JAVA J2EE JDBC SETUP

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1. Download Eclipse IDE for Java EE Developers and extract it to a proper directory in your machine. (Recommended : Eclipse Photon R).

https://www.eclipse.org/downloads/download.php?file=/technology/epp/downloads/release/photon/R/eclipse-jee-photon-R-linux-gtk-x86_64.tar.gz

2. Download and Extract Apache Tomcat-8 Server to a proper directory in your machine

https://dlcdn.apache.org/tomcat/tomcat-8/v8.5.82/bin/apache-tomcat-8.5.82.zip

3. Download the Mysql JDBC Driver.

Go to http://dev.mysql.com/downloads/connector/j and within the dropdown select ***"Platform Independent"*** then it will show you the options to download tar.gz file or zip file.

Download zip file and extract it, within that you will find mysql-connector-XXX.jar file.

4. Launch your Eclipse IDE. Make sure that your Eclipse is set to default Java EE Perspective. From the menu bar, Window -> Perspective -> Open Perspective -> Other -> Java EE (default).

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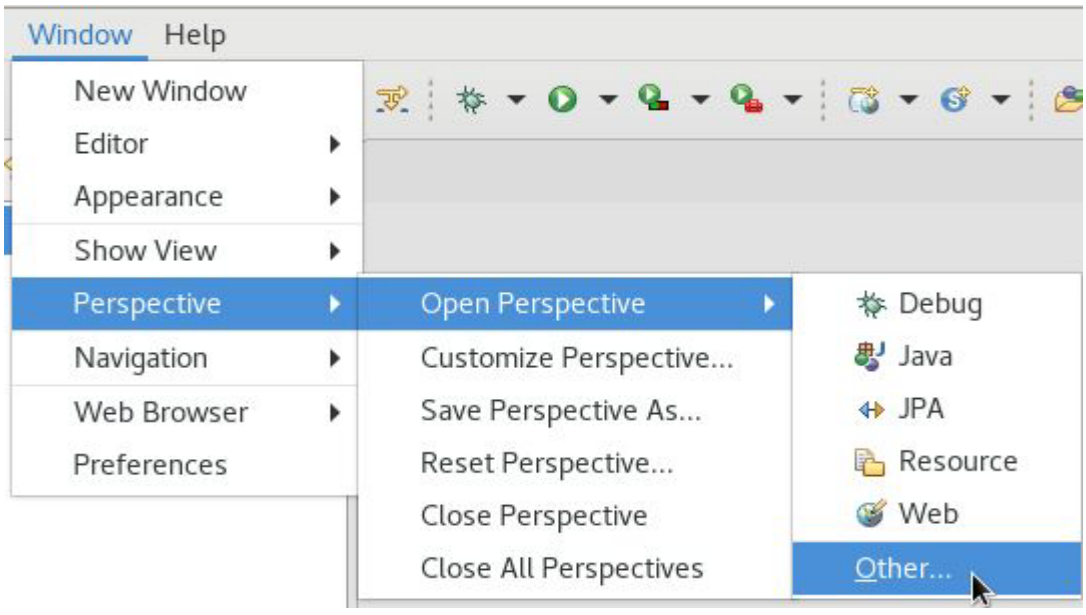
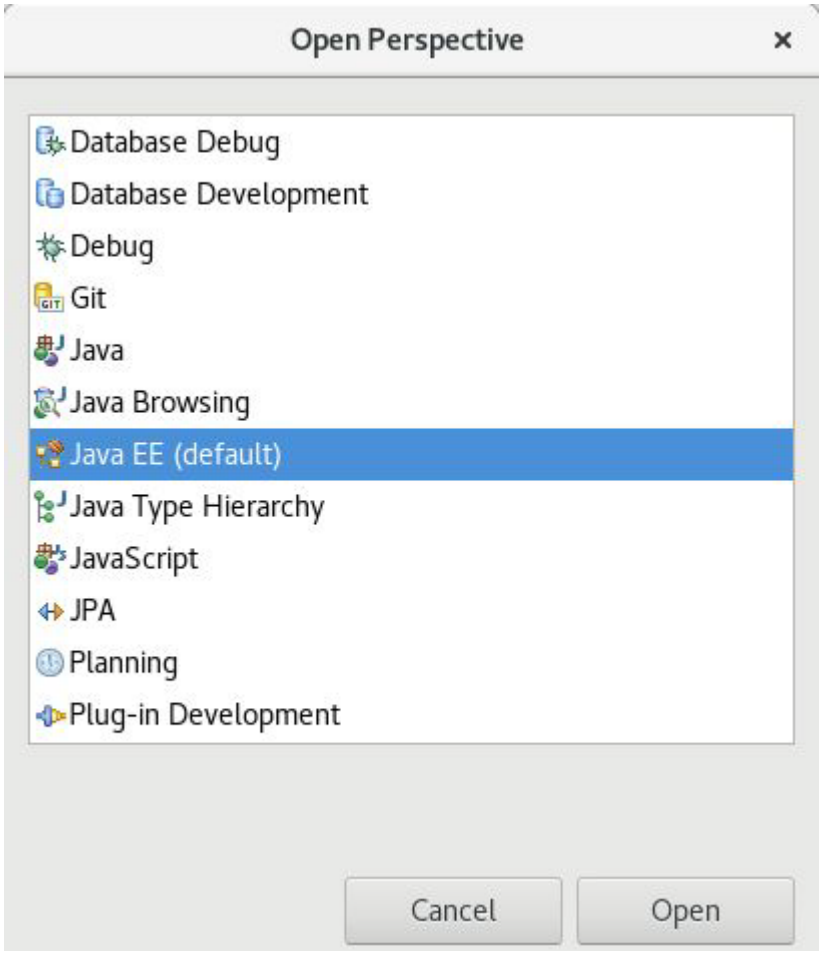
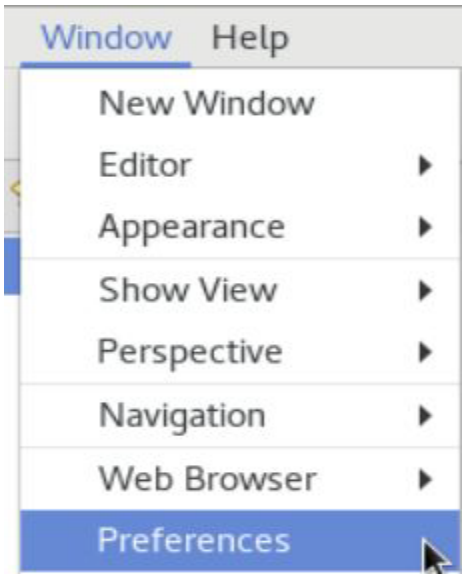
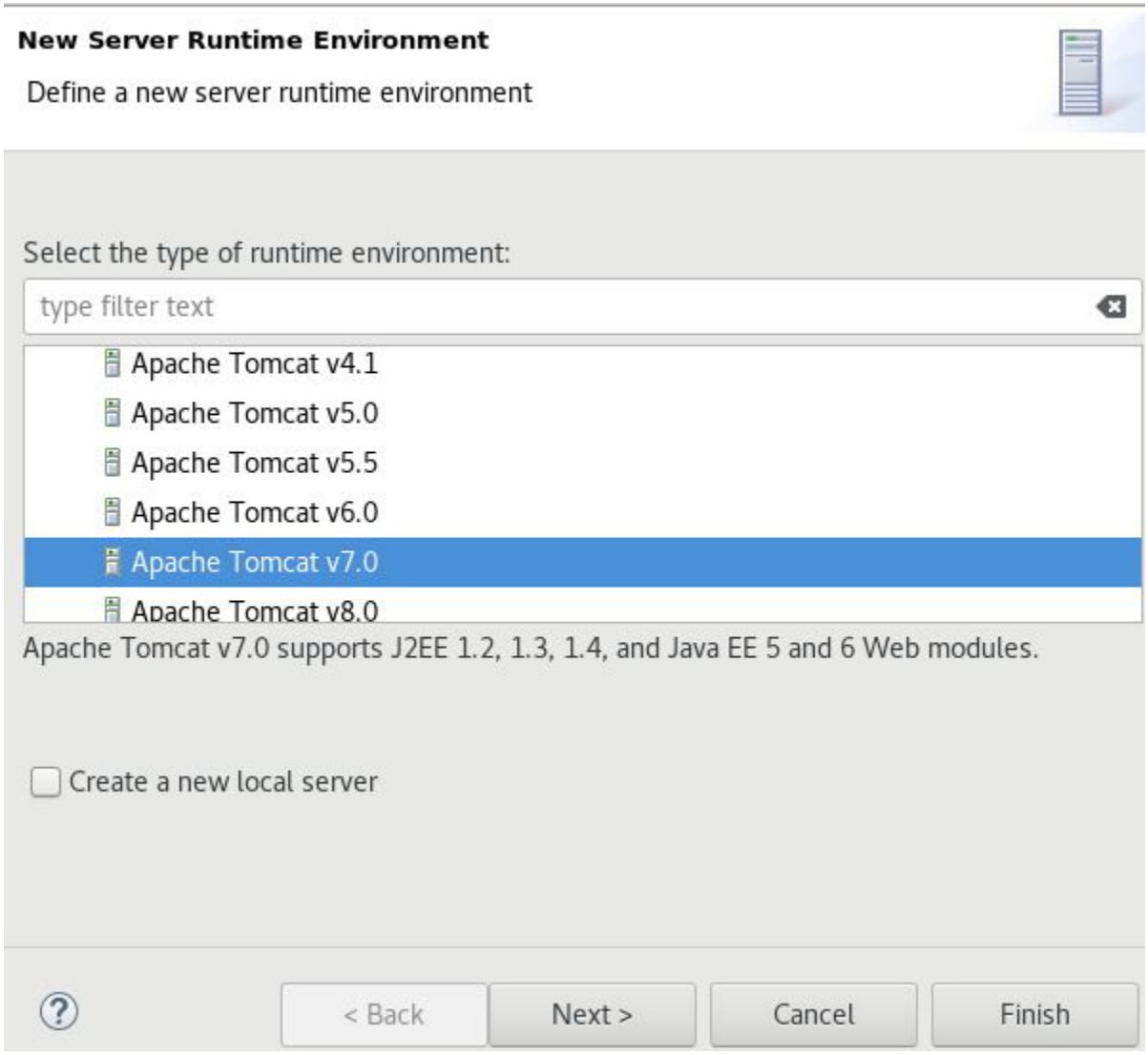




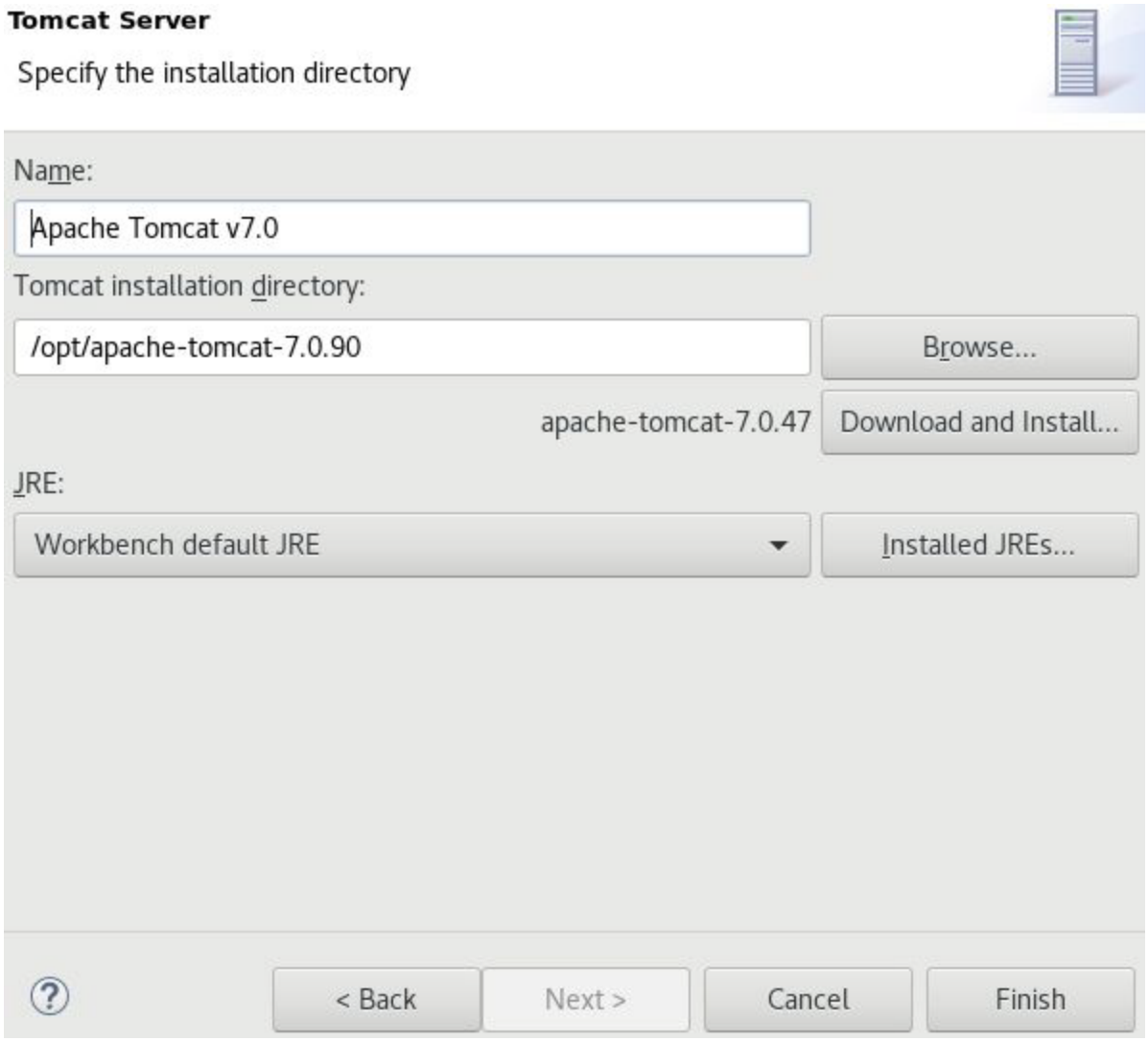
7. Add a Server to your Eclipse IDE. From menu bar, Window -> Preferences -> Server -> Runtime Environments.



Click on the Add button to add a new Apache Tomcat Server to your Development Environment.

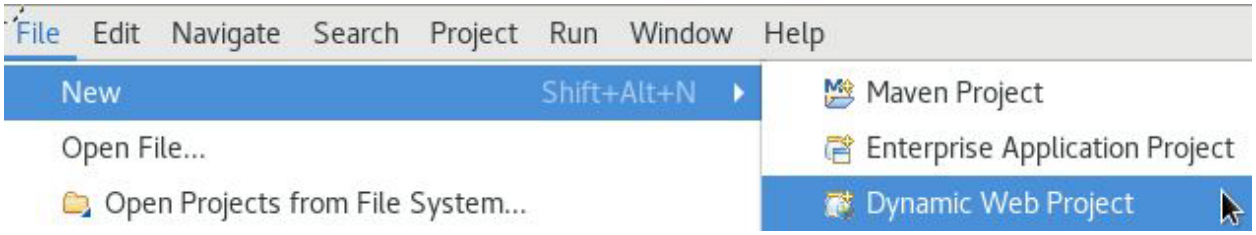


Select Apache Tomcat v7.0 and Click next

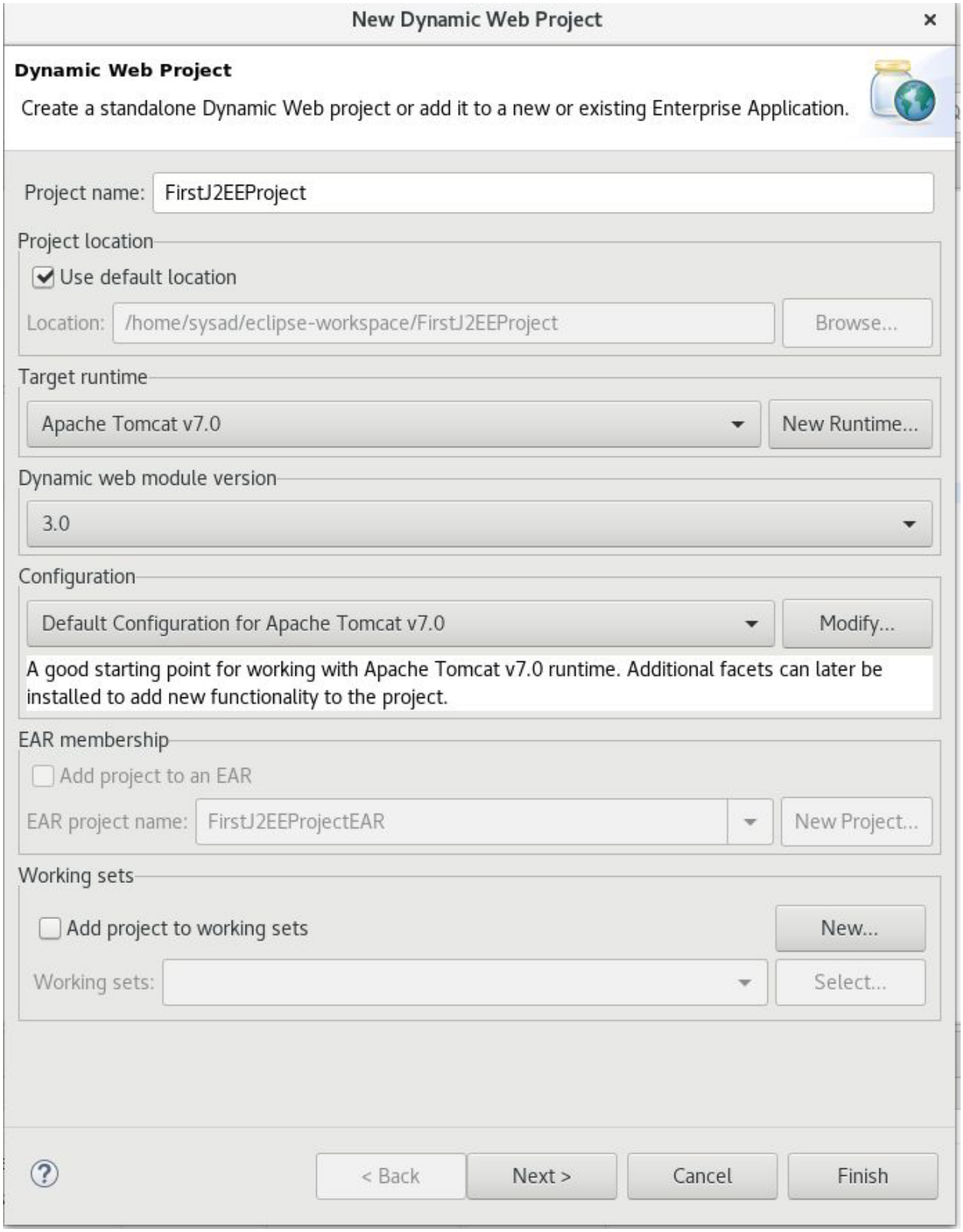


Mention the Tomcat Installation directory and hit finish.

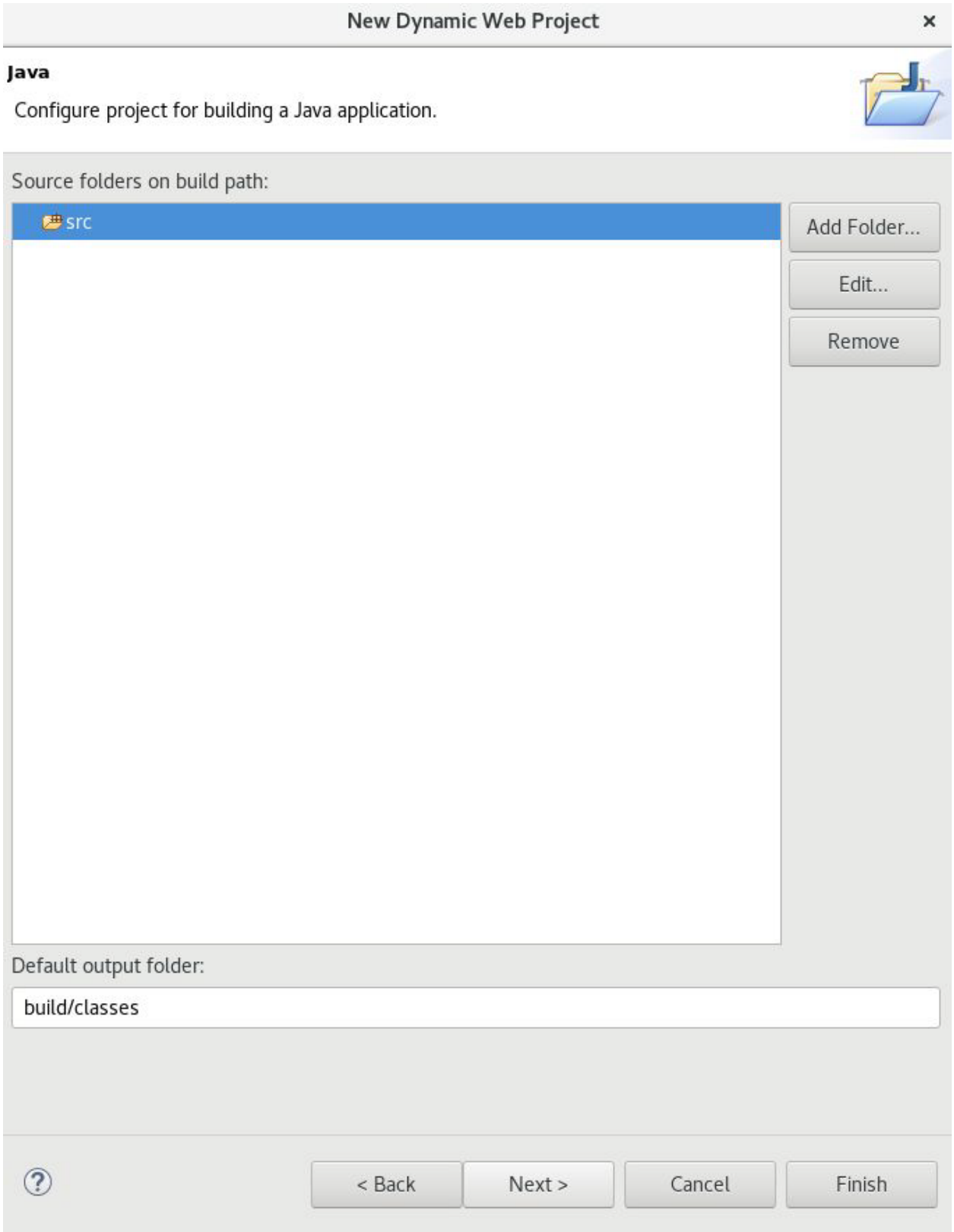
8. Create a new Dynamic Web Project, From the menu bar, File -> New -> Dynamic Web Project.



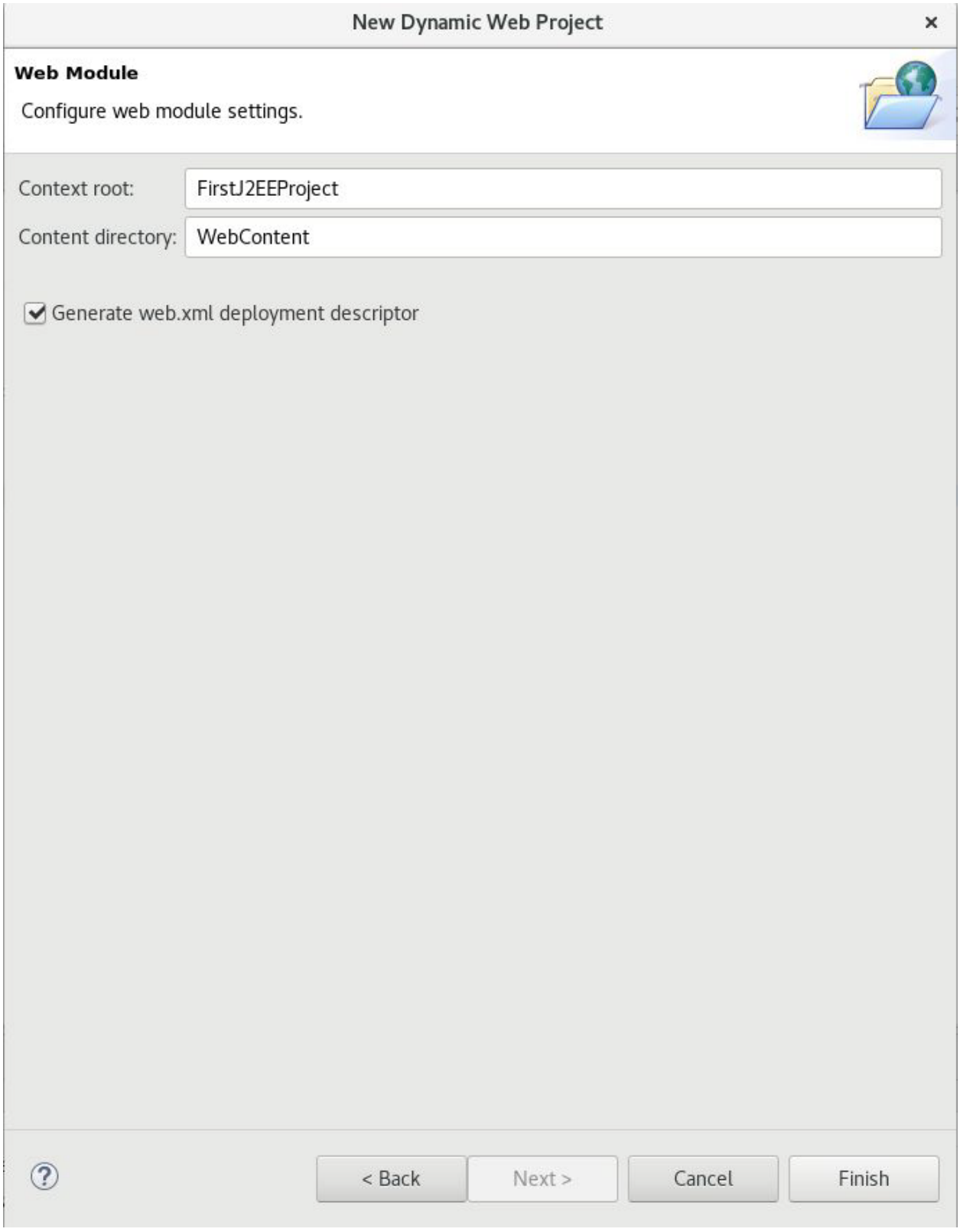
Give a name to your project. Click Next.



Click on “New Runtime” and choose the apache server in the target runtime tab.Then click Next

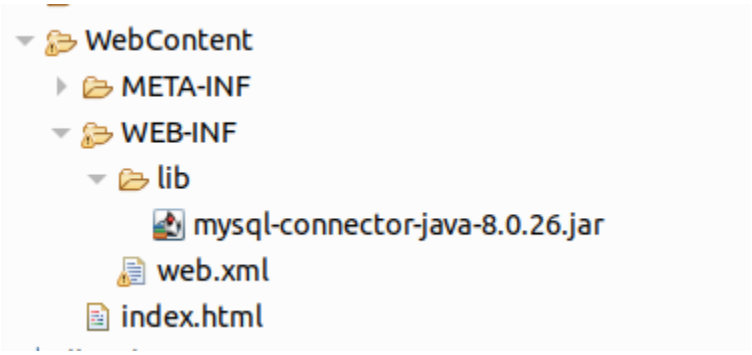


Select src as a source folder on build path and click Next

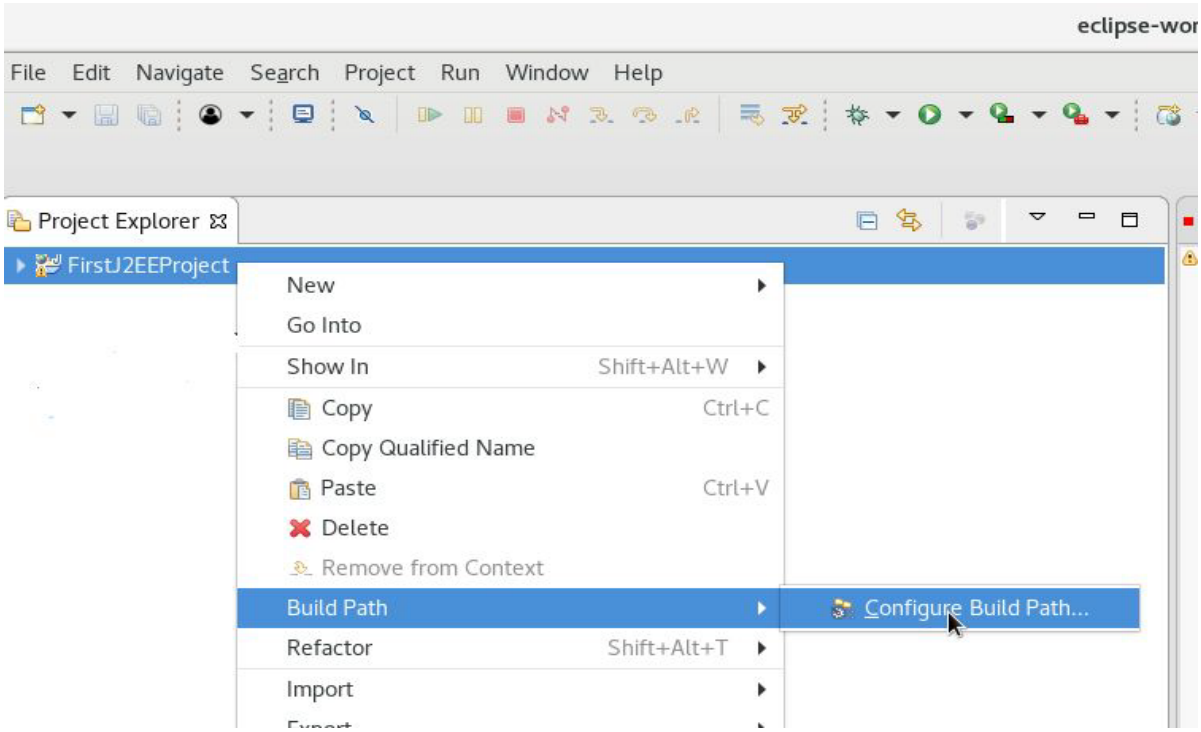


Don’t forget to check-mark the Generate web.xml deployment descriptor. Then click finish

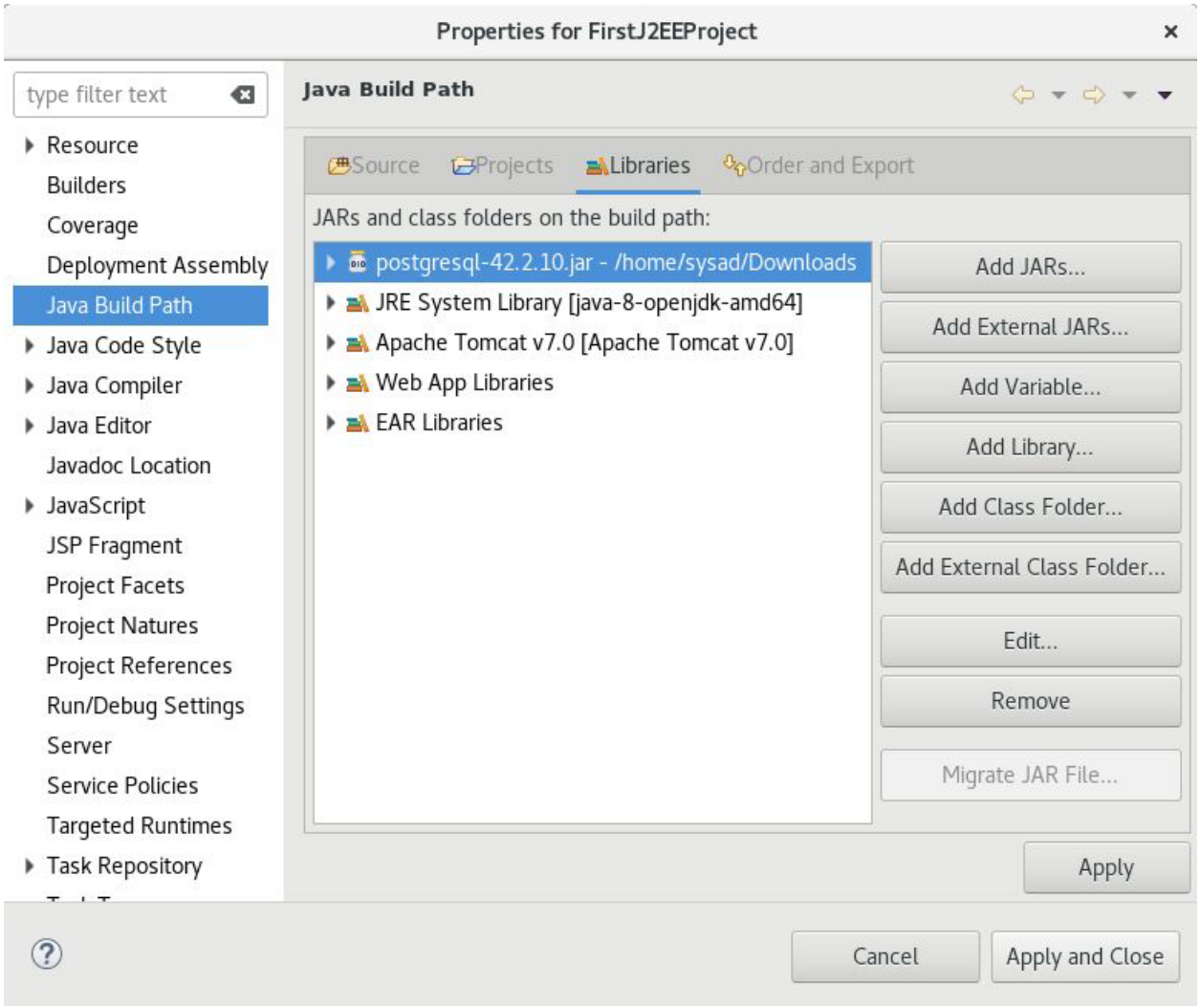
7. Copy and paste the downloaded Mysql java jdbc driver jar file in lib folder .This will be in WebContent->WEB-INF->lib



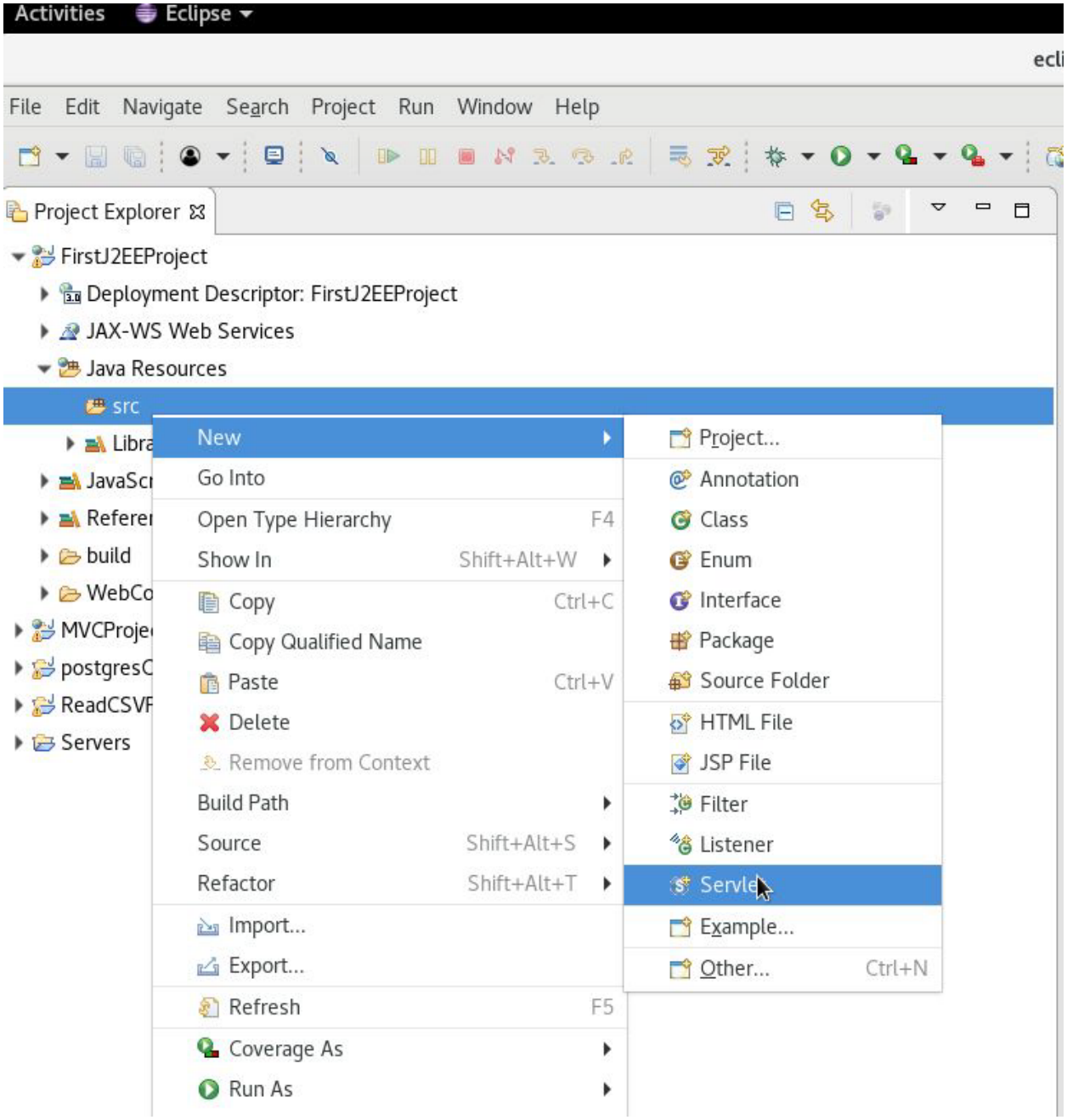
8. Right click on your project in the Project Explorer, then Build Path and Configure Build Path.



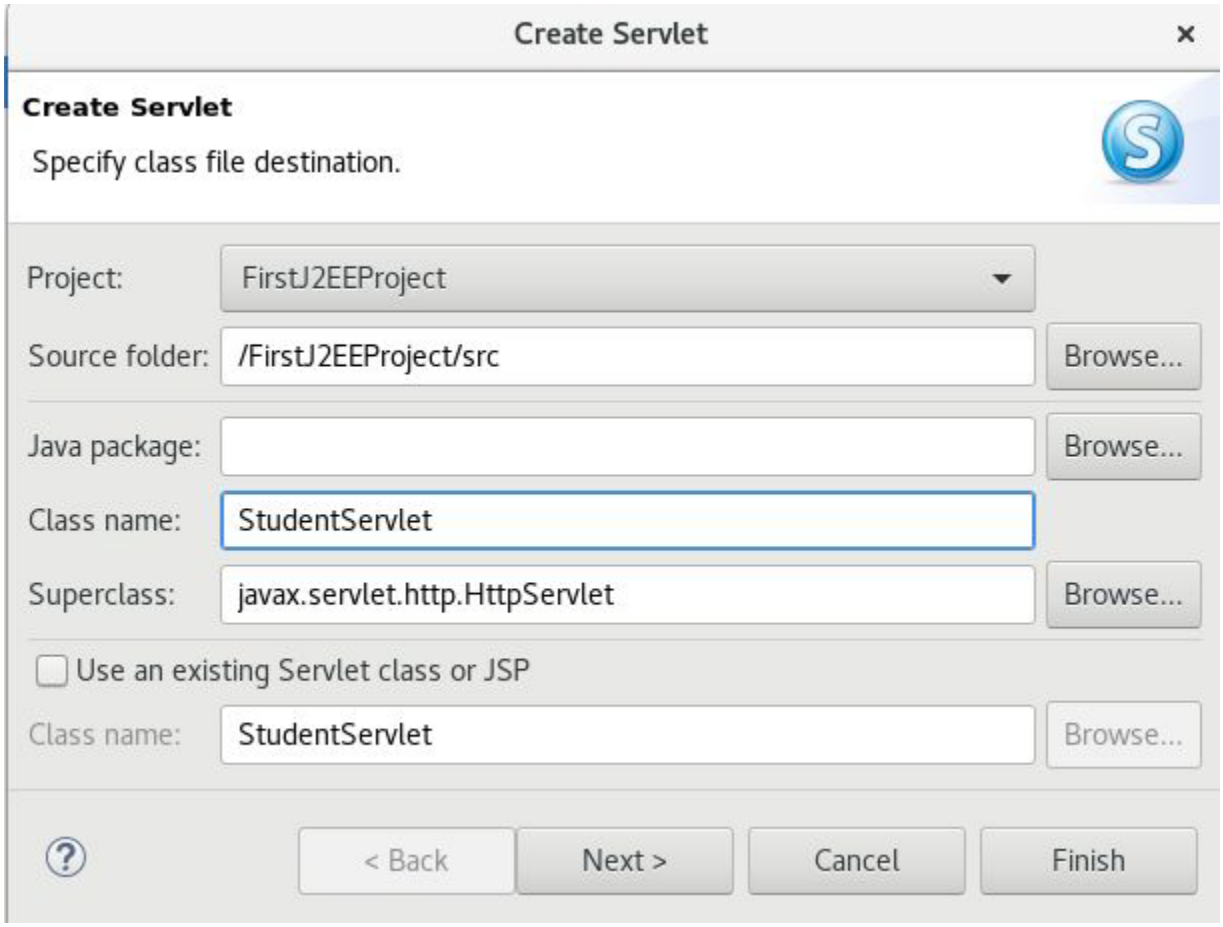
9. Goto the libraries tab --> Add external Jar -->Mysql.jar file. Click apply and close.

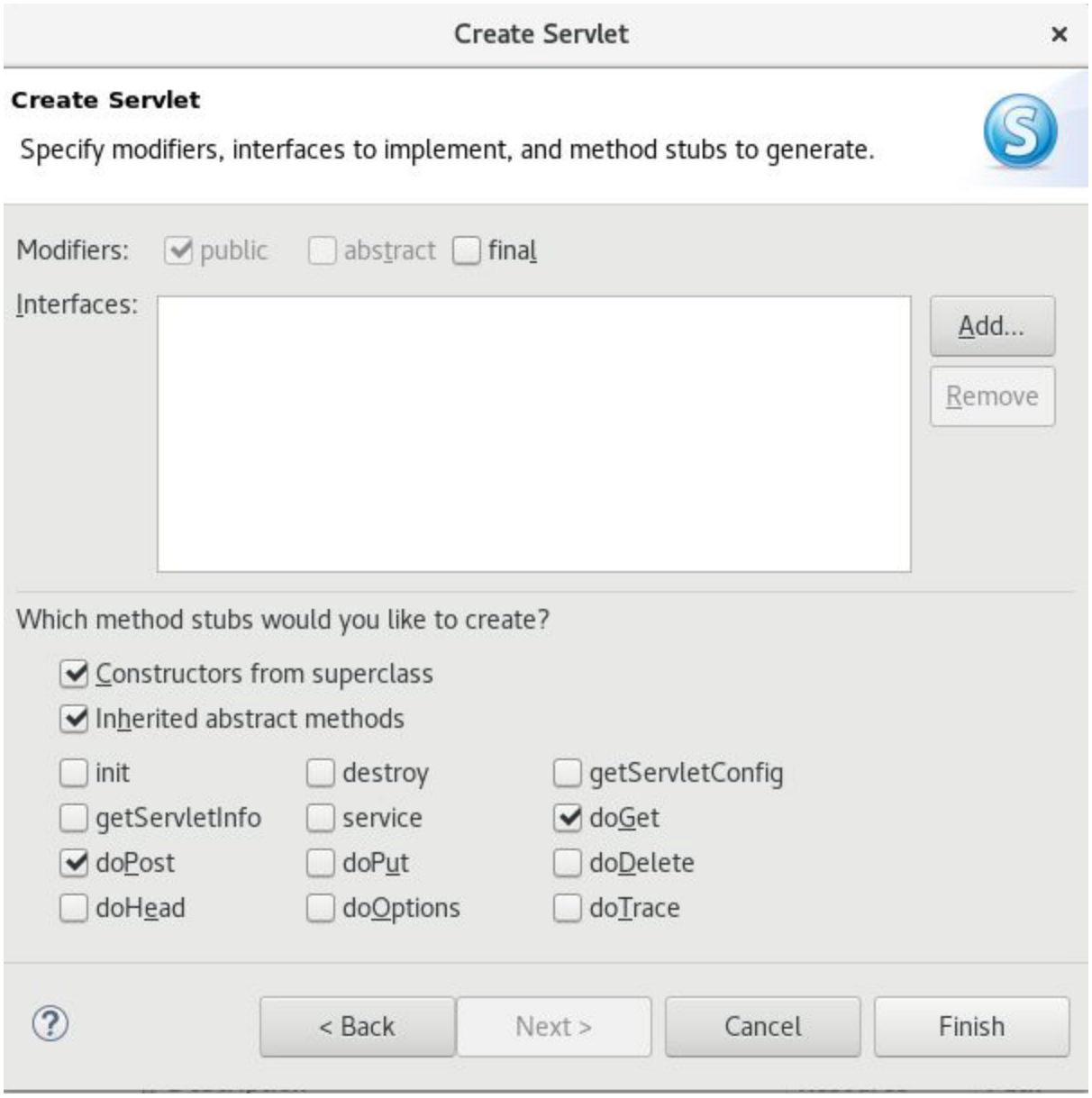


10. Right click on the project folder and then expand Java Resources.Then right click on src->New->Servlet.


Activities
Eclipse
File Edit Navigate Search Project Run Window Help
Project Explorer
FirstJ2EEProject
Deployment Descriptor: FirstJ2EEProject
JAX-WS Web Services
Java Resources
src
build
Servers
New
Go Into
Open Type Hierarchy F4
Show In Shift+Alt+W
Copy Ctrl+C
Copy Qualified Name
Paste Ctrl+V
Delete
Remove from Context
Build Path
Source Shift+Alt+S
Refactor Shift+Alt+T
Import...
Export...
Refresh F5
Coverage As
Run As
Project...
Annotation
Class
Enum
Interface
Package
Source Folder
HTML File
JSP File
Filter
Listener
Example...
Other... Ctrl+N

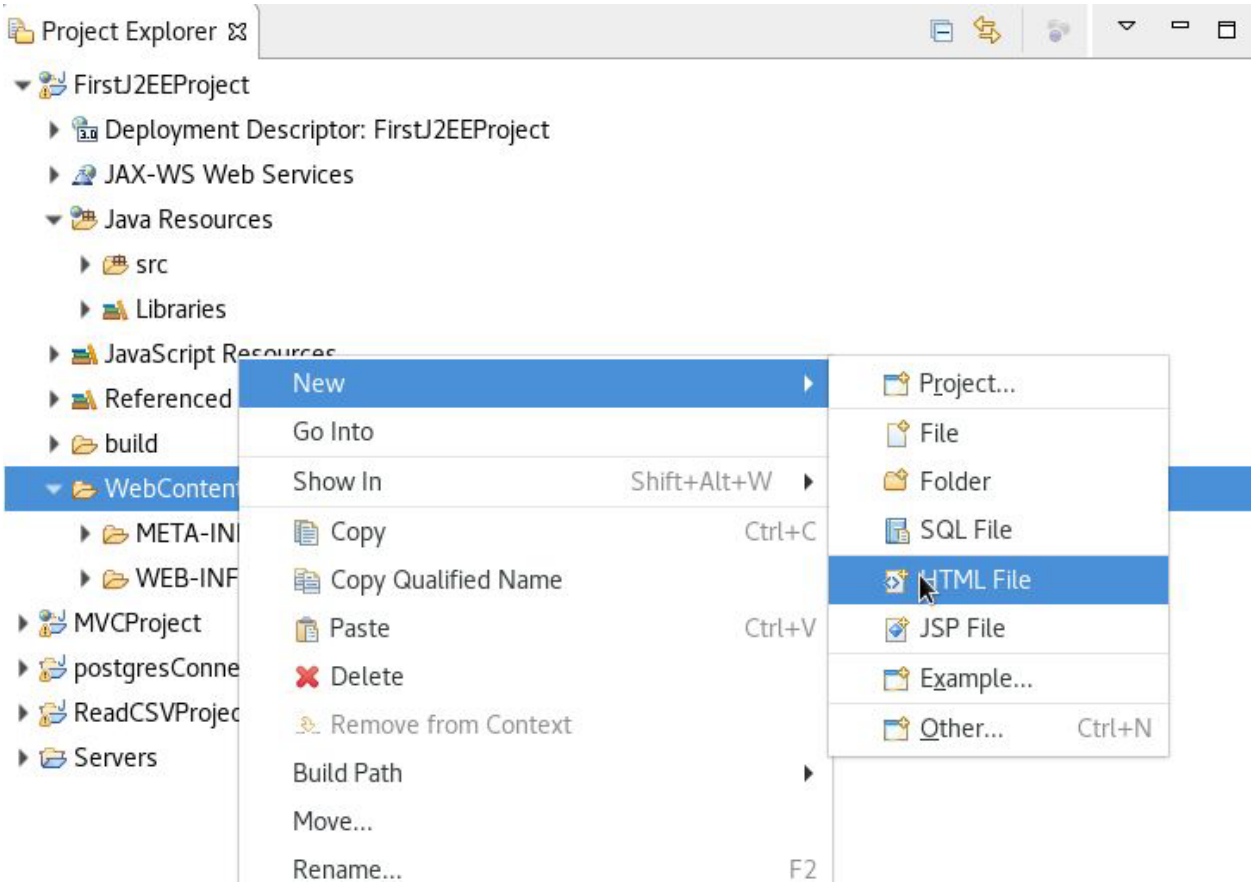
11. Give the servlet name as StudentServlet.Then click Next and Finish.

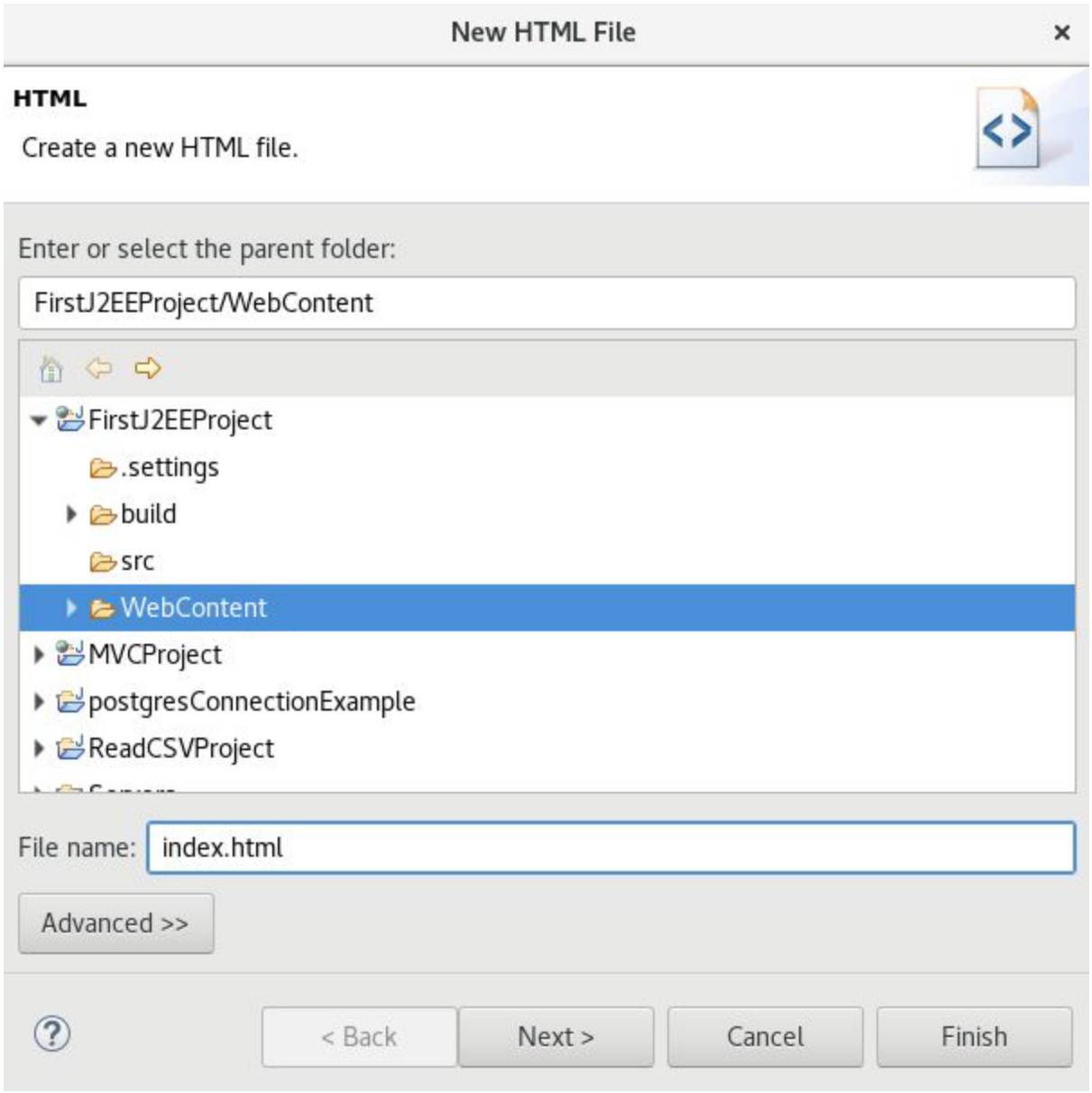




11. Copy-paste the code shared as StudentServlet.java.(First remove everything from servlet file,then do copy-paste)

12. Then Right click on WebContent folder -> New -> HTML file.Give the file name as index.html.Click Finish.


Project Explorer
FirstJ2EEProject
Deployment Descriptor: FirstJ2EEProject
JAX-WS Web Services
Java Resources
src
Libraries
JavaScript Resources
Referenced
build
WebConten
META-INI
WEB-INF
MVCProject
postgresConne
ReadCSVProjec
Servers
New
Go Into
Show In
Shift+Alt+W
Copy
Ctrl+C
Copy Qualified Name
Paste
Ctrl+V
Delete
Remove from Context
Build Path
Move...
Rename...
F2
Project...
File
Folder
SQL File
HTML File
JSP File
Example...
Other...
Ctrl+N



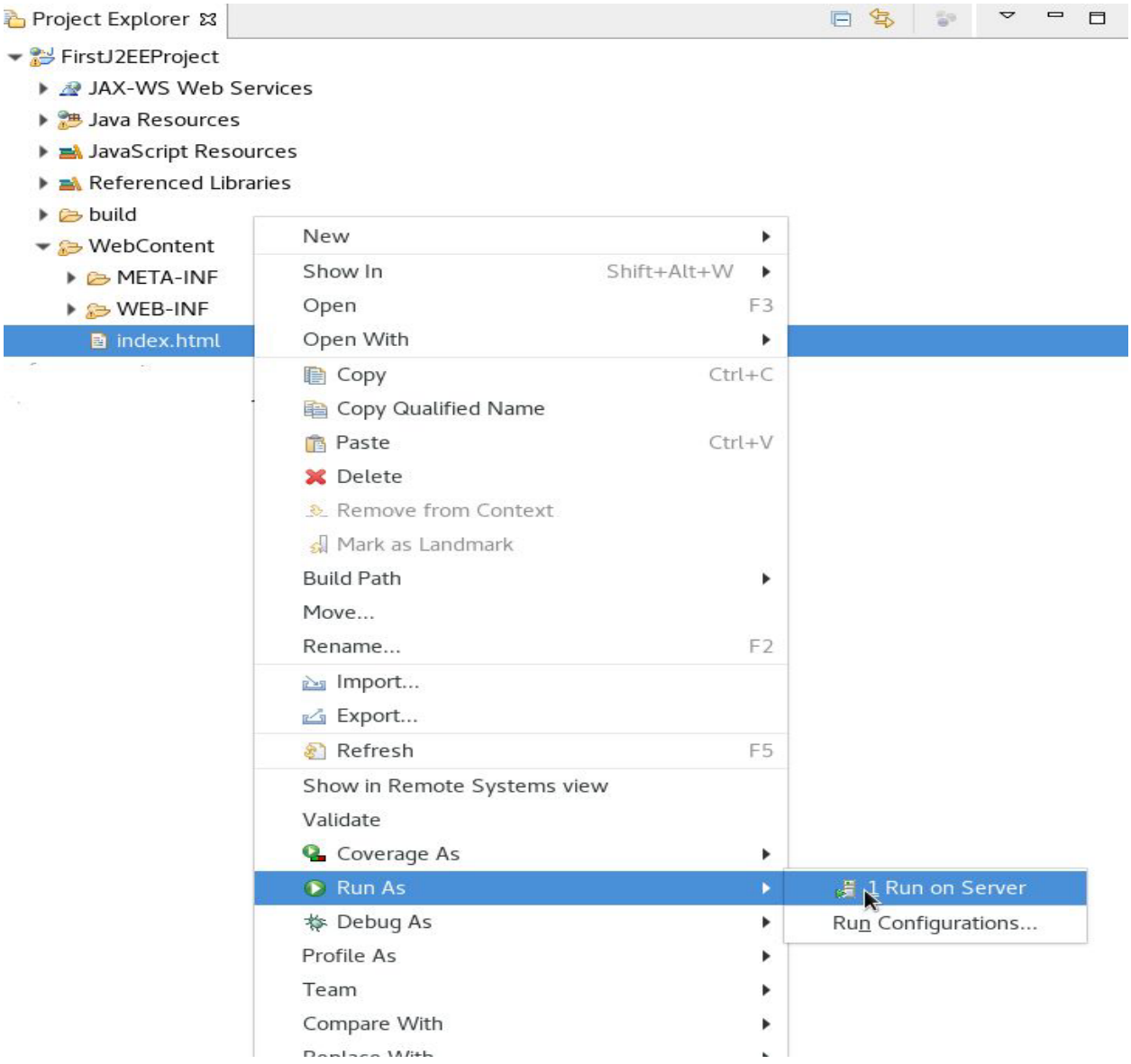
13. Copy-paste the code shared as index.html.(First remove everything from index.html file,then do copy paste)

14. Now go to web.xml present in WebContent->WEB - INF.
Copy -paste the below code.This is known as servlet mapping.
This file can be opened as a text editor by right clicking and open with option.

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app>
<welcome-file-list>
<welcome-file>index.html</welcome-file>
</welcome-file-list>
```

<servlet>
<servlet-name>StudentServlet</servlet-name>
<servlet-class>StudentServlet</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>StudentServlet</servlet-name>
<url-pattern>/StudentServlet</url-pattern>
</servlet-mapping>
</web-app>

15. Right click on index.html -> Run As -> Run On Server.Then click Finish.



16. You will get the index.html running on the browser.

17. Enter the id as 30772.

You should see the output as :