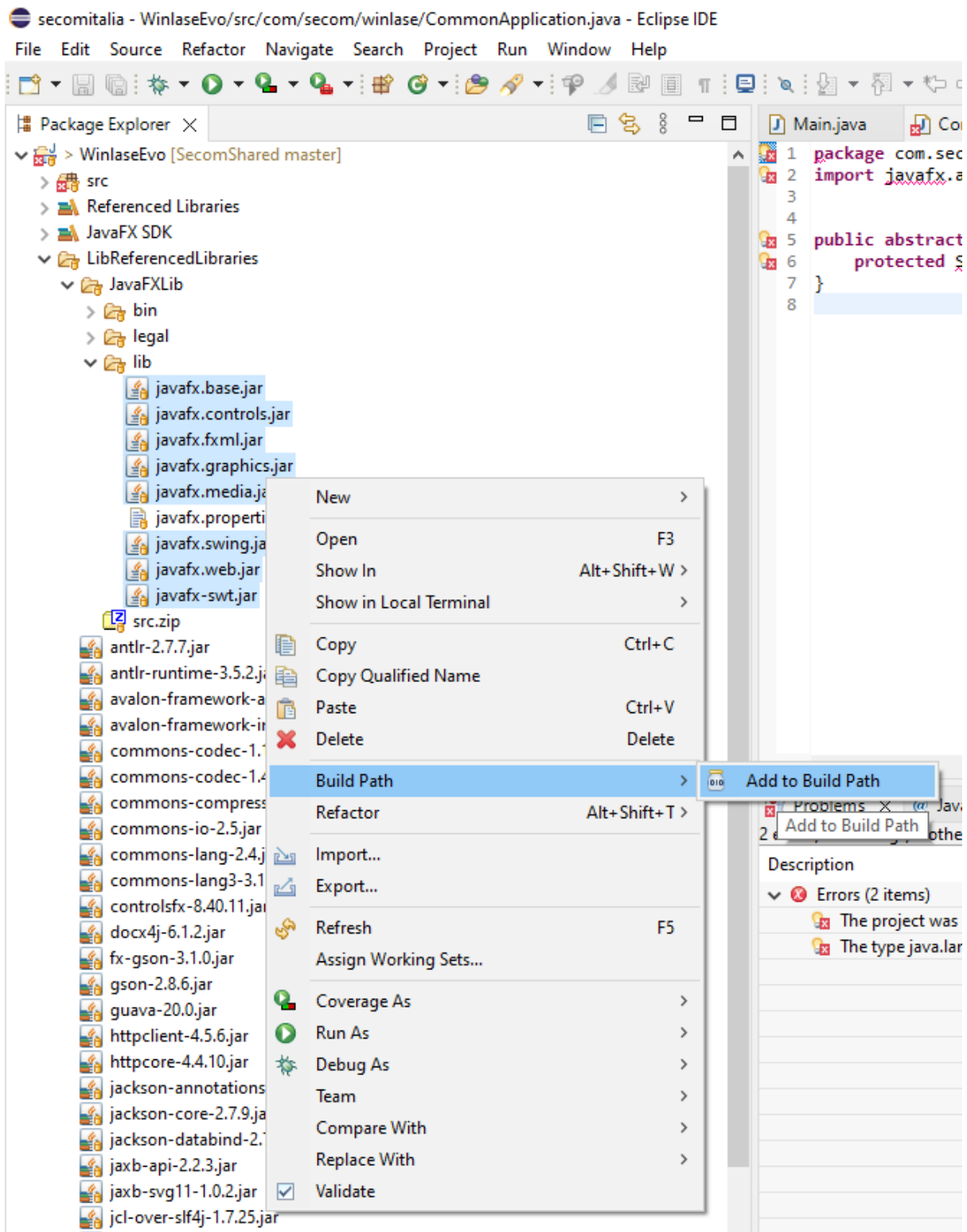


And then try to run the program.

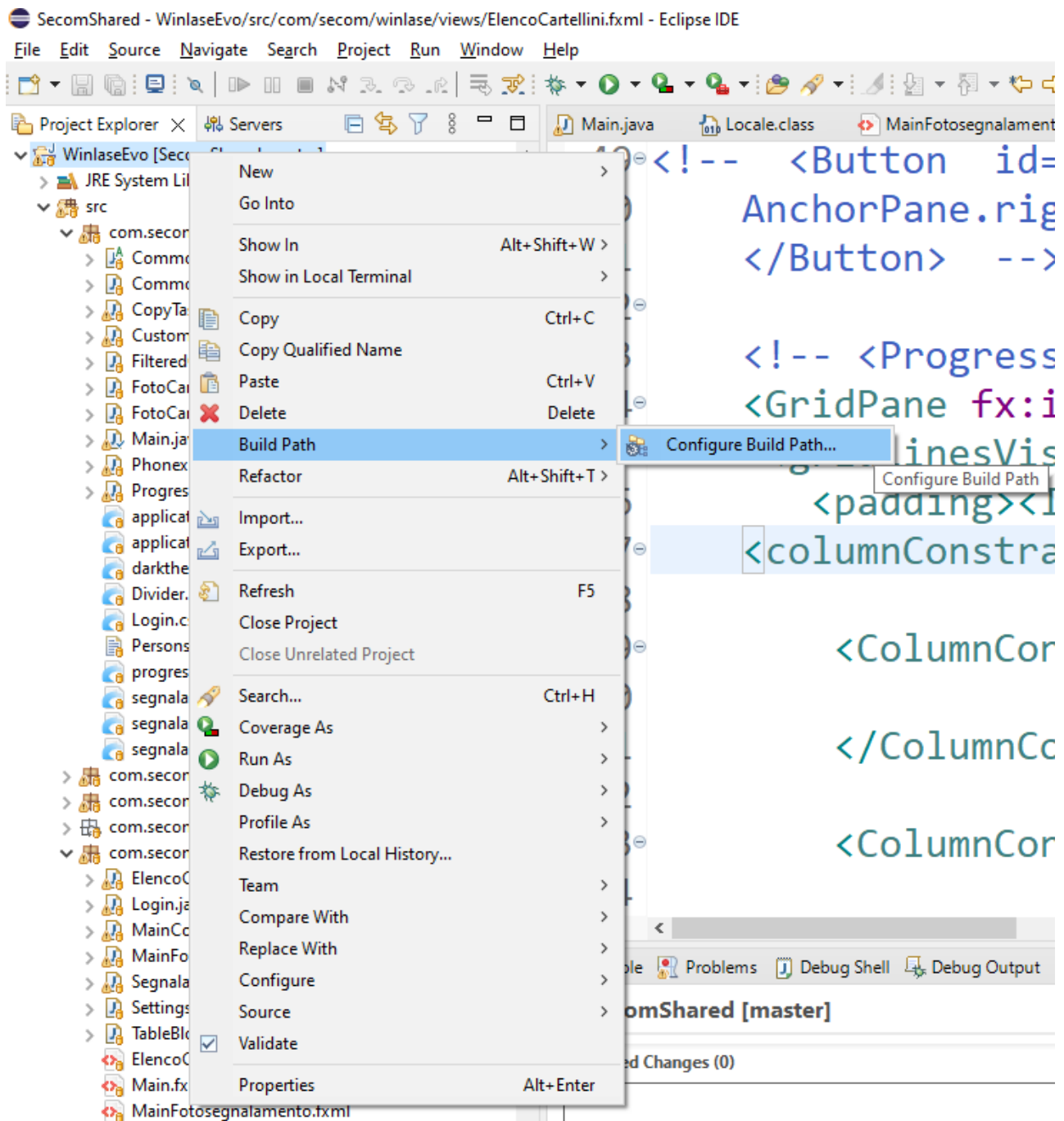
If you receive this error:



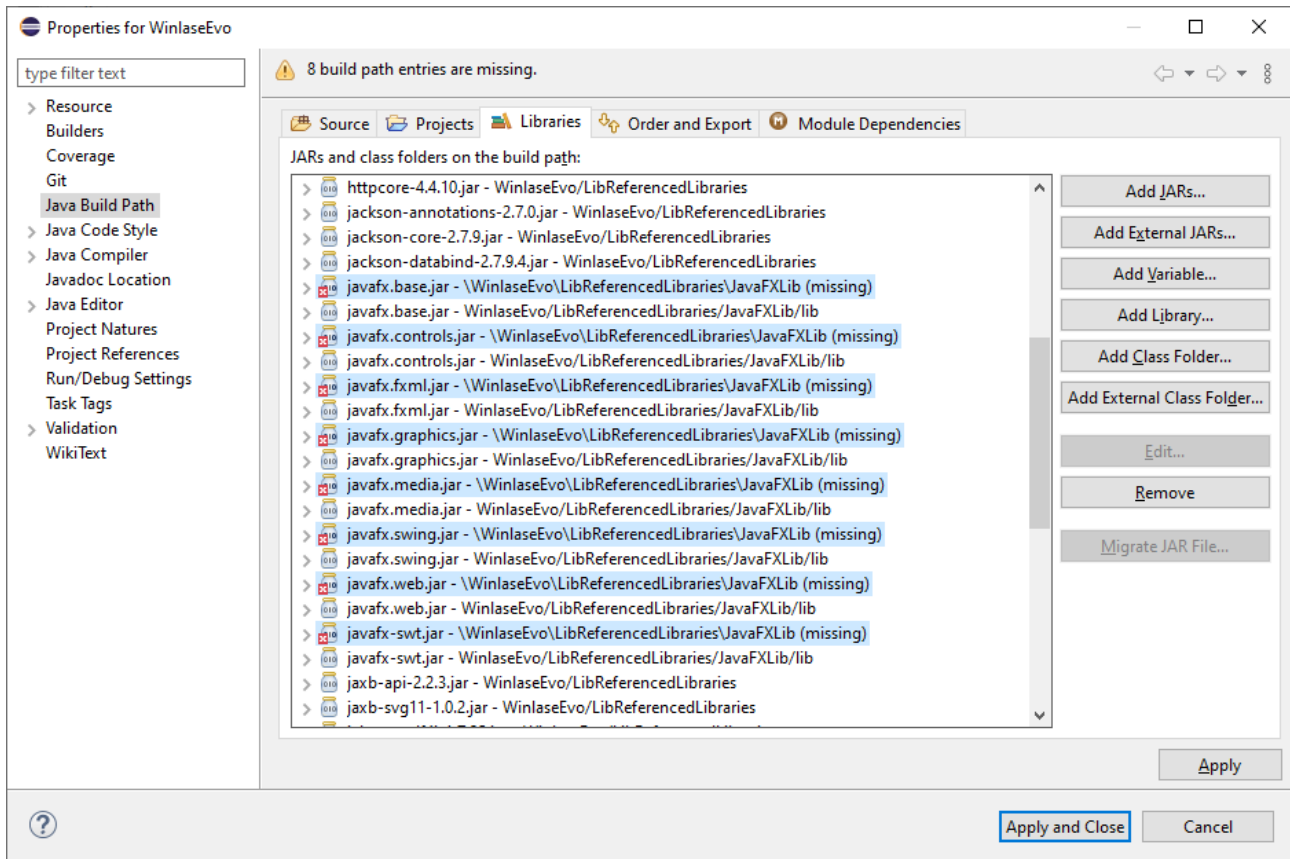
Then add the following (only selected) files to Build path as follows



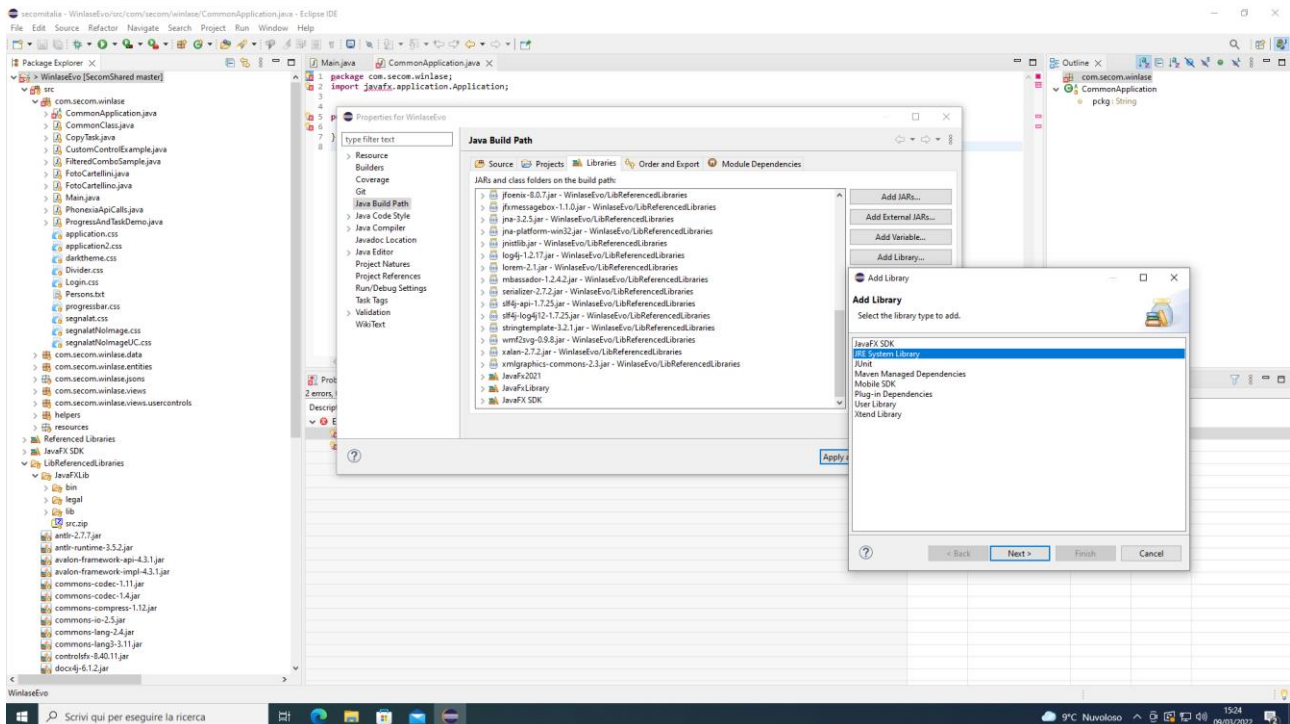
Then select WinlaseEvo > Build Path > Configure Build Path



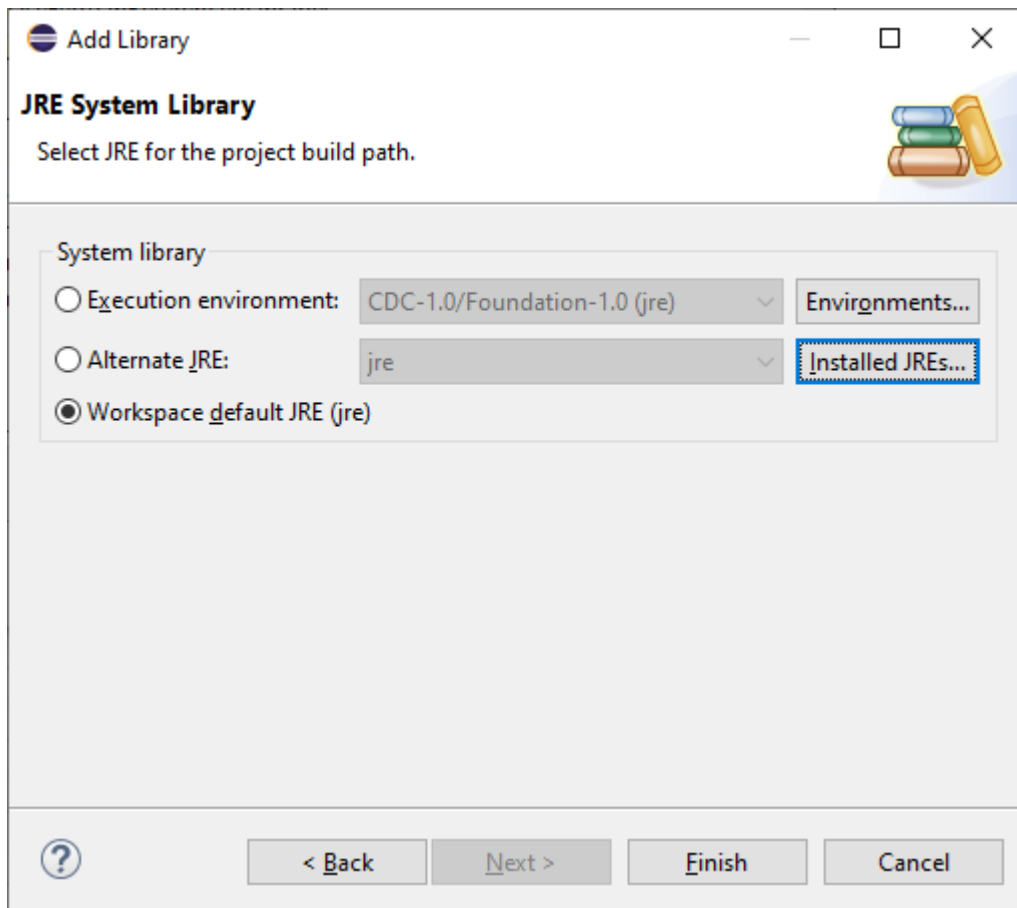
Then go to Libraries and remove Missing files



If JRE library is missing then add library as follows







And then click on Finish.

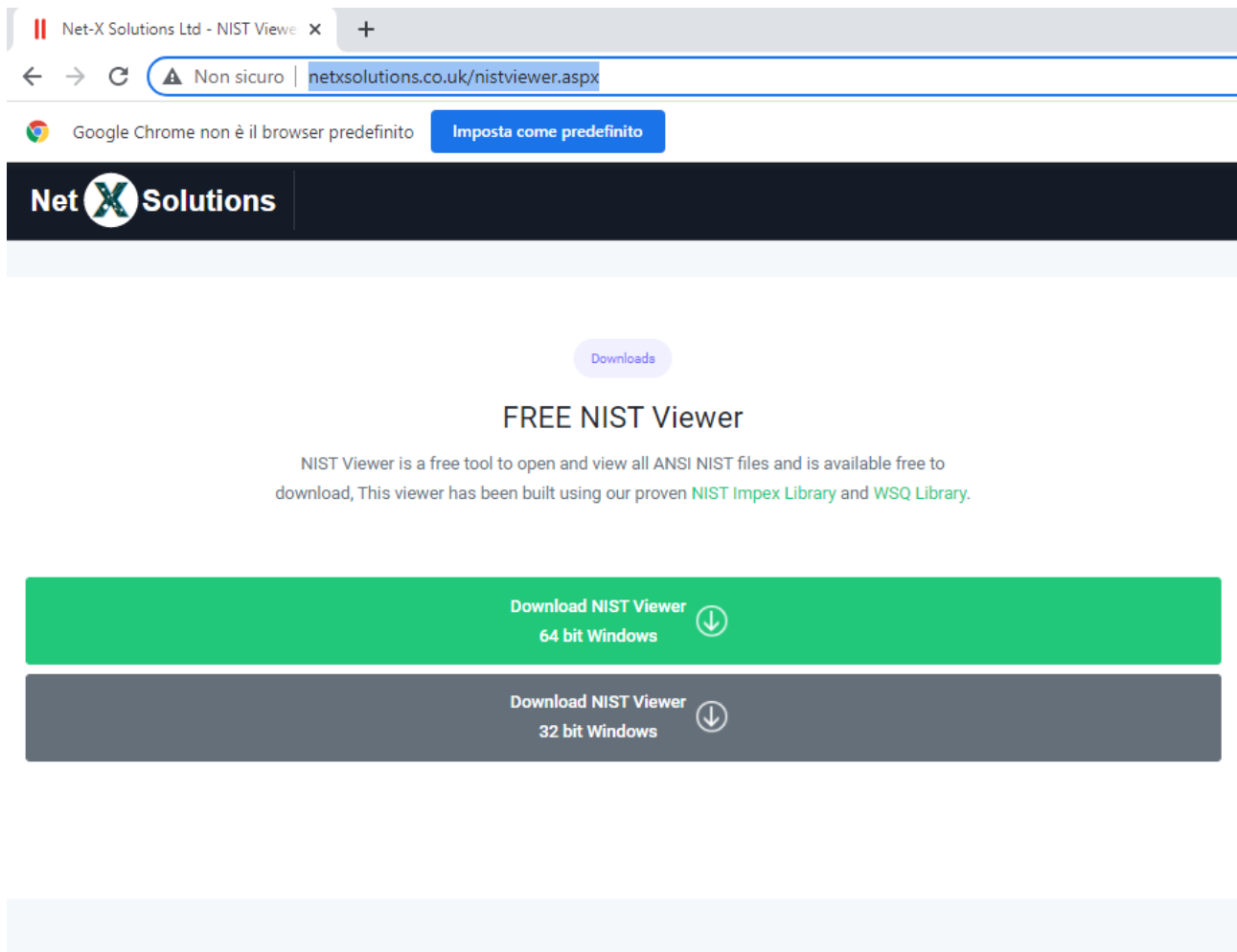
#### 6) Install the following NistViewers

<http://www.cognaxon.com/index.php?page=nistviewer>

[https://download.cnet.com/IDX-BioSuite-NIST-Viewer/3000-20418\\_4-75925897.html](https://download.cnet.com/IDX-BioSuite-NIST-Viewer/3000-20418_4-75925897.html)

if the last link doesn't work as expected, please download the 64-bit version of the IDX-Biosuite from here

<http://www.netxsolutions.co.uk/nistviewer.aspx>































**7) create in D:\ the following paths**

D:\DATA\Codifiche

D:\DATA\xml\out

Copy into codifiche the files (after downloading them)

Questo PC > Volume (D:) > DATA > Codifiche >

Nome	Ultima modifica	Tipo	Dimensione
22-07-2020	02/03/2022 09:46	Cartella di file	
 codmotivosegnalamento.json	22/07/2020 11:03	File JSON	1 KB
 codragionereato.json	22/07/2020 11:03	File JSON	1 KB
 codifica.json	06/05/2020 18:02	File JSON	1 KB
 codificaMEMENTO.json	06/05/2020 18:02	File JSON	1 KB
 codanomaliafisica.json	22/07/2020 11:02	File JSON	1 KB
 codente.json	22/07/2020 11:03	File JSON	1 KB
 codtipodocumento.json	22/07/2020 11:03	File JSON	1 KB
 codentedocumento.json	22/07/2020 11:03	File JSON	1 KB
 andatura.json	12/05/2020 12:47	File JSON	1 KB
 codistruzione.json	22/07/2020 11:03	File JSON	1 KB
 codandatura.json	22/07/2020 11:02	File JSON	1 KB
 codetaapparente.json	22/07/2020 11:03	File JSON	1 KB
 codcontrassegno.json	22/07/2020 11:02	File JSON	2 KB
 coddatosomaticofamiglia.json	22/07/2020 11:03	File JSON	2 KB
 codstatocivile.json	22/07/2020 11:03	File JSON	2 KB
 codreatogruppo.json	22/07/2020 11:03	File JSON	2 KB
 codimperfezione.json	22/07/2020 11:03	File JSON	3 KB
 codetnia.json	22/07/2020 11:03	File JSON	3 KB
 codtipoufficio.json	22/07/2020 11:03	File JSON	6 KB
 codcontrassegnosedede.json	22/07/2020 11:03	File JSON	6 KB
 coddatosomaticotipo.json	22/07/2020 11:03	File JSON	8 KB
 codprofessione.json	22/07/2020 11:03	File JSON	9 KB
 codprovincia.json	22/07/2020 11:03	File JSON	14 KB
 codnazione.json	22/07/2020 11:03	File JSON	25 KB
 coddatosomatico.json	22/07/2020 11:03	File JSON	75 KB
 codreato.json	22/07/2020 11:03	File JSON	205 KB
 codufficio.json	22/07/2020 11:03	File JSON	1.023 KB
 codcomune.json	22/07/2020 11:02	File JSON	1.240 KB

8) Open project (from the WinlaseEvo root), right click and fetch last updates from origin (as follows)

secomitalia - WinlaseEvo/src/com/secom/winlase/Main.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer X Main.java X CommonApplication.java ProgressAn

WinlaseEvo [SecomShared master]  
src  
Referenced Libraries  
JavaFX SDK  
JRE System Library [jre]  
LibReferencedLibraries  
publish  
winlase.ini

New

Go Into

Open in New Window

Open Type Hierarchy F4

Show In Alt+Shift+W

Show in Local Terminal

Copy Ctrl+C

Copy Qualified Name

Paste Ctrl+V

Delete Delete

Build Path

Source Alt+Shift+S

Refactor Alt+Shift+T

Import...

Export...

Refresh F5

Close Project

Assign Working Sets...

Coverage As

Run As

Debug As

Restore from Local History...

Team

Compare With

Replace With

Configure

Validate

Properties Alt+Enter

Commit... Ctrl+#

Stashes

Push to origin

Fetch from origin

Push Branch 'master'...

Pull

Pull...

Remote

Switch To

Advanced

Synchronize Workspace

Merge Tool

Merge...

Rebase...

Reset...

Create Patch...

Apply Patch...

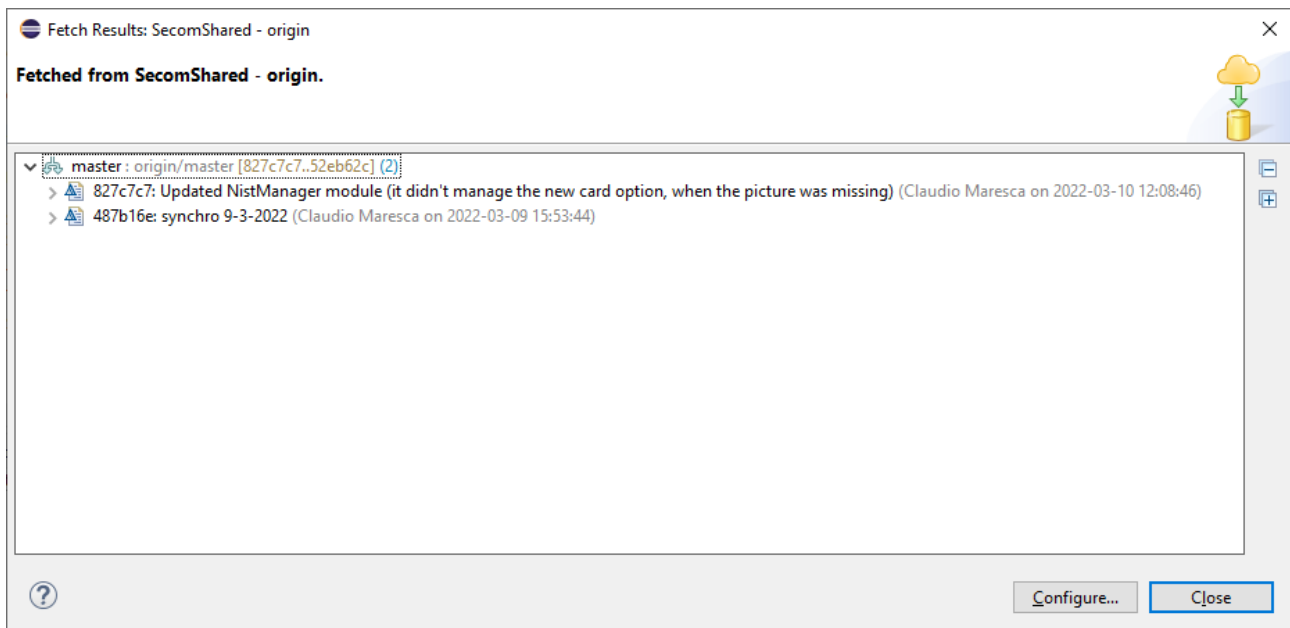
Add to Index

Ignore

Show in History

Show in Repositories View

Disconnect

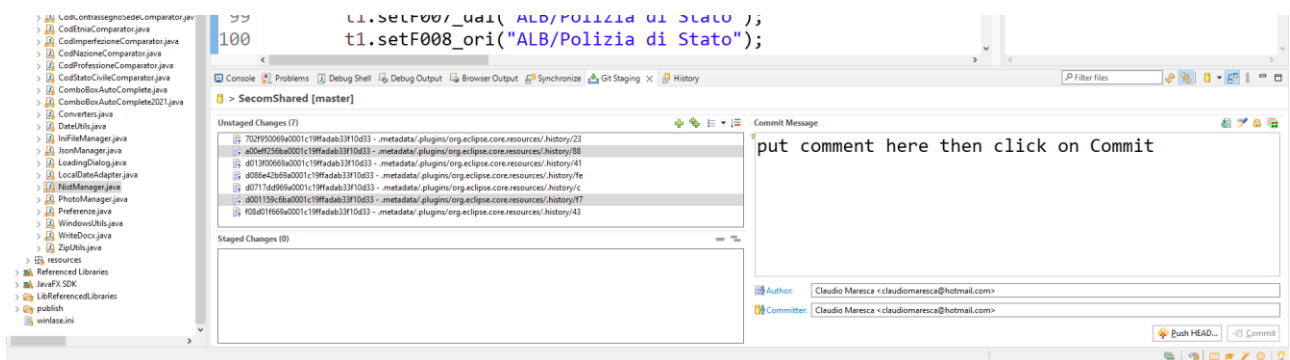


Then Click on WinlaseEvo>(right click)>Team>Pull

Now the source files should be aligned.

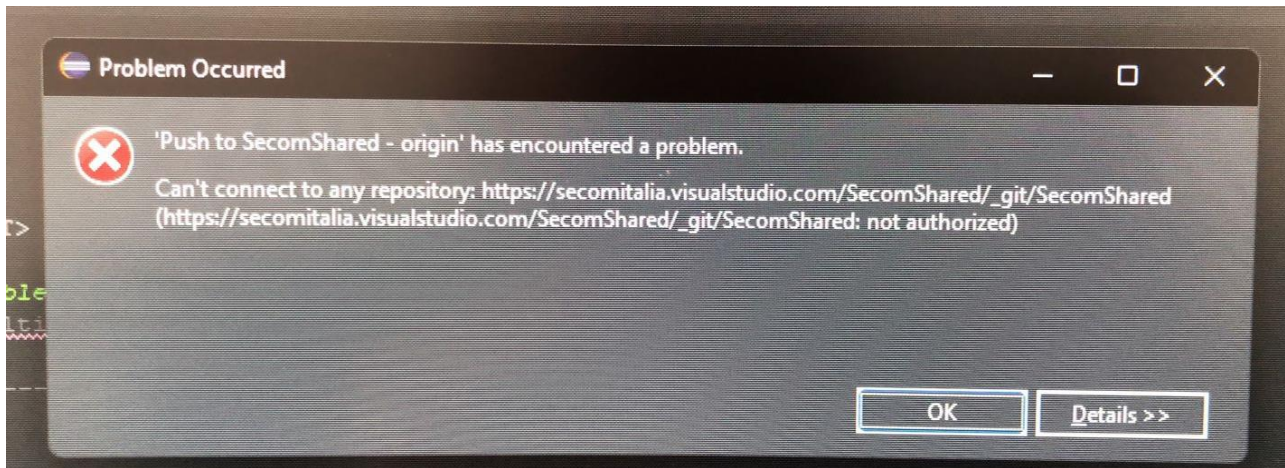
## 9) Commit operation after source changed

After modifying the software, do the same thing (WinlaseEvo> Right Click), choosing the Commit option instead. Put a comment as shown below, and click on Commit.



### 10.1) Error Can't connect to any repository

If, while synchronizing the sources (via commit / push / pull), you get the following error,



Then try to perform the following steps.

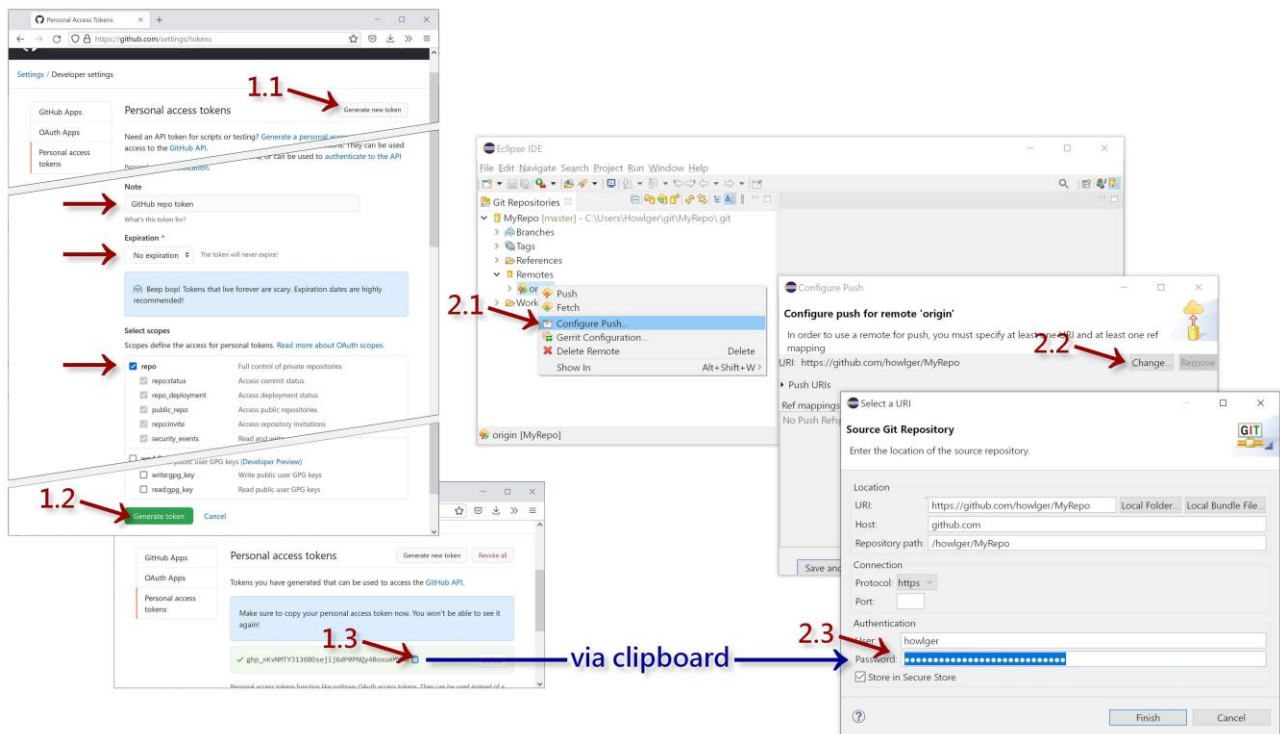
Consider that

Since August 13, 2021, GitHub does not support authentication via HTTPS with your GitHub account password for security reasons anymore. Instead, in Eclipse, when pushing to a GitHub repository or when fetching from a private repository, you will get a git-upload-pack not permitted on 'https://github.com...' error.

As solution, use either

- a GitHub specific **Personal access tokens** as password instead of your previously used GitHub account password or
- **SSH with an SSH key** of which the private and public key is on your local machine and configured in Eclipse and the public key is uploaded to your GitHub account instead.

## Personal access token (GitHub specific)

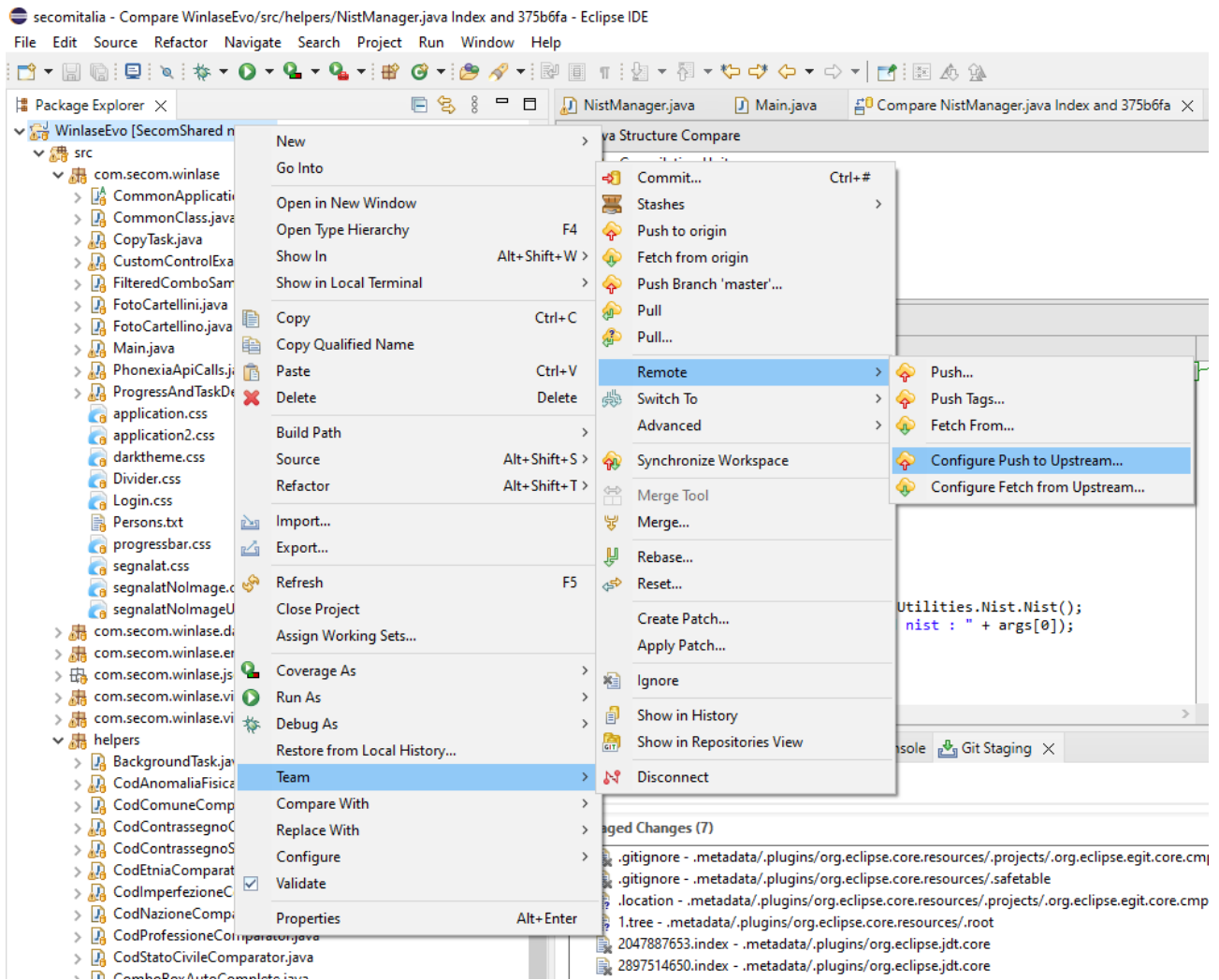


1. Go to [your GitHub account to Settings > Developer settings > Personal access tokens](#) website:
  1. Click the **Generate new token** button in the upper right
    - Enter a **Note**, e.g. GitHub repo token
    - Choose **Expiration**, e.g. **No expiration**
    - Tick the checkbox **repo**
  2. Click the **Generate token** button at the bottom
  3. **Copy** the generated token to the clipboard
2. In Eclipse, in the **Git Repositories** view:
  1. **Right-click** the **Remotes** sub-node for **GitHub** (origin or the name you have chosen when you have cloned the repository) and choose **Configure Push...**
  2. Click the **Change...** button to change the URI in the upper right
  3. **Replace the password** with the copied generated GitHub token
  4. Click **Finish** and **Save** to apply the changes

(extracted from the following article:


<https://stackoverflow.com/questions/68790276/pushing-from-eclipse-to-my-github-repository-via-https-stopped-working-git-rec/68802292#68802292>)

**10.2) After generating the new token, go to WinlaseEvo > Team > Remote > Configure push to Upstream...**



Click on “change”



 **Configure Push** — □ ×

**Configure push for remote 'origin'**

In order to use a remote for push, you must specify at least one URI and at least one ref mapping

Branch:

URI:  Change... Remove

► Push URIs


Ref mappings

No Push Refspec, will push currently checked out branch instead.

Add...  
Modify...  
Delete  
Copy  
Paste  
Advanced...


Save and Push Save Dry-Run Revert Cancel

Try to replace password with token

 **Select a URI** — □ ×

**Source Git Repository**

Enter the location of the source repository.



Location

URI:  Local Folder... Local Bundle File...

Host:

Repository path:

Connection

Protocol:  ▼

Port:

Authentication

User:

Password:

☒ Store in Secure Store

? Finish Cancel