



We are on a mission to address the digital skills gap for 10 Million+ young professionals, train and empower them to forge a career path into future tech

Selenium Setup Procedure

22 APRIL, 2022



Contents

- Install JDK.
- Install Eclipse IDE.
- Install Selenium WebDriver and Language Bindings.
- Install Browser Drivers.

Install JDK



Install JDK

Installing JDK and Setting up of Environment Variables

- Install Java on your computer
- Download and install the Java Software

Development Kit (JDK) by using

"<https://www.oracle.com/java/technologies/javase-downloads.html>".

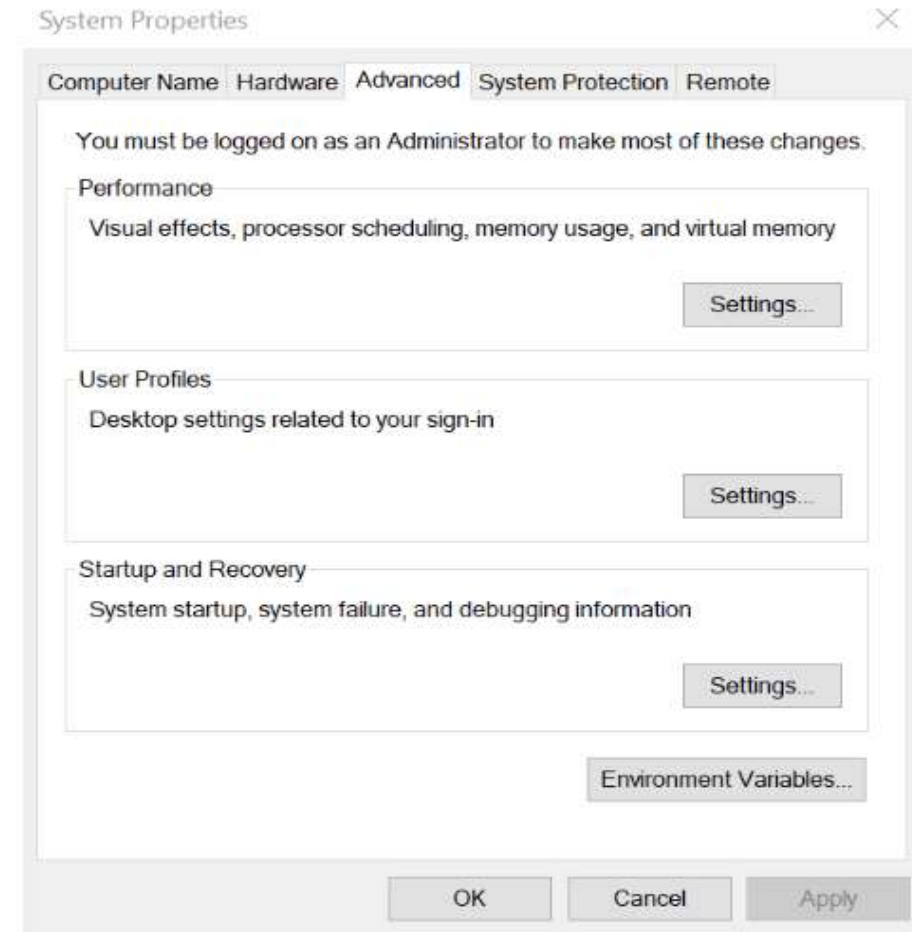


Install JDK

Installing JDK and Setting up of Environment Variables

- Once the installation is complete, set the environment variables. The steps are as below:

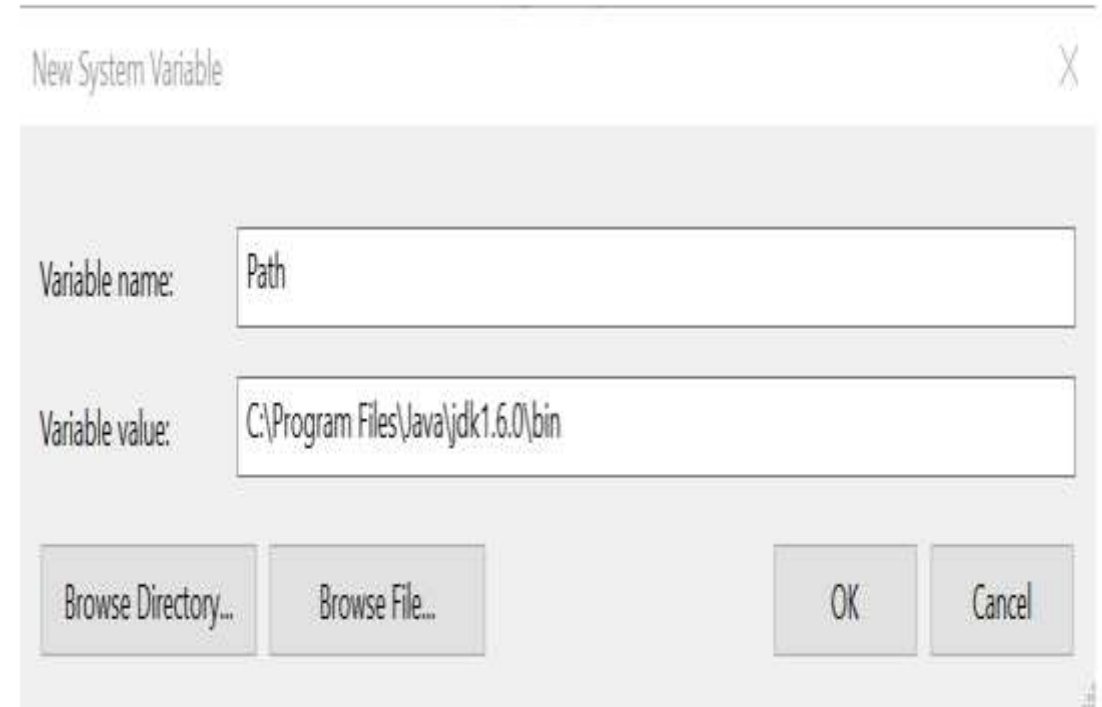
- 1.Right-click on Computer.
- 2.Click on 'Properties'.
- 3.Click on 'Advanced system settings'.
- 4.On System Properties, select the 'Advanced' Tab.



Install JDK

Installing JDK and Setting up of Environment Variables

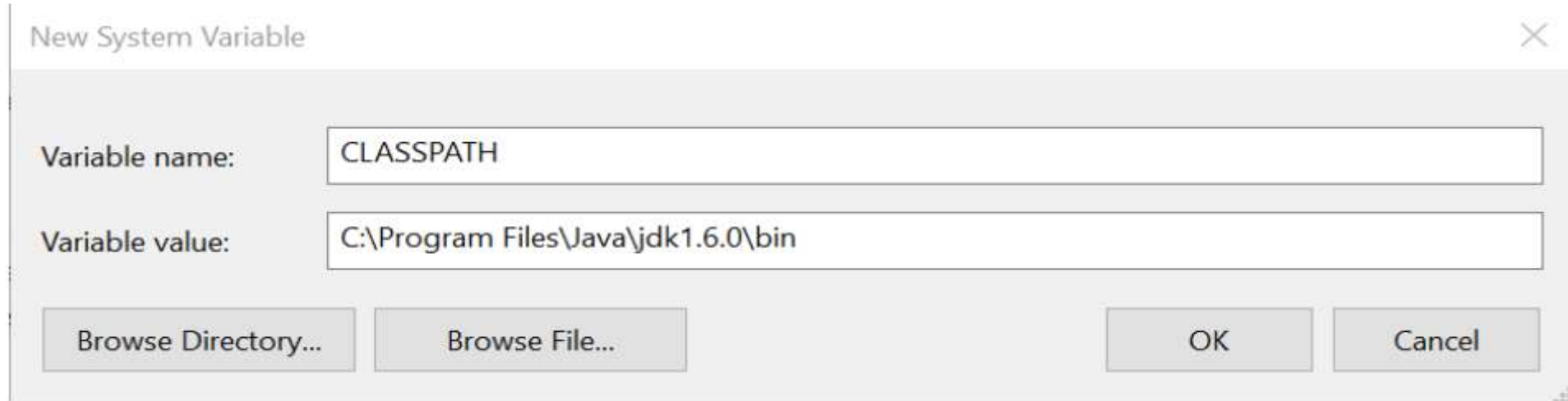
5. Click on 'Environment Variables.'
6. Copy the path where the JDK is installed. (E.g.:
C:\Program Files\Java\jdk1.6.0\bin)
7. In the opened Environment Variables window,
select 'New' under 'System variables'.
8. Set the path. If 'Path' is already existing, then edit
it.



Install JDK

Installing JDK and Setting up of Environment Variables

9. We also need to set the CLASSPATH. Create a new environment variable and copy the same JDK path as the value. If 'CLASSPATH' is already existing, then edit it.



New System Variable

Variable name: CLASSPATH

Variable value: C:\Program Files\Java\jdk1.6.0\bin

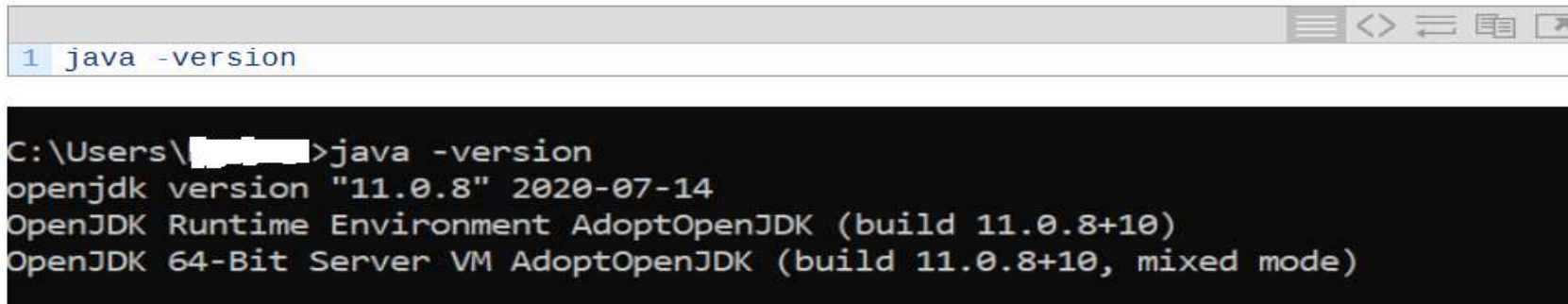
Browse Directory... Browse File... OK Cancel

- The environment variable setup is now complete.

Install JDK

Installing JDK and Setting up of Environment Variables

- Open the command prompt and run the following command to verify that Java has been successfully installed in your system.



```
1 java -version

C:\Users\██████>java -version
openjdk version "11.0.8" 2020-07-14
OpenJDK Runtime Environment AdoptOpenJDK (build 11.0.8+10)
OpenJDK 64-Bit Server VM AdoptOpenJDK (build 11.0.8+10, mixed mode)
```

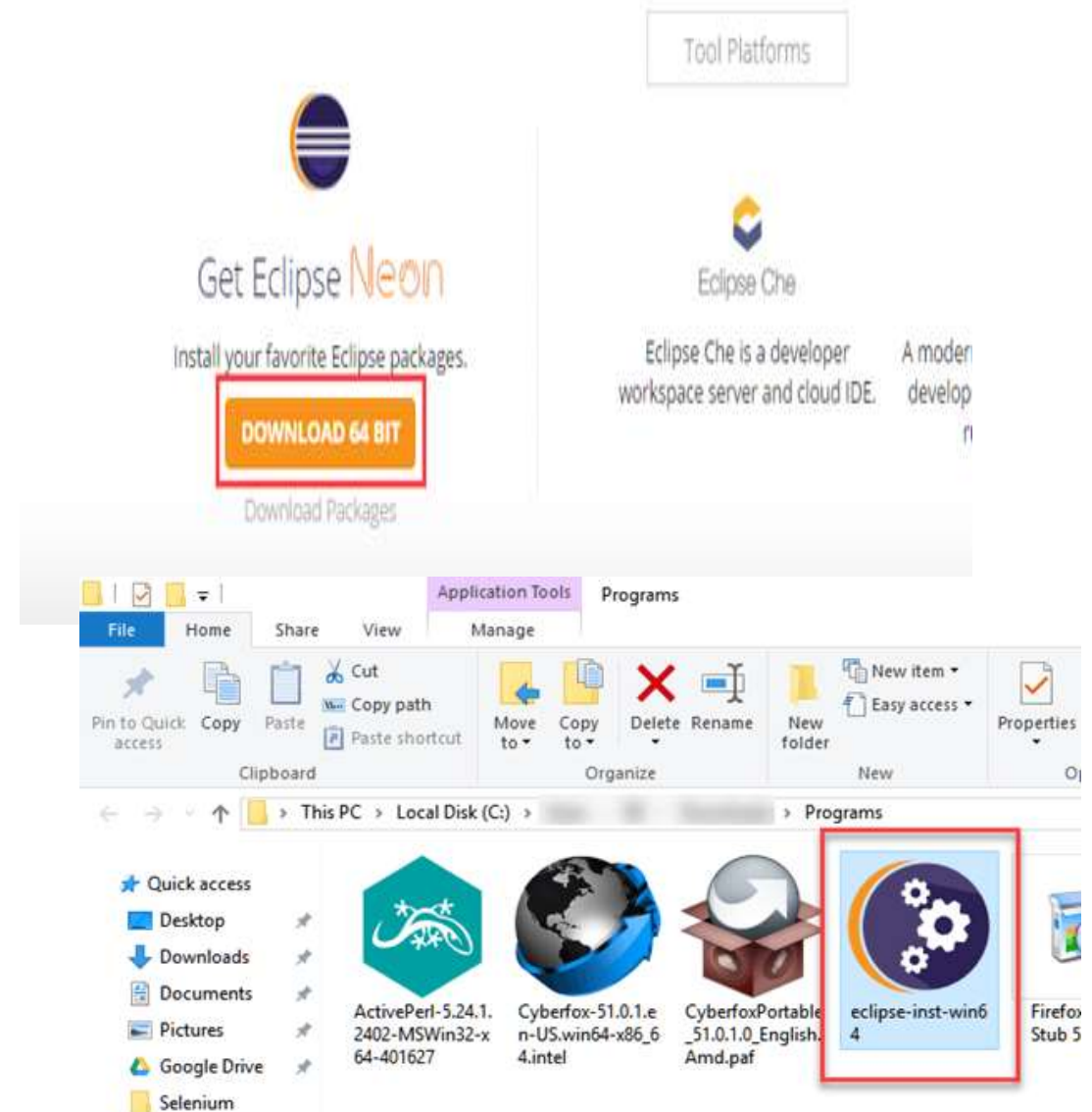
Installing Eclipse



Installing Eclipse

Installing of Eclipse

- Install Eclipse IDE
- Download latest version of "Eclipse IDE for Java Developers" by using "<https://www.eclipse.org/downloads/>". Be sure to choose correctly between Windows 32 Bit and 64 Bit versions.
- You should be able to download an exe file named "eclipse-inst-win64" for Setup.



Installing Eclipse

Installing of Eclipse (contd.)

- Double-click on file to Install the Eclipse. A new window will open. Click Eclipse IDE for Java Developers.
- After that, a new window will open which click button marked 1 and change path to "C:\eclipse".
Post that Click on Install button marked 2



Installing Eclipse

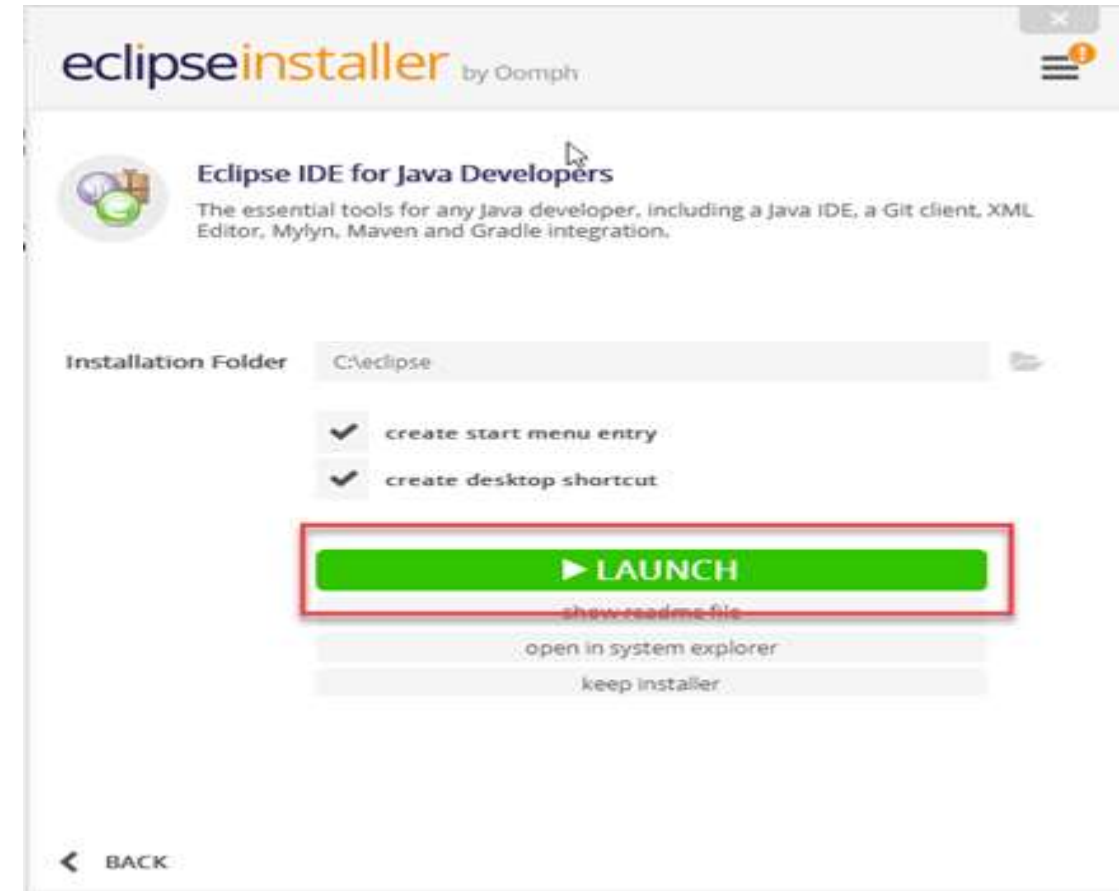
Installing of Eclipse (contd.)



Installing Eclipse

Installing of Eclipse (contd.)

- After successful completion of the installation procedure, a window will appear. On that window click on Launch



Installing Selenium WebDriver and Language Bindings



Download the Selenium Java Client Driver

- Download Selenium Webdriver for Java Client by using

"<https://www.selenium.dev/downloads/>"

Selenium Clients and WebDriver Language Bindings

In order to create scripts that interact with the Selenium Server (Remote WebDriver) or create local Selenium WebDriver scripts, you need to make use of language-specific client drivers.

While language bindings for other languages exist, these are the core ones that are supported by the main project hosted on GitHub.



C#

Stable: [4.1.0 \(November 22, 2021\)](#)

[Changelog](#)

[API Docs](#)



Ruby

Stable: [4.1.0 \(November 22, 2021\)](#)

[Changelog](#)

[API Docs](#)



Java

Stable: [4.1.2 \(January 30, 2022\)](#)

[Changelog](#)

[API Docs](#)

Installing Browsers Drivers

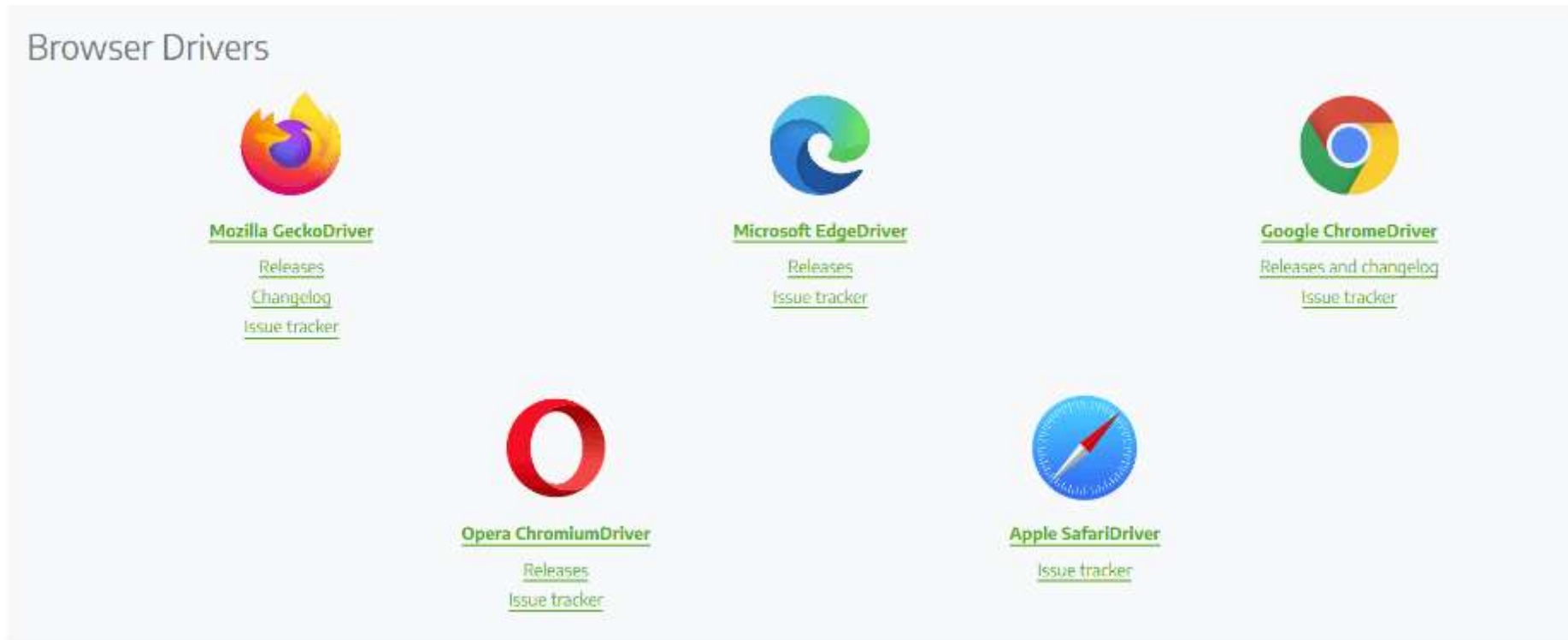


Browser Drivers

Download the Selenium Java Client Driver

- You can download the drivers for the browsers of your choice from

[“https://www.selenium.dev/ecosystem/”](https://www.selenium.dev/ecosystem/)



Selenium Project Creation



Selenium Project Creation

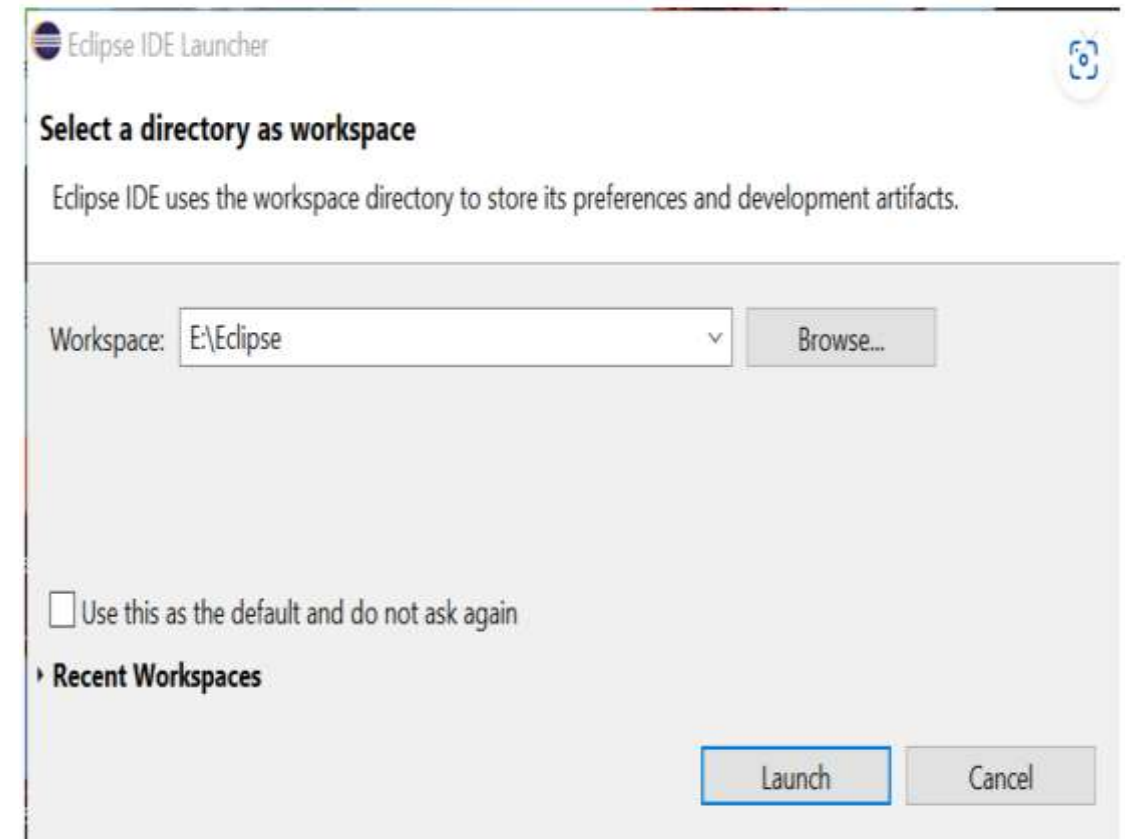
Selenium Project Creation

- We need to have a project set up for writing and storing our test cases. You can follow the below-mentioned steps to create a new Selenium with Java project in Eclipse.

Step 1: Launch Eclipse.

Step 2: Create a workspace.

- A workspace will be a place where you will be storing all your projects. You can create as many workspaces as required.

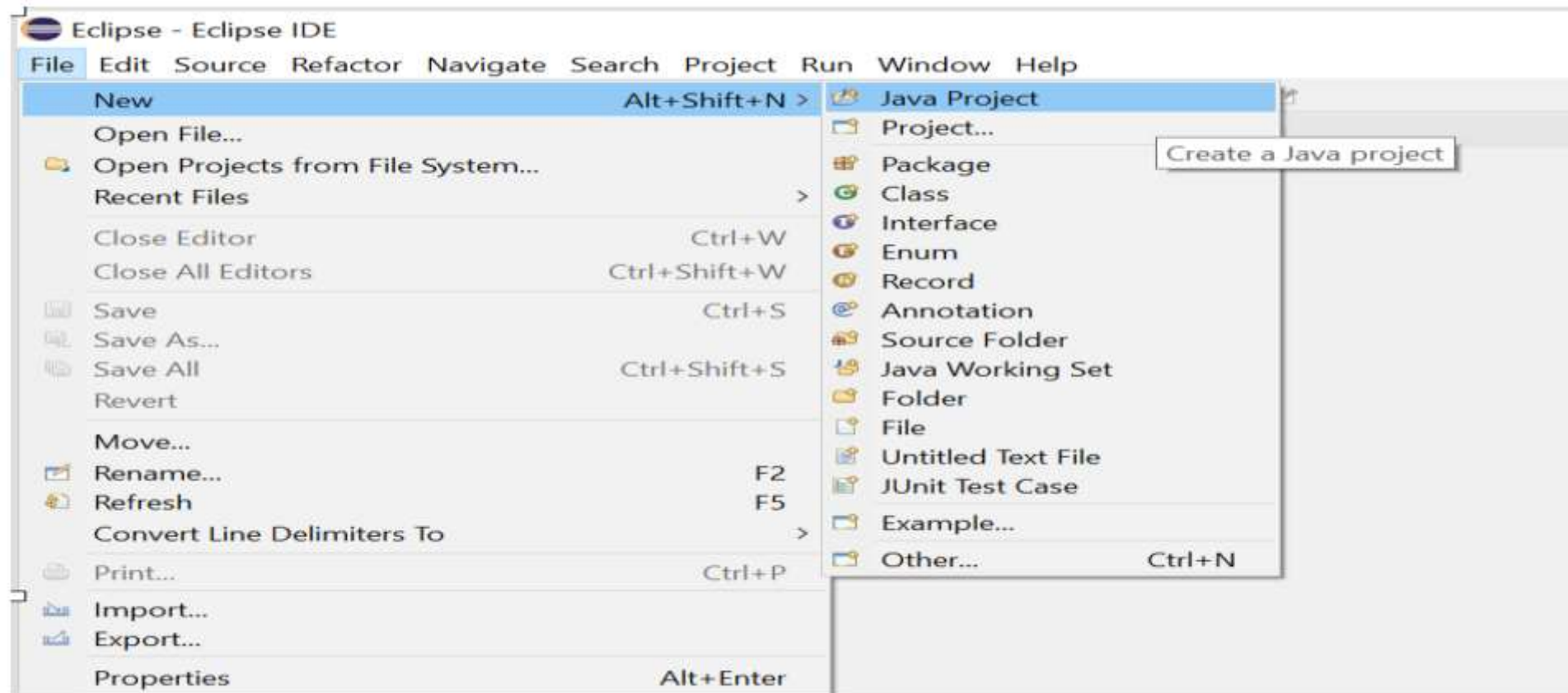


Selenium Project Creation

Selenium Project Creation

Step 3: Create a new Selenium with Java project.

Go to File > New > Java Project.



Selenium Project Creation

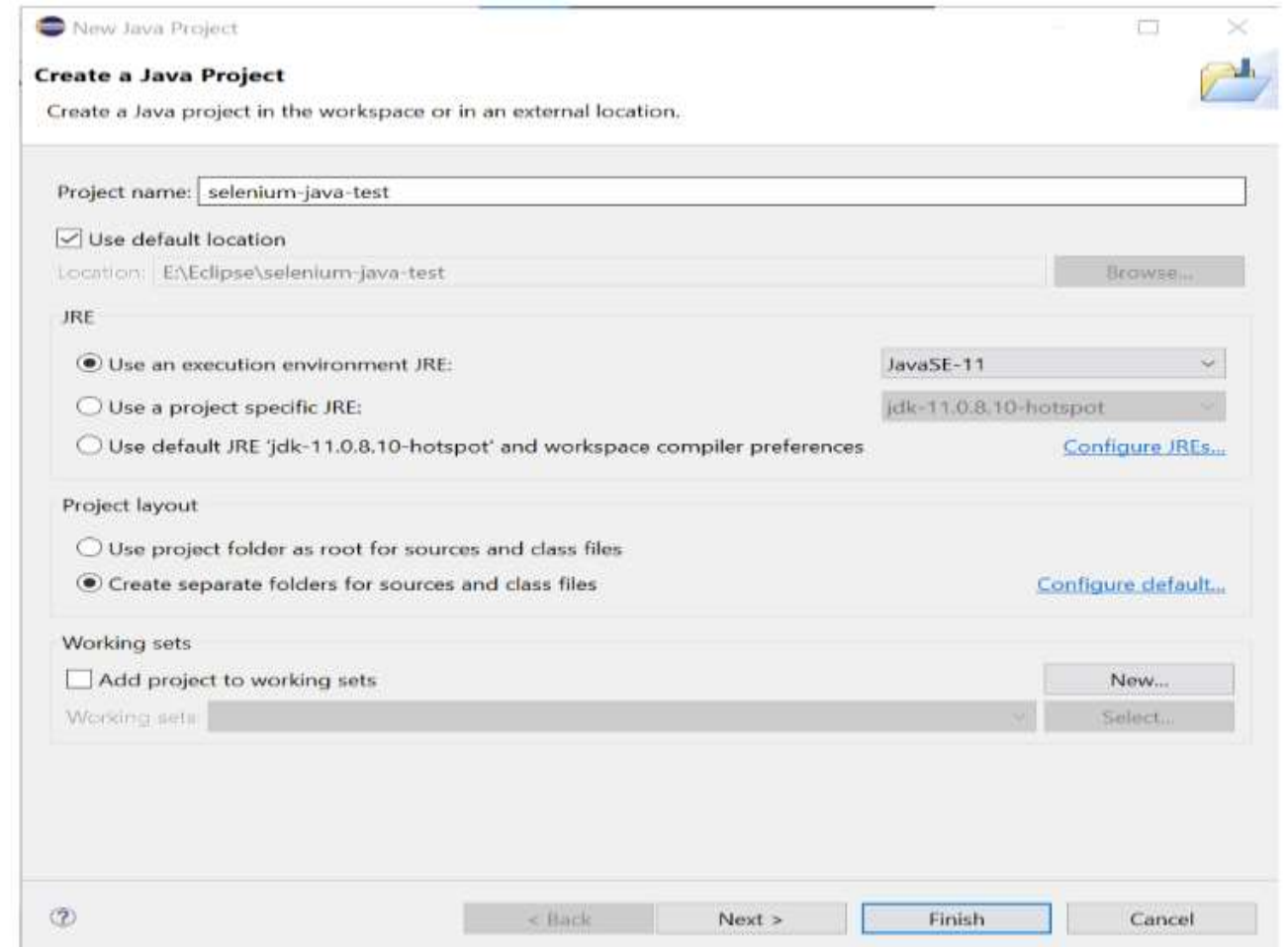
Selenium Project Creation

A new pop-up window will appear.

Enter the following details:

- **Project name**
- **Location to save the project**
- **Execution JRE**

Once done, click 'Finish'.



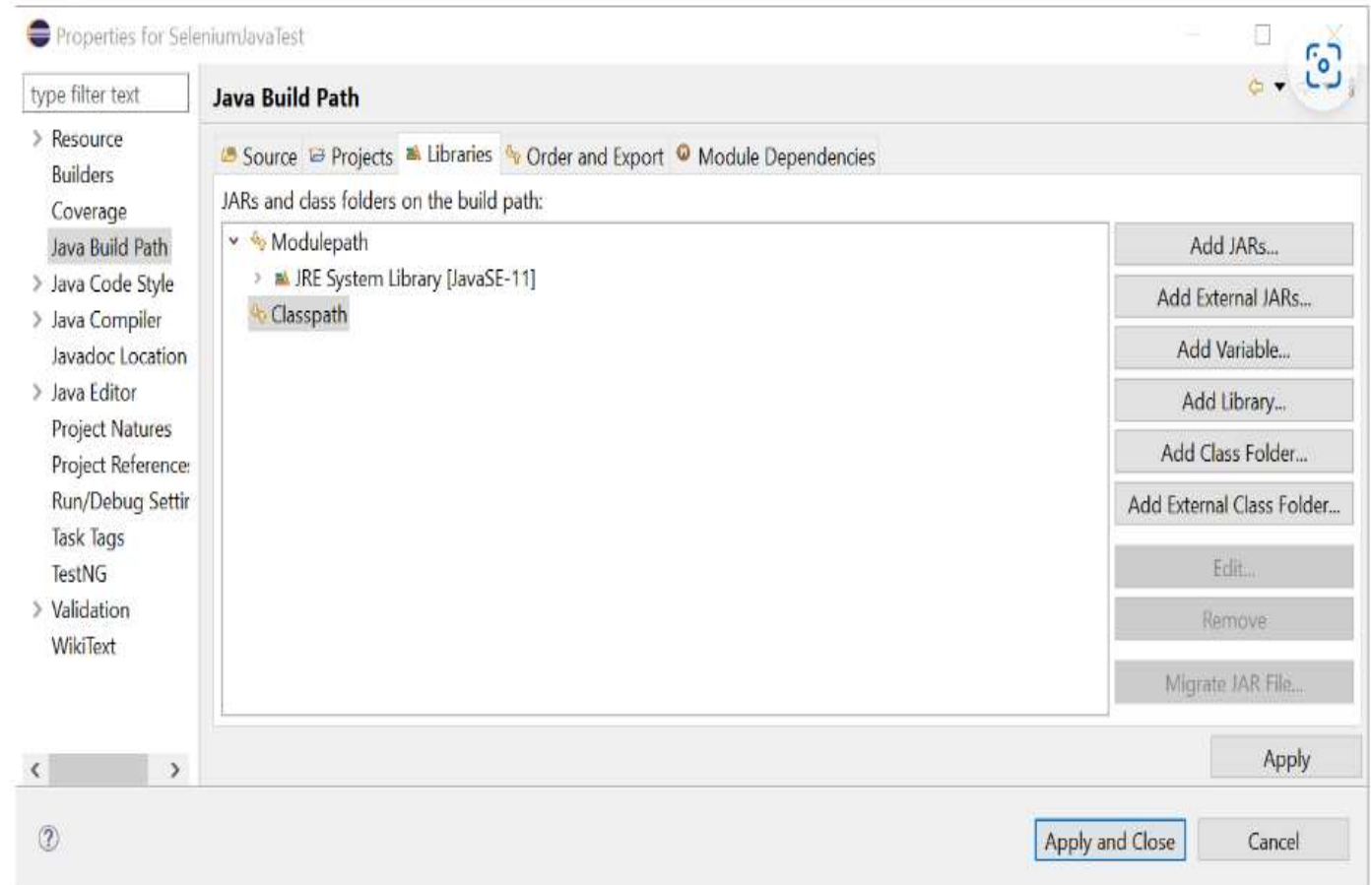
The project is now created.

Selenium Project Creation

Selenium Project Creation

Step 4: Add Selenium API JAR files to the Java project by following the below-mentioned steps:

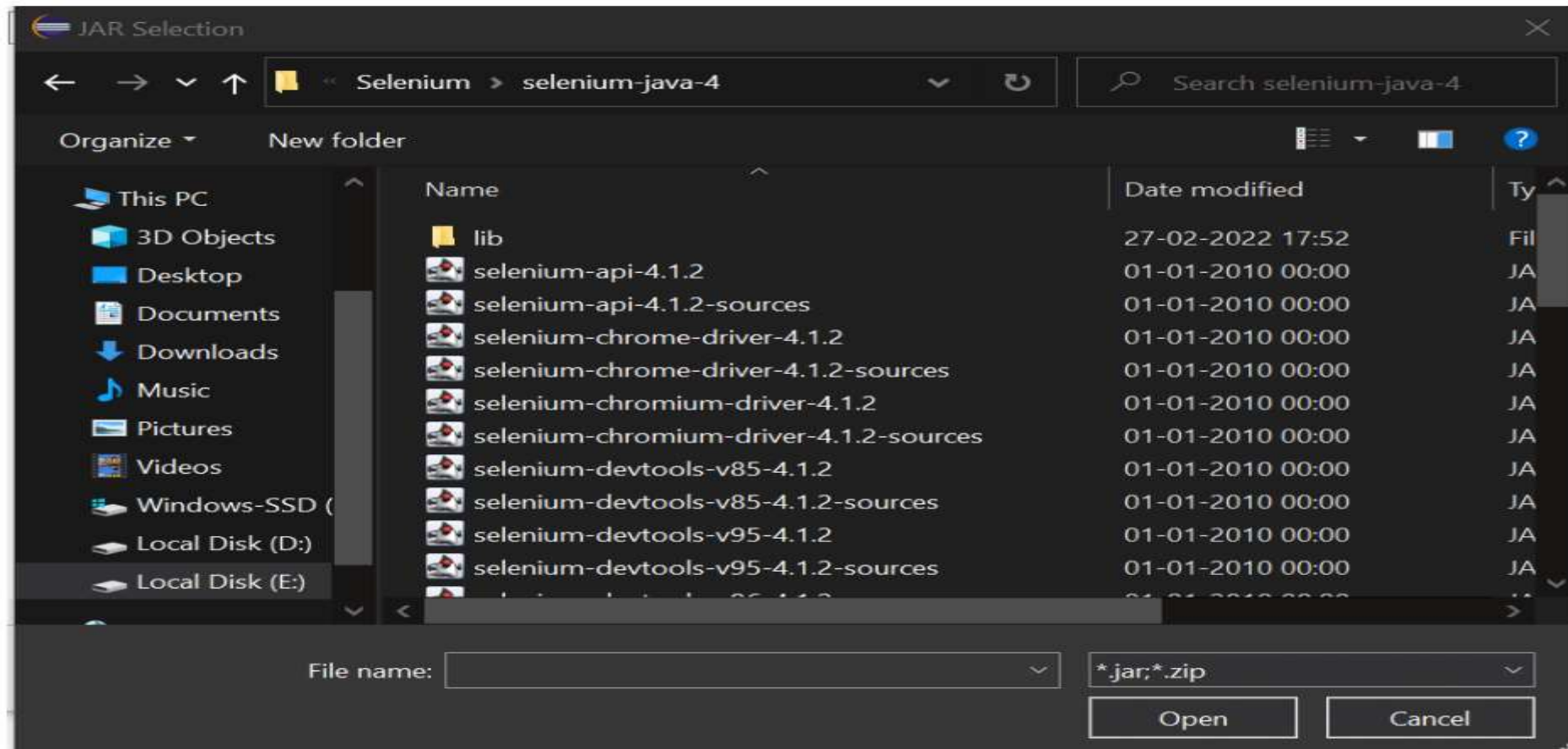
1. Right-click on the project and select Properties.
2. Select Java Build Path.
3. Under the libraries section, click on Add External JARs, which gets enabled upon opting for Classpath.



Selenium Project Creation

Selenium Project Creation

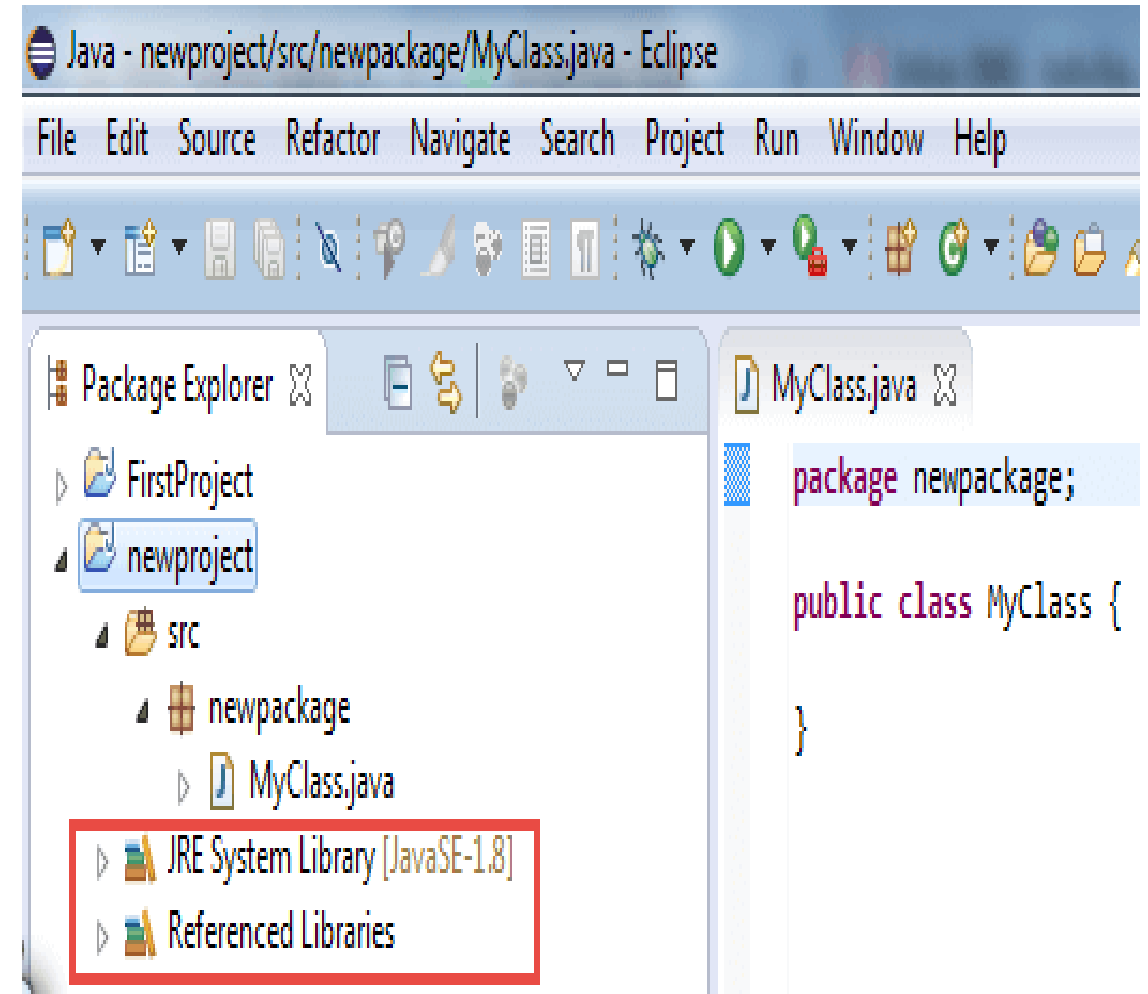
- Add the Selenium Java Client JARS. Navigate to the folder location where you have downloaded and extracted the JAR files.



Environment Setup

Selenium WebDriver's into Java Build Path(Contd.)

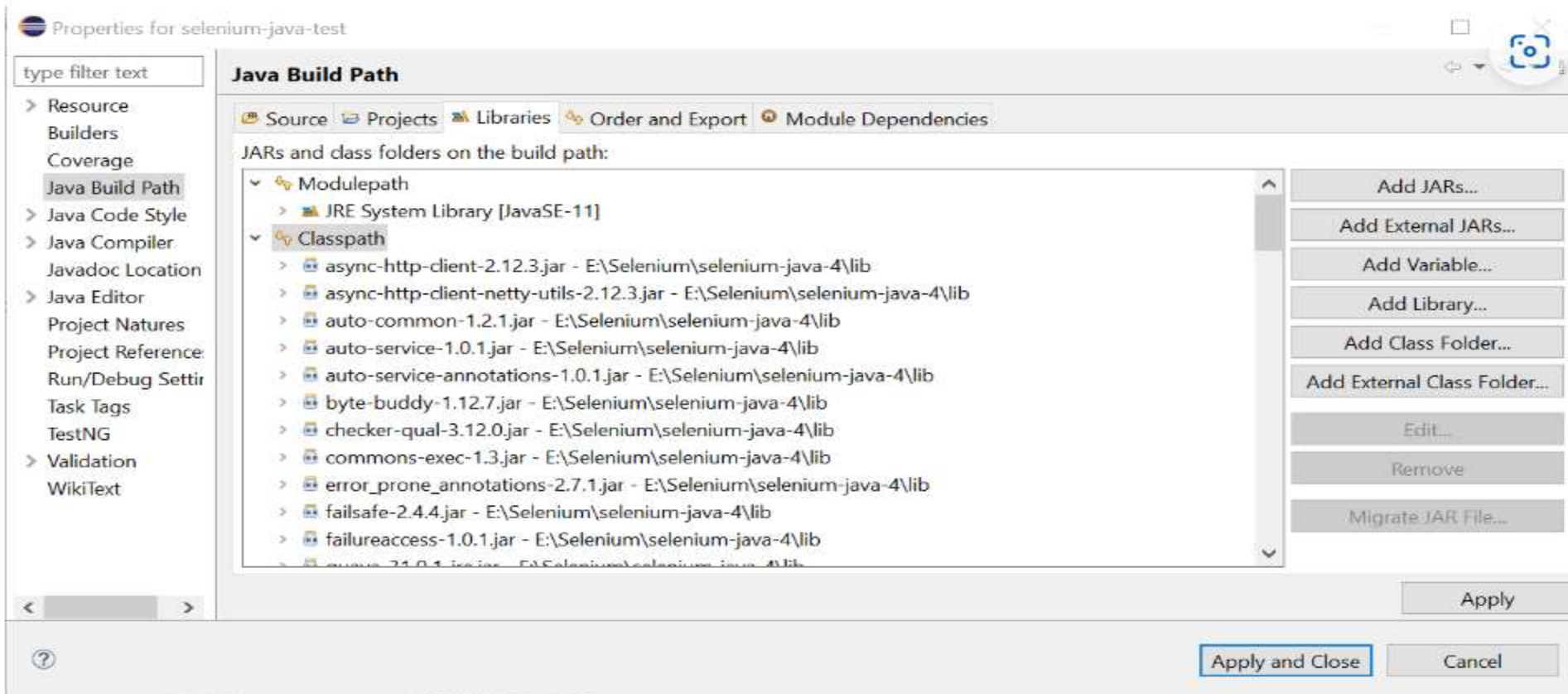
- Add all the JAR files inside and outside the "libs" folder. Your Properties dialog should now look similar to the image below
- Finally, click OK and we are done importing Selenium libraries into our project.



Selenium Project Creation

Selenium Project Creation

- Once all the JAR files are added, click “Apply and Close”



Instead of including JARS manually, let the maven do it for you....

- Follow “eclipse installation with maven” procedure.
- In POM.xml, Include dependency for,
- Selenium java, WebDriverManager

THANK YOU