

Eclipse

1. Download and install Eclipse

Note: Before install eclipse, install java jre. If you have installed, the latest jdk (for example jdk 11 or jdk 12), you still need to install jre 8.

1. Download the Eclipse Installer

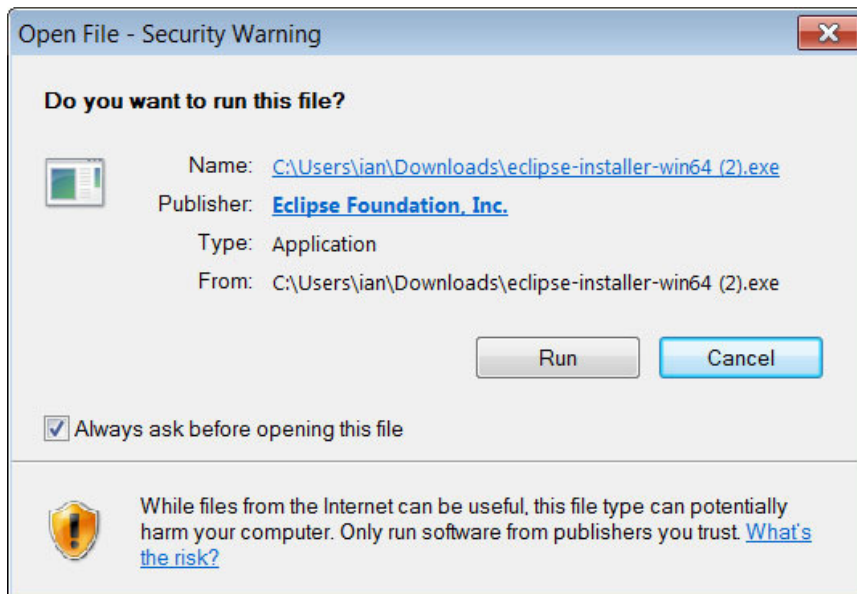
Download Eclipse Installer from <http://www.eclipse.org/downloads>

Eclipse is hosted on many mirrors around the world. Please select the one closest to you and start to download the Installer.

2. Start the Eclipse Installer executable

For Windows users, after the Eclipse Installer executable has finished downloading it should be available in your download directory. Start the Eclipse Installer executable. You may get a security warning to run this file. If the Eclipse Foundation is the Publisher, you are good to select Run.

For Mac and Linux users, you will still need to unzip the download to create the Installer. Start the Installer once it is available.



3. Select the package to install

The new Eclipse Installer shows the packages available to Eclipse users. You can search for the package you want to install or scroll through the list.

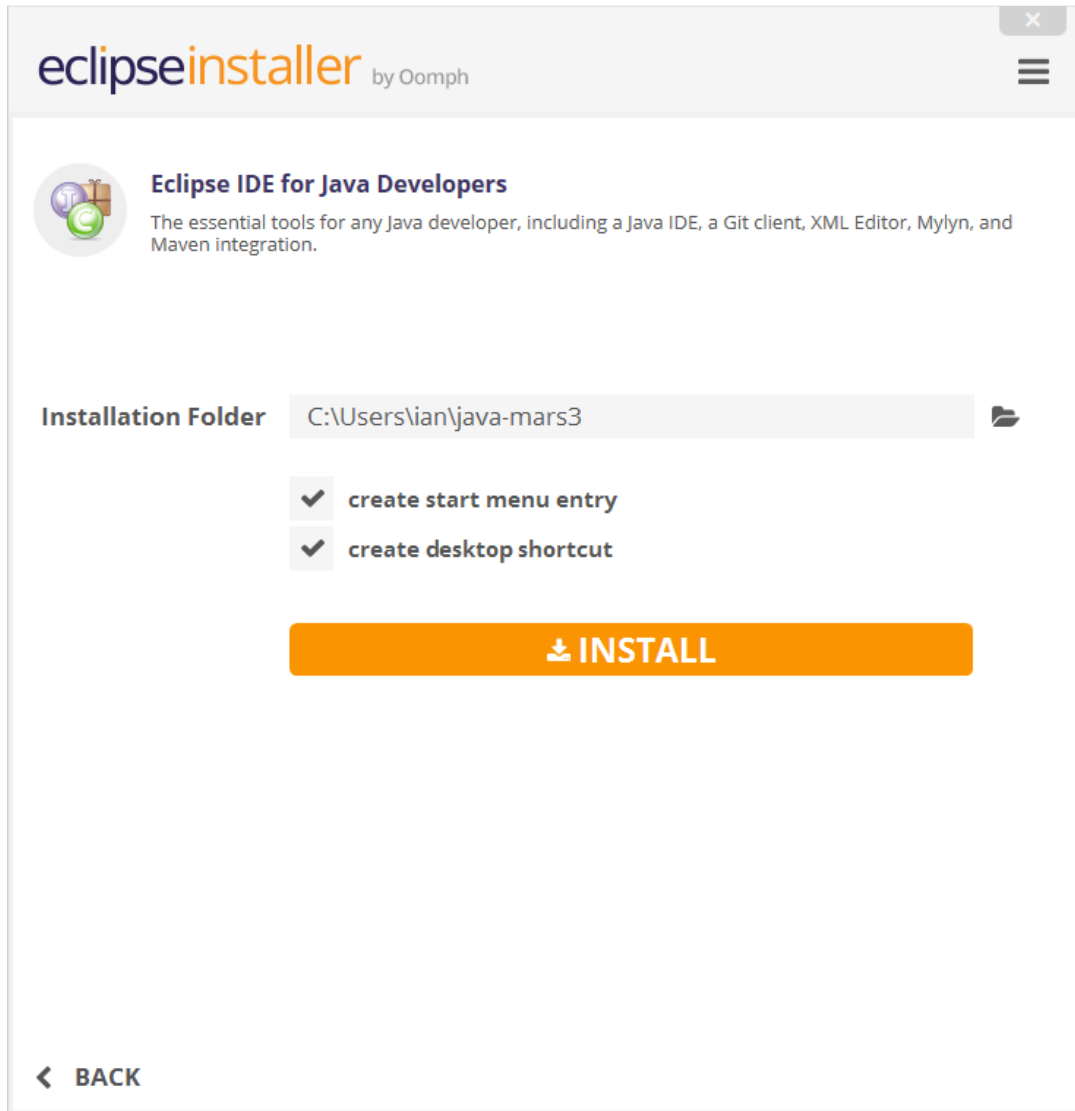
Select and click on the package you want to install.



4. Select your installation folder

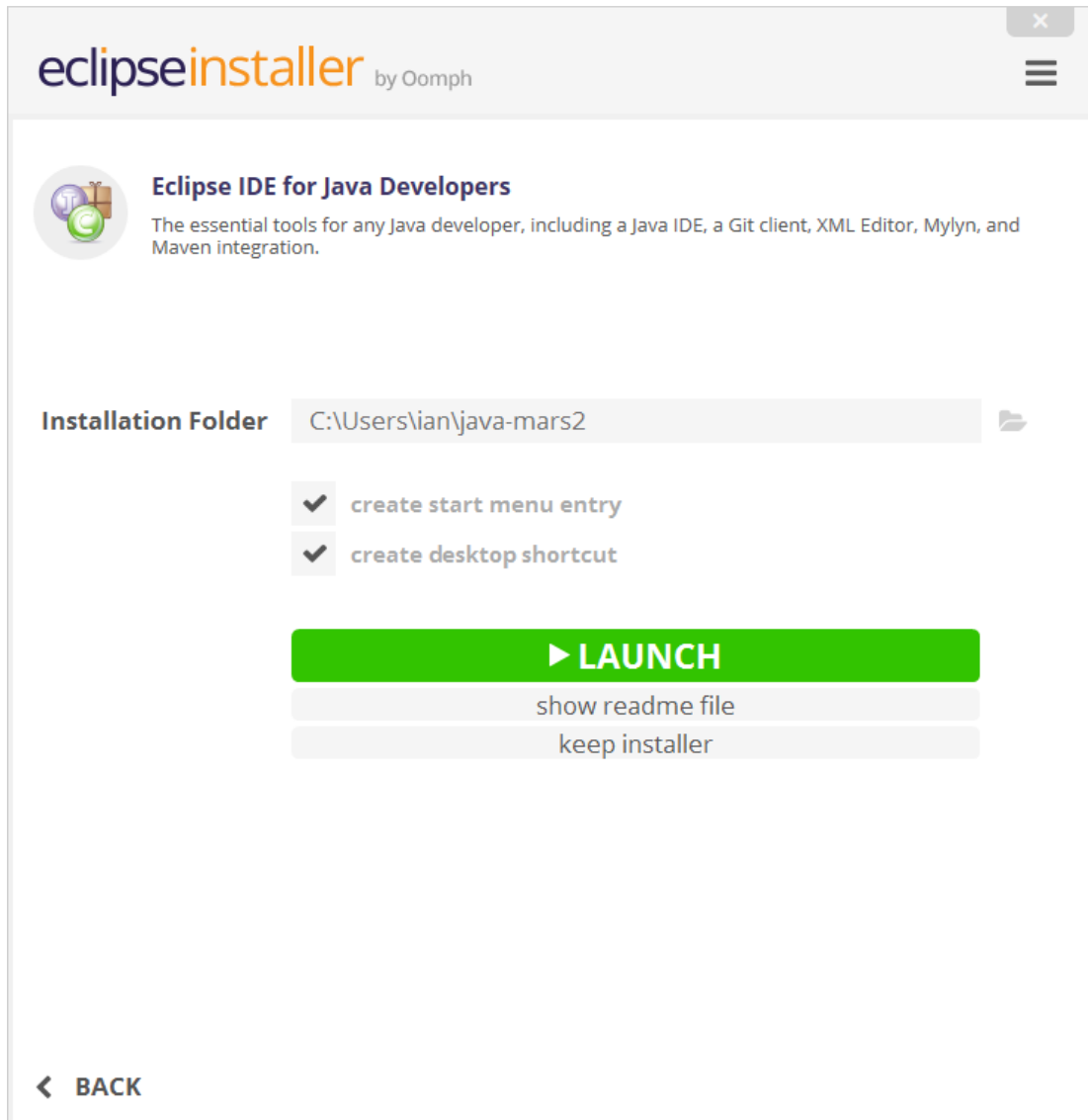
Specify the folder where you want Eclipse to be installed. The default folder will be in your User directory.

Select the 'Install' button to begin the installation.



5. Launch Eclipse

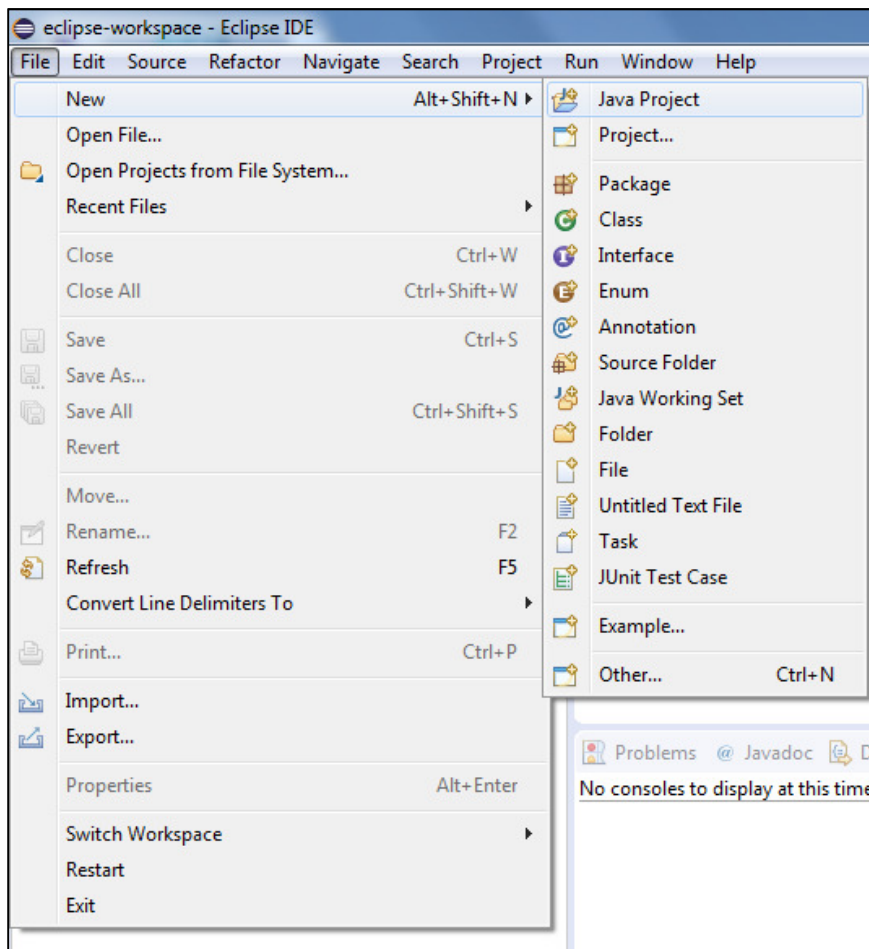
Once the installation is complete you can now launch Eclipse.



2. Create new java project

Note: In the lab session, we will be using eclipse neon version. After start eclipse, rename the workspace.


1. Create new Java Project

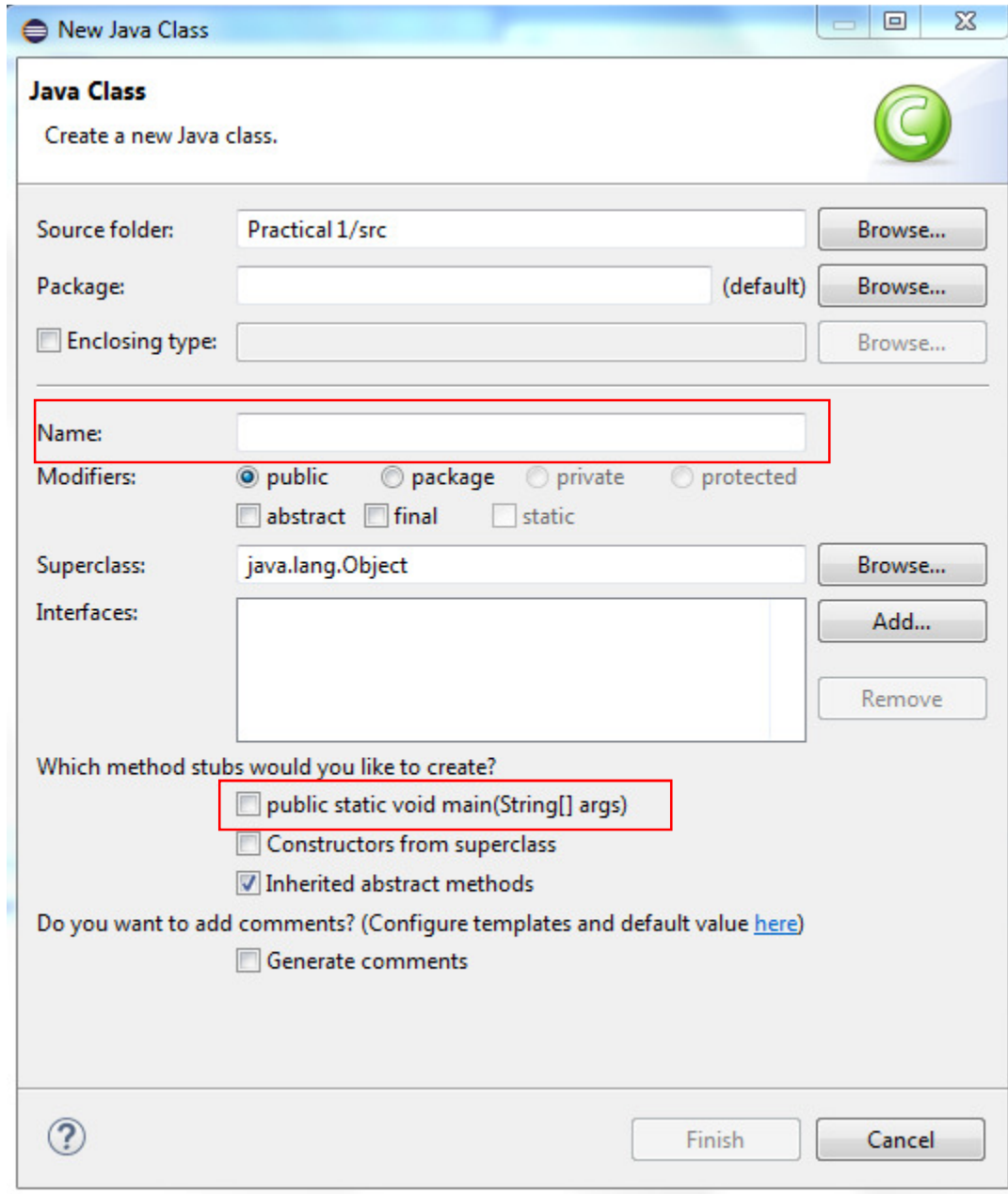


2. Enter project name (leave other settings as default) and click 'Finish'

The screenshot shows the 'New Java Project' dialog box in the Eclipse IDE. The title bar reads 'New Java Project'. The main heading is 'Create a Java Project' with a sub-instruction 'Enter a project name.' and a folder icon. The 'Project name:' field is empty. The 'Use default location' checkbox is checked, and the 'Location:' field shows 'C:\Users\...eclipse-workspace' with a 'Browse...' button. The 'JRE' section has three radio buttons: 'Use an execution environment JRE:' (selected) with a dropdown showing 'JavaSE-1.8', 'Use a project specific JRE:' with a dropdown showing 'jre1.8.0_211', and 'Use default JRE (currently 'jre1.8.0_211')' with a 'Configure JREs...' link. The 'Project layout' section has two radio buttons: 'Use project folder as root for sources and class files' and 'Create separate folders for sources and class files' (selected) with a 'Configure default...' link. The 'Working sets' section has an unchecked 'Add project to working sets' checkbox, a 'New...' button, and a 'Working sets:' dropdown with a 'Select...' button. At the bottom are buttons for '< Back', 'Next >', 'Finish', and 'Cancel'.

3. Create a class file

Right-click on the project > New > Class (also can click the  button to create class file)



New Java Class

Create a new Java class.

Source folder: Practical 1/src Browse...

Package: (default) Browse...

☐ Enclosing type: Browse...

Name:

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

Superclass: java.lang.Object Browse...

Interfaces: Add...
Remove

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](#))

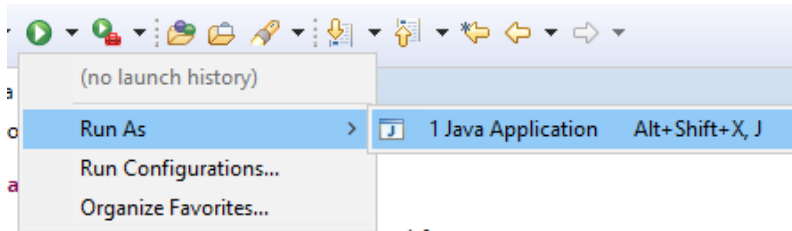
☐ Generate comments

? Finish Cancel

Enter class name, select 'public', tick 'public static void main(String[] args)', leave other as default, click 'Finish'.

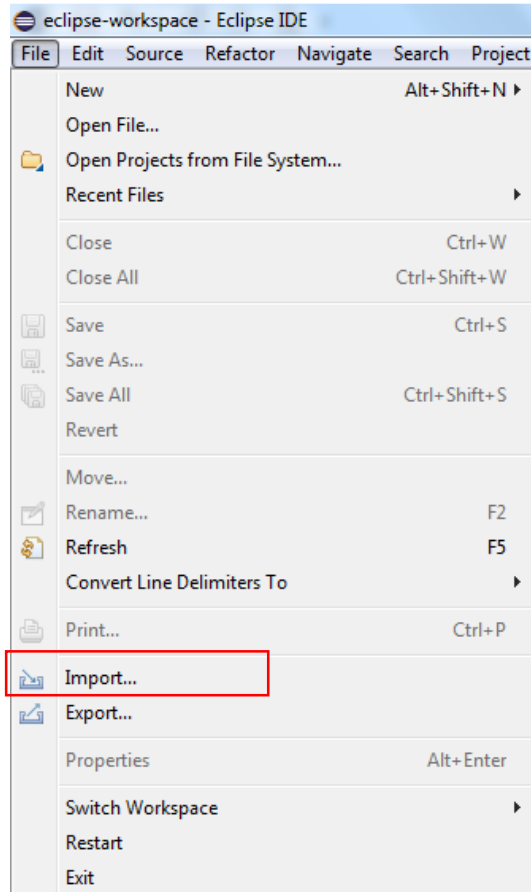
4. Run java application

To run the application, click the  next to the run button . Choose Run As > Java Application from the menu.

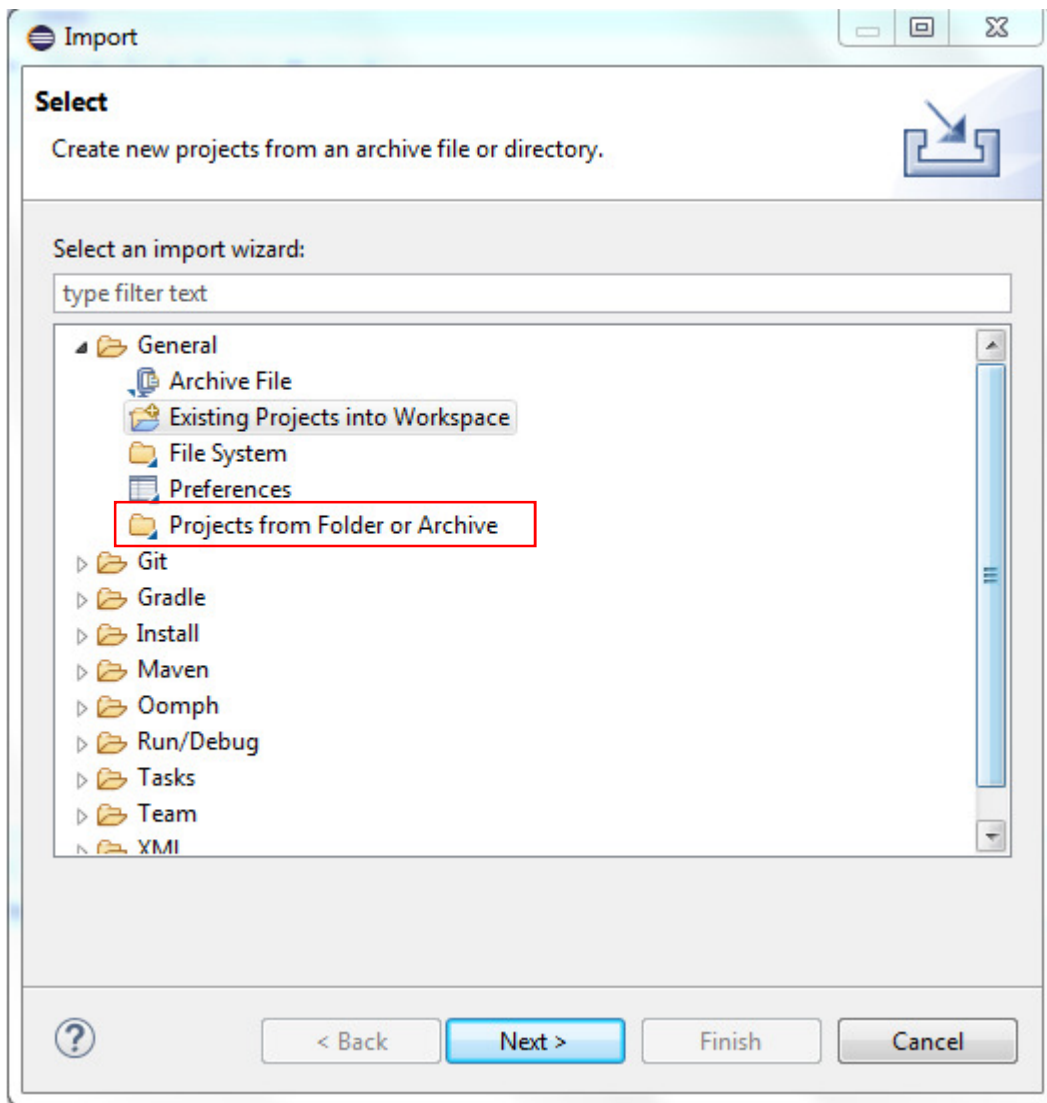


3. Import existing project into eclipse

1. File > Import



2. Select General > Projects from Folder or Archive > Next



3. Select the existing project folder > Finish

