SETTING UP WORKSPACE FOR JAVA DEVELOPERS
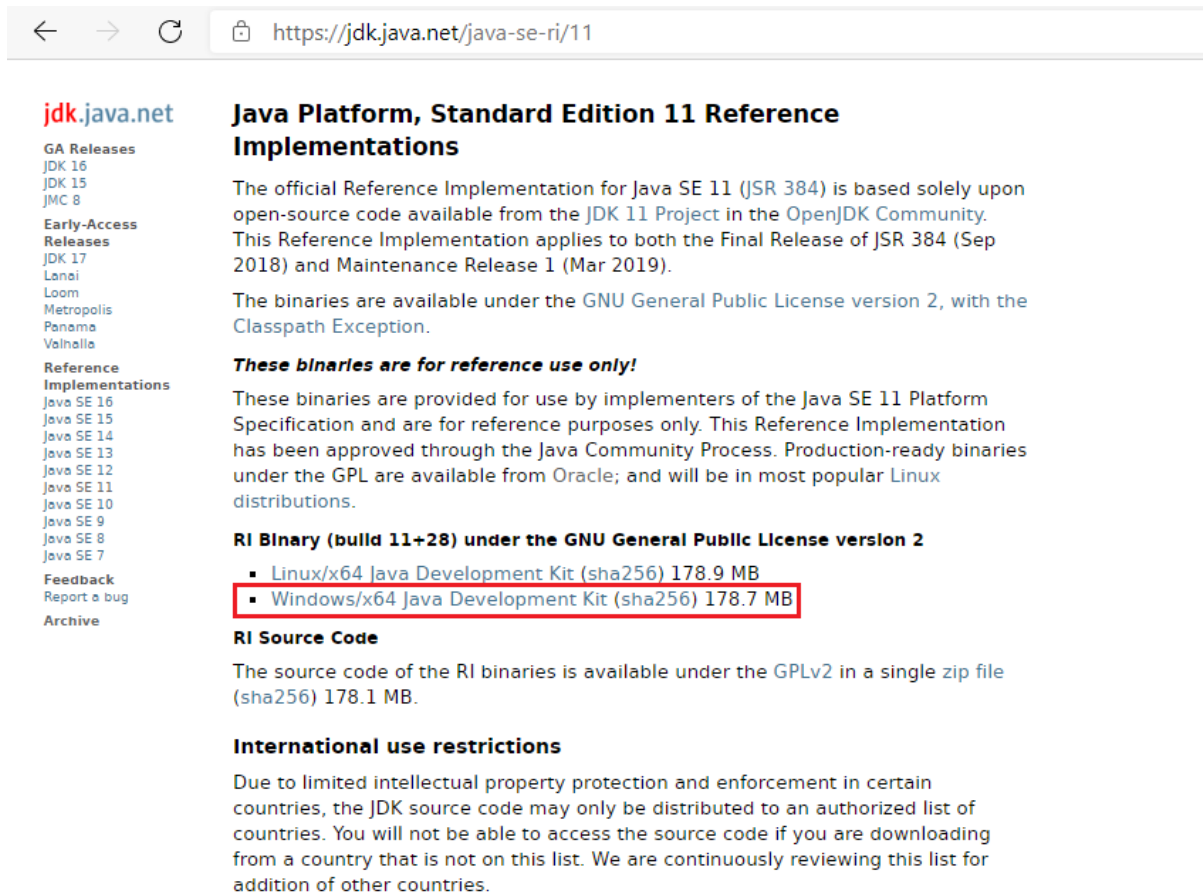
Table of Contents

SETTING UP JAVA

Go to page - https://jdk.java.net/java-se-ri/11

Below page will come up. Click on the link highlighted in red border in below screenshot.

Once you click this, a zip file will download. Unzip the downloaded file. It will result in a subfolder folder called jdk-11

Cut this folder and **paste** it under "C:\Program Files\Java". If Java folder does not exist, please create Java folder under "C:\Program Files" before pasting the jdk-11 folder

Go to environment variables. If you do not know how to do so, just click on windows icon on your laptop, type environment, and the top option will come up as shown in the screenshot below.
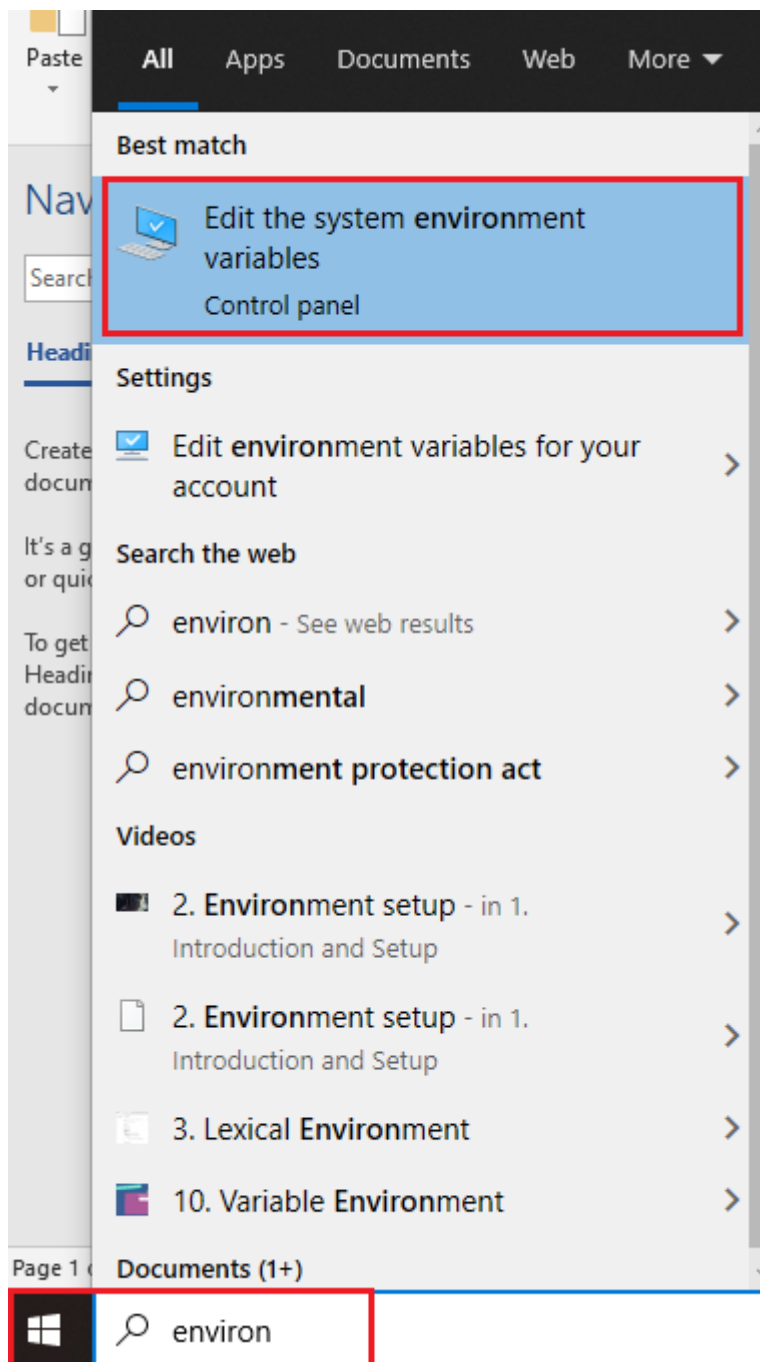
Below screen will open. Click on Environment Variable in as shown in below screenshot
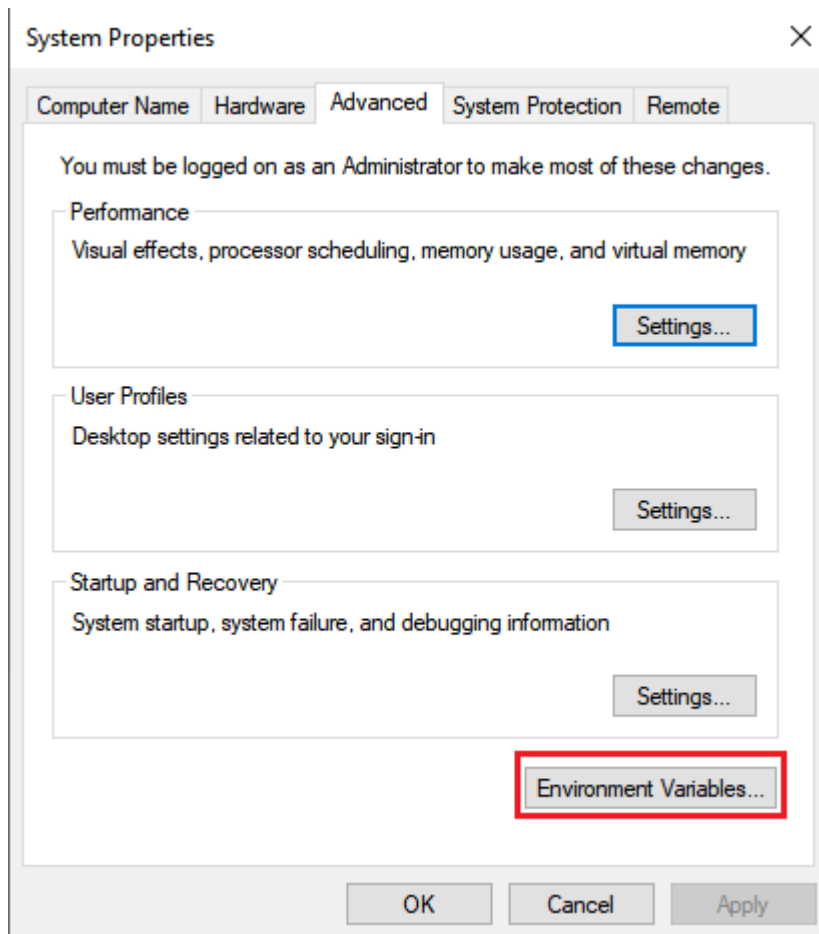
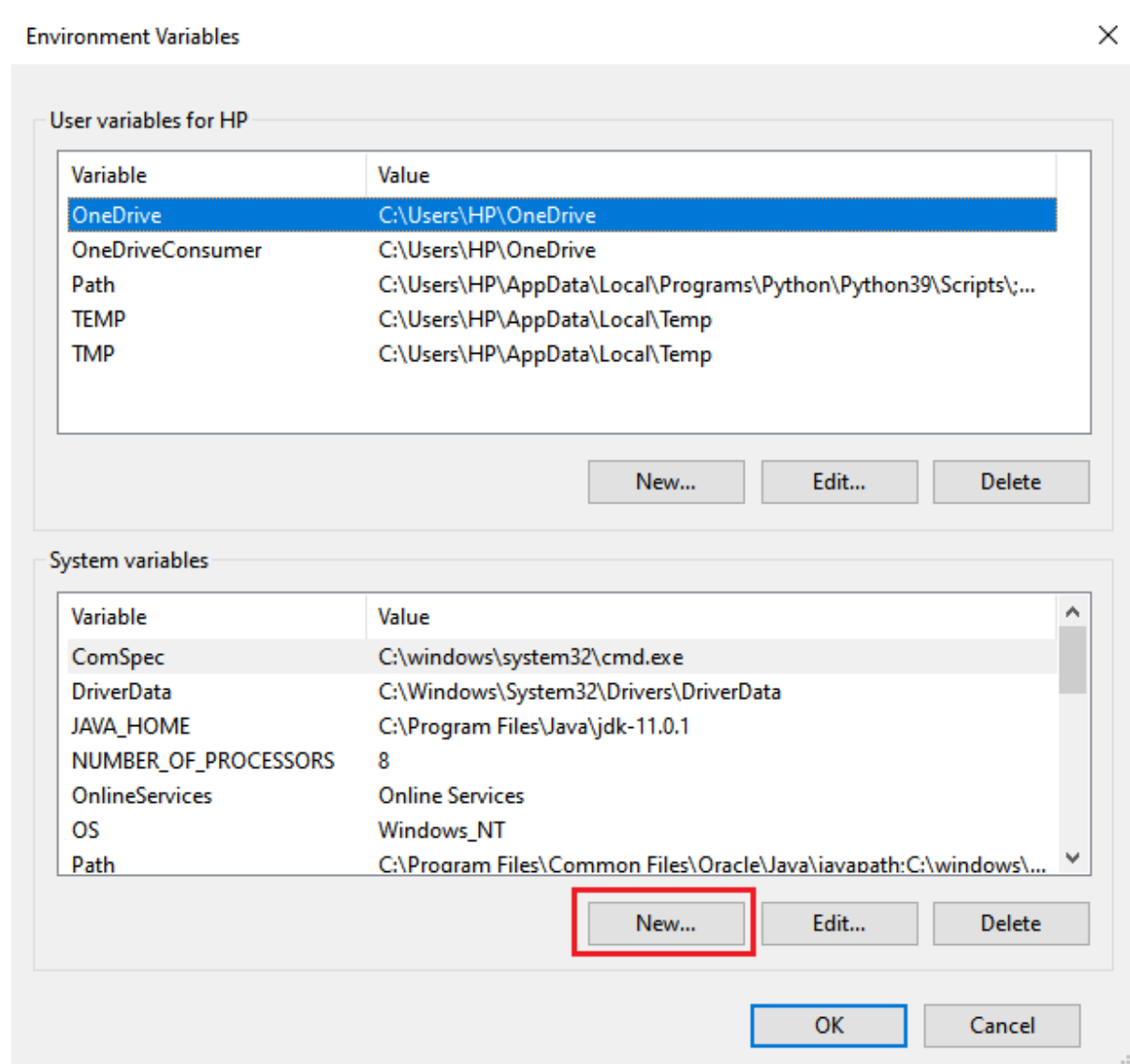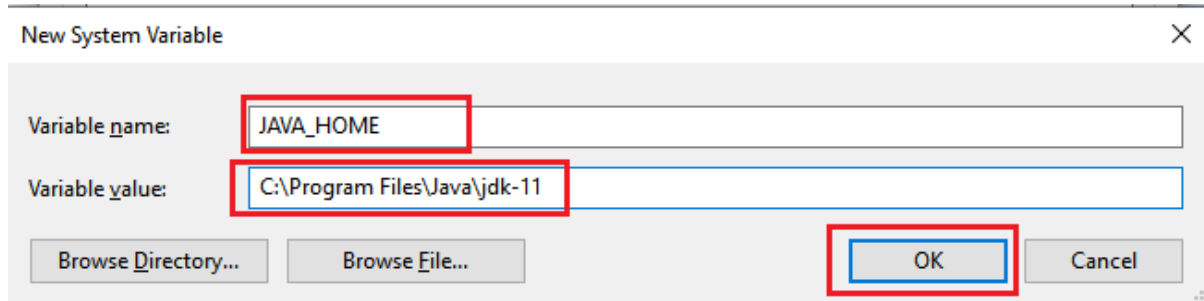The below screen will come up. Click on the "New" button as shown below. Remember to click "New" button under the "System Variables" section as shown below.
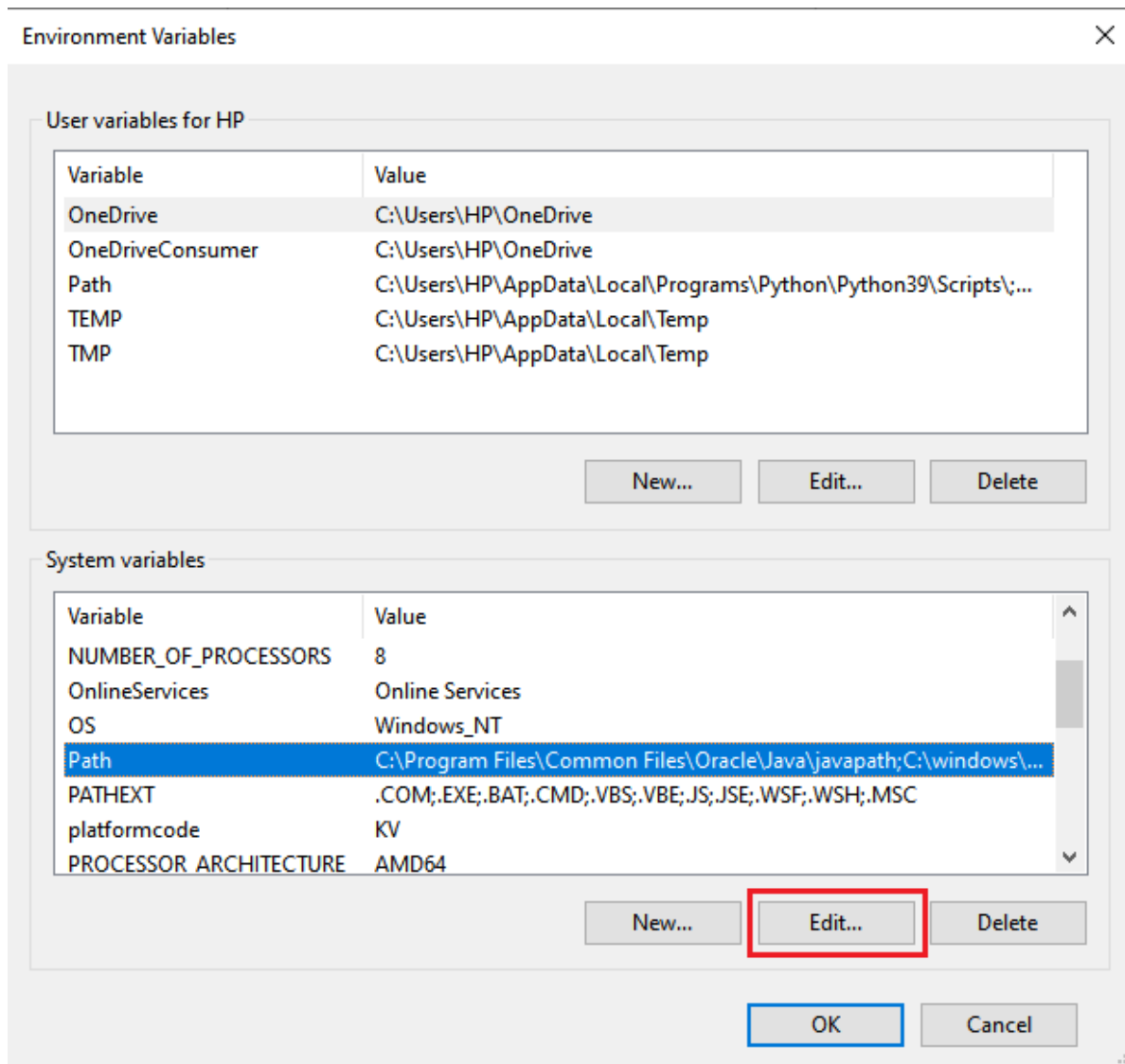
In the "New System Variable" window, put JAVA_HOME in Variable name and C:\Program Files\Java\jdk-11 under Variable Value.
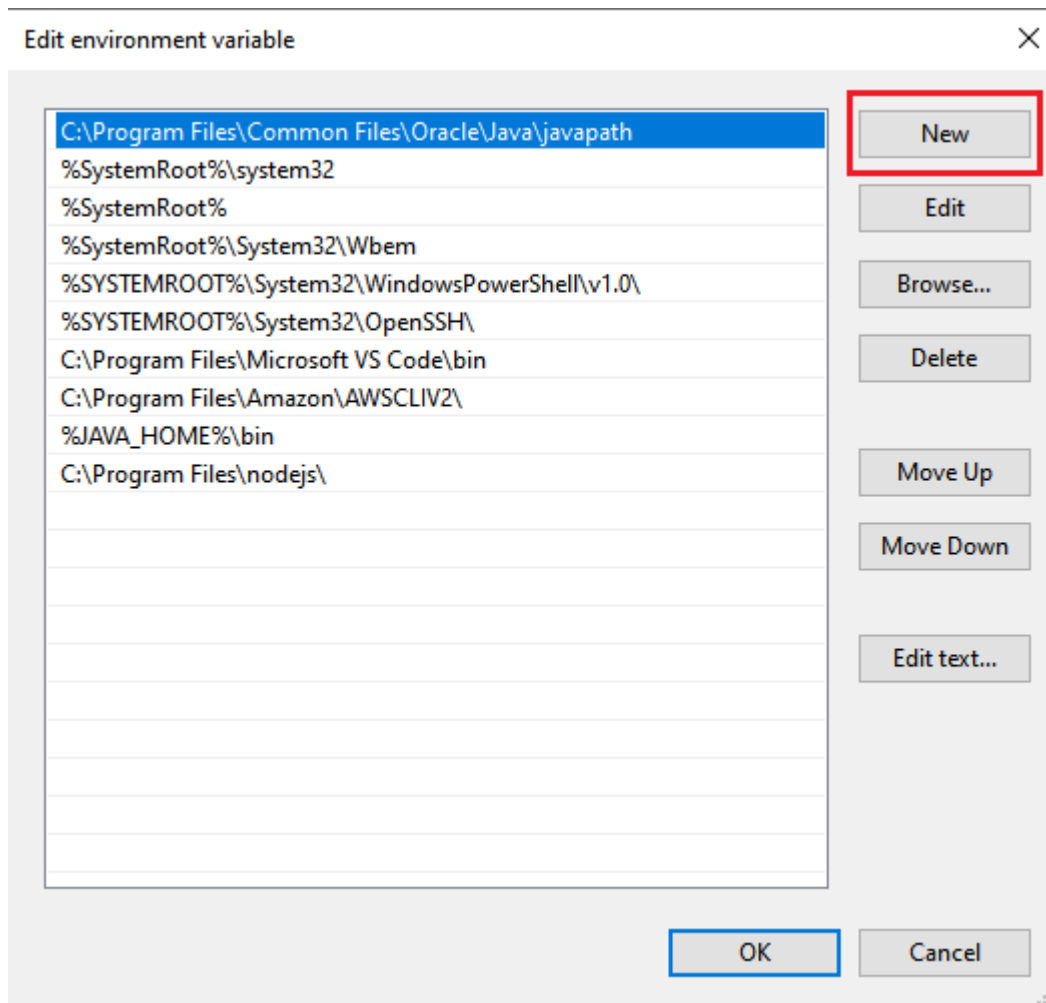
This is case sensitive.

Next find the PATH variable from System Variables and click on Edit. Shown in screenshot below.

In the next window, click on New as shown.

Type the following and press OK.
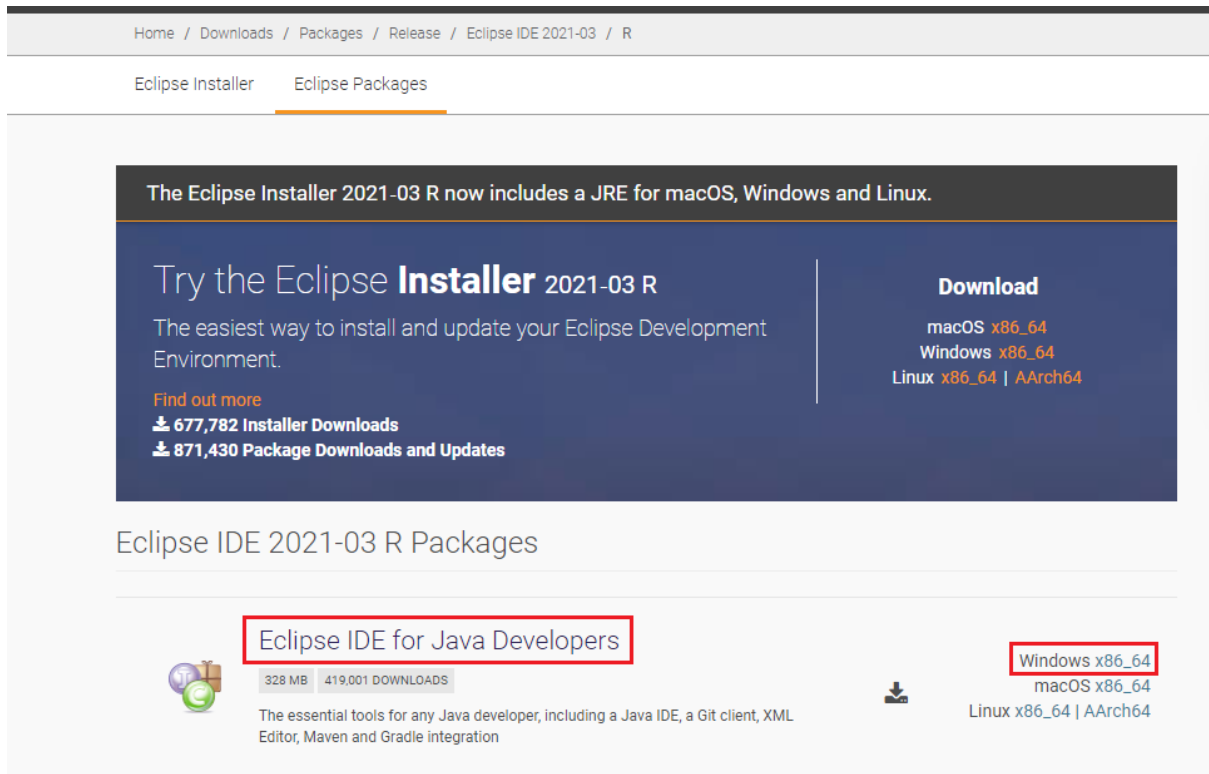
%JAVA_HOME%\bin

Press OK on subsequent screens.

SETTING UP ECLIPSE

Go to page - https://www.eclipse.org/downloads/packages/

Click on the below link highlighted for Windows. Please note that you are downloading Eclipse for Java

In the next screen, click on Download.

Once downloaded, run the installer.

During installation, system may prompt you to select the JDK 11+ version. Please look into the dropdown and select JDK 11 (**you have set this up in prior step for setting up Java**).

Continue with installation and you are done!

SETTING UP NEW JAVA PROJECT IN ECLIPSE

Open Eclipse. If you get the Welcome Page, you can close that tab within Eclipse.

Click on File >> New >> Java Project
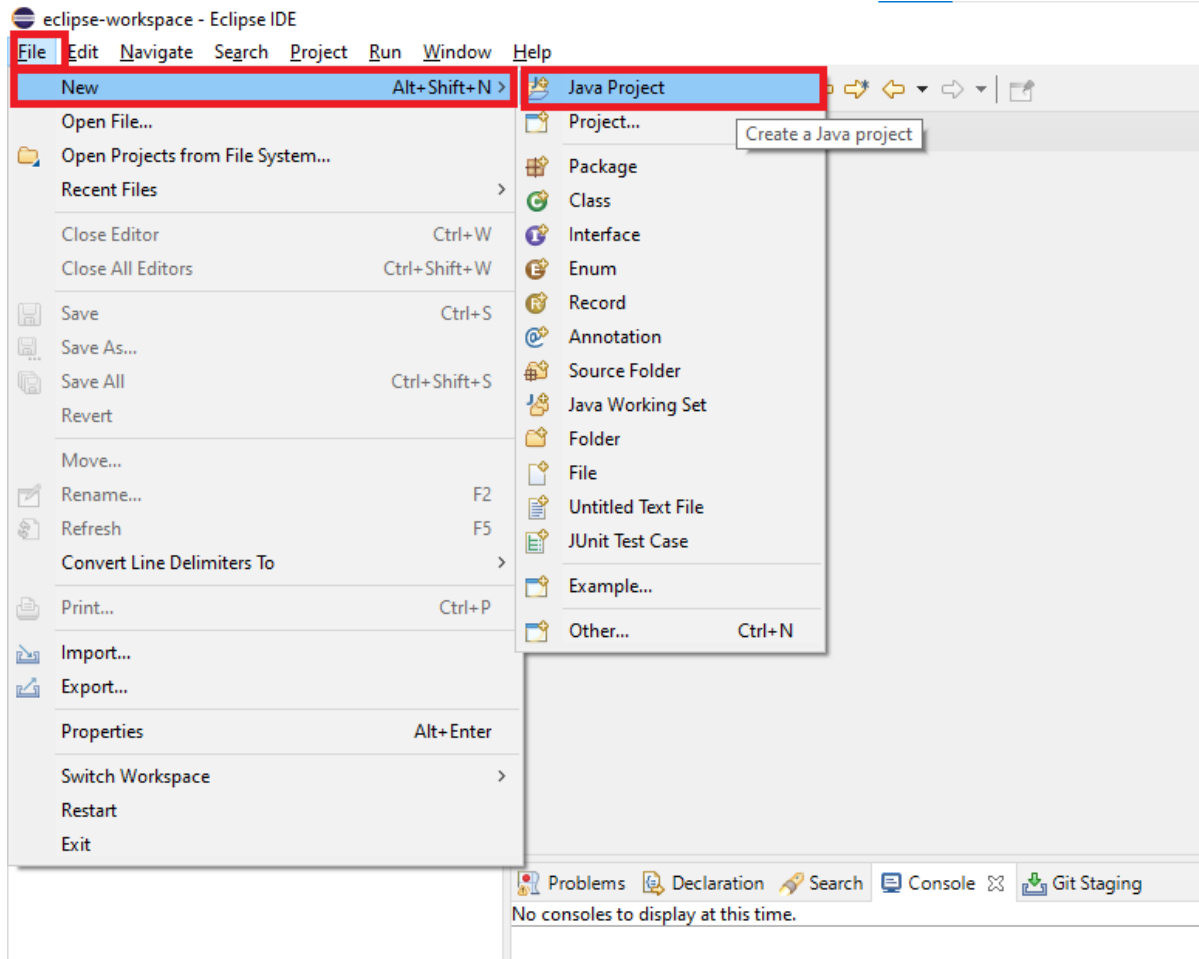
In the next page, provide a name for the project (all small letters). For instance I have given a name of `java-basics-brushup` as the name of the project. You may choose different name.

Ensure you select the right JRE (for us it is JavaSE-11) and then click on Next

In the next screen ensure to untick or deselect the "Create module-info.java file" option as highlighted. Once done, click on Finish.
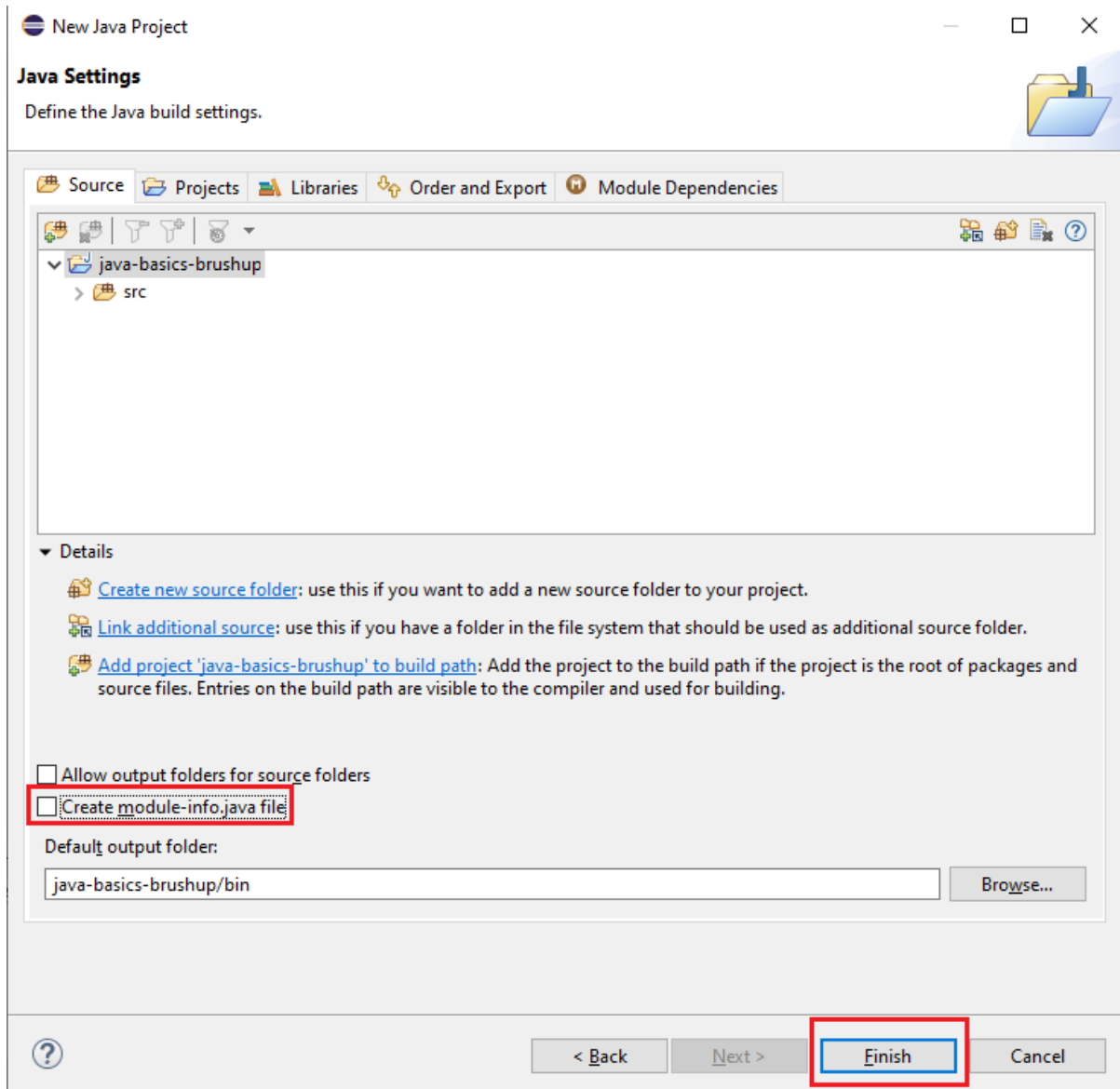
Once done, you will see your folder on the left panel of the Eclipse Window.

Right click on src folder, create new Package with any name you like.
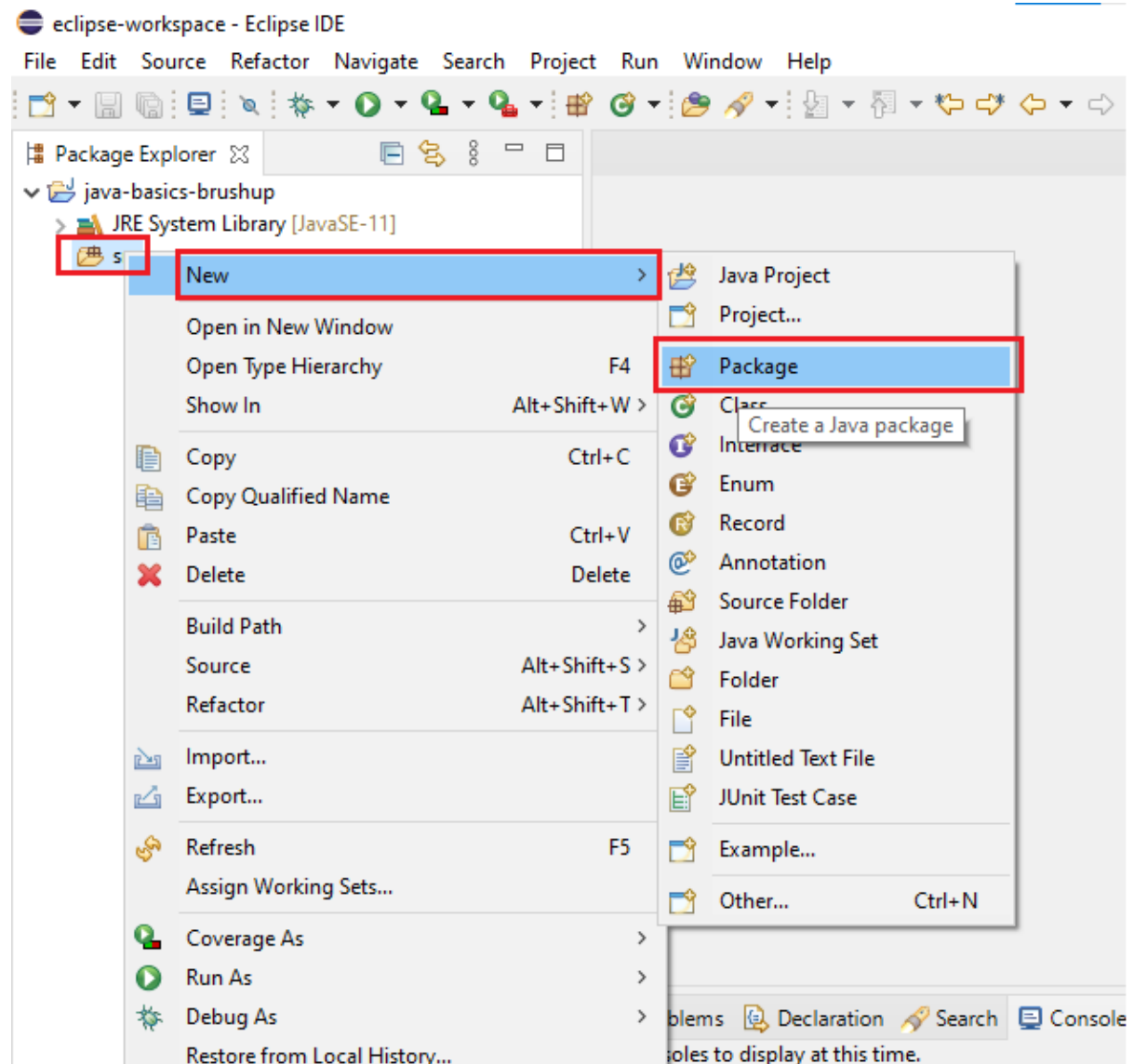
And then within the Package, create your first class HelloWorld.java.

CLONING THE REFERENCE GIT REPOSITORY

On Eclipse, on the top right corner of the screen, click on the "Open Perspectives" Icon as shown below. In the new window that opens, select Git, and click Open.
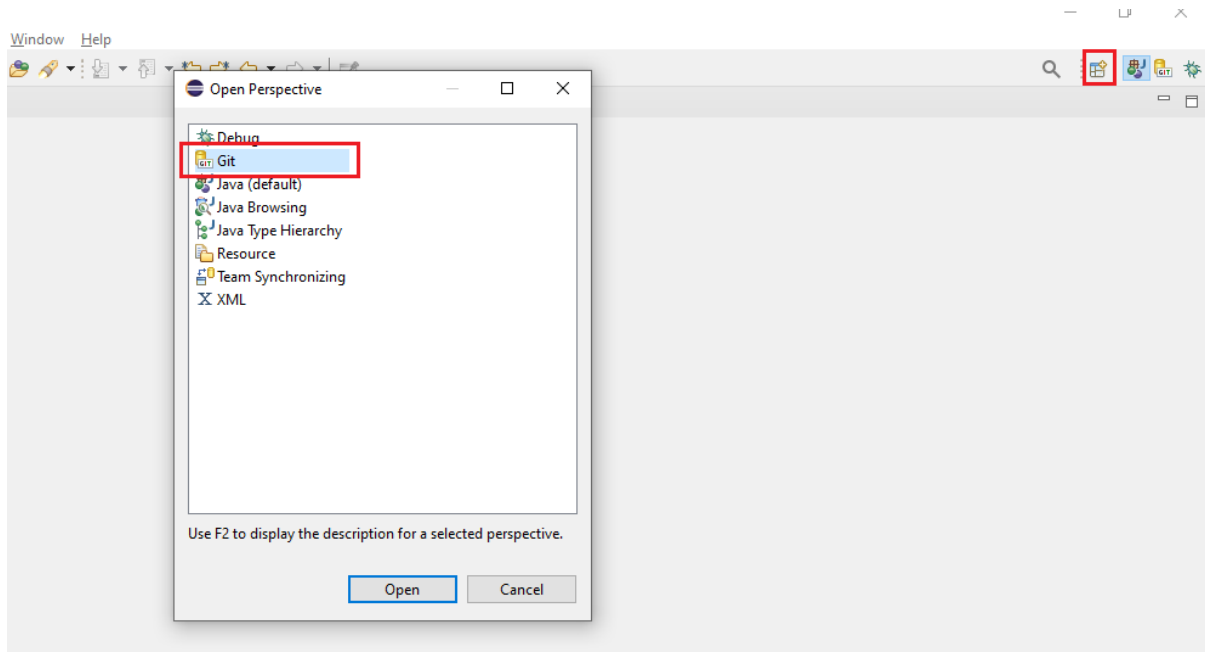
On the left pane, you will see a section called Git Repositories. Click on the icon marked in below screenshot.

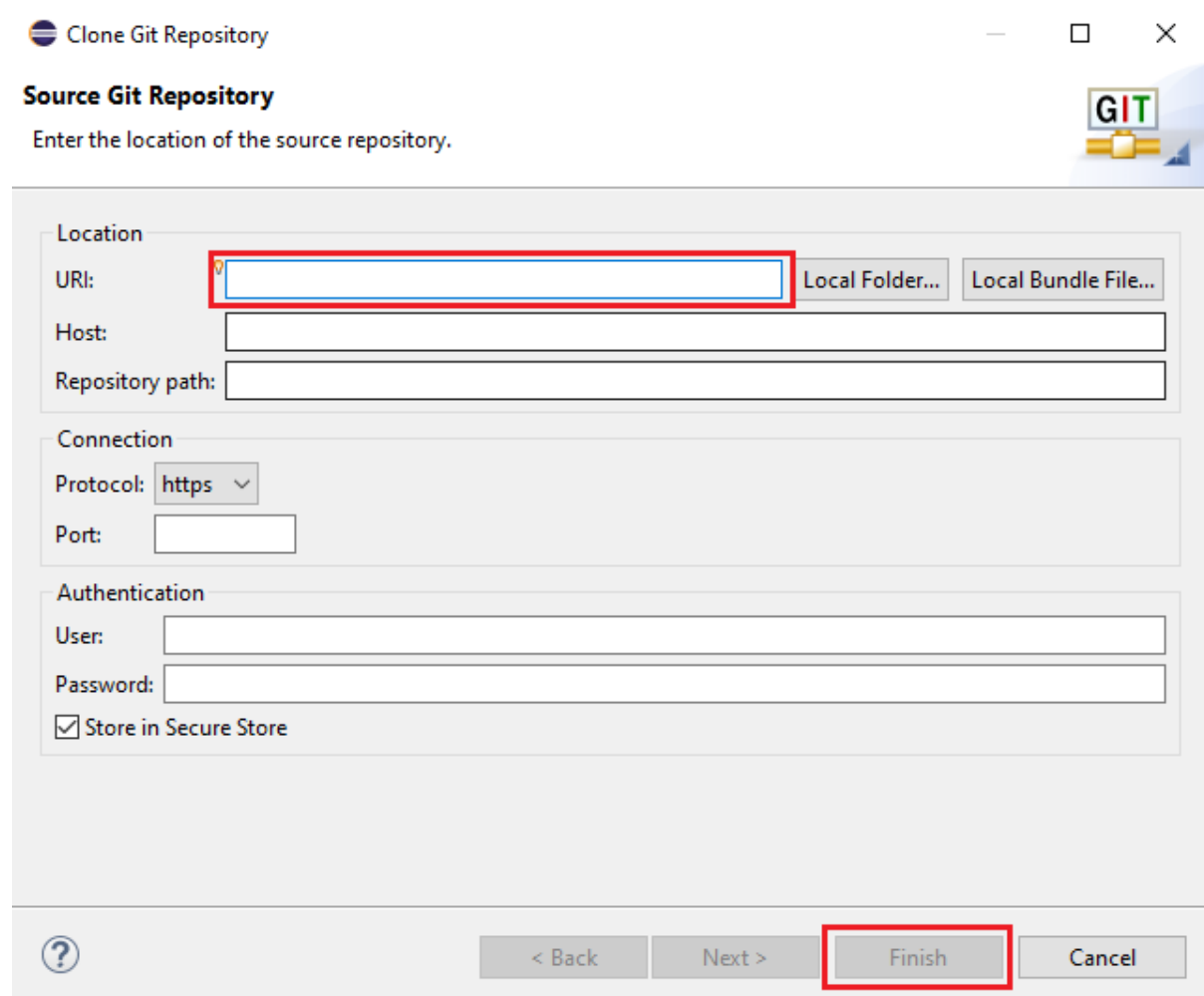The Git repository link must have been shared with you by your instructor. Please request for it if you do not have it. Paste that link in the space highlighted below. Some of the other fields will get automatically populated. Just click Finish.
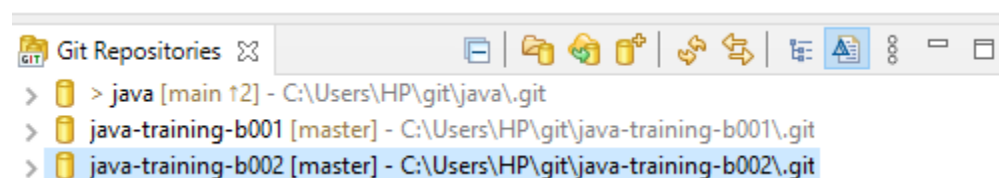

You will find the repository that you just cloned under the Git Repositories pane. Something like below. But not exactly this. Note the location on your hard disk where the repo is dumped. In below screenshot, looks like the `java-training-b002` repo is copied to `C:\Users\HP\git\java-training-b002\` folder. Copy this folder path.
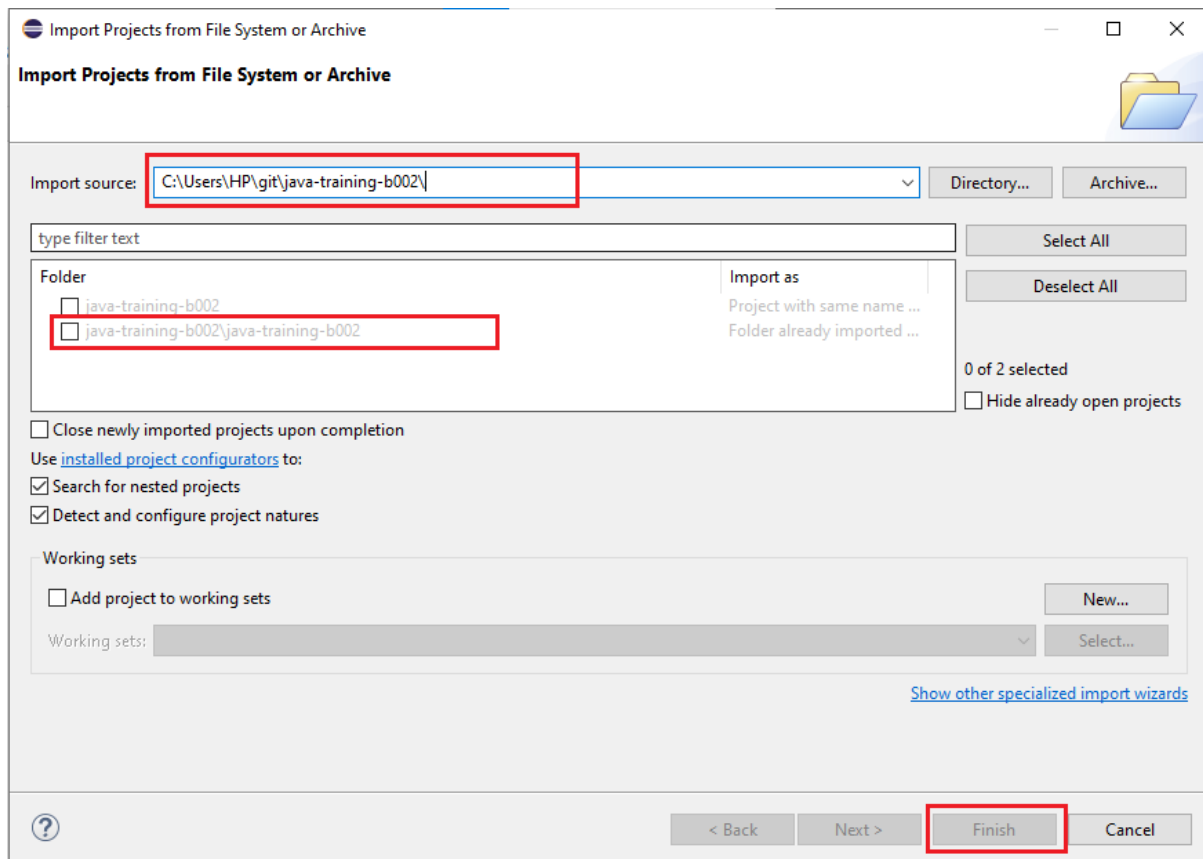
Go to Java Perspective (Open Perspective on top right corner and then choose Java).

This time select "Open Projects from File System"
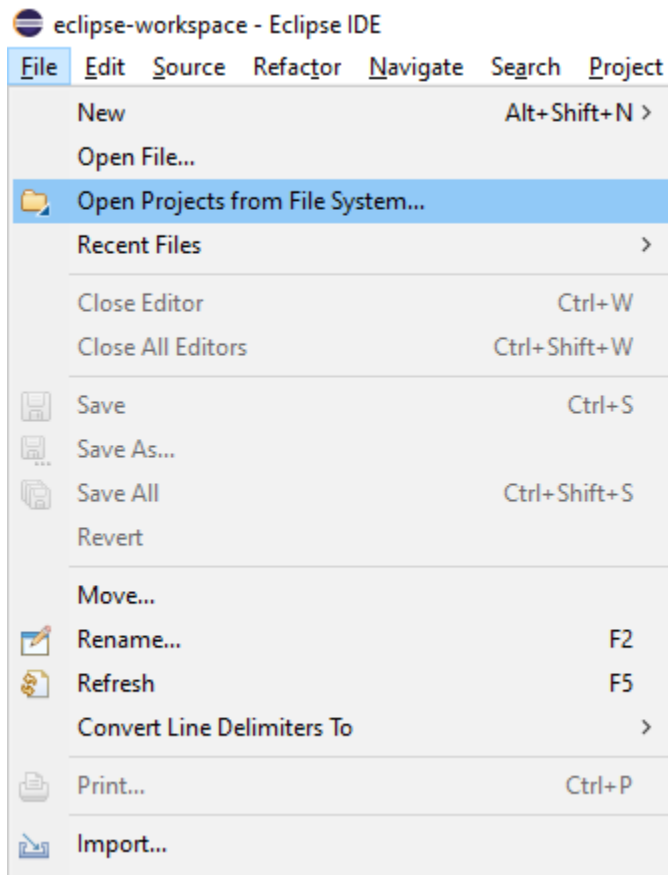
Under "Import Source", provide the same path which you copied in prior step. You will see two project options as shown below. Select only the 2nd one, and click on Finish.

Once you do this, a new project will open in your project explorer window, and you can see all files/classes/code that we are writing as part of sessions.

From time to time, you should go to that project, Right Click >> Teams >> Pull and complete the transaction. This will ensure any latest code committed will reflect in your machines.