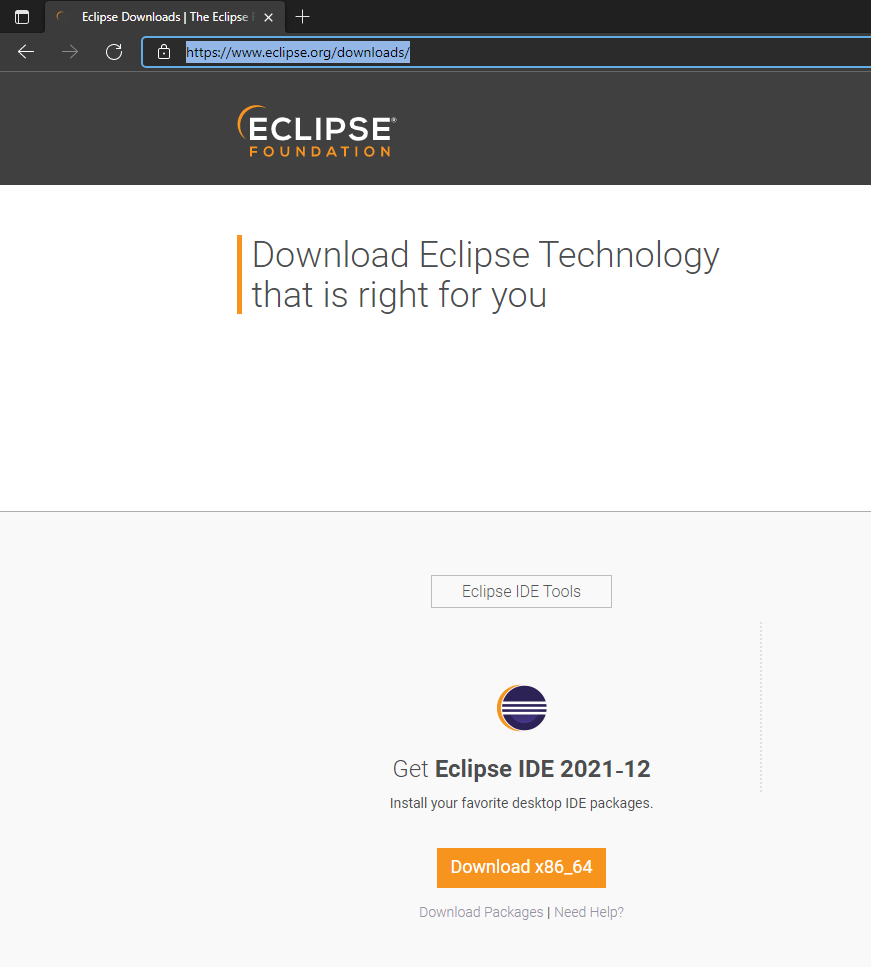
**Working of DiscoDNC**

**Disco DNC is a tool for deterministic network calculus. This documentation provides insight on how to properly install DiscoDNC and how to configure it properly.**

**1. Download the Eclipse IDE from the Internet.**

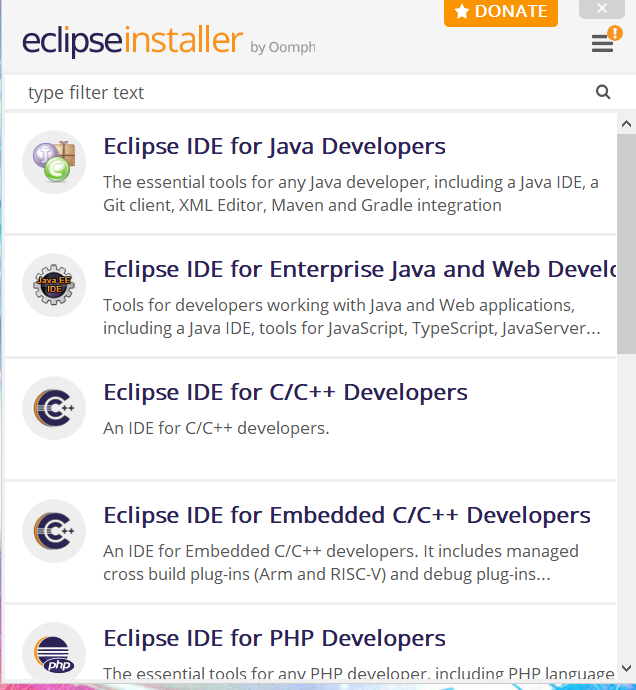
* *Download latest Eclipse IDE from the given link.*

Link : [Eclipse Downloads | The Eclipse Foundation](https://www.eclipse.org/downloads/)

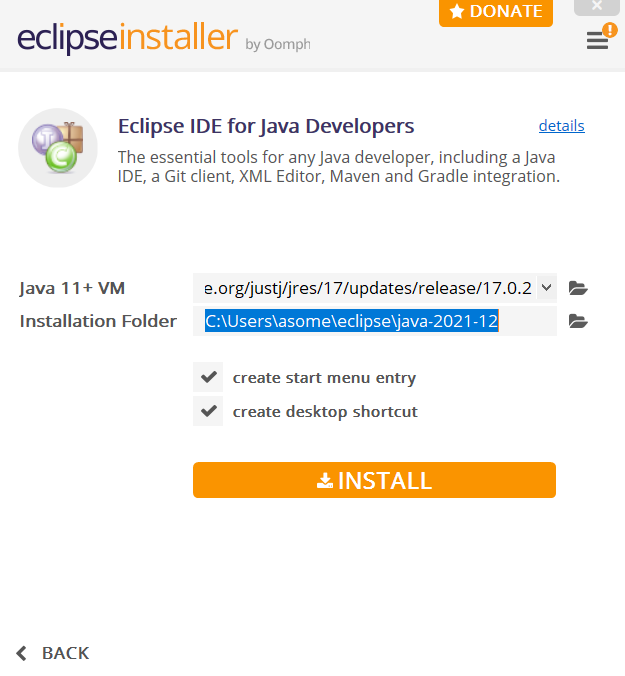


**2. Install the Eclipse into the desired directory.**

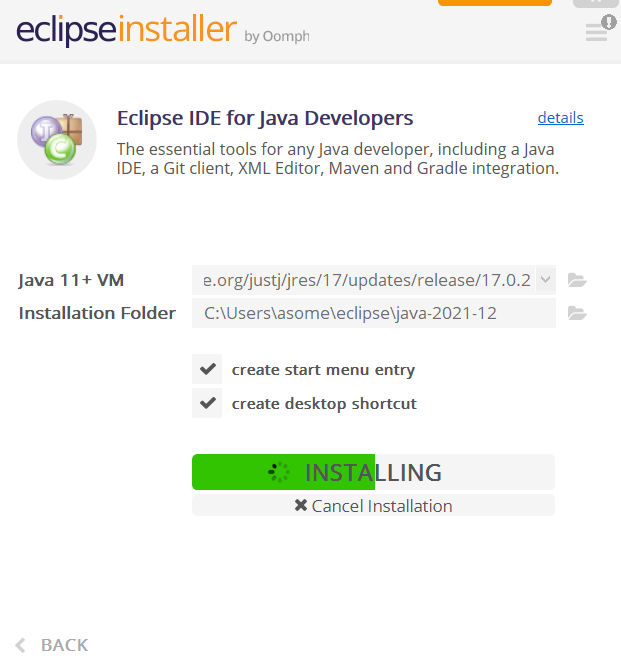
* *Launch the Eclipse Installer.*
* *Select* ***Eclipse IDE for Java Developers****.*



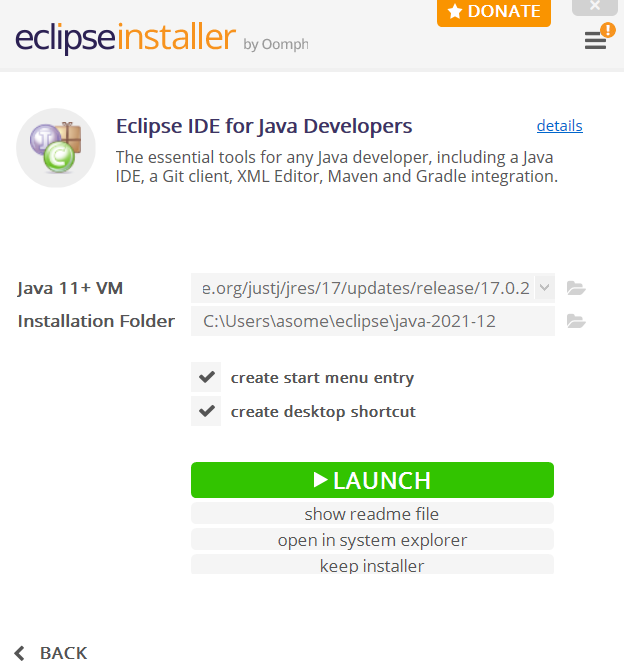
* *Select the directory where you want to install Eclipse.*



* *Click the* ***INSTALL*** *option*

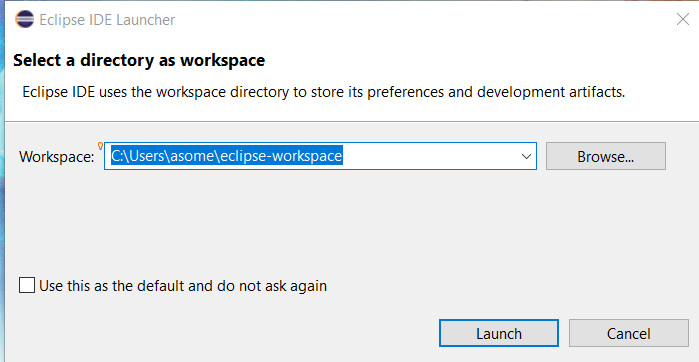


* *After Installation is complete, Click on* ***LAUNCH*** *option.*

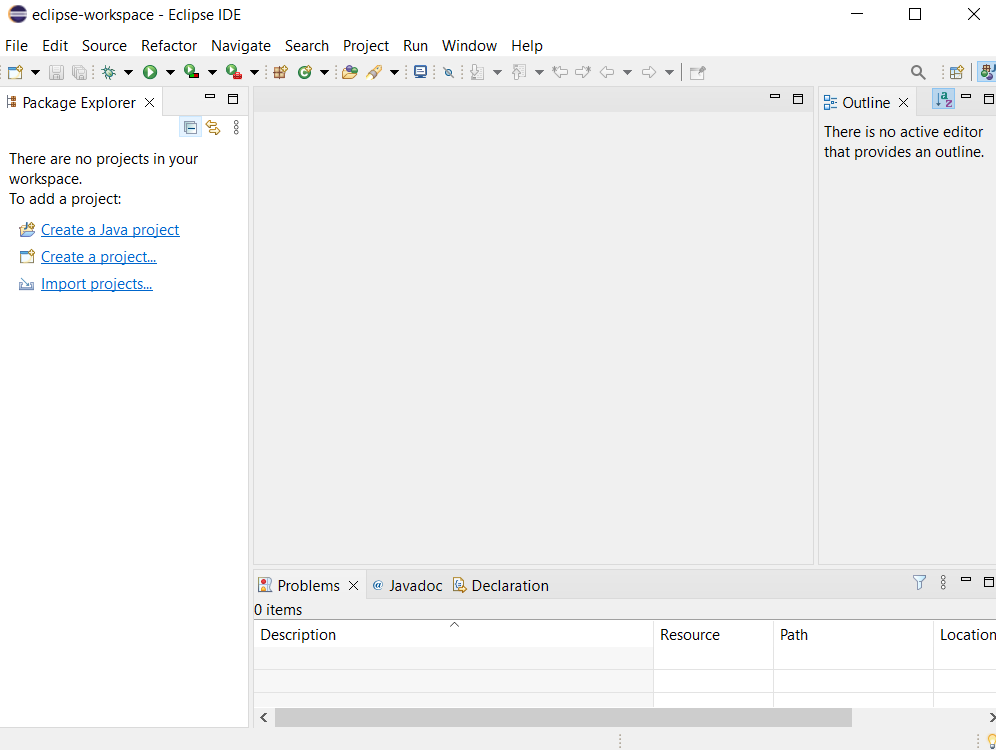


**3. After Installation Launch the eclipse:**

* *Select a directory as a workspace.*



* *Click on* ***Launch*** *Button.*
* *It will launch Eclipse Workspace.*

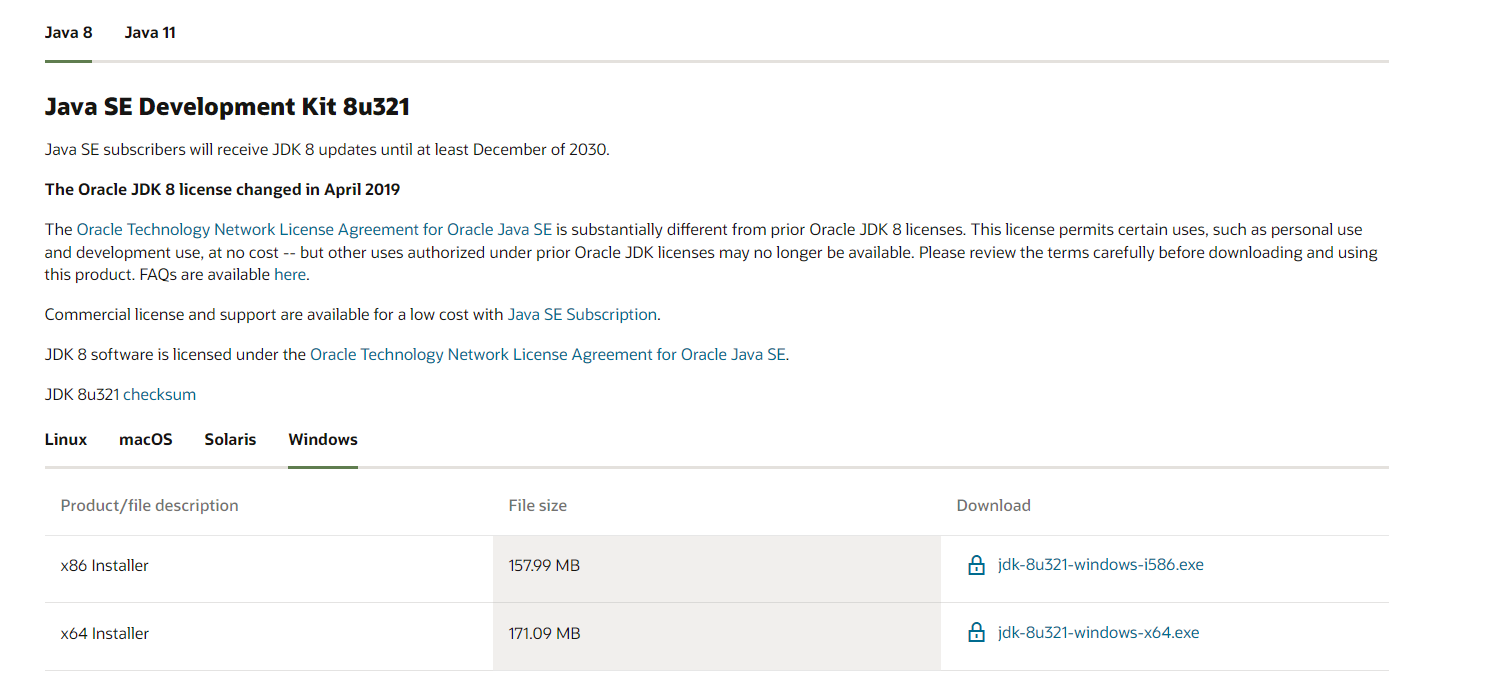


**Since Disco DNC requires Java 8, we should download and install Java 8 in our system.**

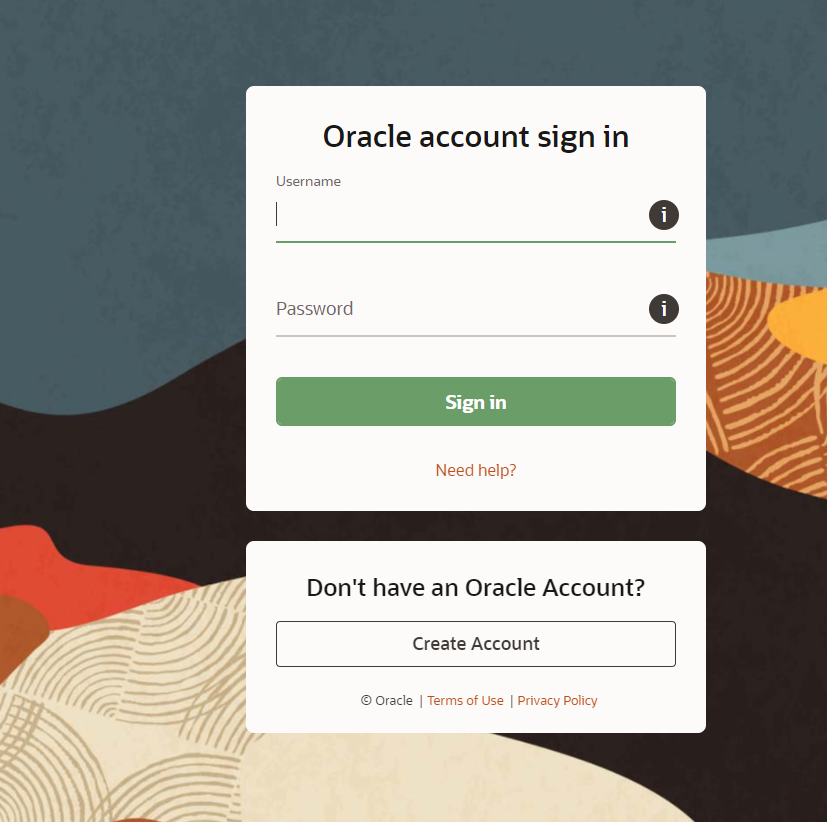
**4. Download Java 8.**

* *Download the Java 8 from the given link below.*

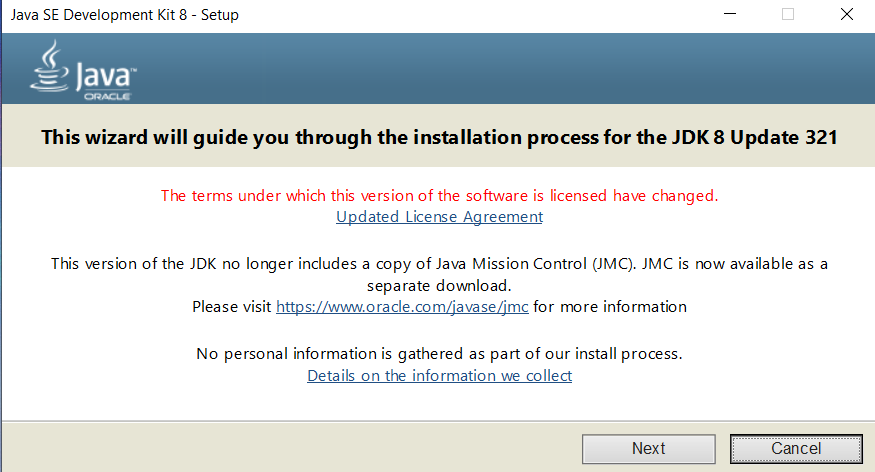
Link: <https://www.oracle.com/java/technologies/downloads/#java8-windows>

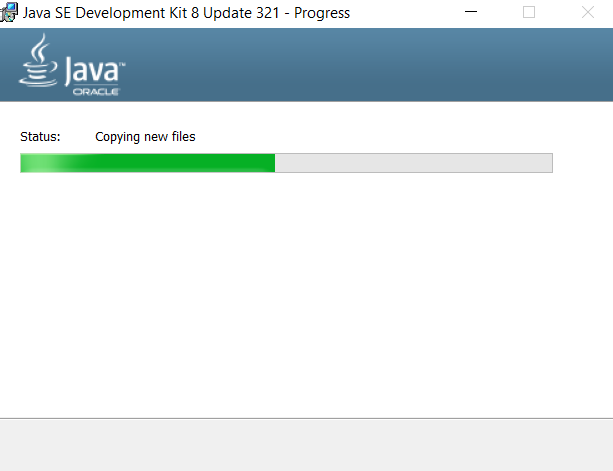


* *You will be redirected to the oracle login page. Login using an oracle account or create a new account.*

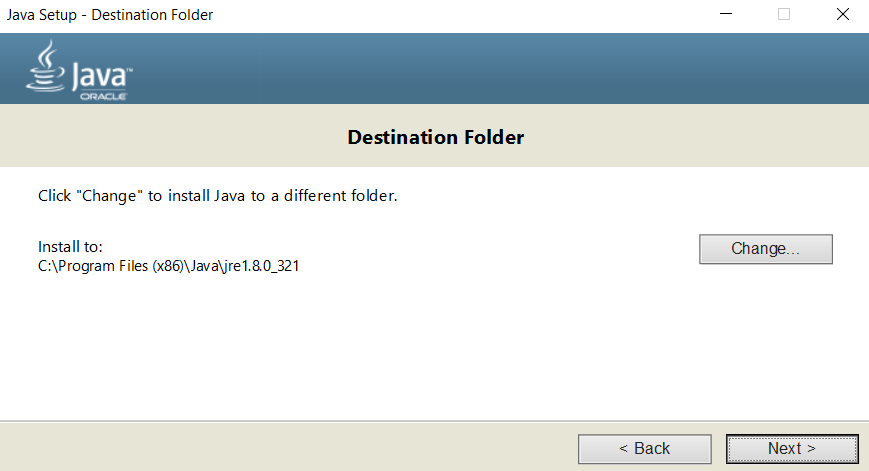


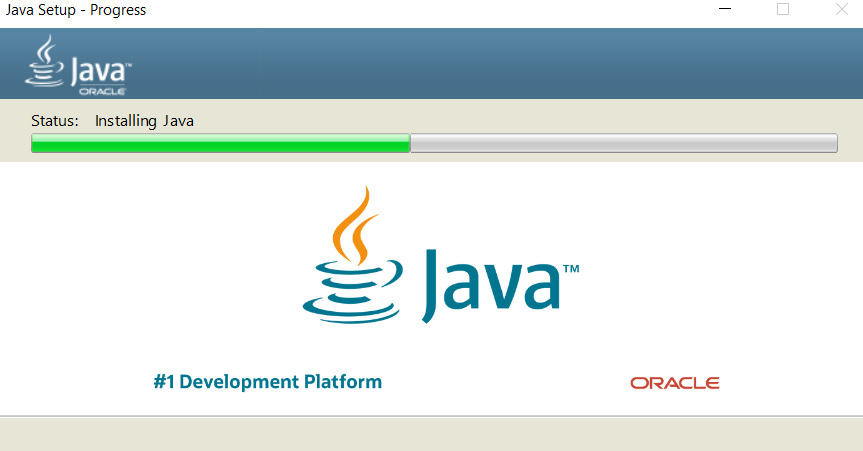
* *After logging to oracle, the download of java 8 will start.*
* *After download is complete, run the setup file and start the installation of Java 8.*

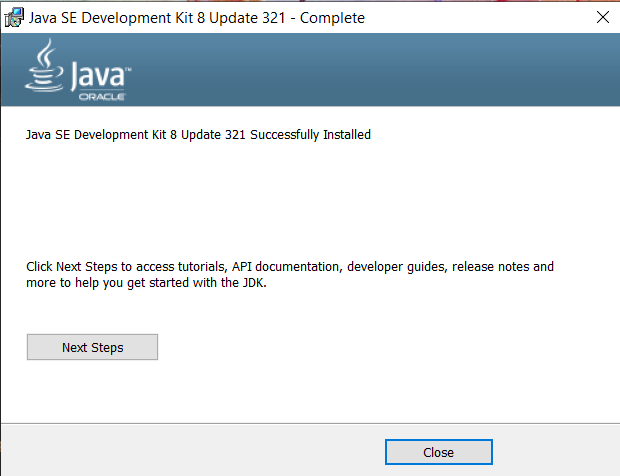




* *If needed change the* ***destination folder*** *of Java 8.*





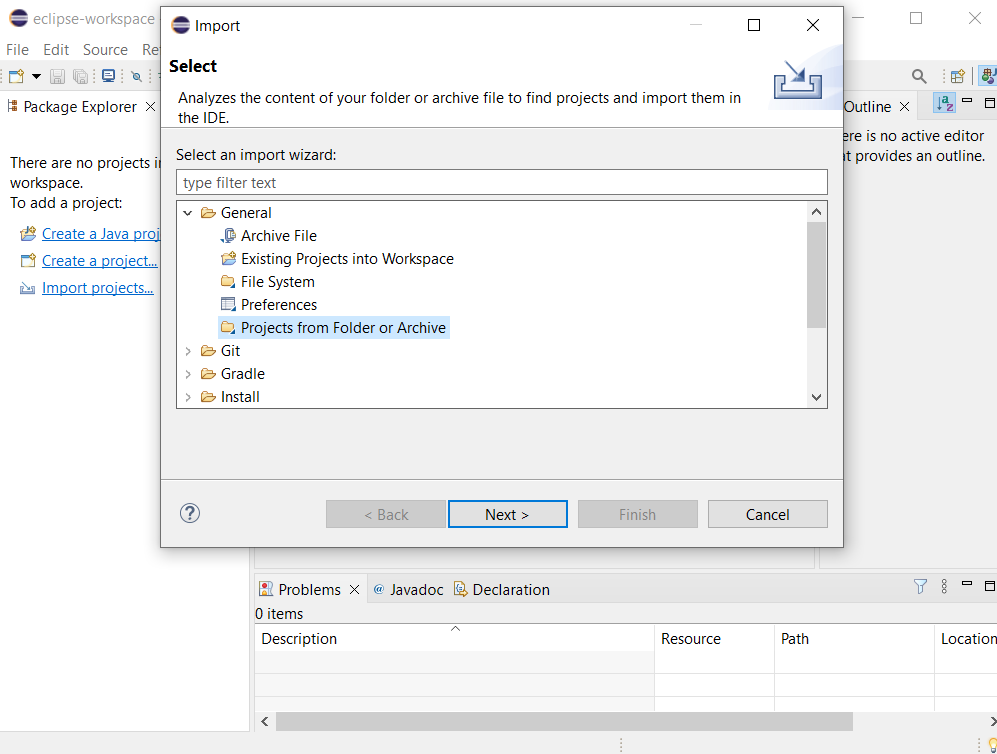


**5. Download the DIscoDNC Tool**

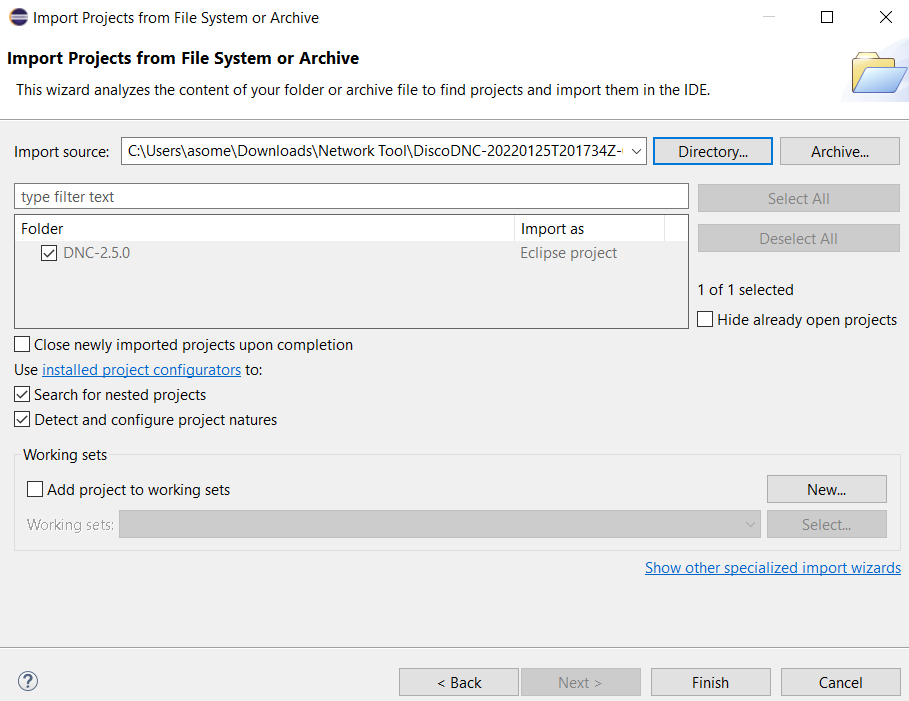
* *Download DiscoDNC from the portal link given below.*
* *Link:*
* *Move the Disco DNC to the working directory of your project.*

**6. Import the DiscoDNC folder into the Eclipse**

* *Inside Eclipse Workspace. Go to* ***File****, then select* ***Import****.*
* *Then go to* ***General*** *folder under* ***Select an import Wizard*** *and select* ***Projects from Folder or Archive*** *option.*



* *Then choose the directory where DiscoDNC folder is located and import it.*



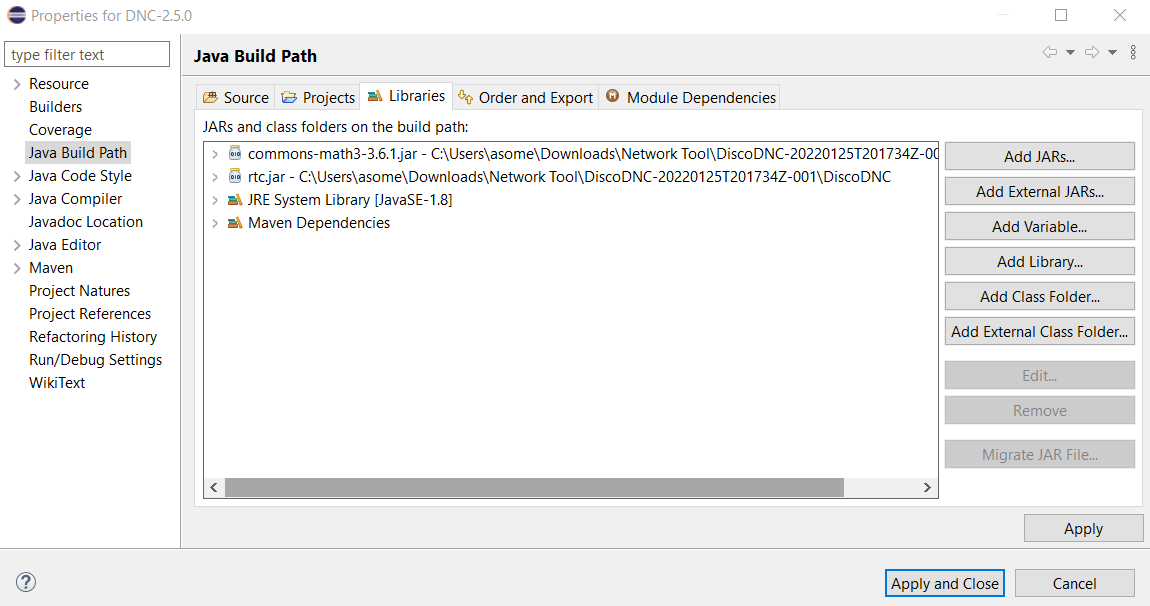
**7. Import Jar and Java 8.**

*We need Java 8 and some external libraries(jar) file for DiscoDNC to work. We start by importing them into our project workspace.*

* *Download* ***Common-maths3-3.6.1.jar*** *and* ***rtc.jar*** *from the portal and move inside project folder.*

*Link:*

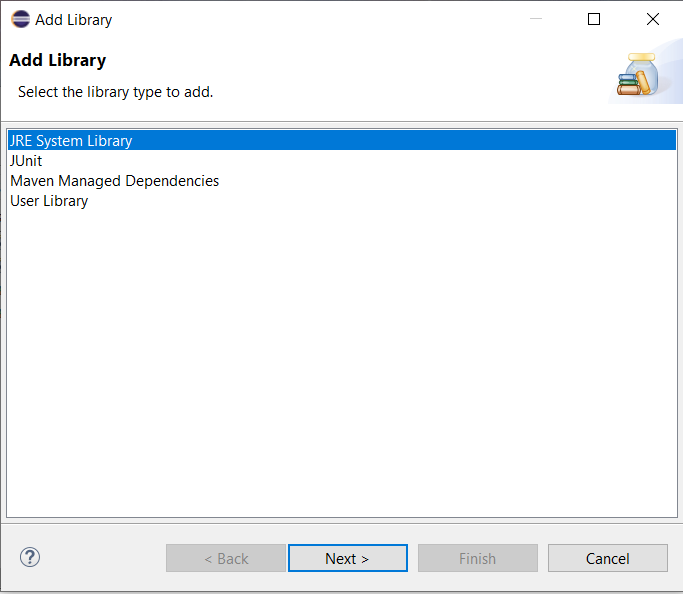
* *Right click on the project folder, Select* ***Build Path*** *and then* ***Configure Build Path****.*
* *You will be redirected into a new window.* Go to **Libraries** section from the options in the navbar.



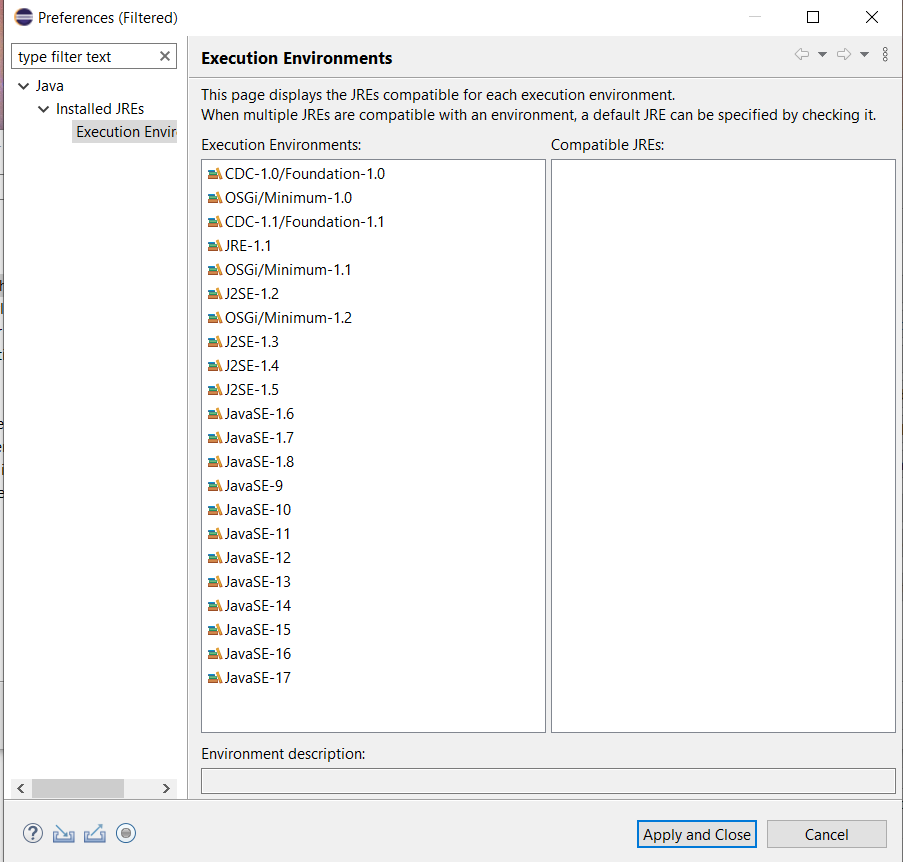
* *Select* ***Add External Jars*** *option from the right side of the window.*
* *Select the* ***Common-maths3-3.6.1.jar*** *and* ***rtc.jar*** *from the folder where it was downloaded and add it.*

**Now to add Java 8.**

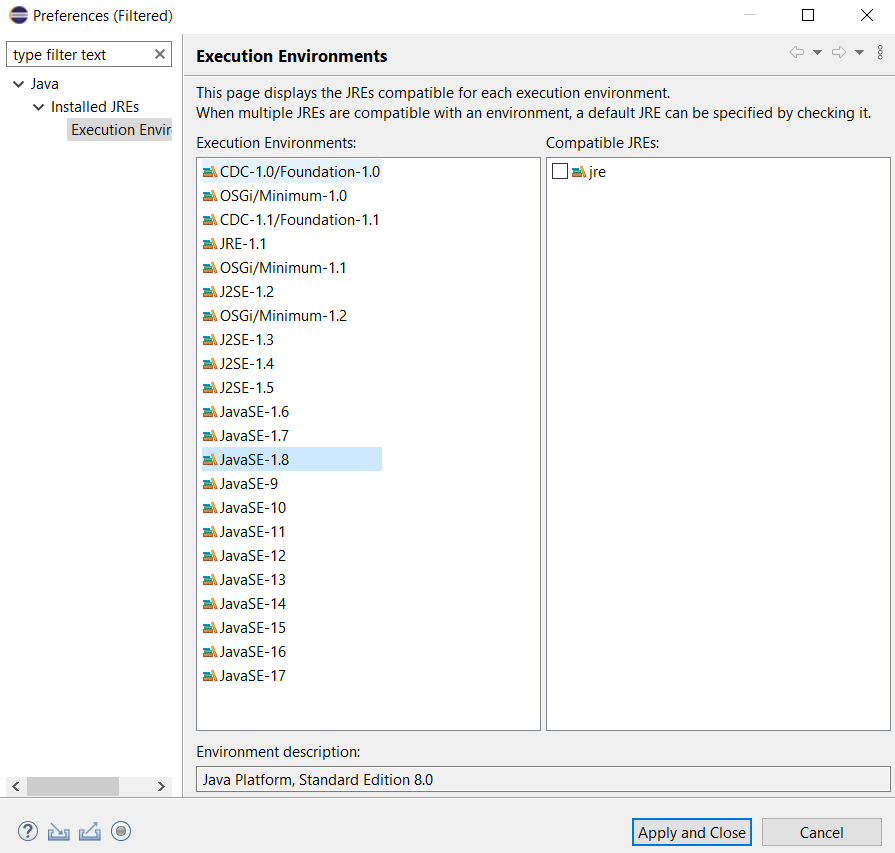
* *Select* ***Add Library*** *option from the right side of window.*
* Then select **JRE System Library** from the next window.



* *After clicking* ***Next****, select* ***Java*** *and then select* ***Installed JREs*** *from the next window****.***
* *Then select* ***Execution Environments*** *option.*



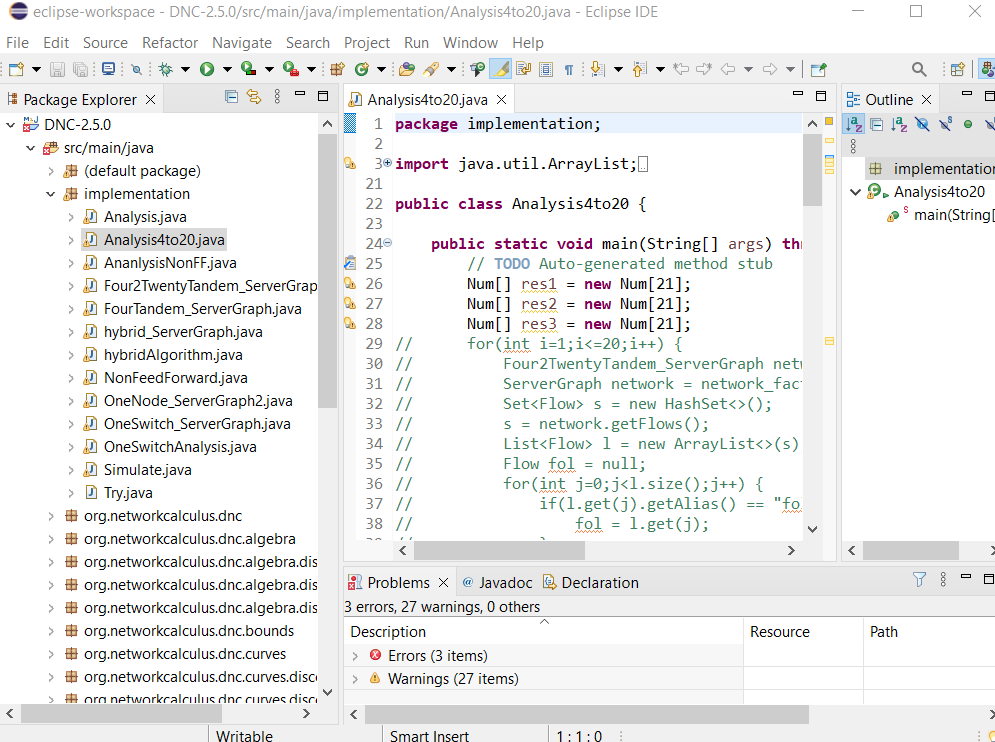
* *Then select* ***JavaSE-1.8*** *and click Apply and Close button.*



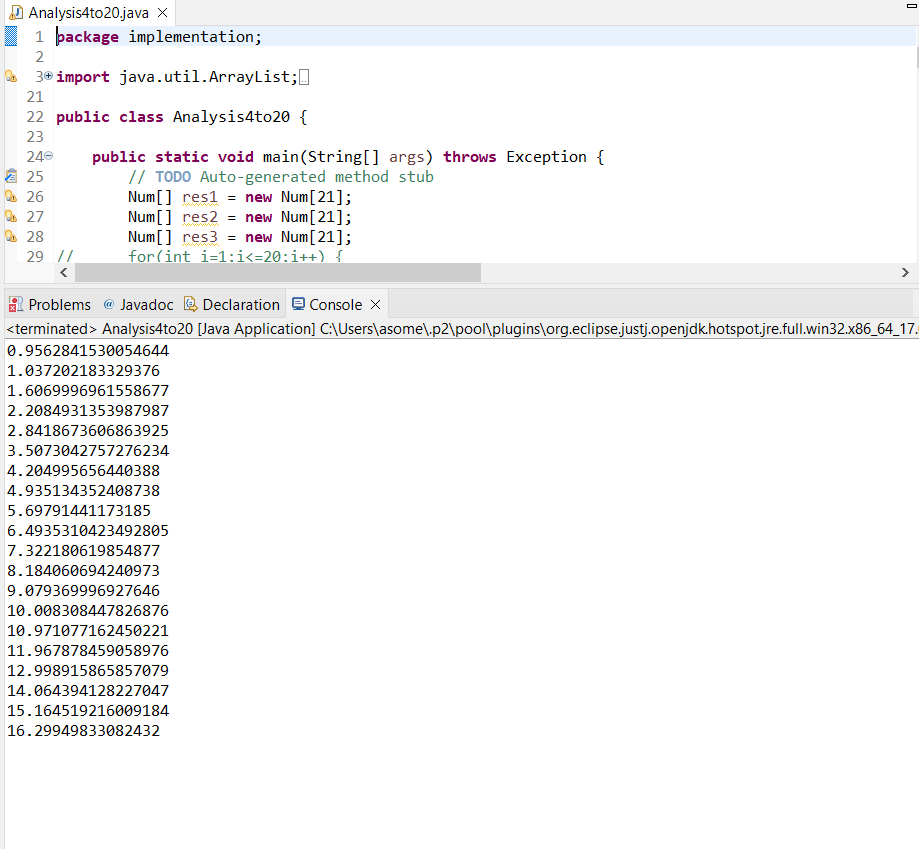
* *Click on Finish and* ***Apply and Close*** *Button*

**8. Running the Program.**

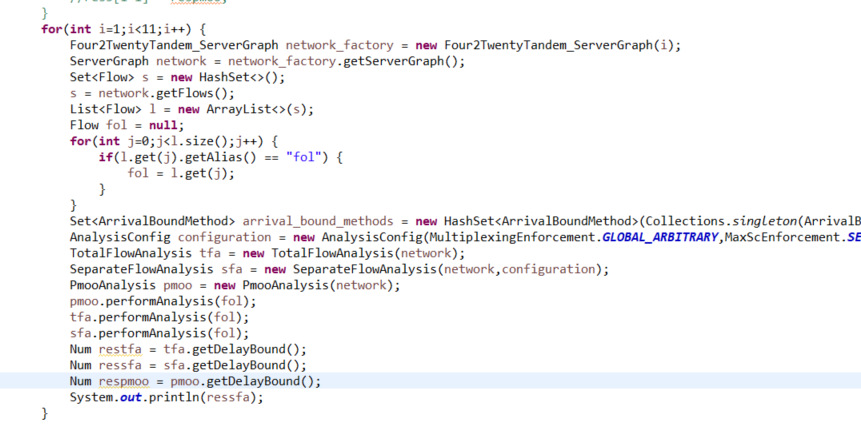
* *Inside* ***DNC-2.5.0****, go to* ***src/main/java***
* *Then inside* ***src/main/java****, go to* ***implementation*** *folder.*
* *Then inside* ***implementation****, go to* ***Analysis4to20.java***

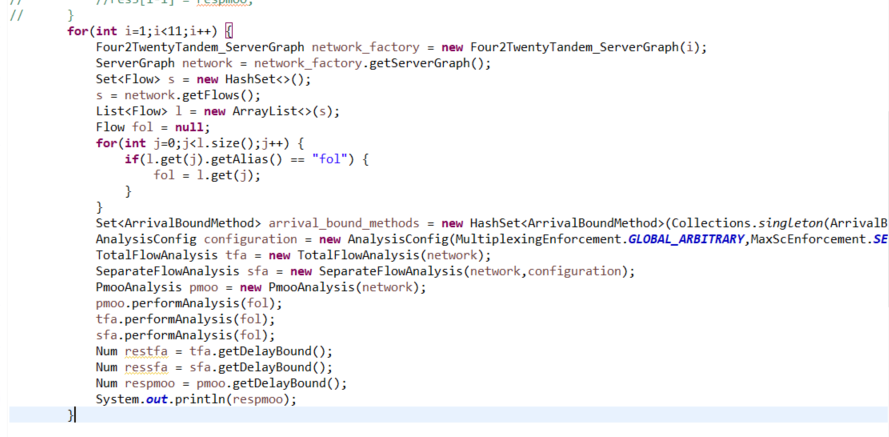


* Then run that file and record the result.



* Inside ***Analysis4to20.java*** *use* ***System.out.printIn(ressfa)*** *and* ***System.out.printIn(respmoo)*** *to get values of delay for* ***SFA FIFO*** *and* ***PMOO*** *respectively.*





* + *Now plot the values and create a graph as follows.*

