

Umgebung:

JDK (Java Development kit): [Java Downloads | Oracle](#)

Matlab/Simulink

Git: [Git - Downloading Package \(git-scm.com\)](#)

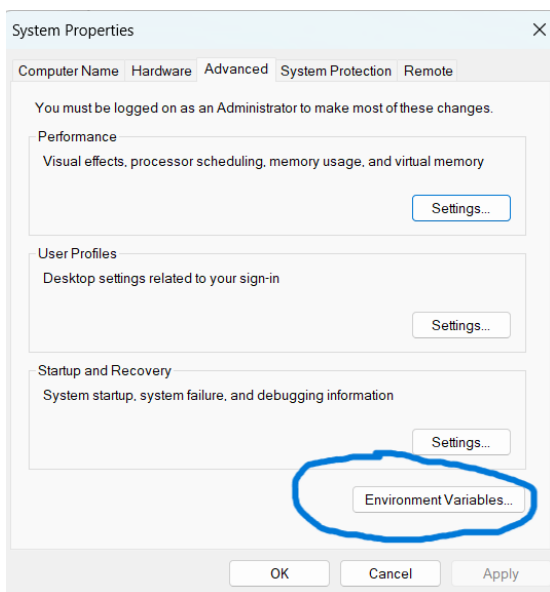
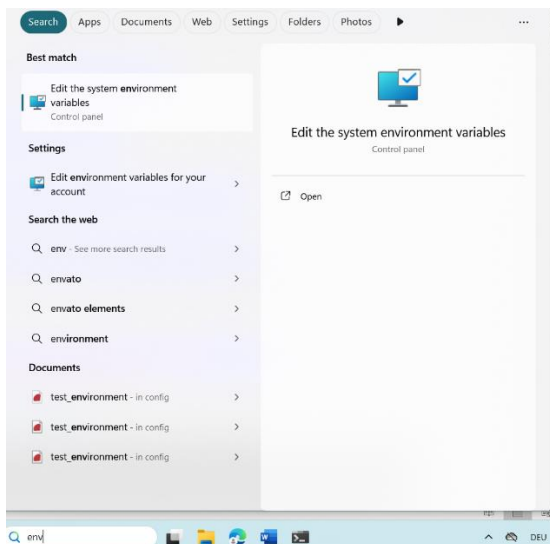
IDE:

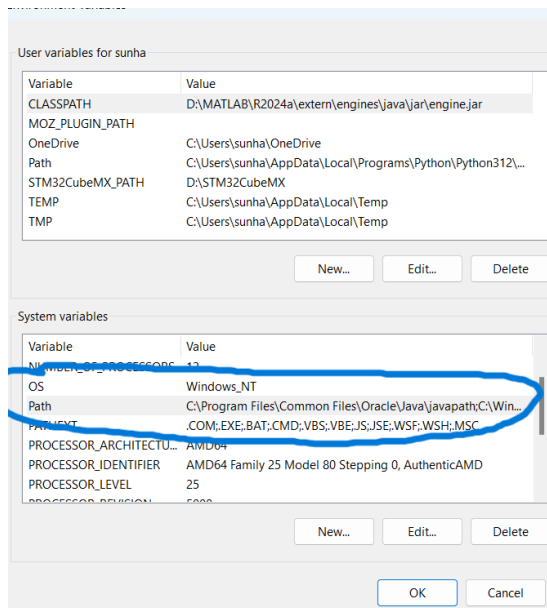
Eclipse for Java: [Eclipse IDE for Java Developers | Eclipse Packages](#)

Build Java Engine Programs:

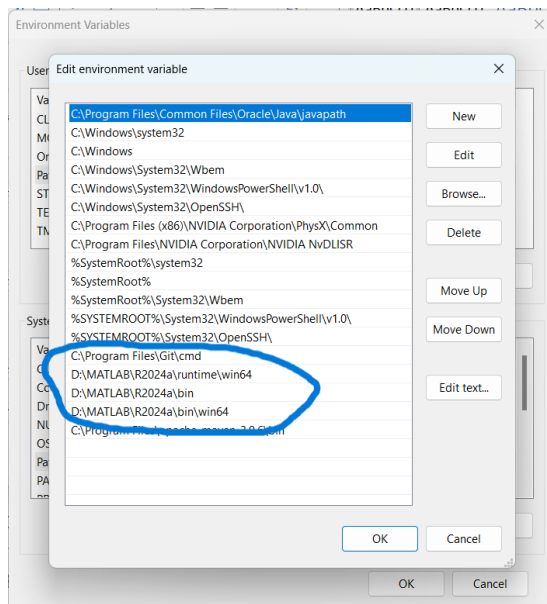
[Build Java Engine Programs - MATLAB & Simulink \(mathworks.com\)](#)

Add the folder matlabroot/bin/arch to your system environment variable





Folgende Path hinzufügen:



Tutorial Call Matlab from Java:

[Call MATLAB from Java - MATLAB & Simulink \(mathworks.com\)](https://www.mathworks.com/help/matlab/call-matlab-from-java-simulink.html)

Source Code:

Github Repository: [songxinrandiyi/preevisiontosimulink \(github.com\)](https://github.com/songxinrandiyi/preevisiontosimulink)

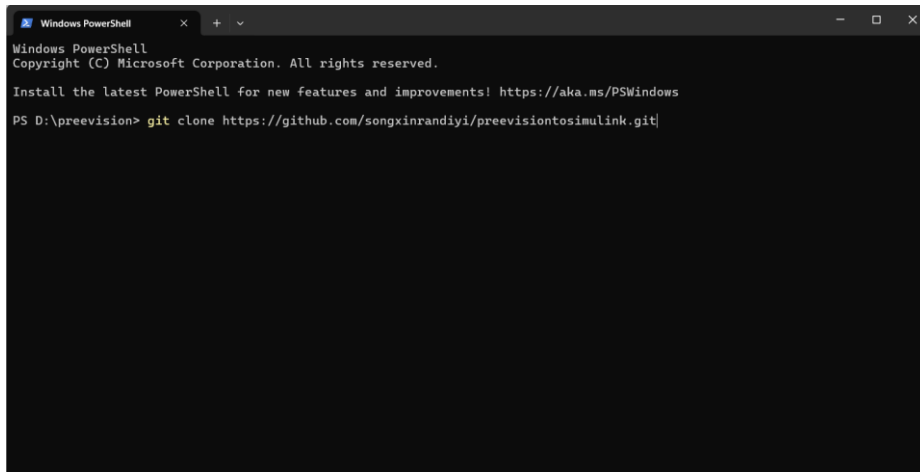
Auch in Sharepoint im Ordner Masterarbeit Sun

Import Source Code in Eclipse:

Create a folder as your workspace

Move to this folder and run:

git clone <https://github.com/songxinrandiyi/preevisiontosimulink.git>



```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

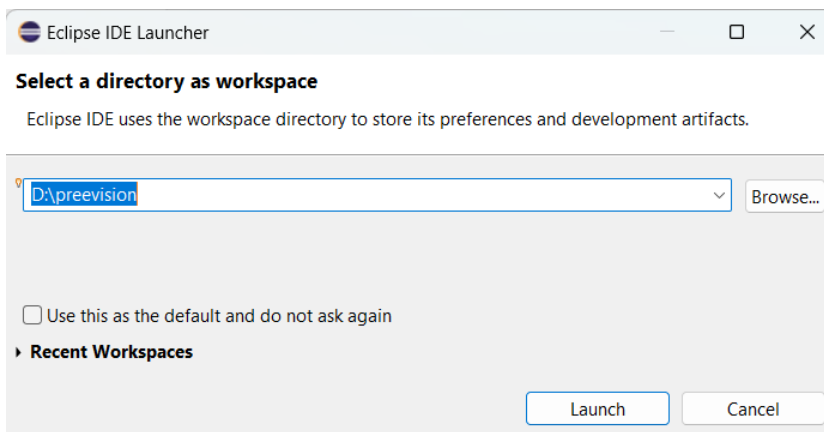
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS D:\preevision> git clone https://github.com/songxinrandiyi/preevisiontosimulink.git
```

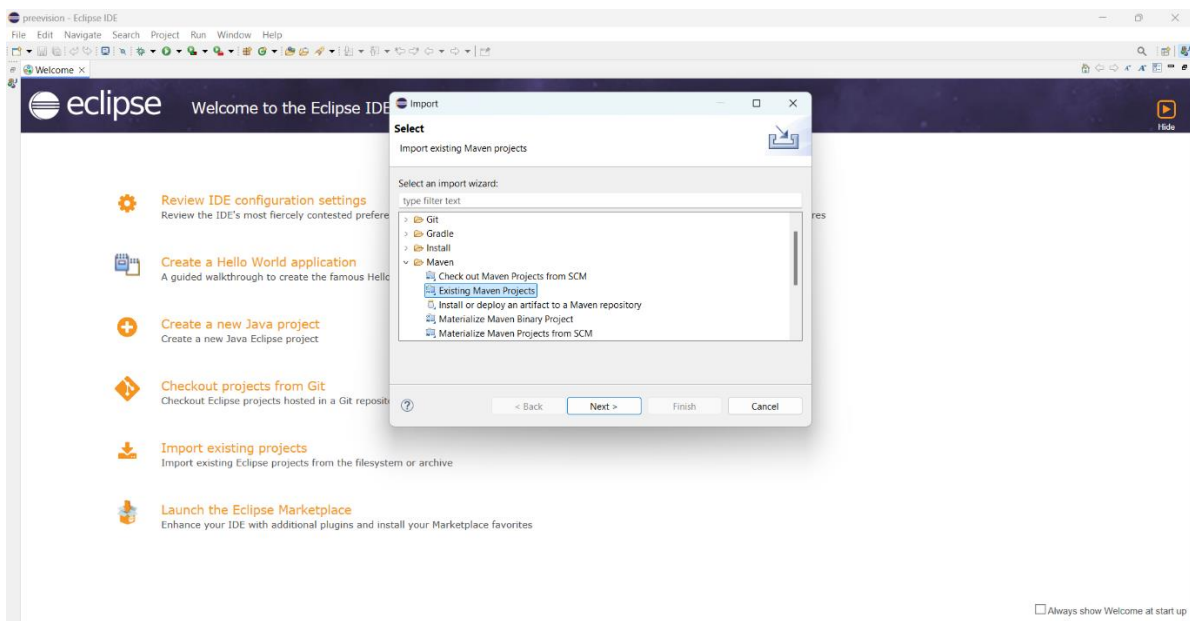
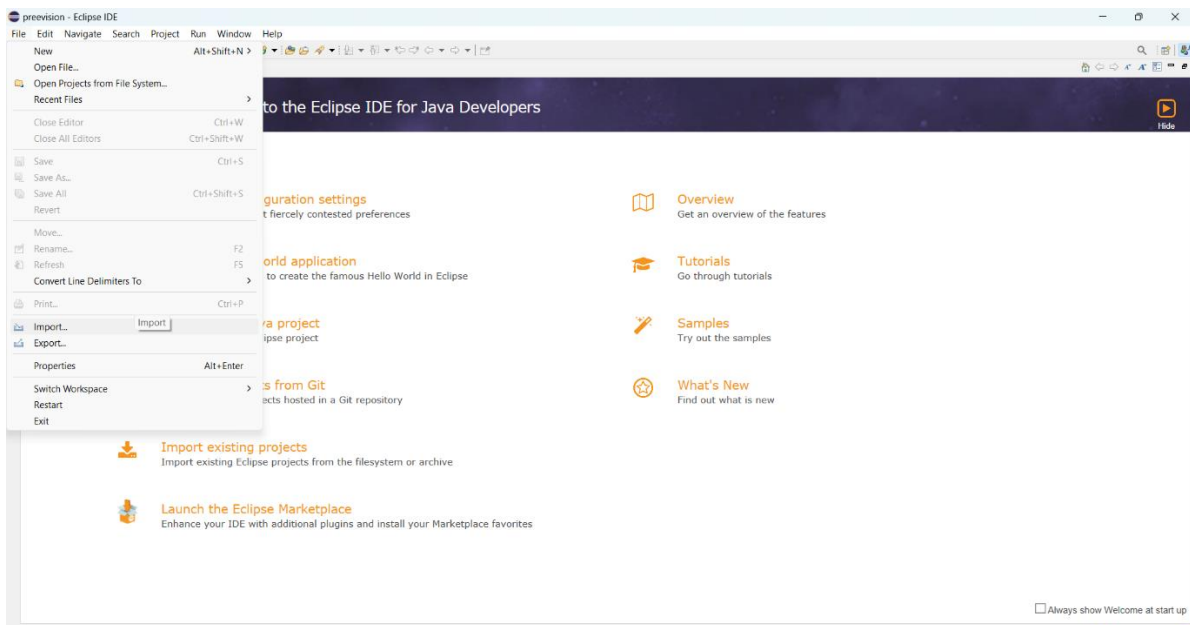
Hochladen der Quellcode in ein neues, eigenes Git-Repository (Optional):

1. In das Verzeichnis des geklonten Repos wechseln
2. Neues GitHub-Repository erstellen (Auf GitHub)
3. Altes Remote-Repository entfernen: `git remote remove origin`
4. Neues Remote-Repository hinzufügen: `git remote add origin https://github.com/dein-benutzername/neues-repo.git`
5. Code in das neue Repository pushen (Falls der Hauptbranch nicht main, sondern master oder etwas anderes heißt, passe den Befehl entsprechend an.): `git push -u origin main`

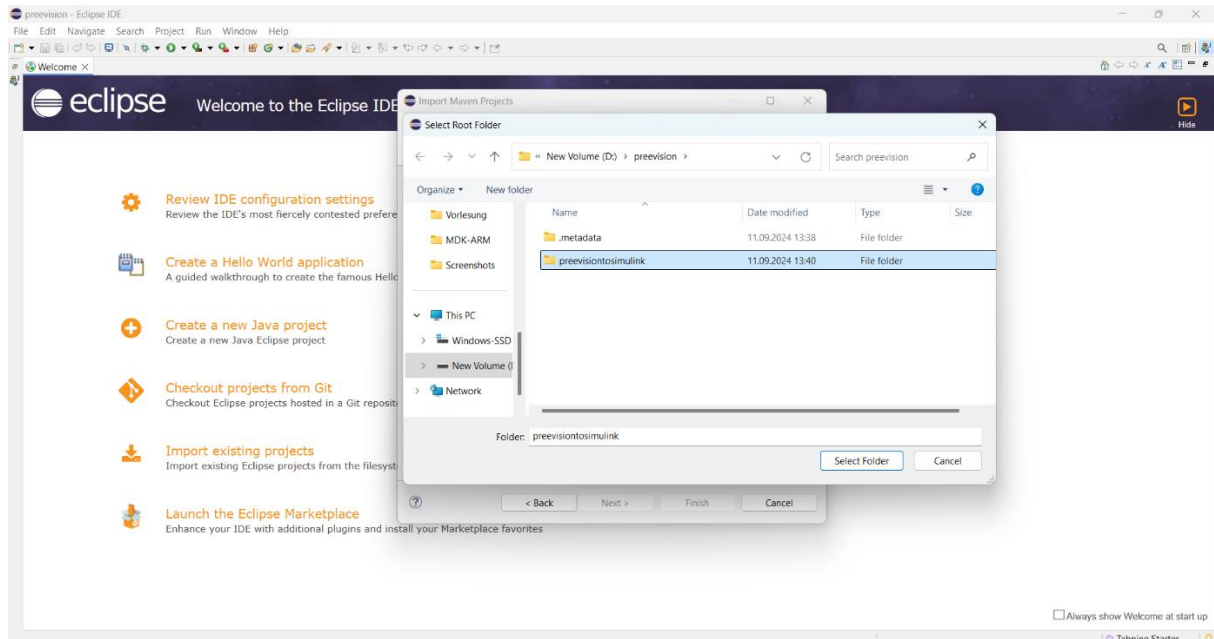
Open Eclipse and select the folder created before as workspace



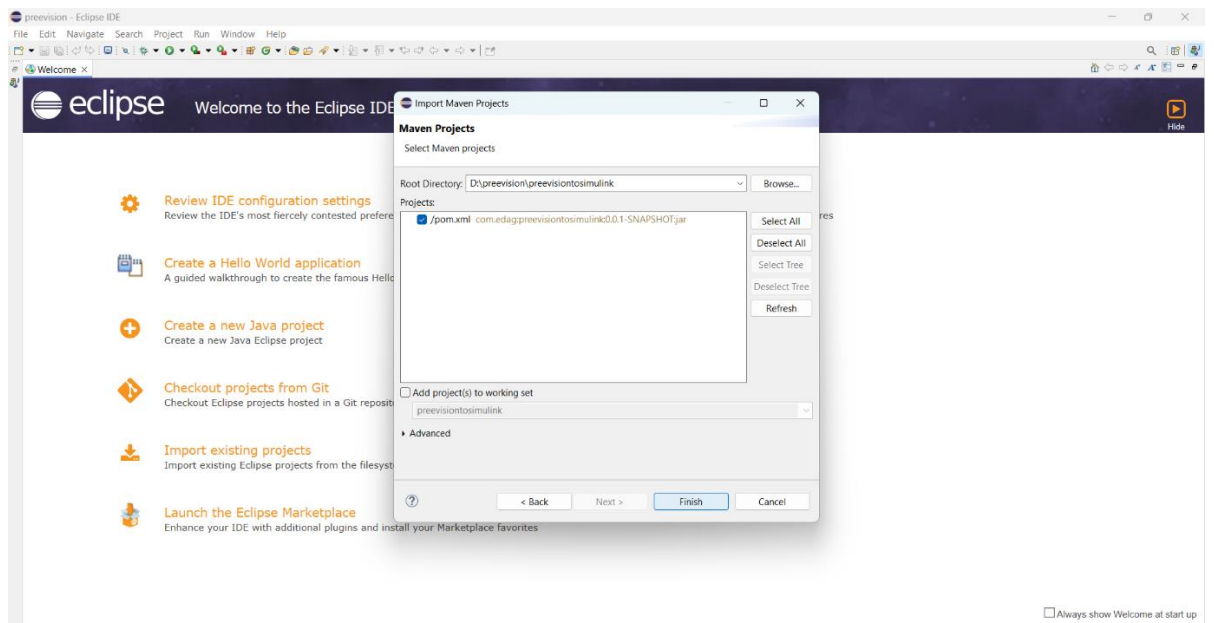
File->Import->Maven->Existing Maven Projects



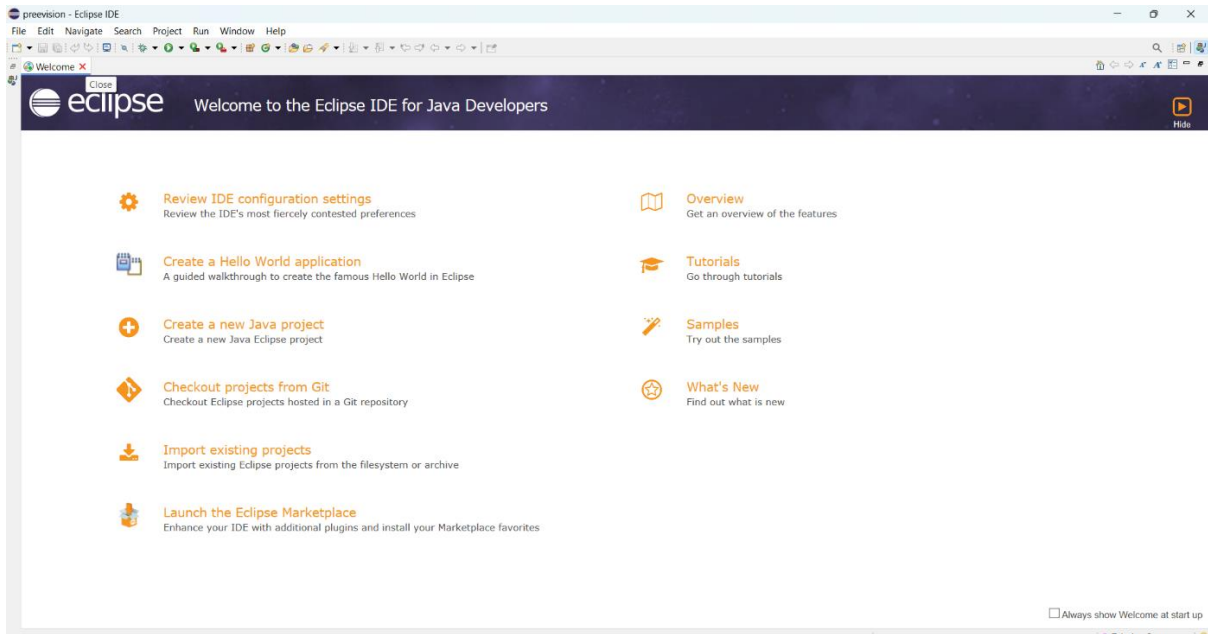
Select the folder cloned before:



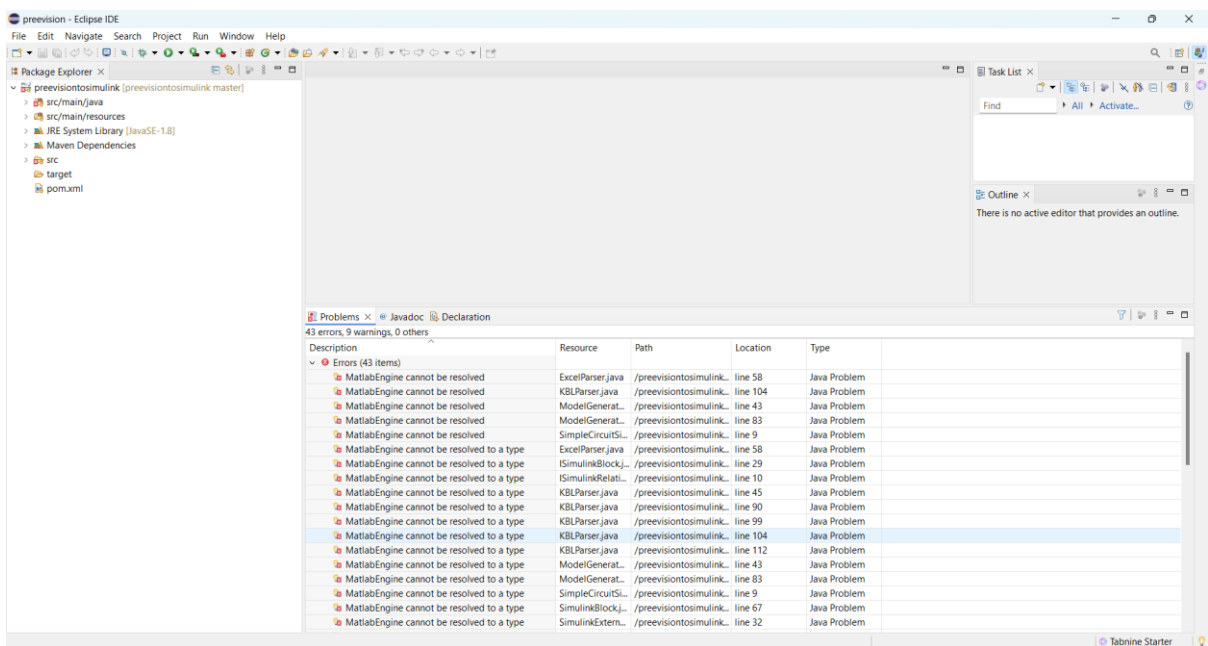
Click on finish:



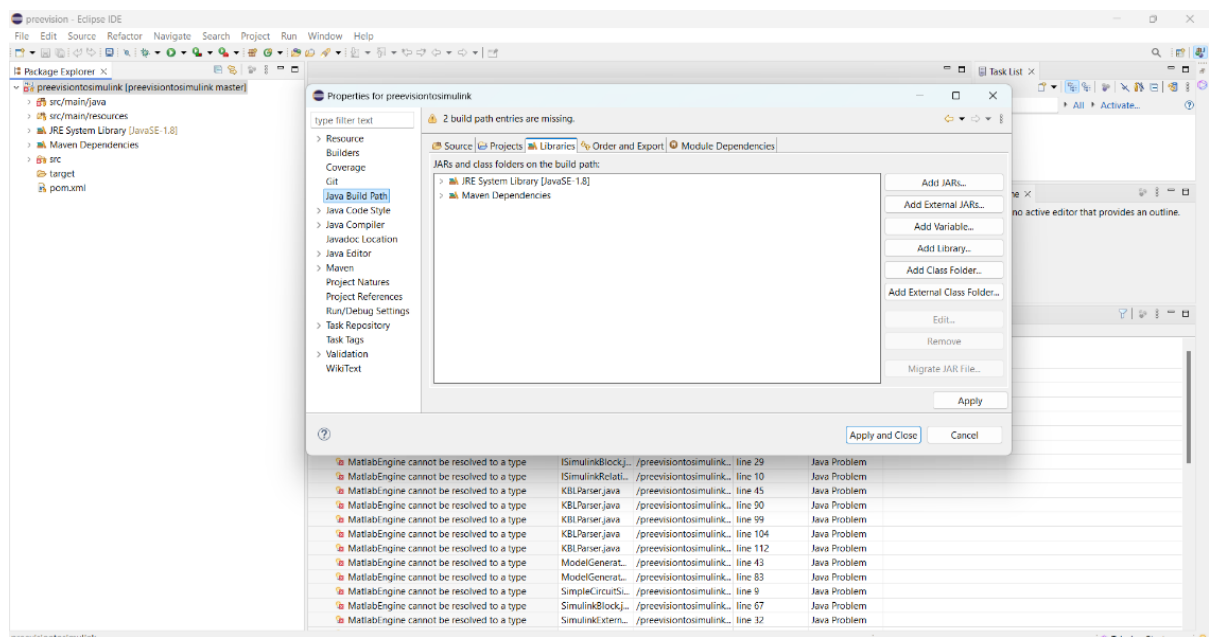
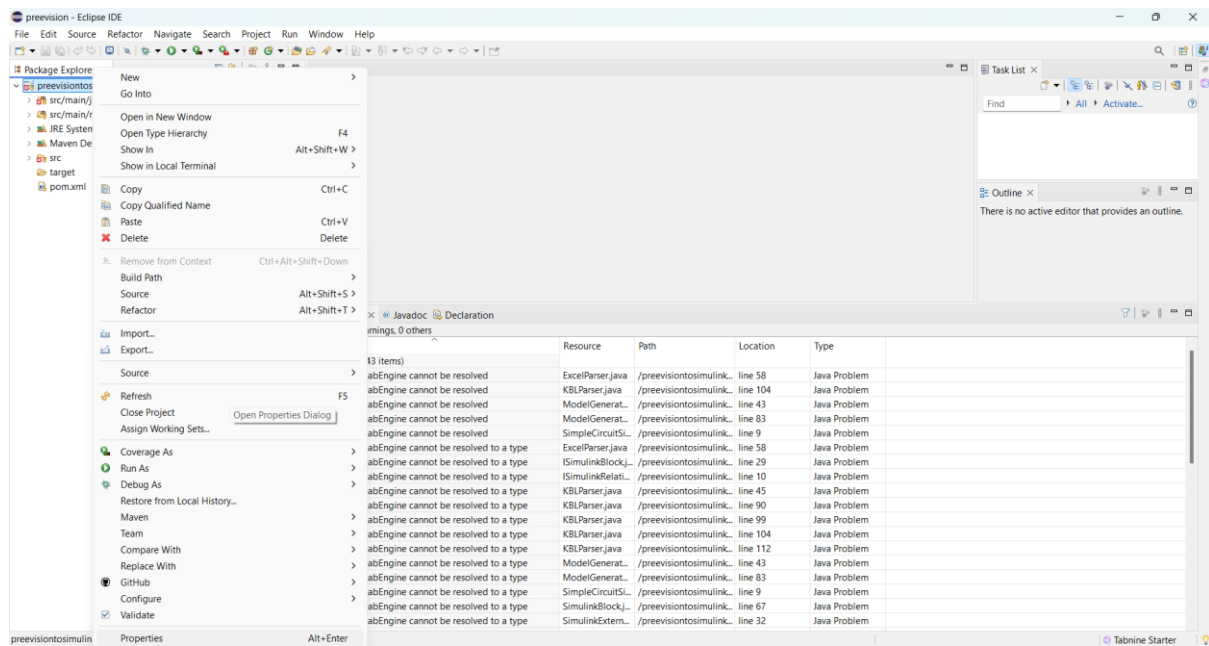
Close the welcome window:



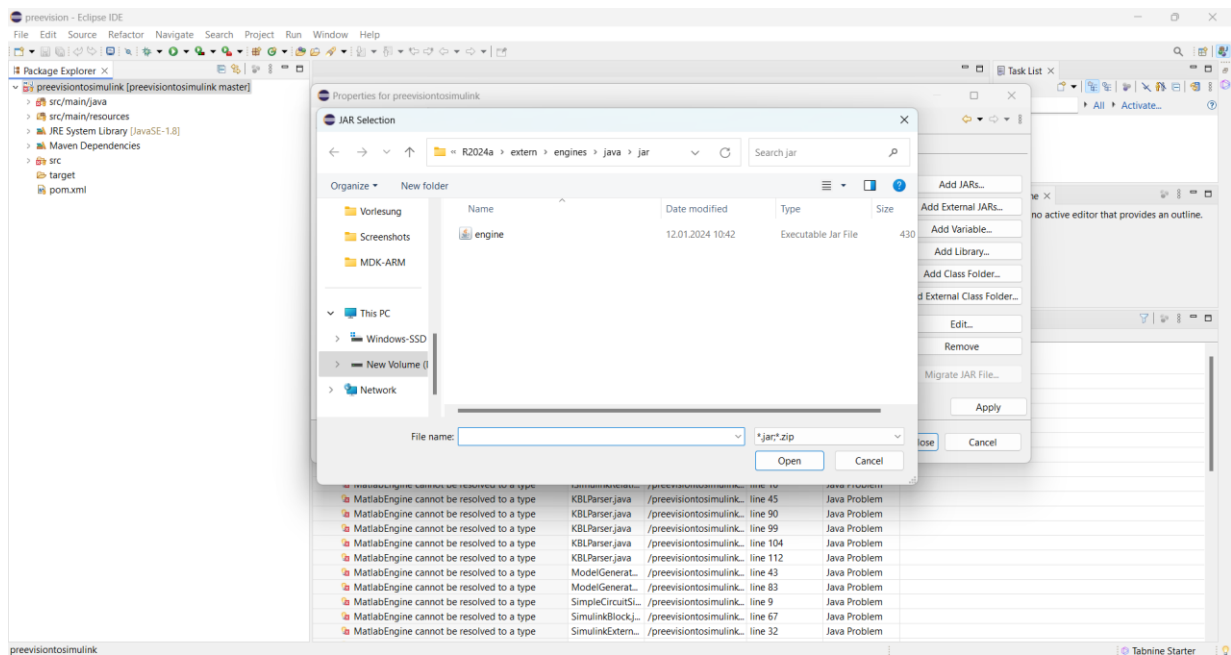
Project imported, but with error, because the engine.jar as dependency is not included in the build path yet:



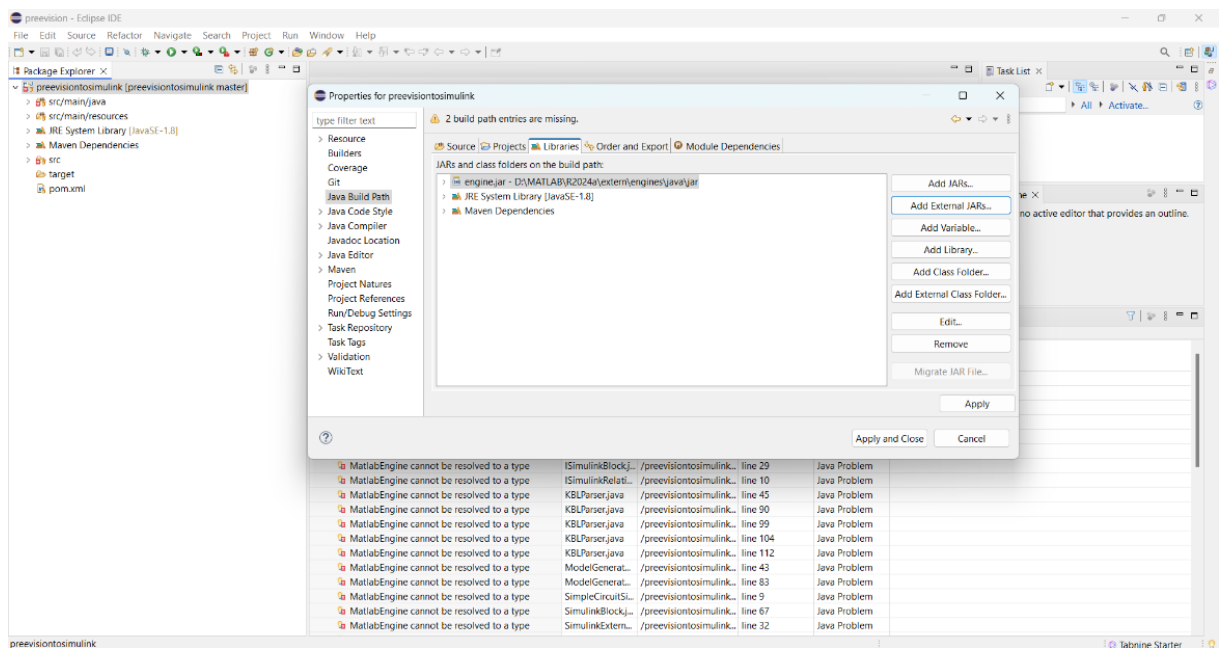
Right click on the project->Properties->Java Build Path->Libraries->Add External JARs



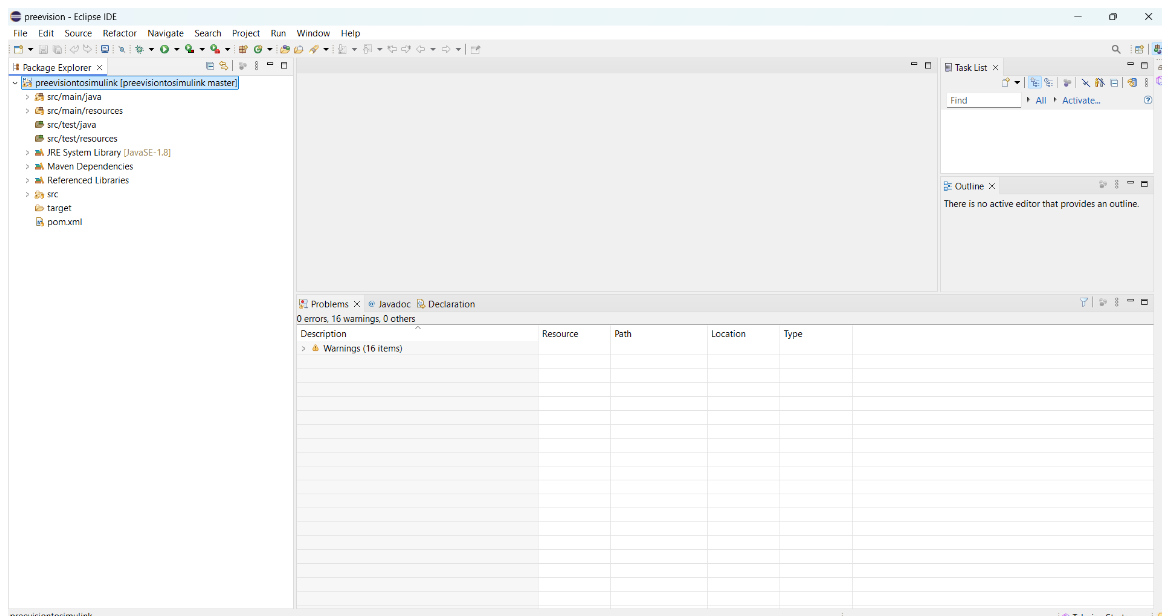
Select matlabroot/extern/engines/java/jar/engine.jar from folder:



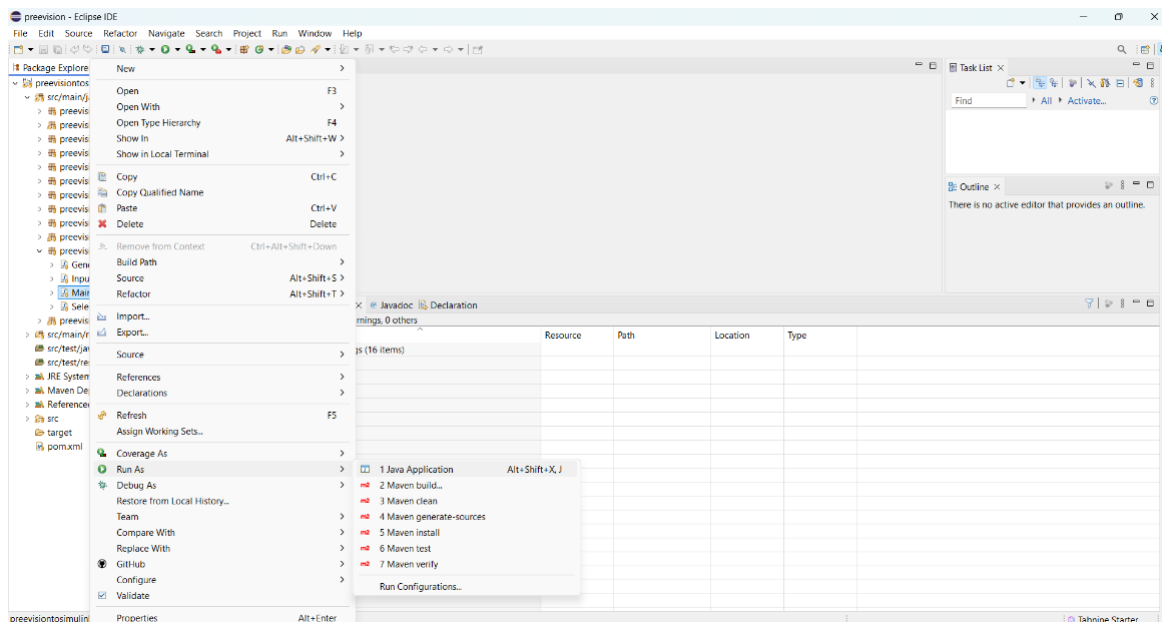
Apply and close:



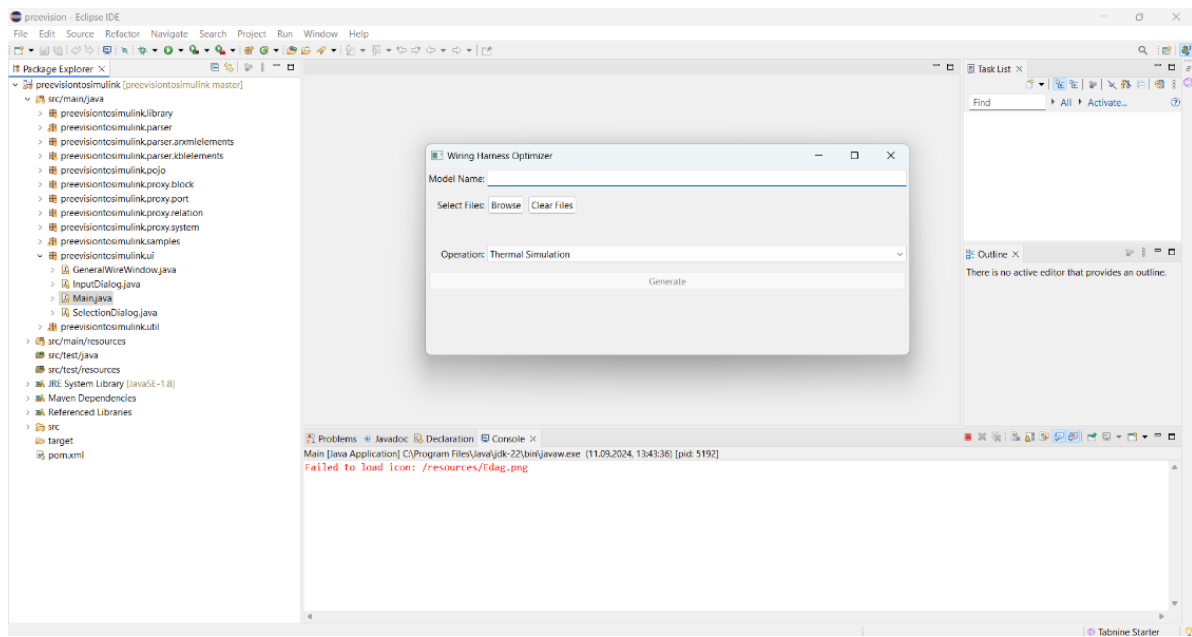
Dependency added:



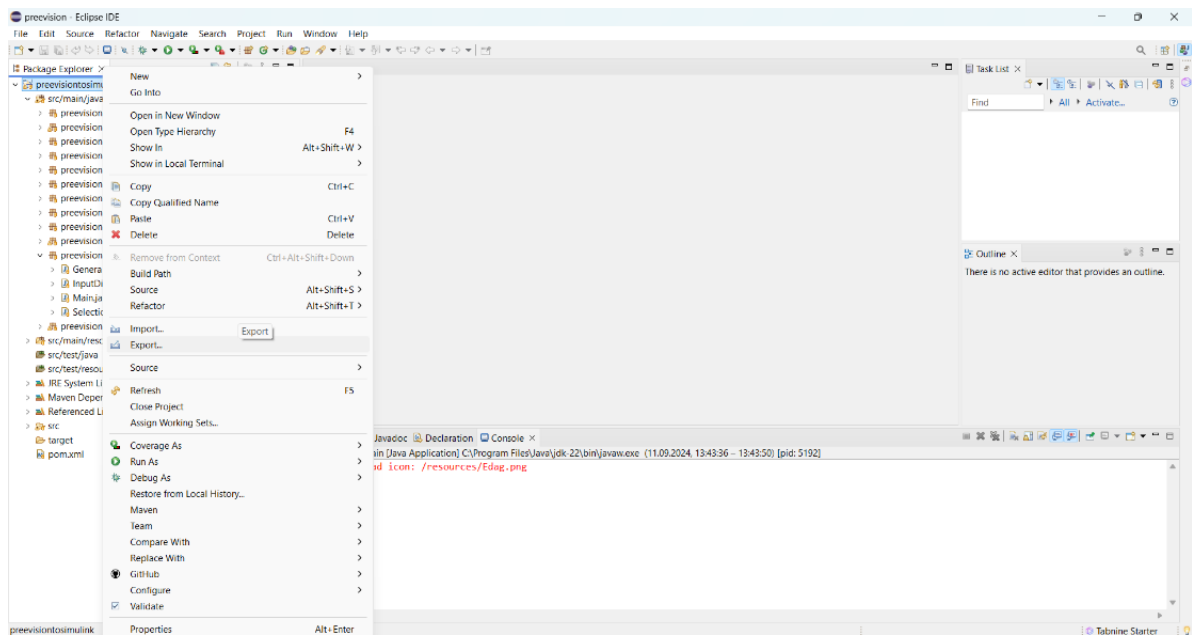
Find Main.java in ui folder->Right Click->Run as->Java Application:

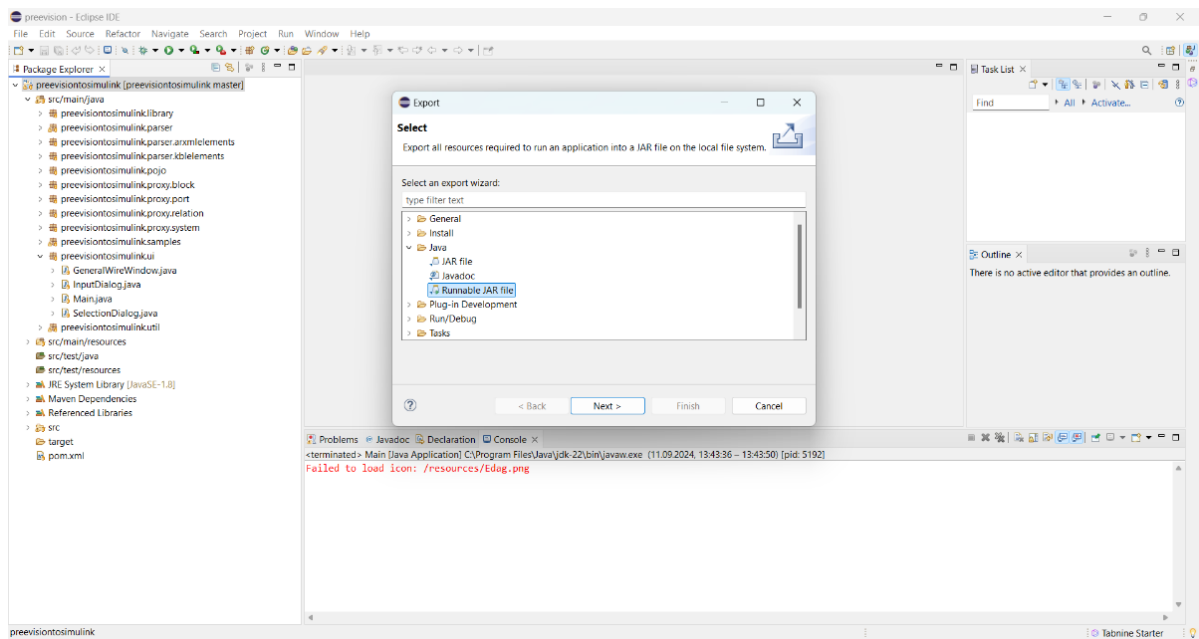


Main program started:

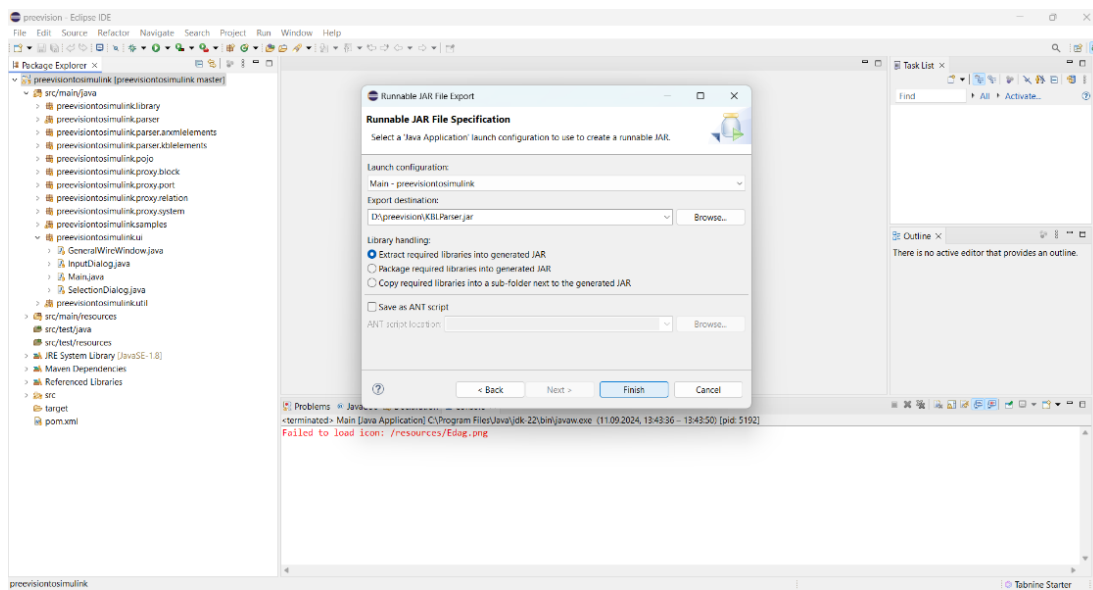


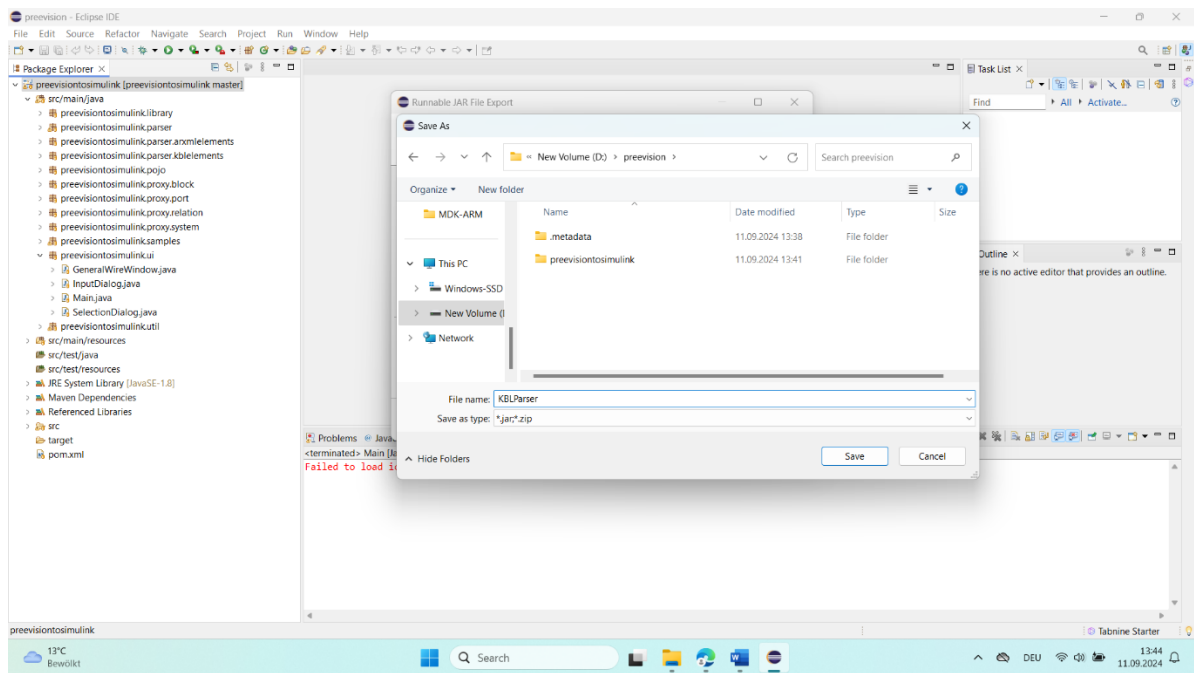
Right clicked on the project->Export->Java->Runnable JAR File



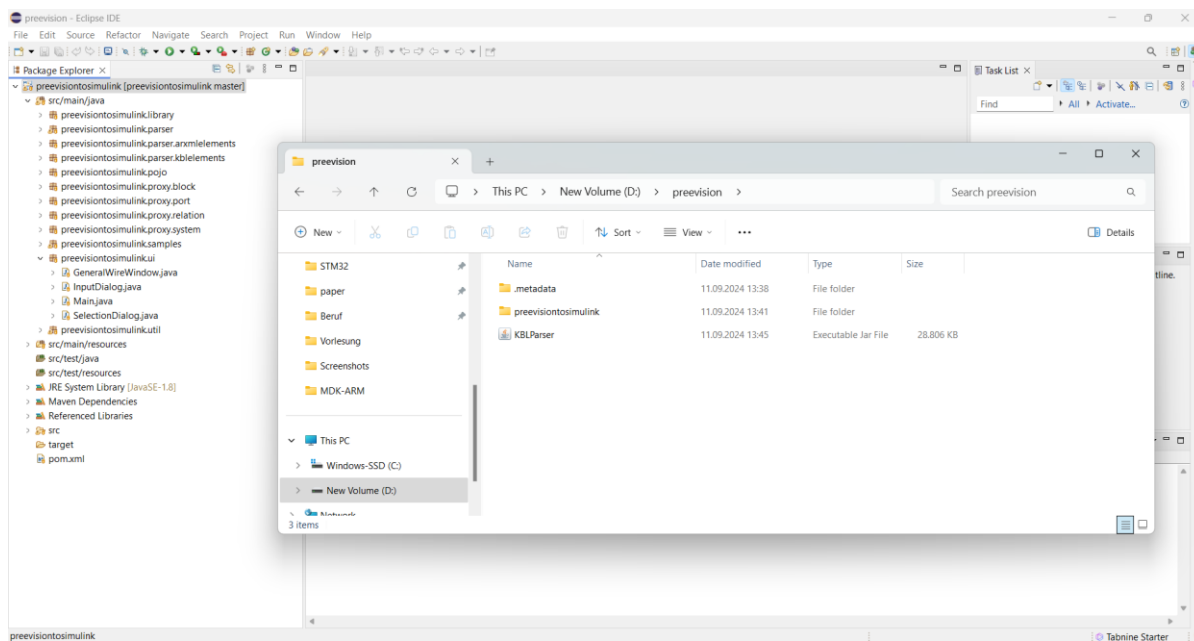


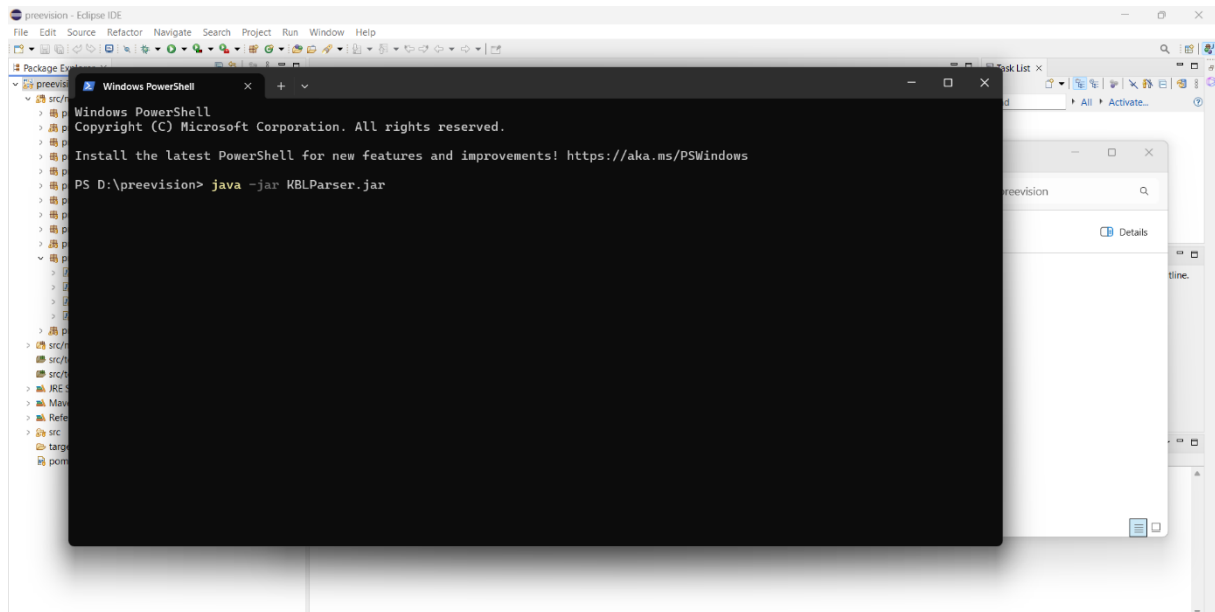
Select Main and chose export location





Jar package exported:





Important Website for development:

[Programmatic Model Editing - MATLAB & Simulink \(mathworks.com\)](https://www.mathworks.com/help/matlab/matlab_prog/programmatic-model-editing.html)

[Kabelbaum Liste \(KBL\) | ECAD WIKI \(prostep.org\)](https://www.prostep.org/wiki/KBL)

[Vehicle Electric Container \(VEC\) | ECAD WIKI \(prostep.org\)](https://www.prostep.org/wiki/VEC)

Happy Coding.