EN-NODE JAVA SOURCE CODE INSTALLATION GUIDE

Version: 2.0

April 5, 2010

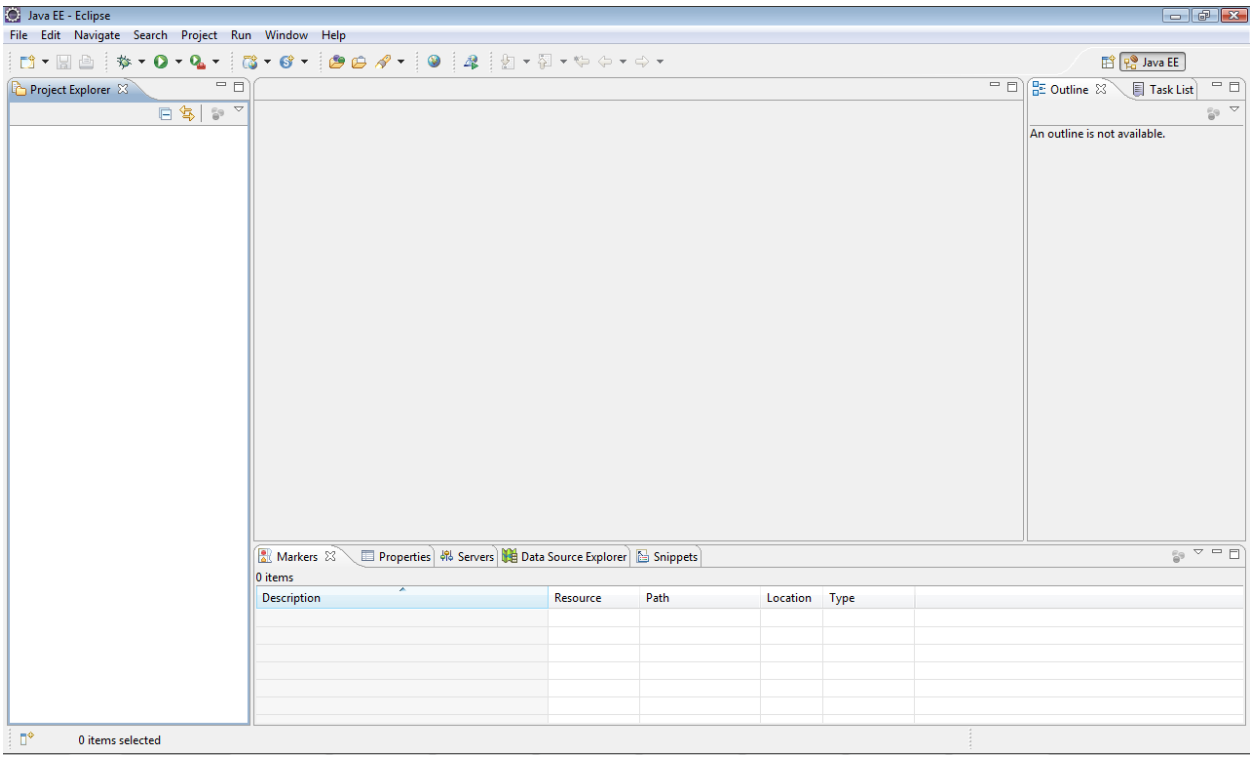
Revision History

Version	Date	Created By	Reviewed By	Description
2.0	4/5/2010	Charlie Zhang		Initial release of EN-Node2

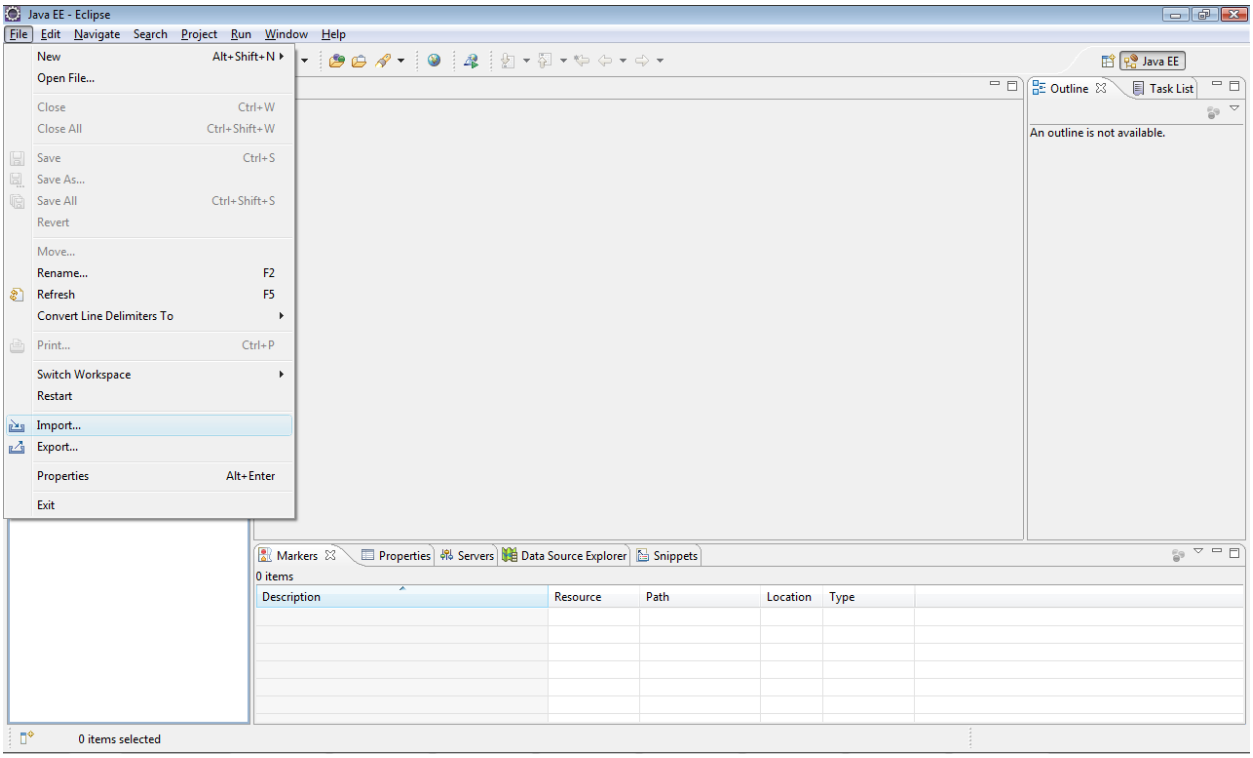
1. Check out the source code from google project, install JDK and Tomcat (For example here we are using jdk1.4 and tomcat 5.0.28) before go over. The source code can be compiled in 1.4/5.0/6.0 JRE environment, but we strongly recommend developing under 1.4/5.0 JRE environment.
2. Create a new Eclipse Workspace, for example: d:\enNode2, copy all source code to this folder There are several folders and one file:

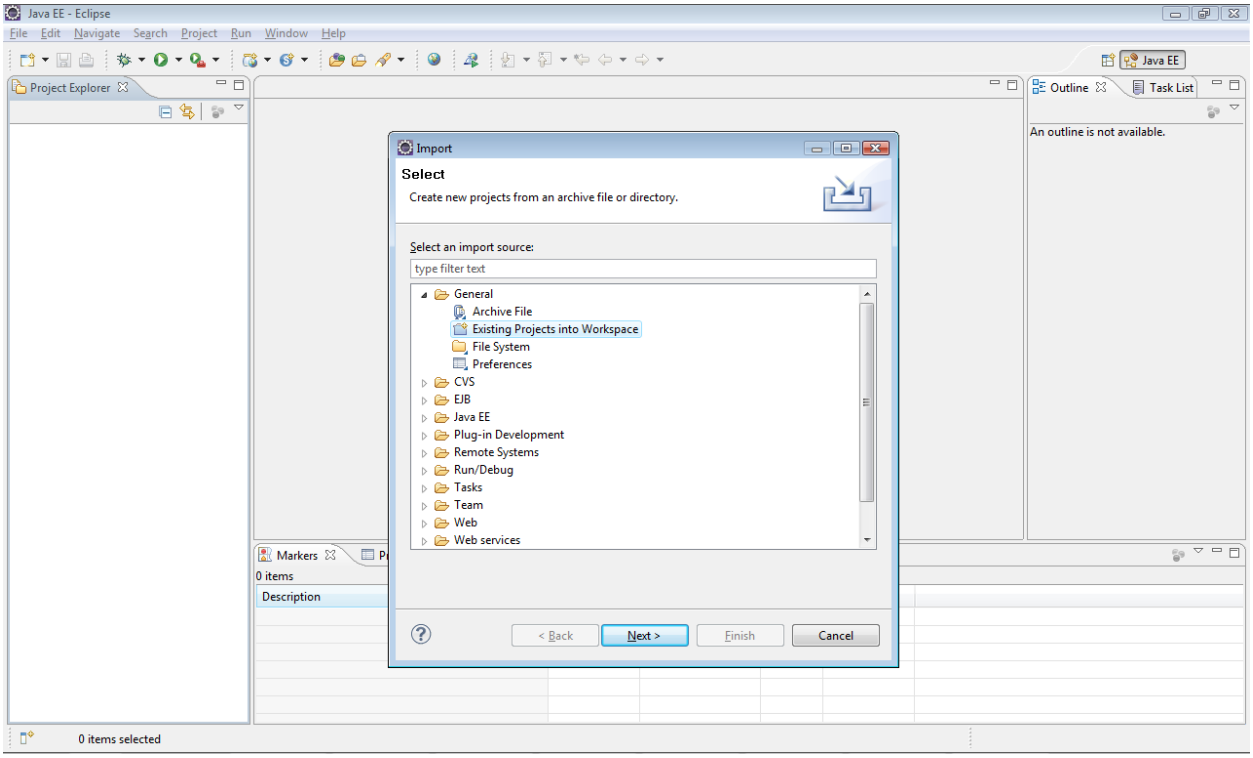
   Node
   Node.Administration
   Node.Client
   Node.Task
   Node.WebServices
   Node_v2.0
   NodeJava.userlibraries

3. Open Eclipse(Here we are using Eclipse, you can download http://www.eclipse.org/downloads/download.php?file=/technology/epp/downloads/release/galileo/SR2/eclipse-jee-galileo-SR2-win32.zip) from new Workspace like below:



4. Import the existing project:


Java EE - Eclipse
File Edit Navigate Search Project Run Window Help
New Alt+Shift+N
Open File...
Close Ctrl+W
Close All Ctrl+Shift+W
Save Ctrl+S
Save As...
Save All Ctrl+Shift+S
Revert
Move...
Rename... F2
Refresh F5
Convert Line Delimiters To
Print... Ctrl+P
Switch Workspace
Restart
Import...
Export...
Properties Alt+Enter
Exit
Java EE
Outline
Task List
An outline is not available.
Markers
Properties
Servers
Data Source Explorer
Snippets
0 items
Description
Resource
Path
Location
Type
0 items selected


Java EE - Eclipse
File Edit Navigate Search Project Run Window Help
Java EE
Project Explorer
Outline
Task List
An outline is not available.
Import
Select
Create new projects from an archive file or directory.
Select an import source:
type filter text
General
Archive File
Existing Projects into Workspace
File System
Preferences
CVS
EJB
Java EE
Plug-in Development
Remote Systems
Run/Debug
Tasks
Team
Web
Web services
< Back
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Finish
Cancel
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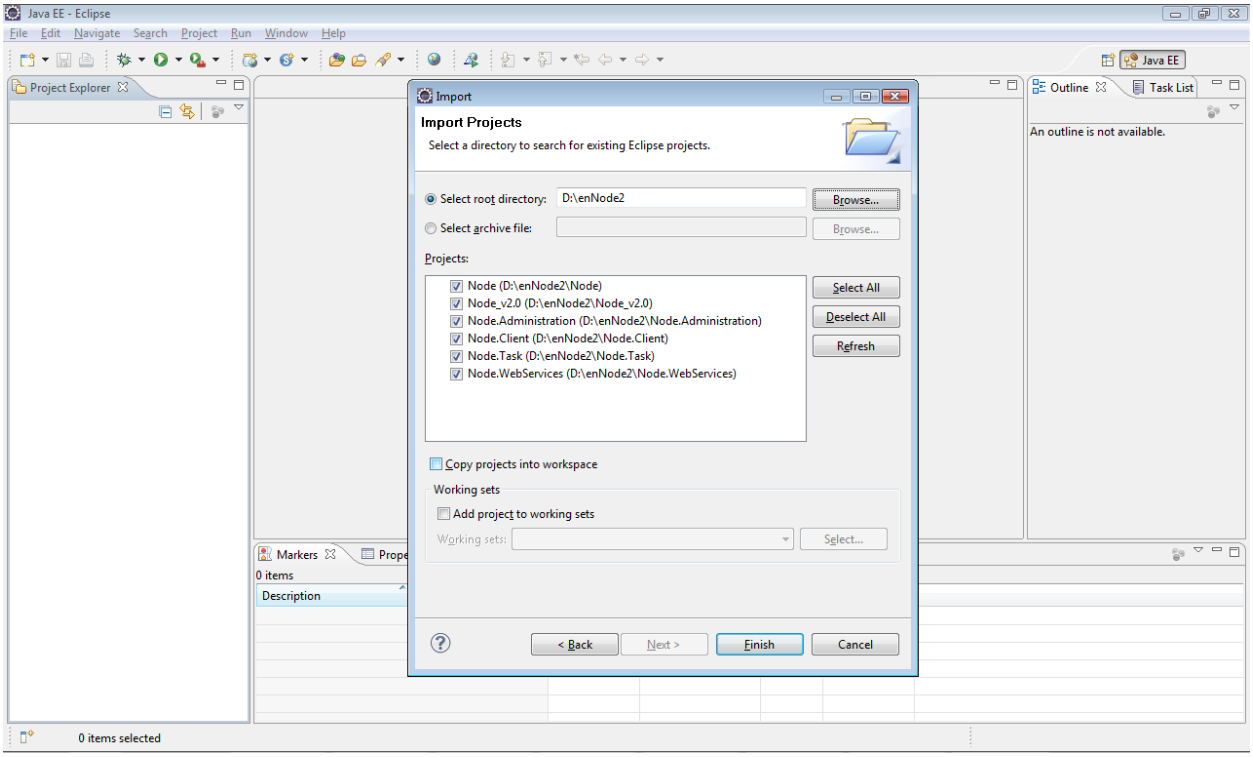
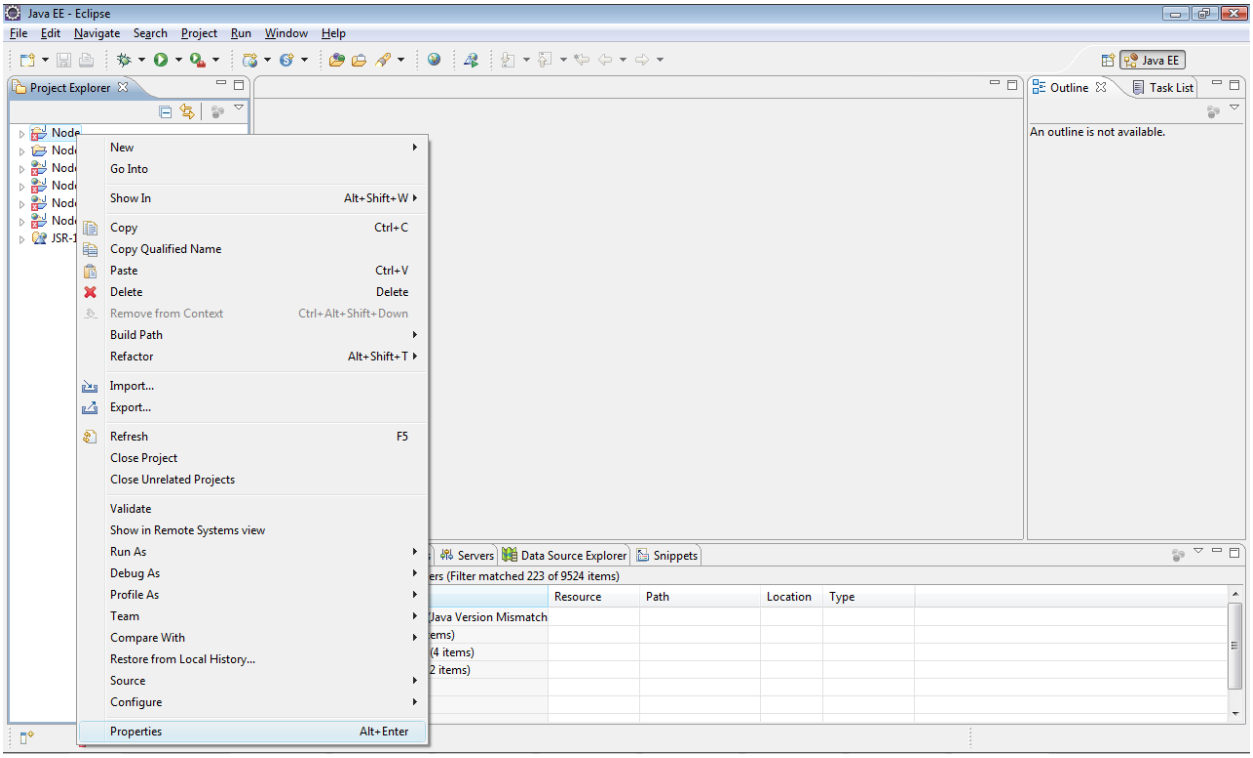
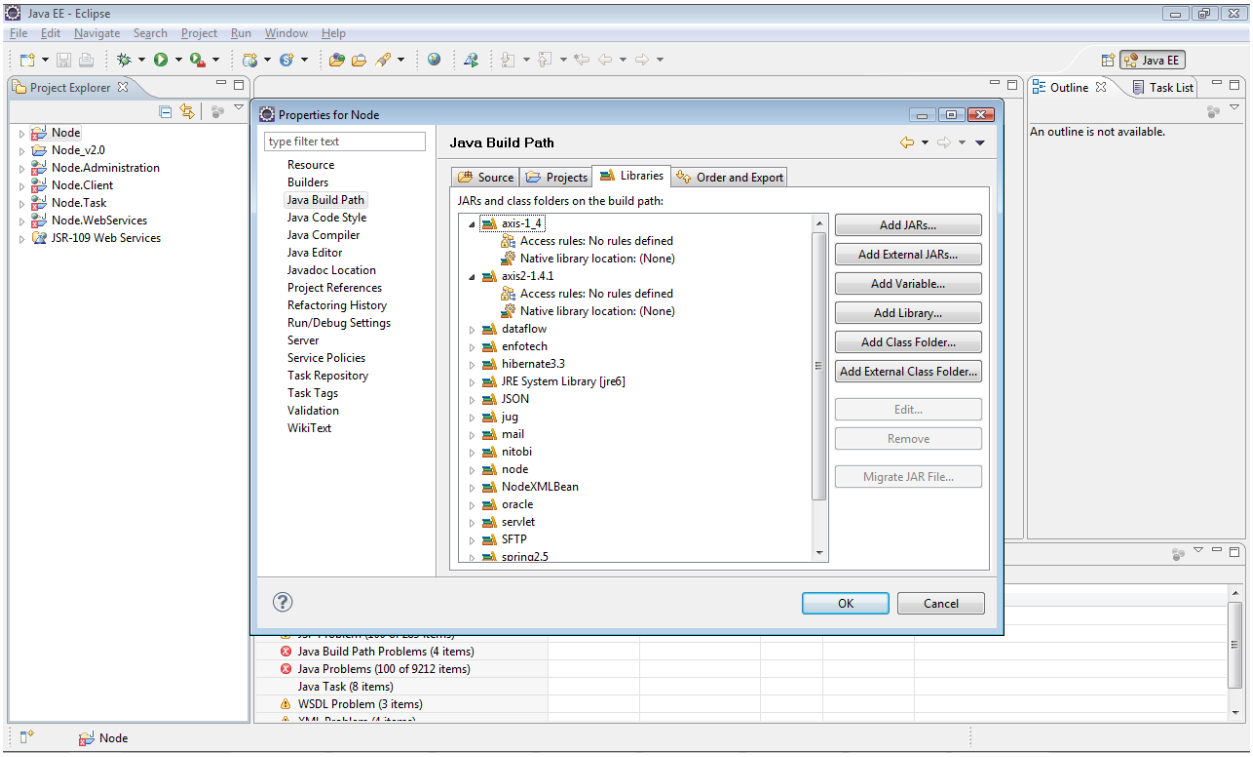
0 items
Description
0 items selected



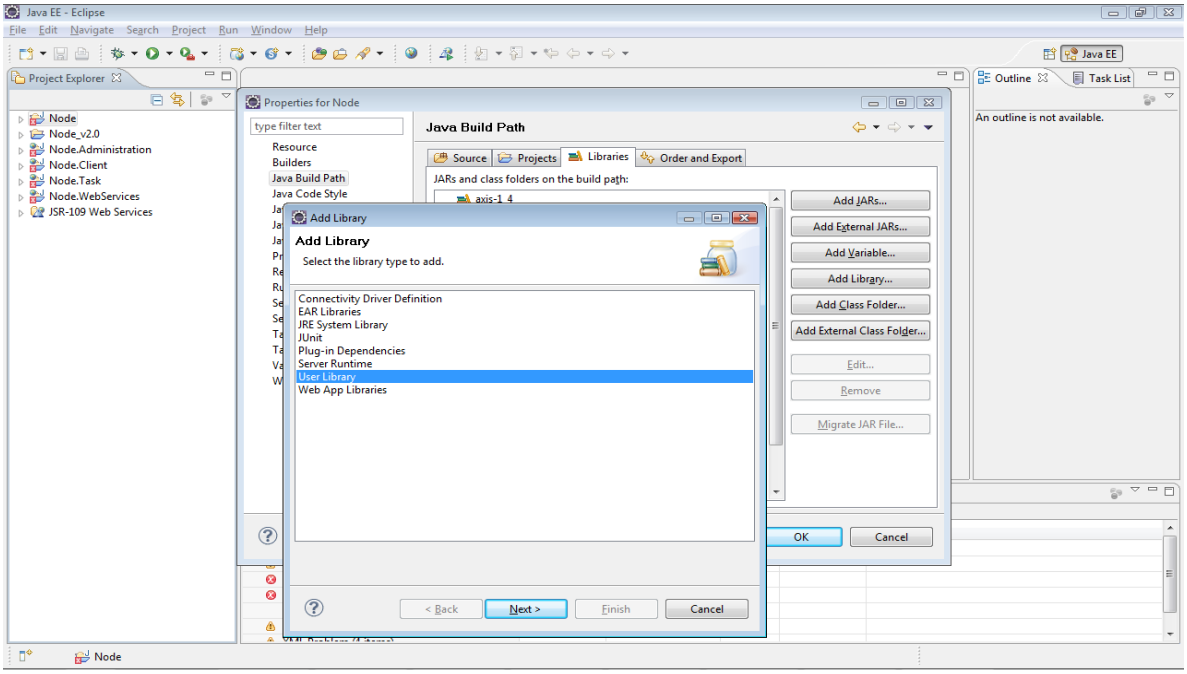
5. After import projects, you will get errors because the library path is not correct. You need to import library. Move mouse to Node Project and click right button, you will see below menu, select properties.



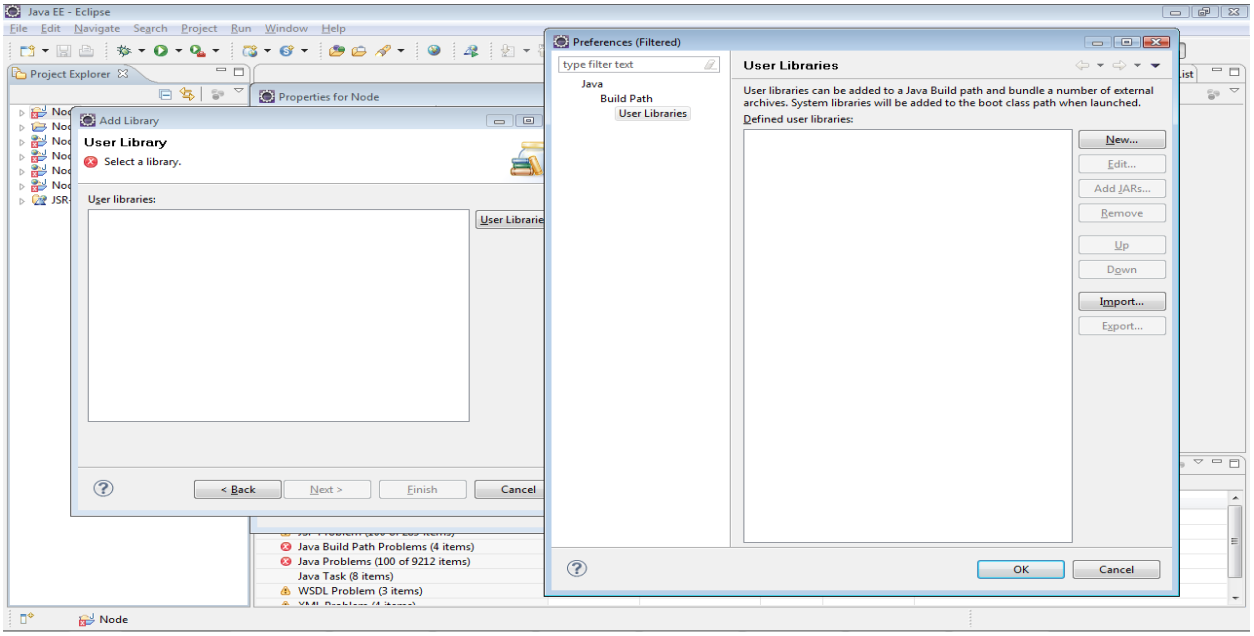
6. You can see all libraries missing jar files.



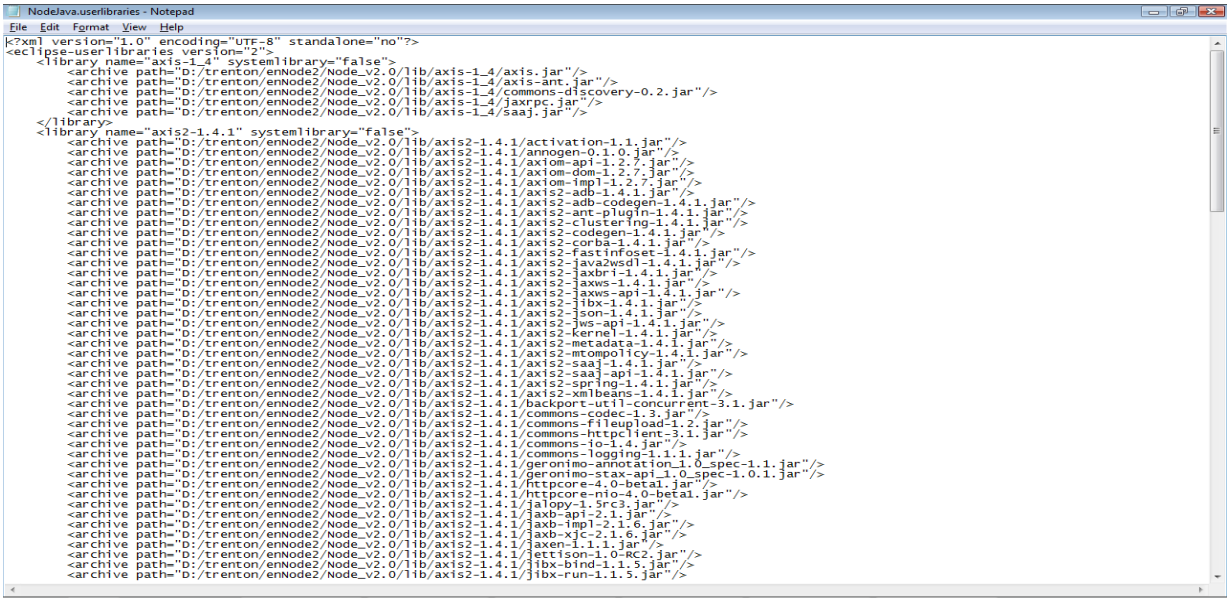
7. Click “Add Library” , then select “User library” and click “next” button.



8. After you get “User Library” configuration screen, then click “User Libaries” button prepare to import libraries like below:



9. Click “Import” button to import library from NodeJava.userlibraries file which is in the D: /enNode2 folder. Before you import this file please change the path to match your local environment. Open NodeJava.userlibraries file using Notepad or any file editors like below:



You should change “D: /trenton/enNode2” to “D:/enNode2” to match local path:

NodeJava.userlibraries - Notepad

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<eclipse-userlibraries version="2">
    <library name="axis-1_4" systemlibrary="false">
        <archive path="D:/enNode2/Node_v2.0/lib/axis-1_4/axis.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis-1_4/axis-ant.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis-1_4/commons-discovery-0.2.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis-1_4/jaxrpc.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis-1_4/saaj.jar"/>
    </library>
    <library name="axis2-1.4.1" systemlibrary="false">
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/activation-1.1.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/annogen-0.1.0.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/axiom-api-1.2.7.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/axiom-dom-1.2.7.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/axiom-impl-1.2.7.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/axis2-adb-1.4.1.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/axis2-adb-codegen-1.4.1.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/axis2-ant-plugin-1.4.1.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/axis2-clustering-1.4.1.jar"/>
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        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/axis2-java2wsdl-1.4.1.jar"/>
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        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/axis2-jaxws-1.4.1.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/axis2-jaxws-api-1.4.1.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/axis2-jibx-1.4.1.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/axis2-json-1.4.1.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/axis2-jws-api-1.4.1.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/axis2-kernel-1.4.1.jar"/>
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        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/axis2-saaj-1.4.1.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/axis2-saaj-api-1.4.1.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/axis2-spring-1.4.1.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/axis2-xmlbeans-1.4.1.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/backport-util-concurrent-3.1.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/commons-codec-1.3.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/commons-fileupload-1.2.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/commons-httpclient-3.1.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/commons-io-1.4.jar"/>
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        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/geronimo-stax-api_1.0_spec-1.0.1.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/httpcore-4.0-beta1.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/httpcore-nio-4.0-beta1.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/jalopy-1.5rc3.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/jaxb-api-2.1.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/jaxb-impl-2.1.6.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/jaxb-xjc-2.1.6.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/jaxen-1.1.1.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/jettison-1.0-RC2.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/jibx-bind-1.1.5.jar"/>
        <archive path="D:/enNode2/Node_v2.0/lib/axis2-1.4.1/jibx-run-1.1.5.jar"/>
```
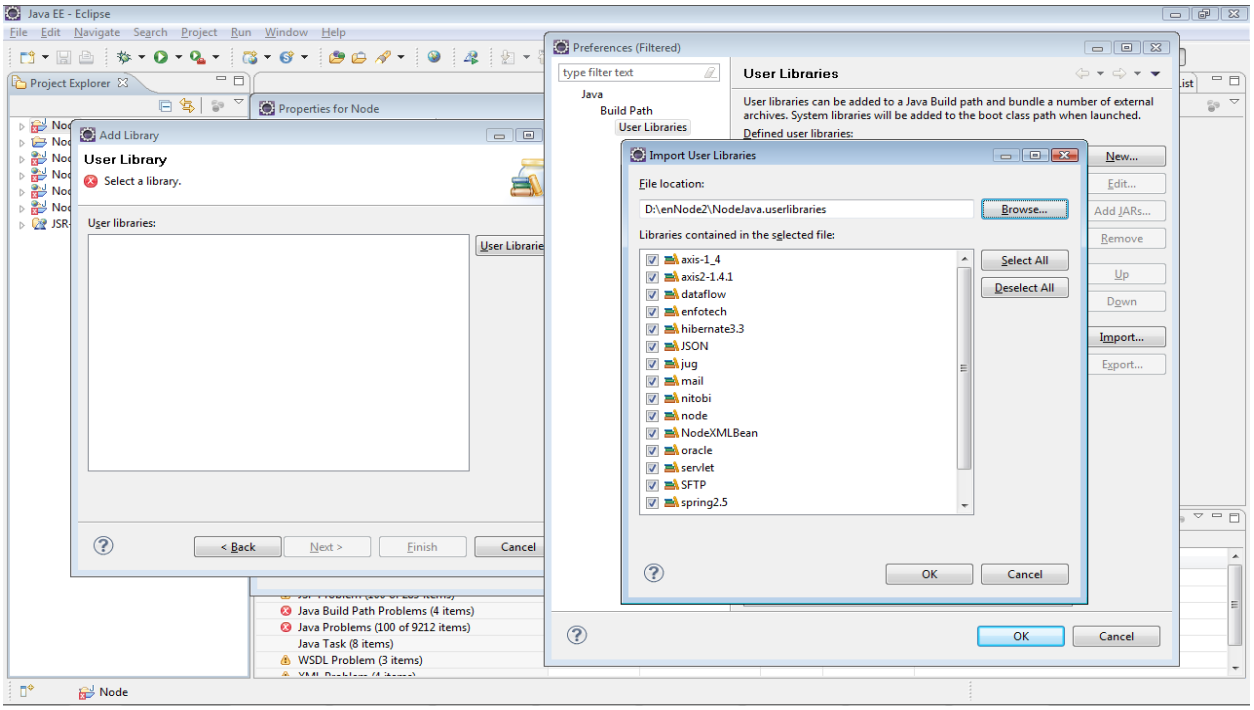
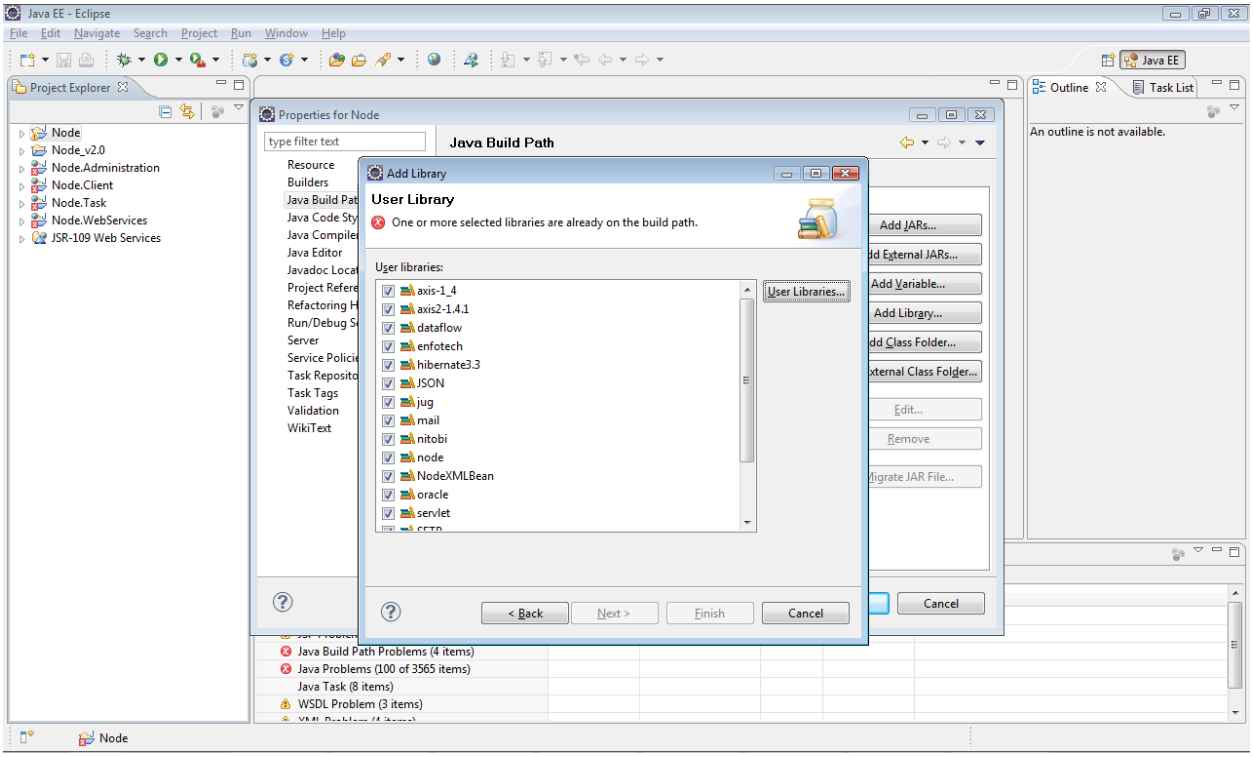
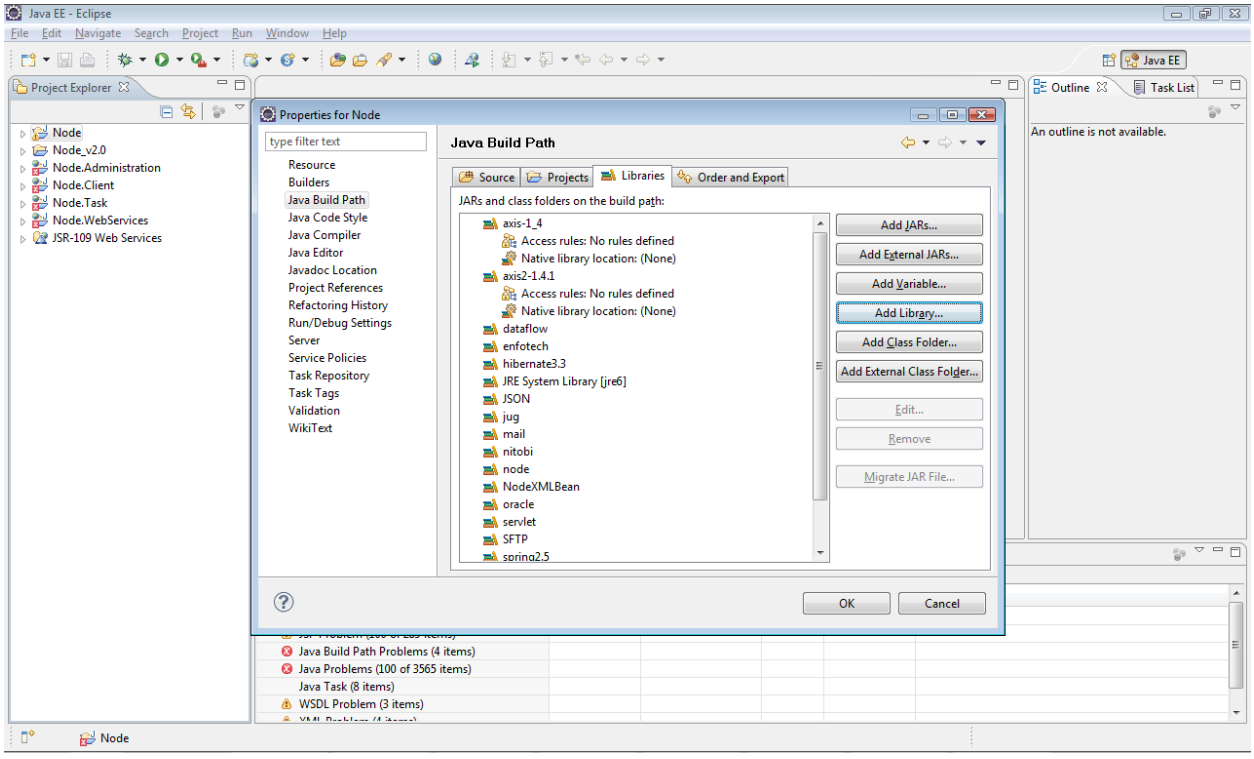

10. After change the path, click “Import” button to import library from NodeJava.userlibraries file



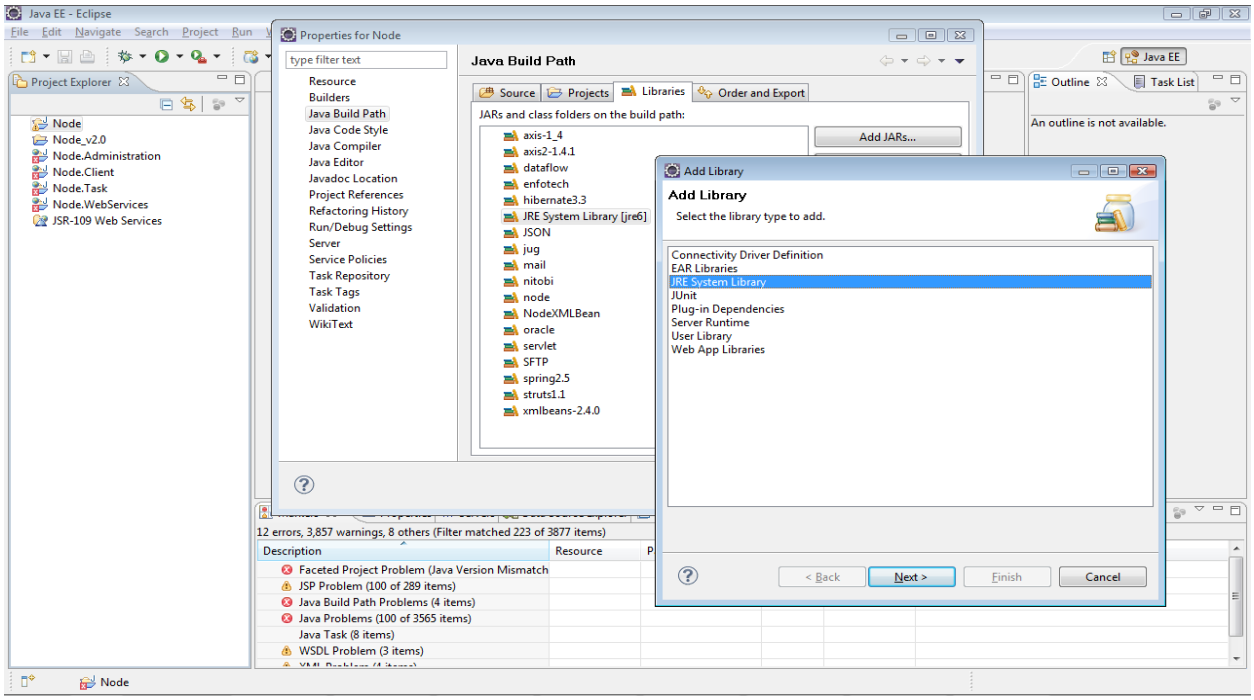
11. You can see below screen, don't mind error, click "Cancel" button.



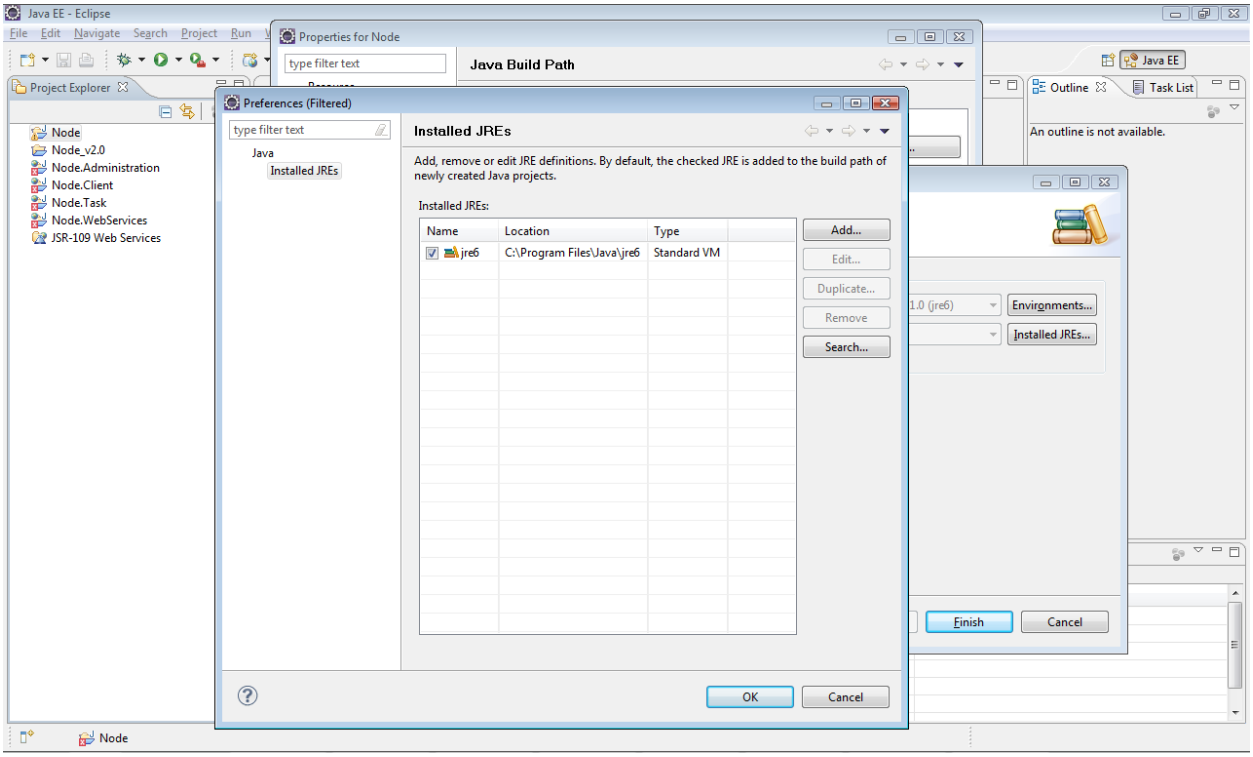
12. Click "OK" to exit libraries configuration screen. Before rebuild please make sure your JRE library is correct:



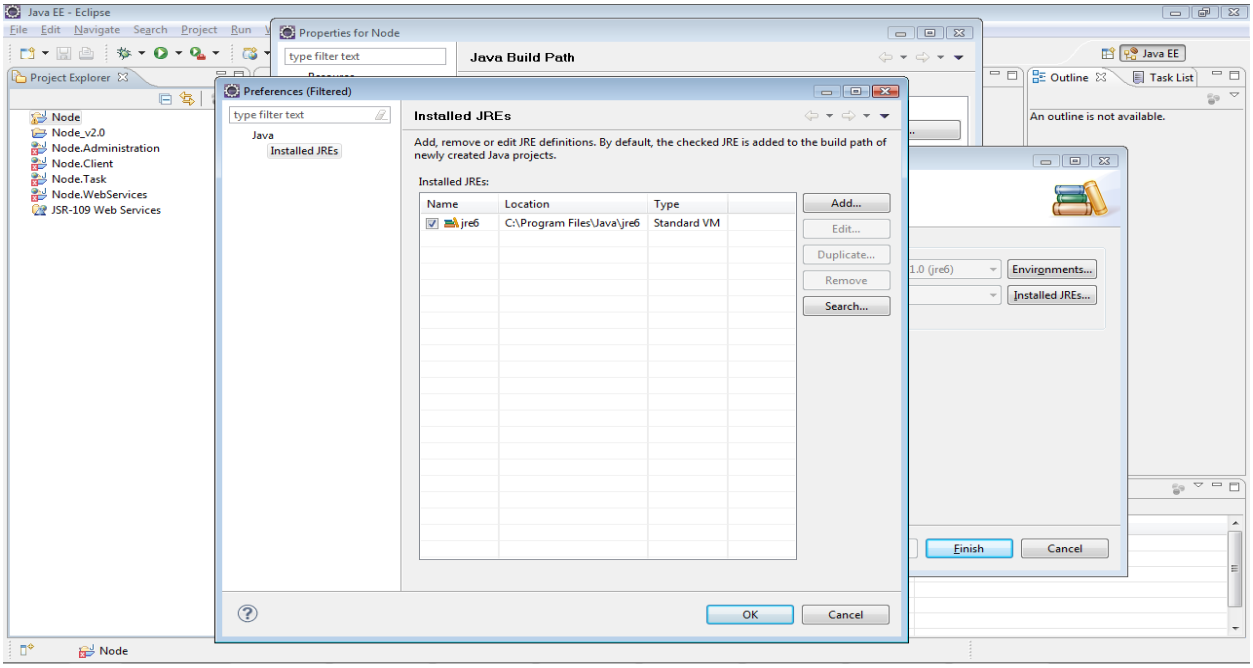
13. If you want to change JRE library please click “Add Library” button to select “JRE System Library”. If you don’t need to change JRE, jump to step 21.



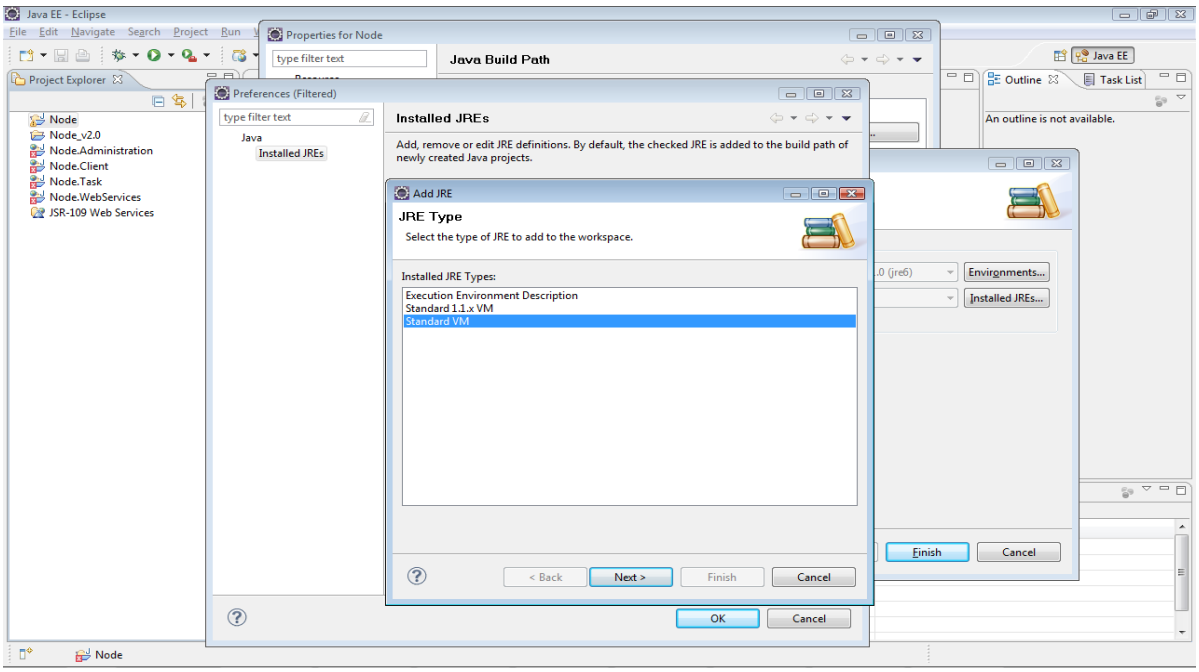
14. Click “Installed JREs…” button



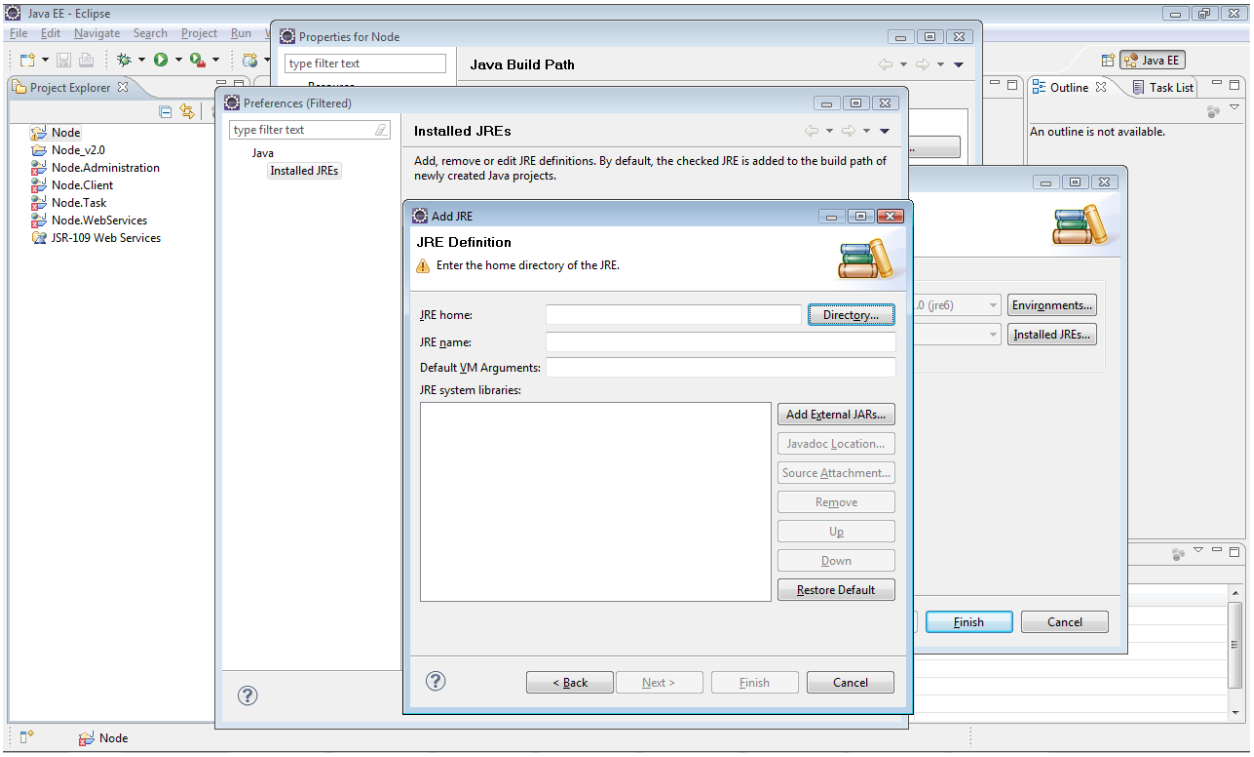
15. Click “Add” button

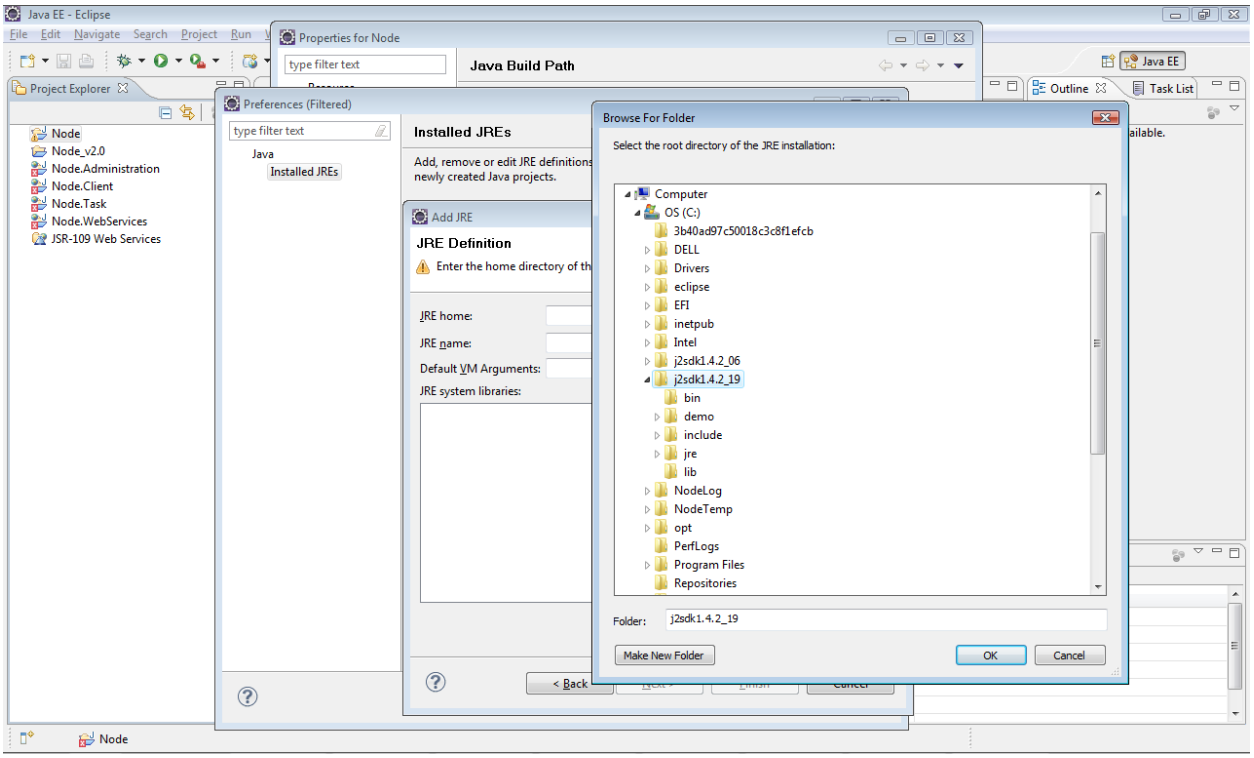


16. Select “Standard VM “ and click “Next” button

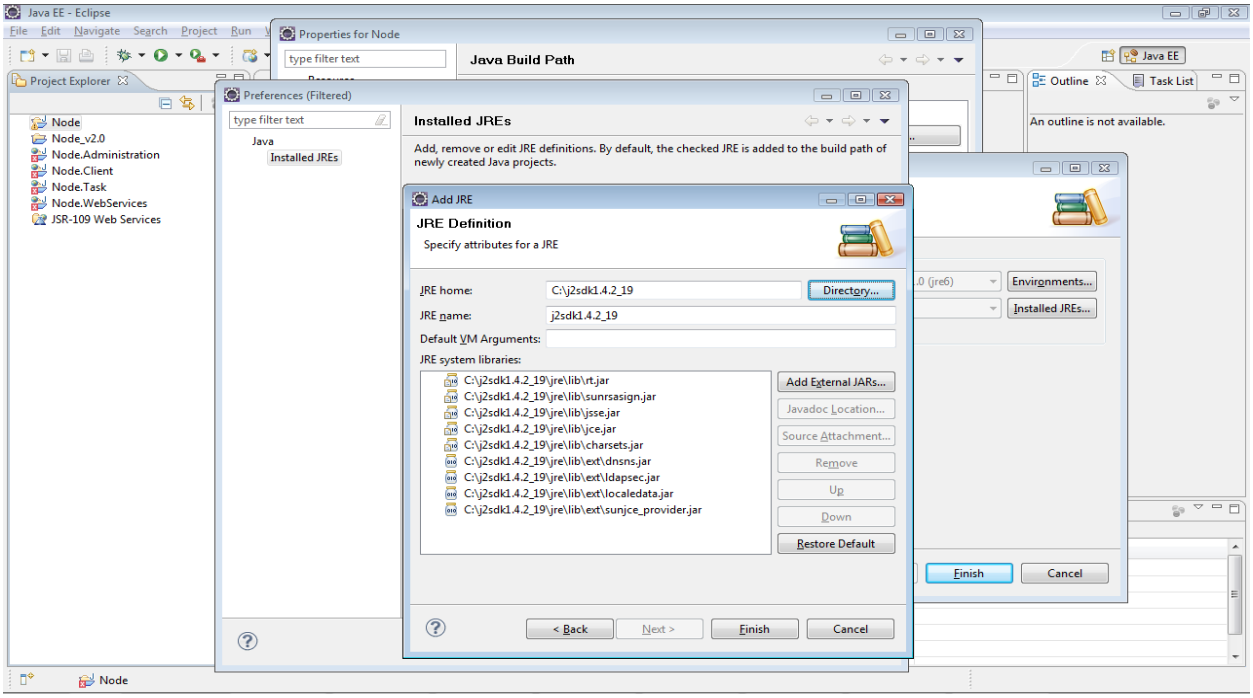


17. Push “Directory” button to select jdk folder

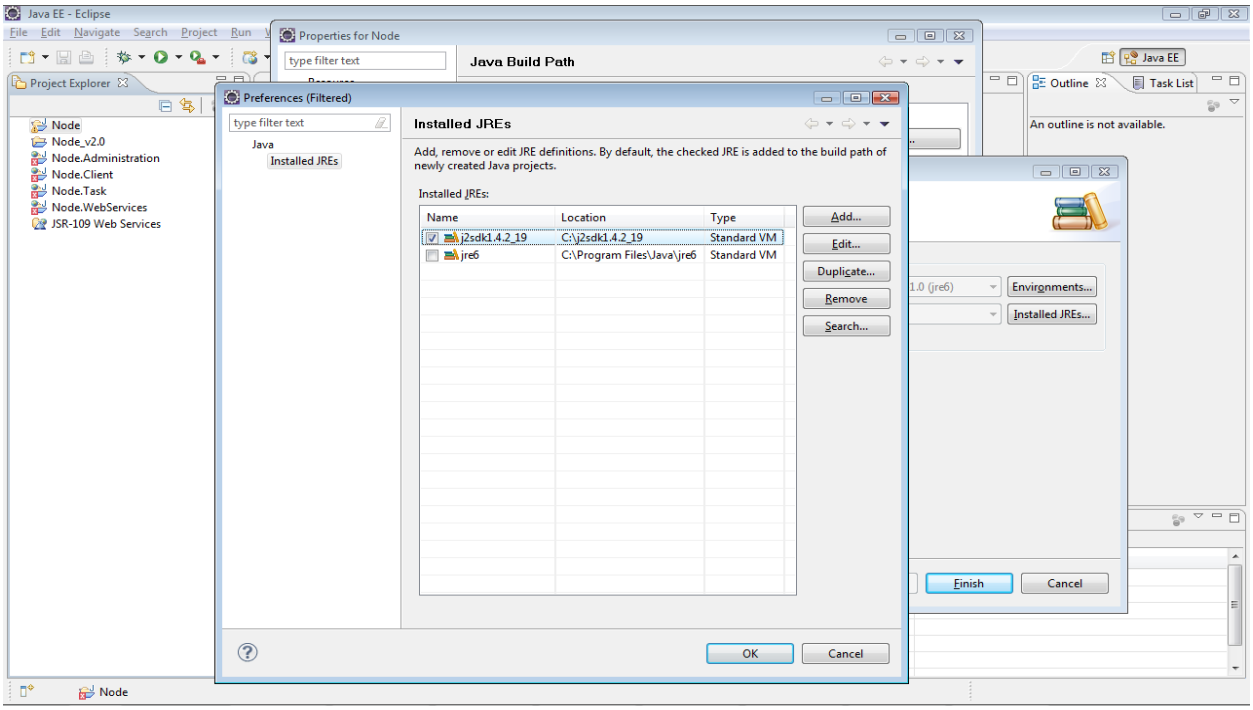




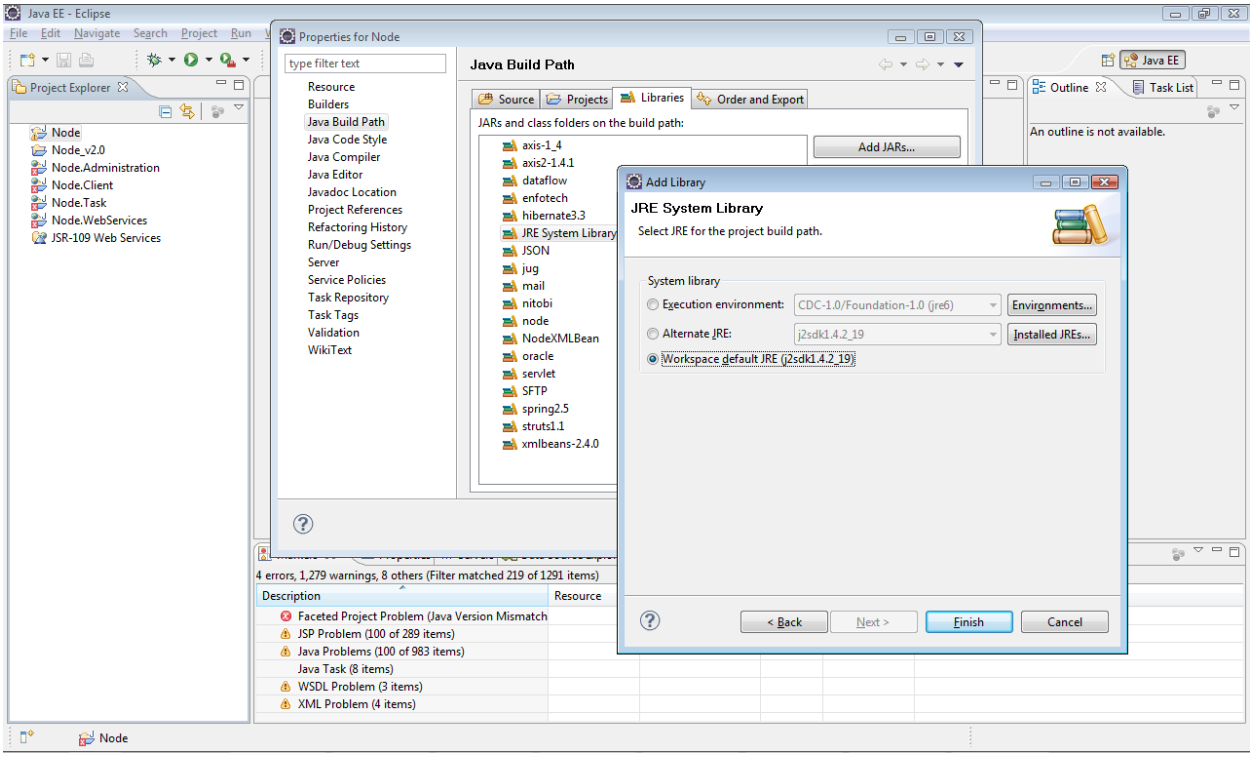
18. The Eclipse will find new jdk and fill all parameters, click “Finish” to close window.



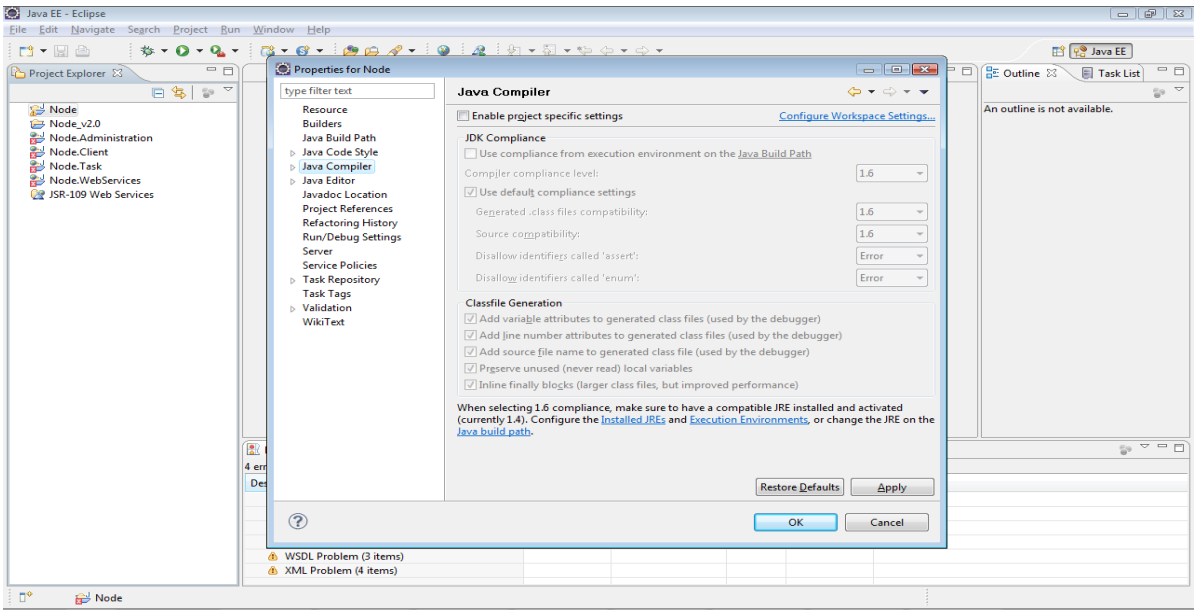
19. Check the new jsdk1.4.1_19 as default JRE and click “ok”



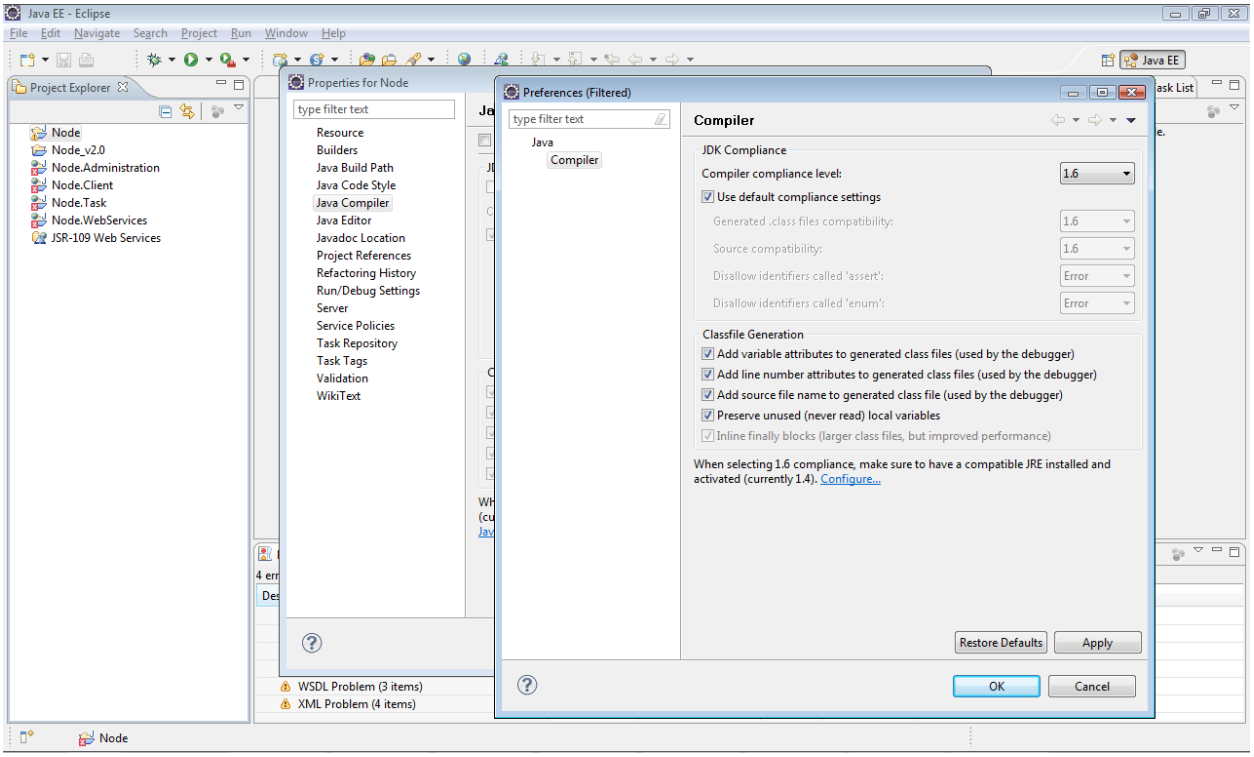
20. We select alternative library as 1.4.2_19, click “Finish” button.



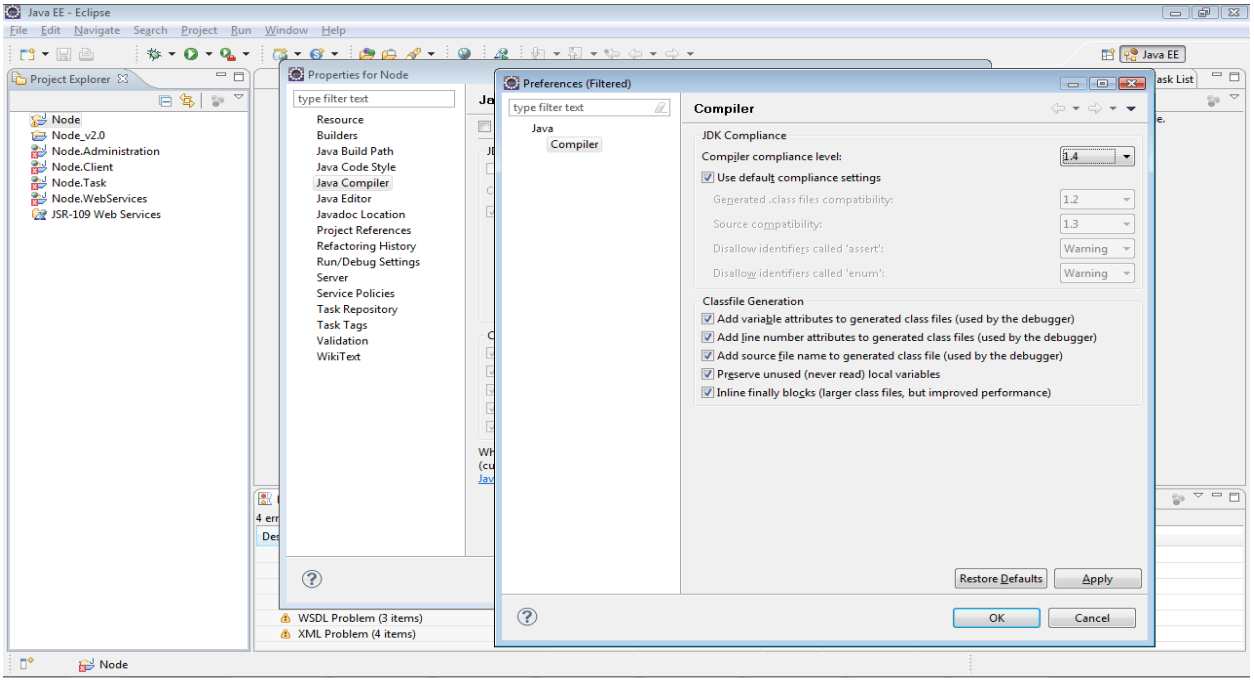
21. Don’t forget check compiler to match the same JDK version, here it is 1.6



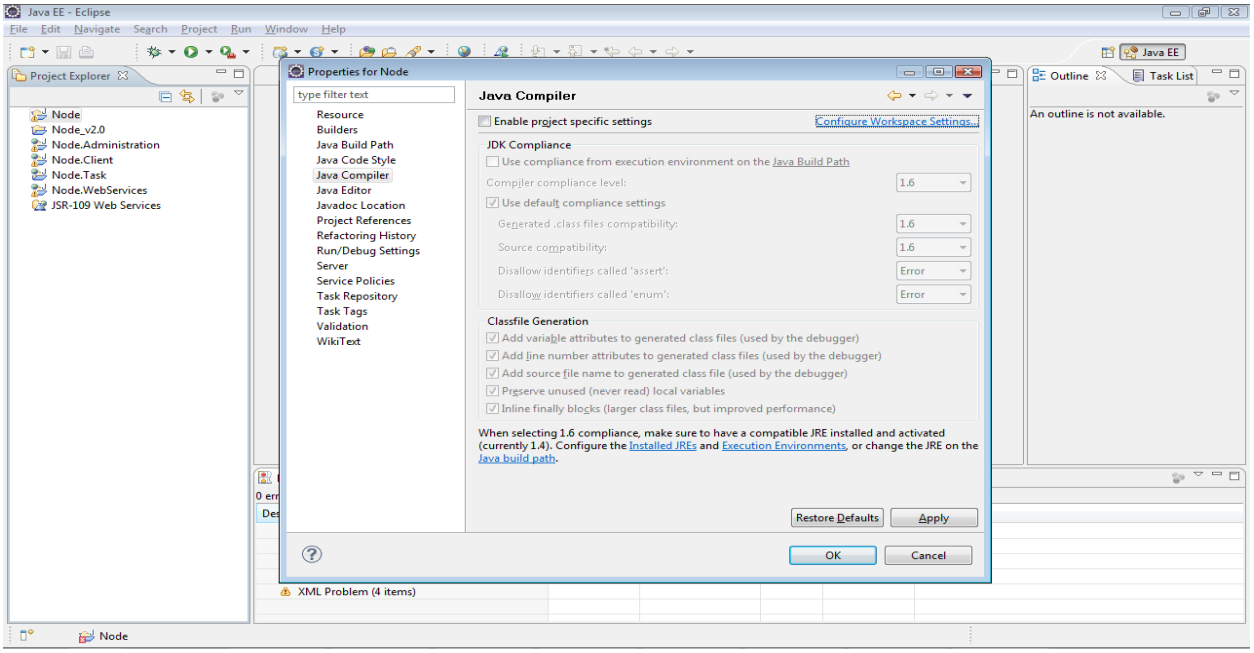
22. Click “Configure Workspace Settings…” to open “Compiler” window



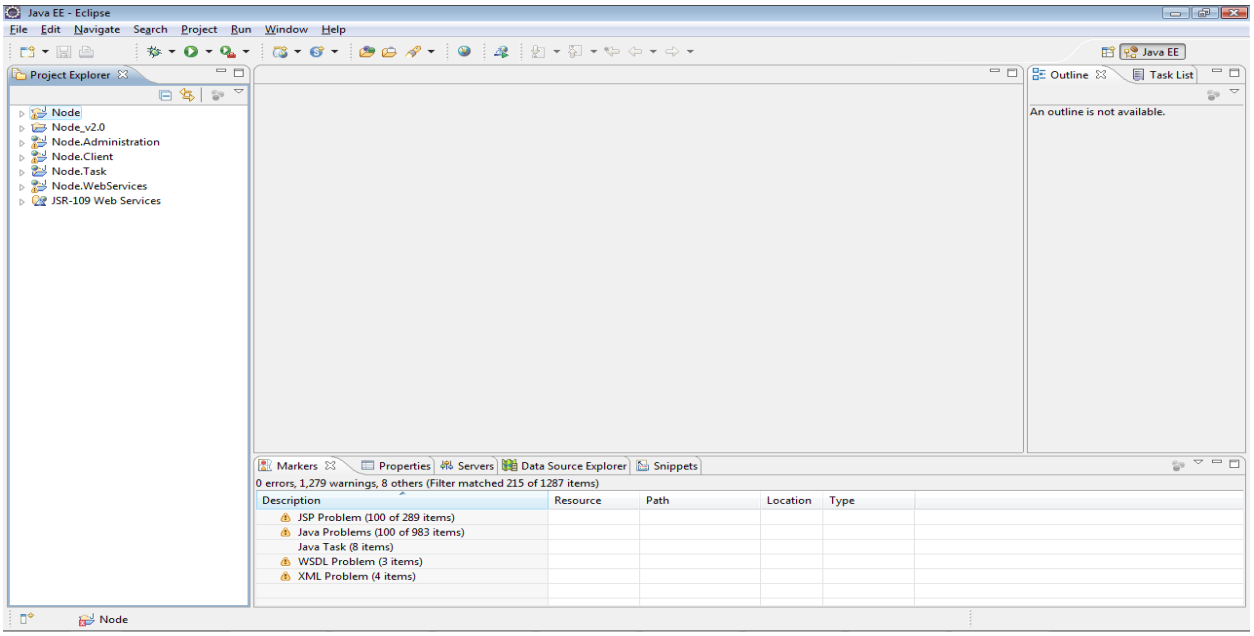
23. Change 1.6 to 1.4 and click “ok”.



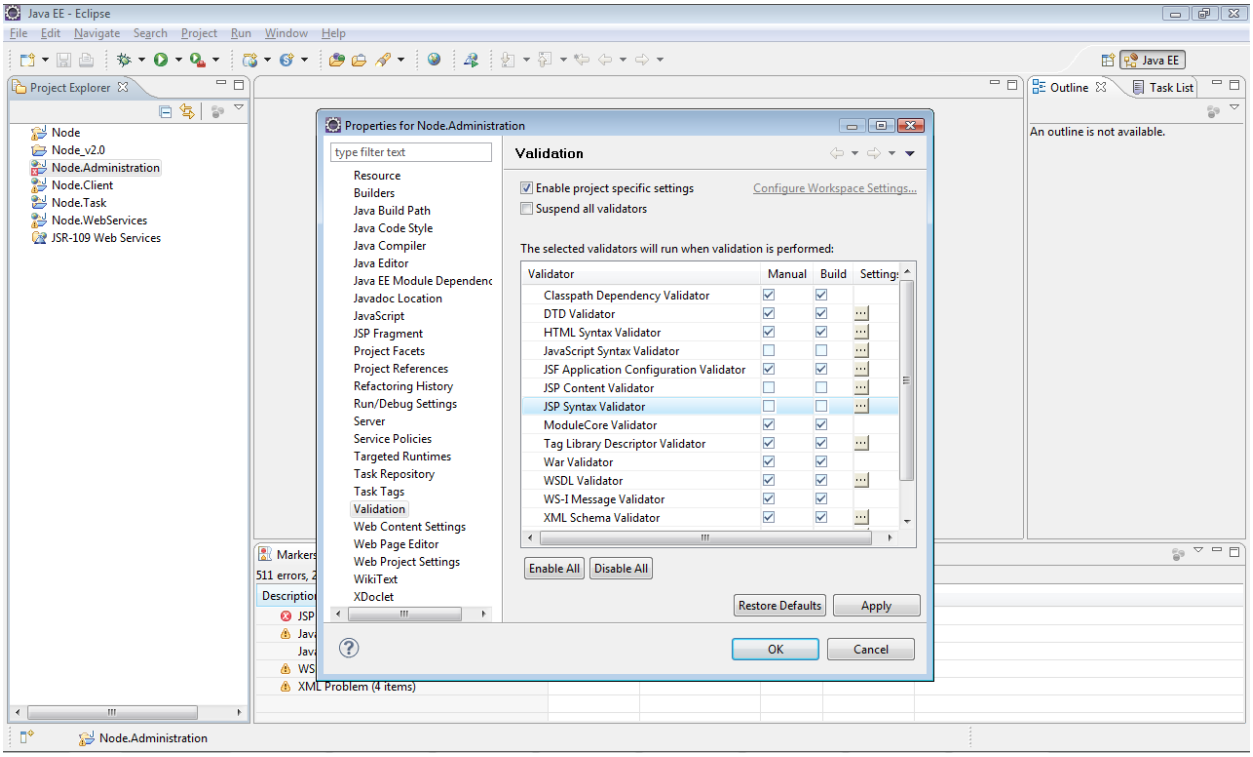
24. Click “ok” to let Eclipse rebuild the project



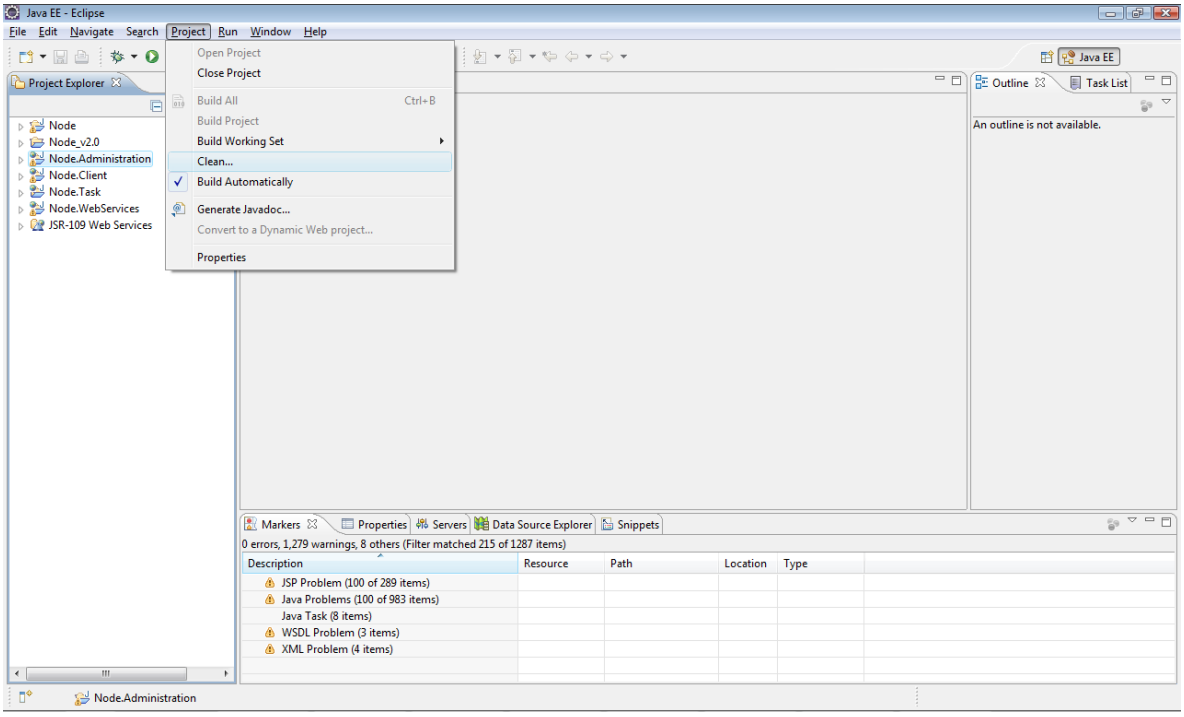
25. There is no error and the project is ready to deploy. If you still get some errors, please double check your library configuration and repeat steps from 4 – 24. The Eclipse may be generate a “JSR-109 Web Services” project automatically, leave it.



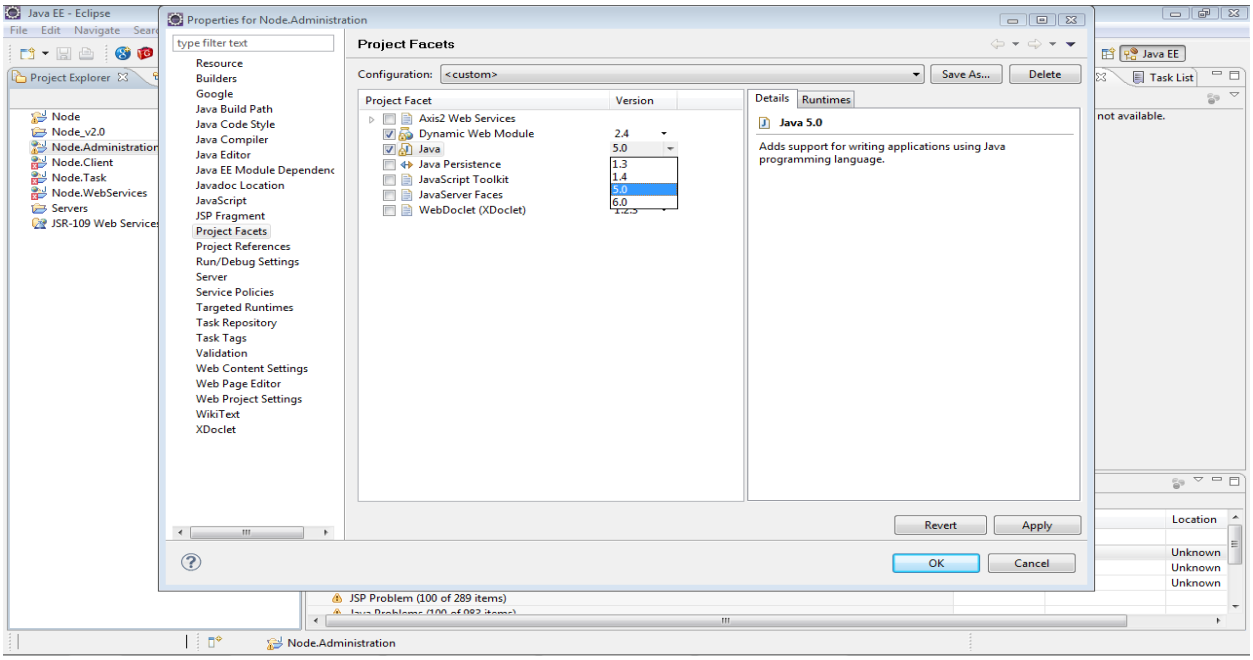
26. Sometimes you need to uncheck JSP validation check boxes to avoid some JSP validation errors.



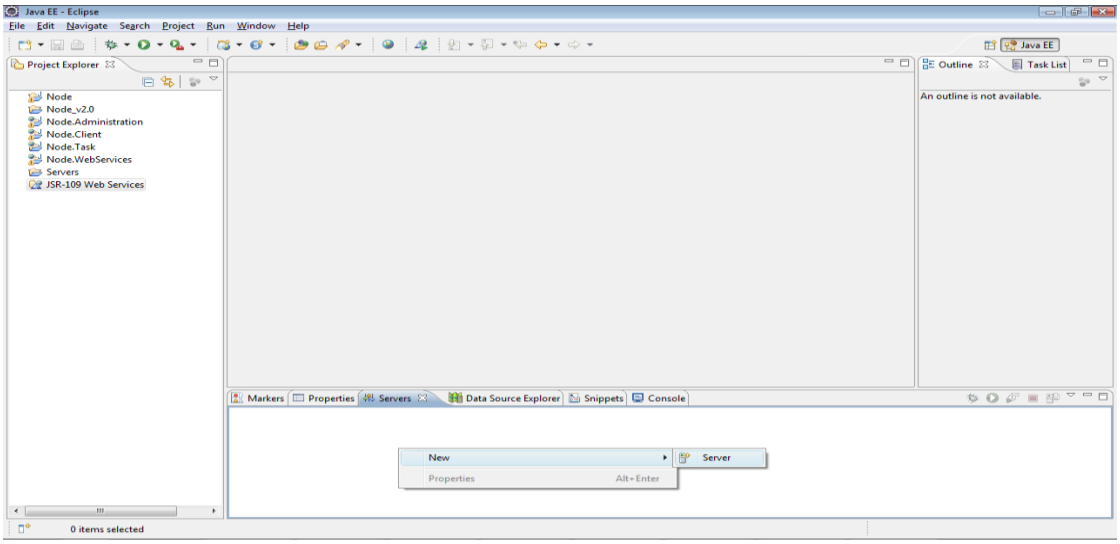
27. After you close validation then clean all project.



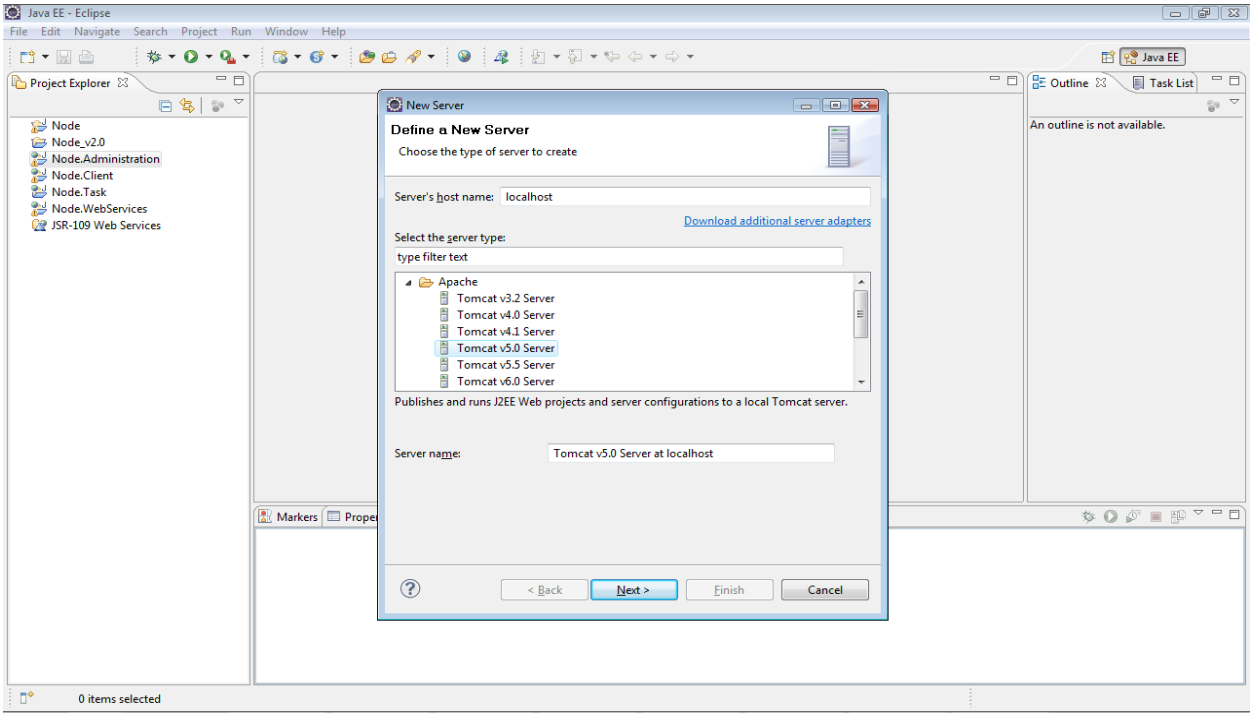
28. If you get “Java compiler level does not match the version of the installed Java project facet. (Java Version Mismatch)”, please change “Project Facets” to match Java compiler level.



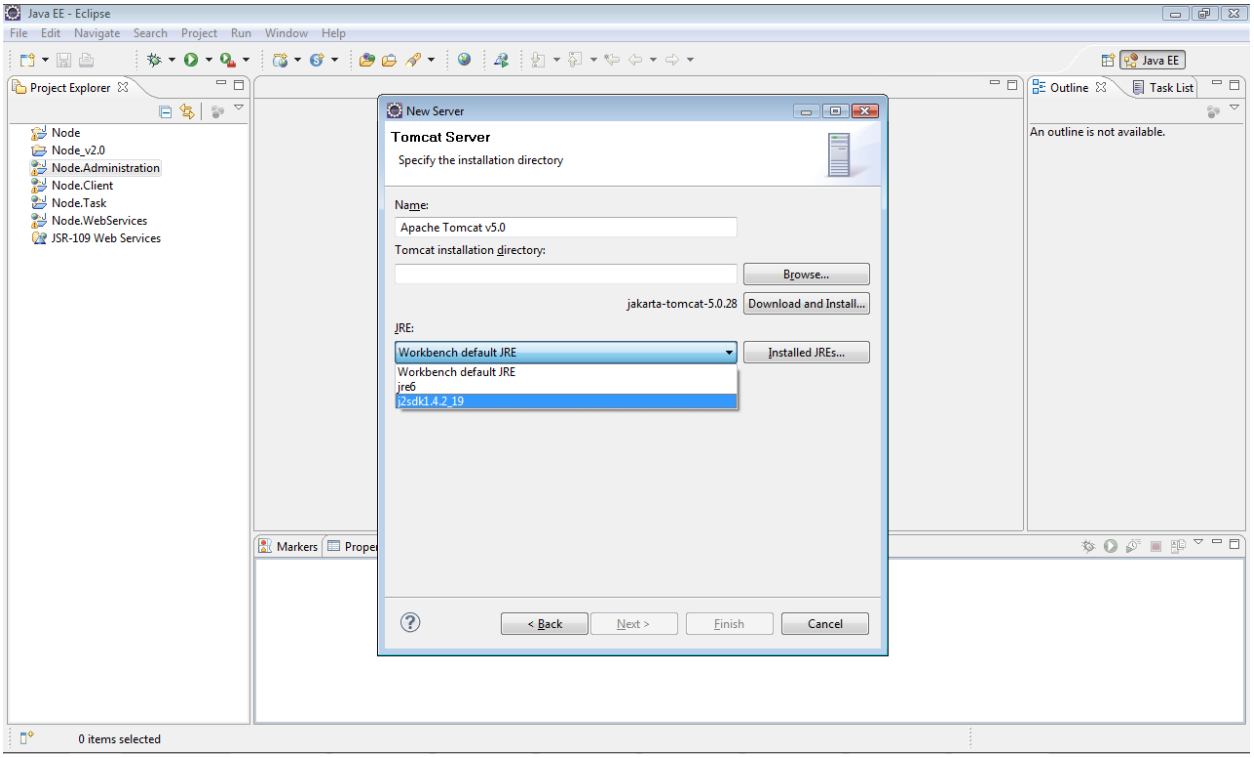
29. When finish the setup, go to server setup Tab, right click mouse button to setup new server. Click “Server”



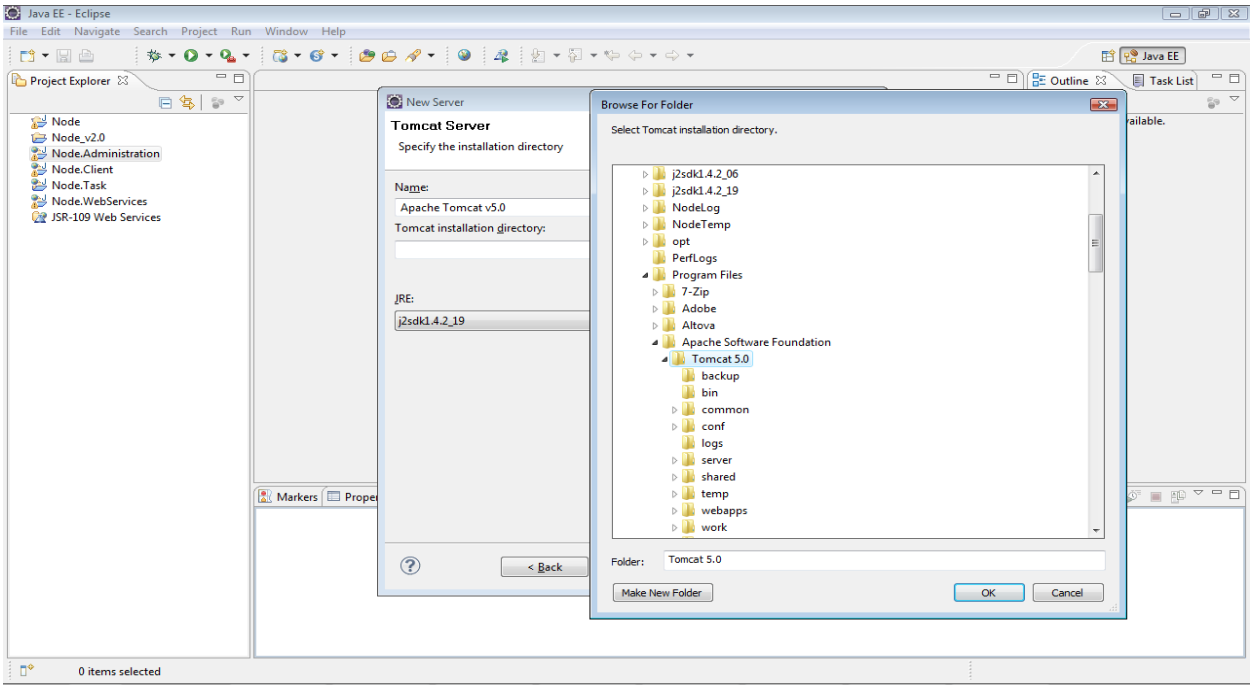
30. Select Tomcat V5.0 Server and click “Next” button.



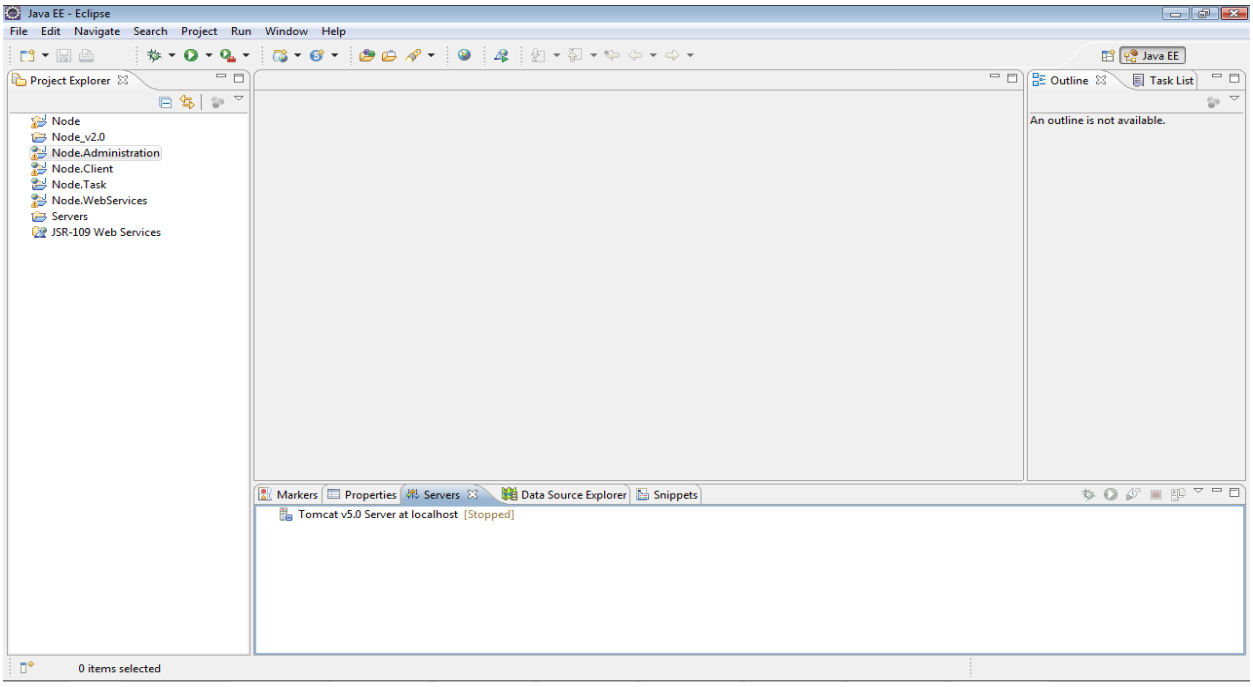
31. Since Tomcat 5.0 is using jdk 1.4 , you need to check installed j2sdk1.4 like below:



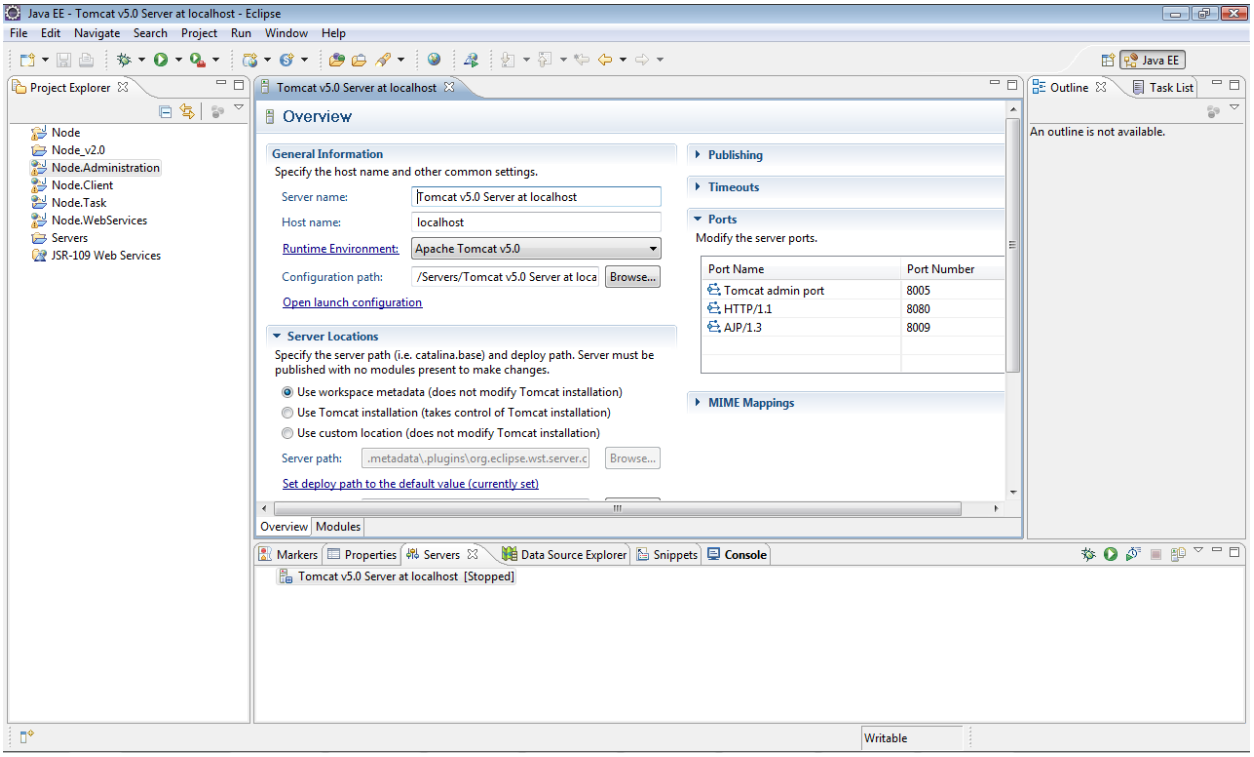
32. If you don’t have jdk1.4 please install it first. Then repeat step 28 - 30 to set Tomcat server. After you select JRE, please click “Browse” button to find Tomcat directory and click “ok”:



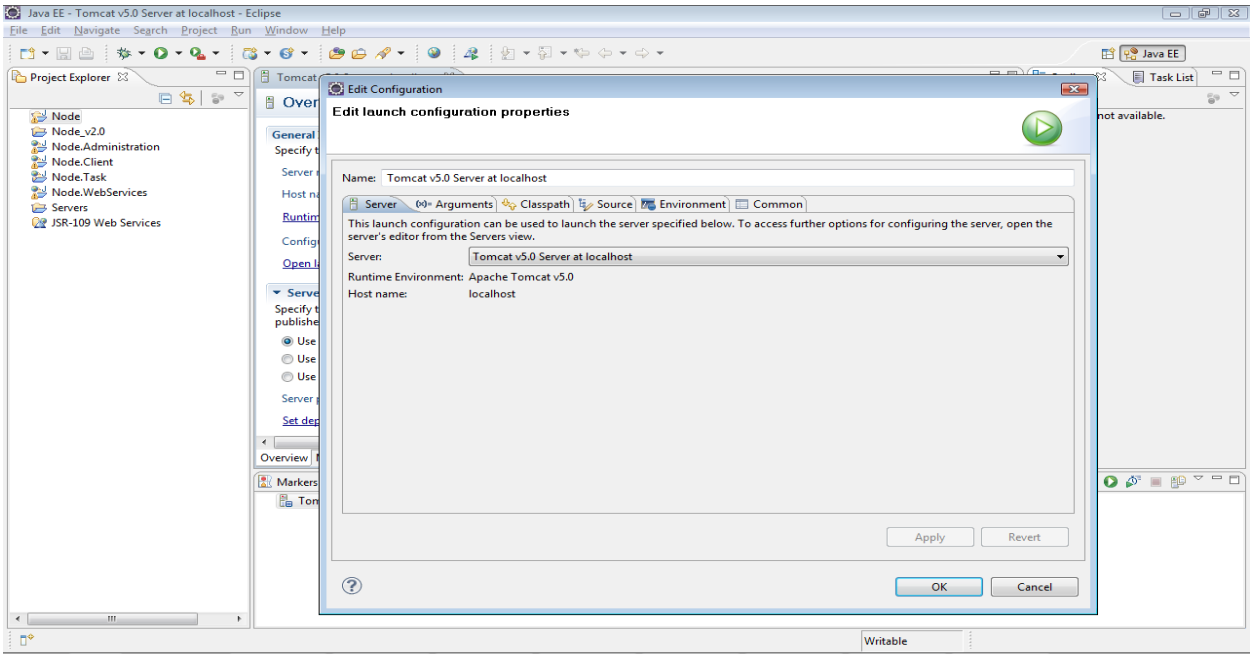
33. Click “finish” to finish the configuration of Tomcat server



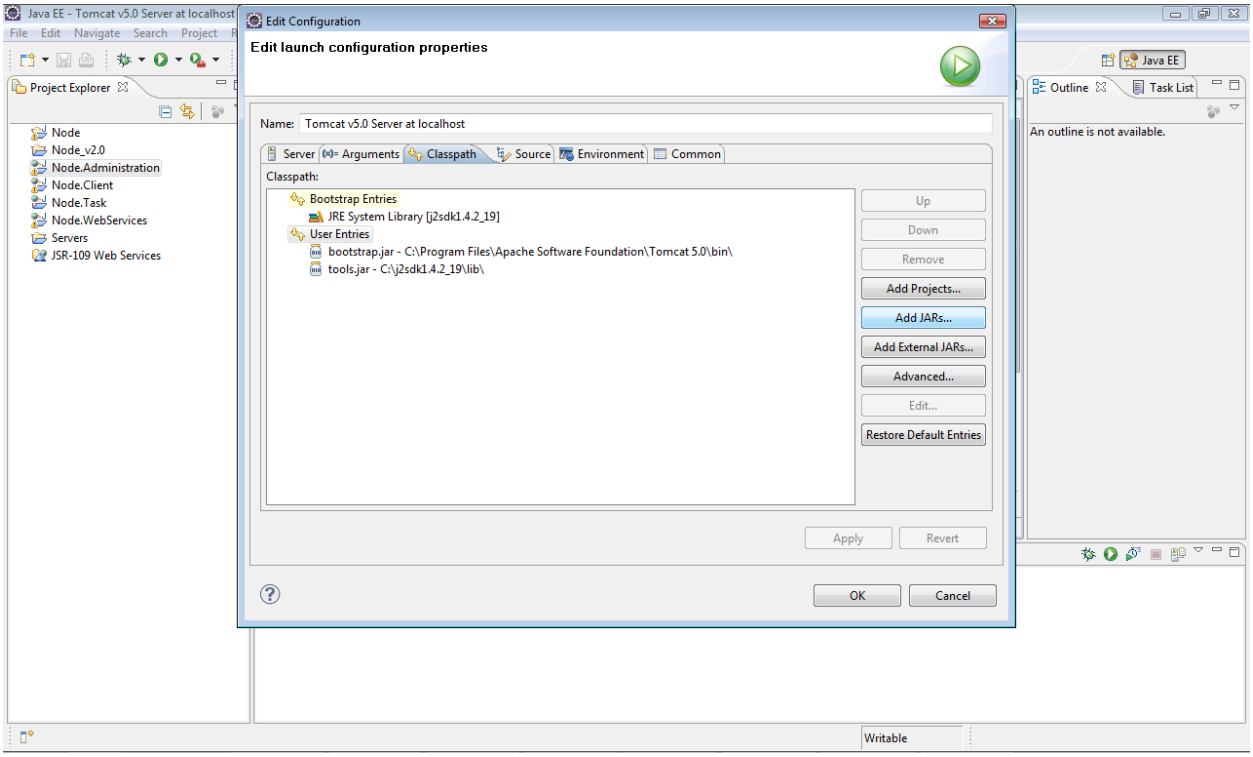
34. Double click “Tomcatv5.0 Server at localhost” in “Servers” tab and go to configuration screen.



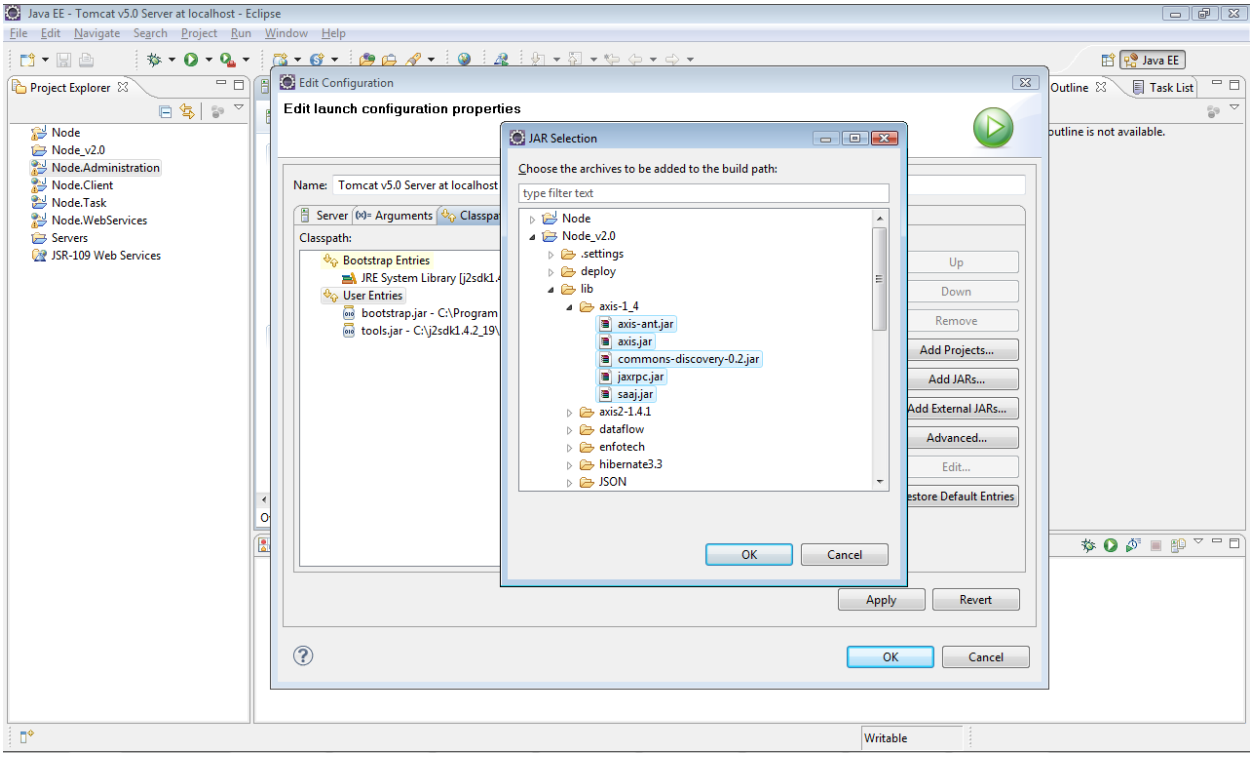
35. Click “Open Launch configuration” to open “Edit launch configuration properties” window



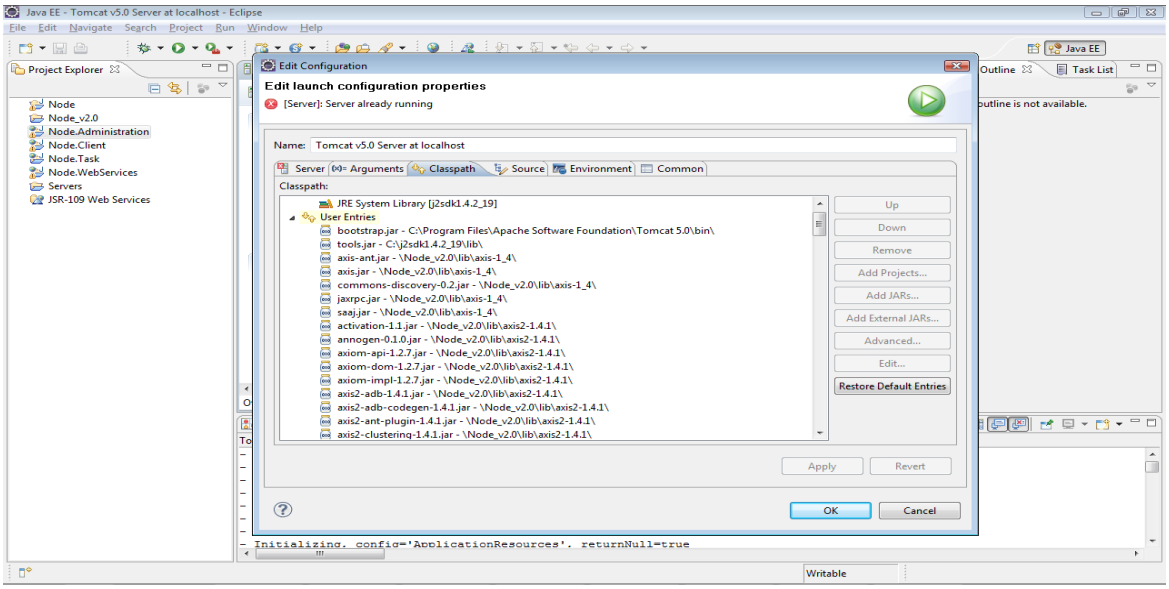
36. Click “Classpath” tab and choose “User Entries” selection then click “Add JARs…” button



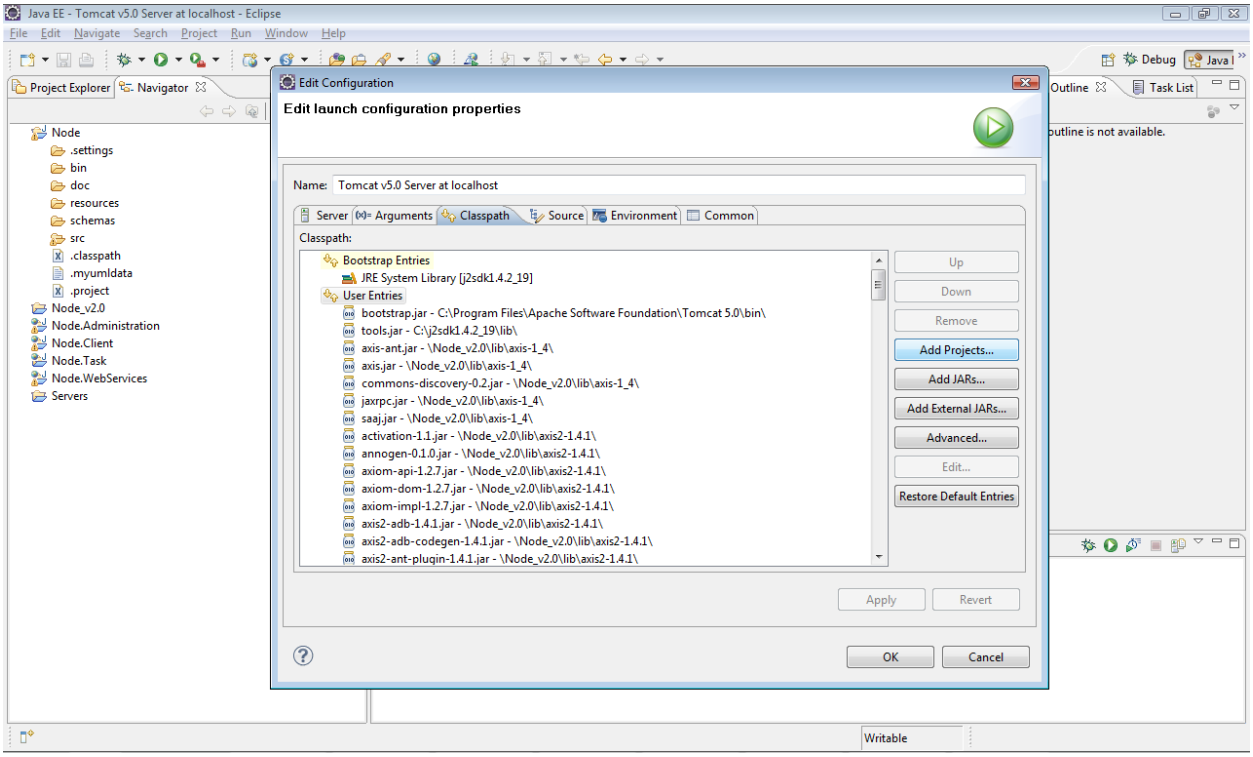
37. select all jar files under Node_v2.0/lib/axis-1_4 folder and click “ok”



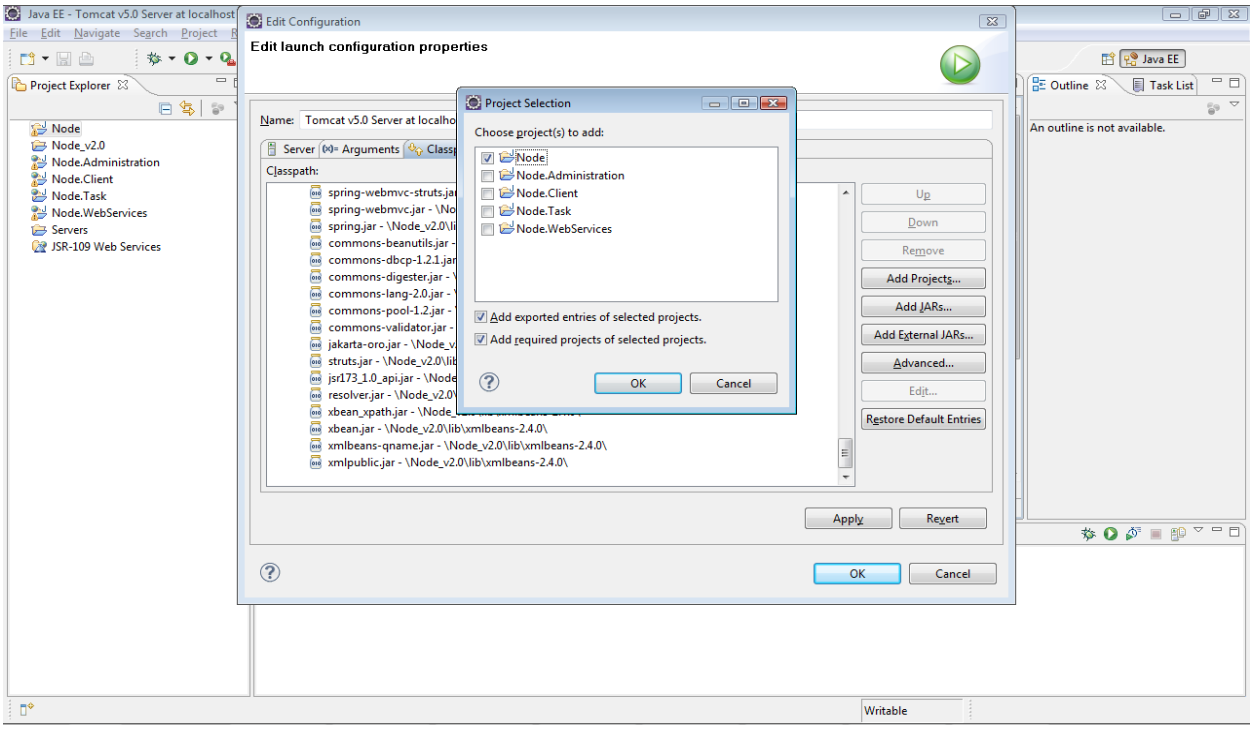
38. Repeat step 36 to select other jar files which is under Node_v2.0/lib.



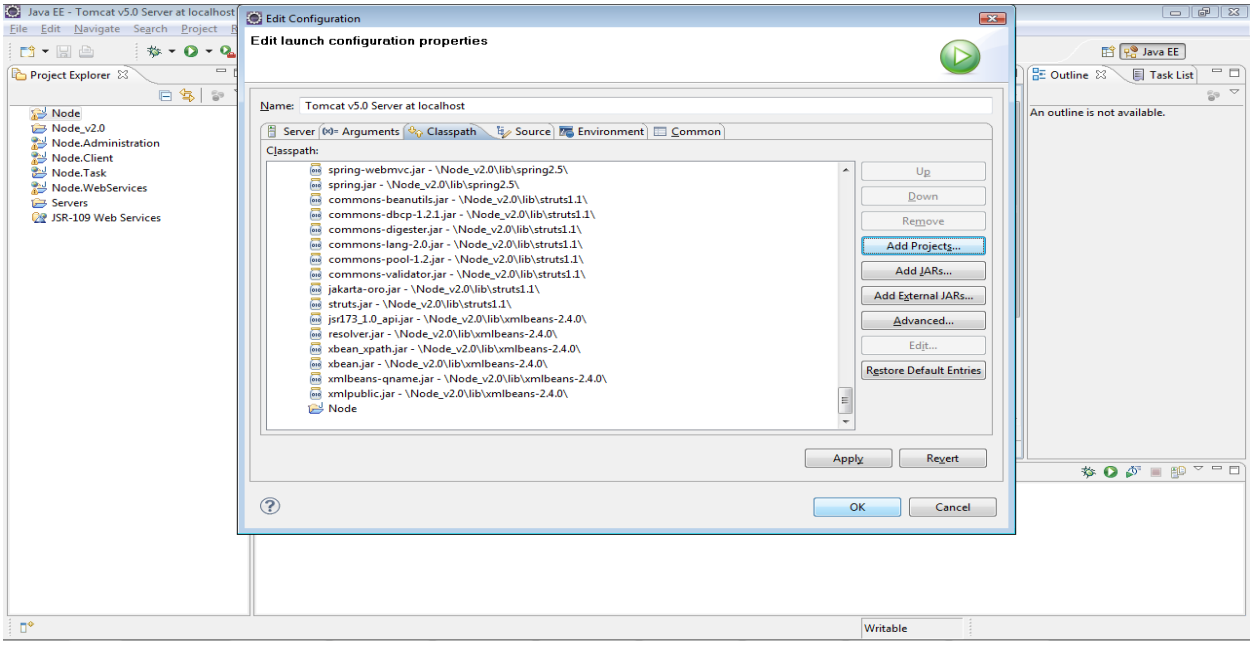
39. After add all jar files, you need to add Node folder, Click “Add Projects” button



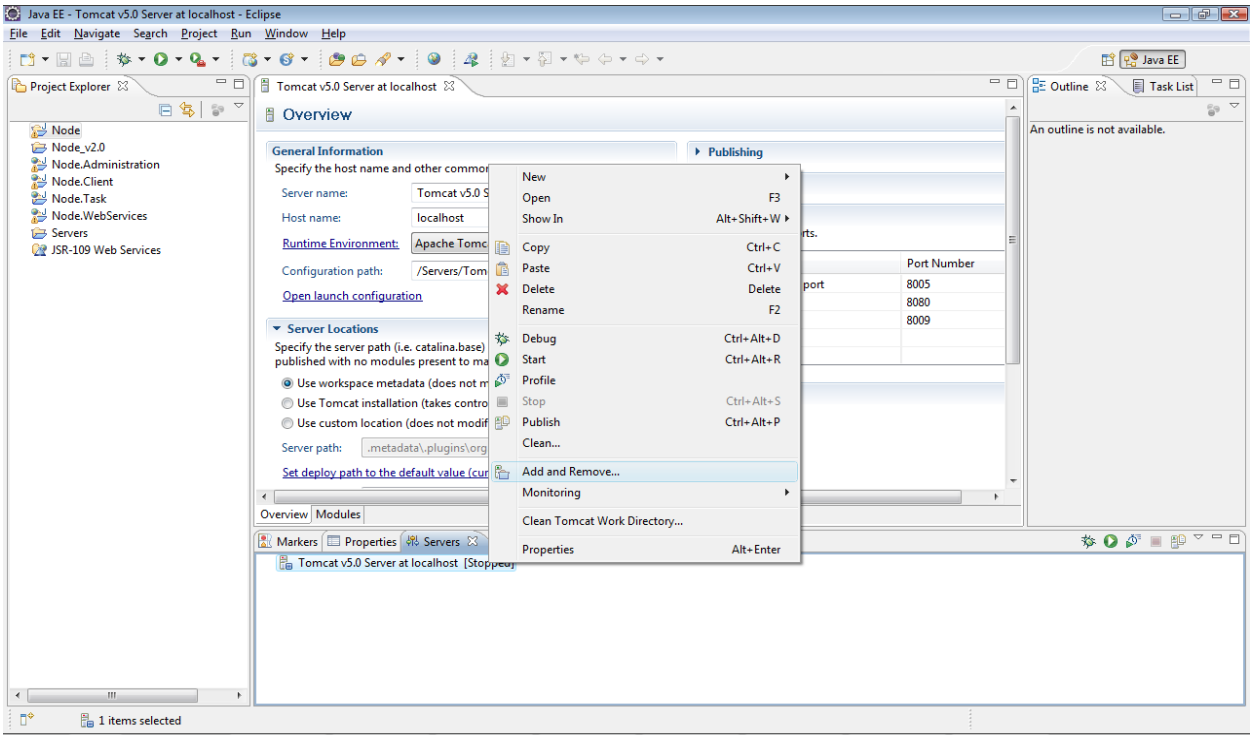
40. Check the check box of Node and click “ok” button



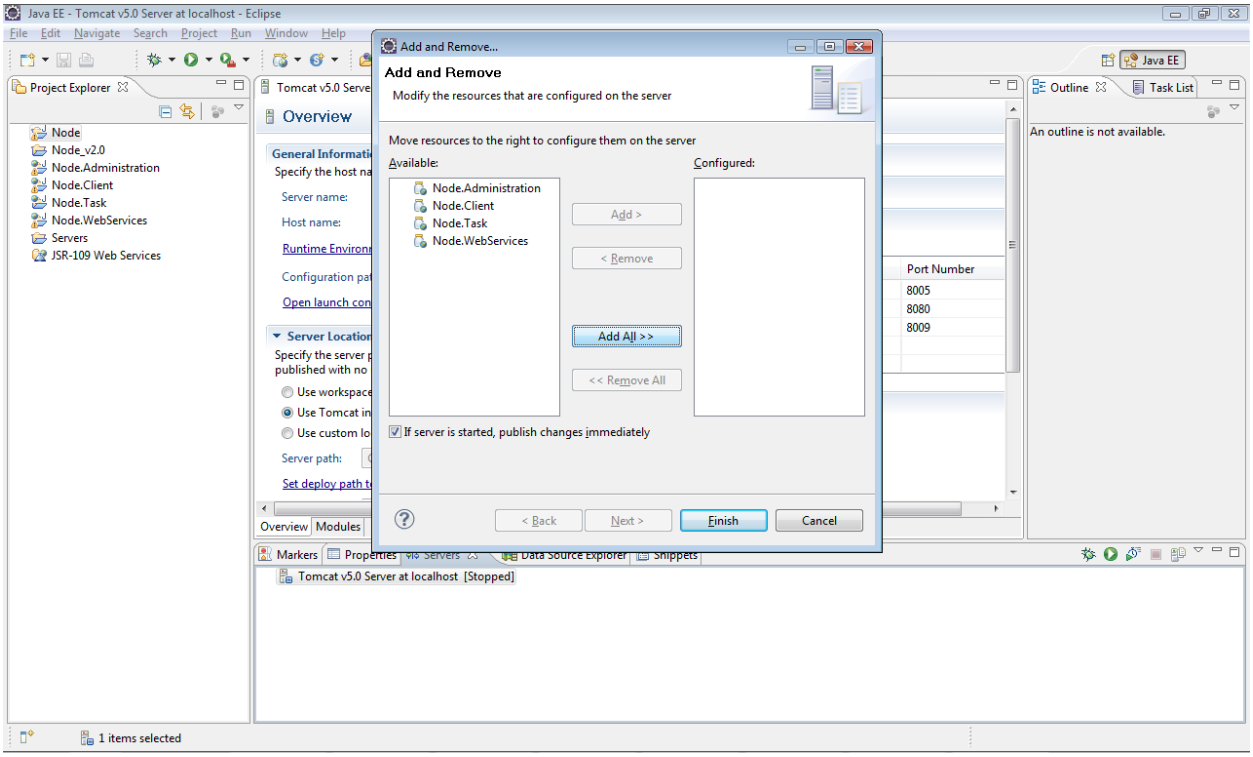
41. Click “ok” to close “Edit launch configuration properties” window



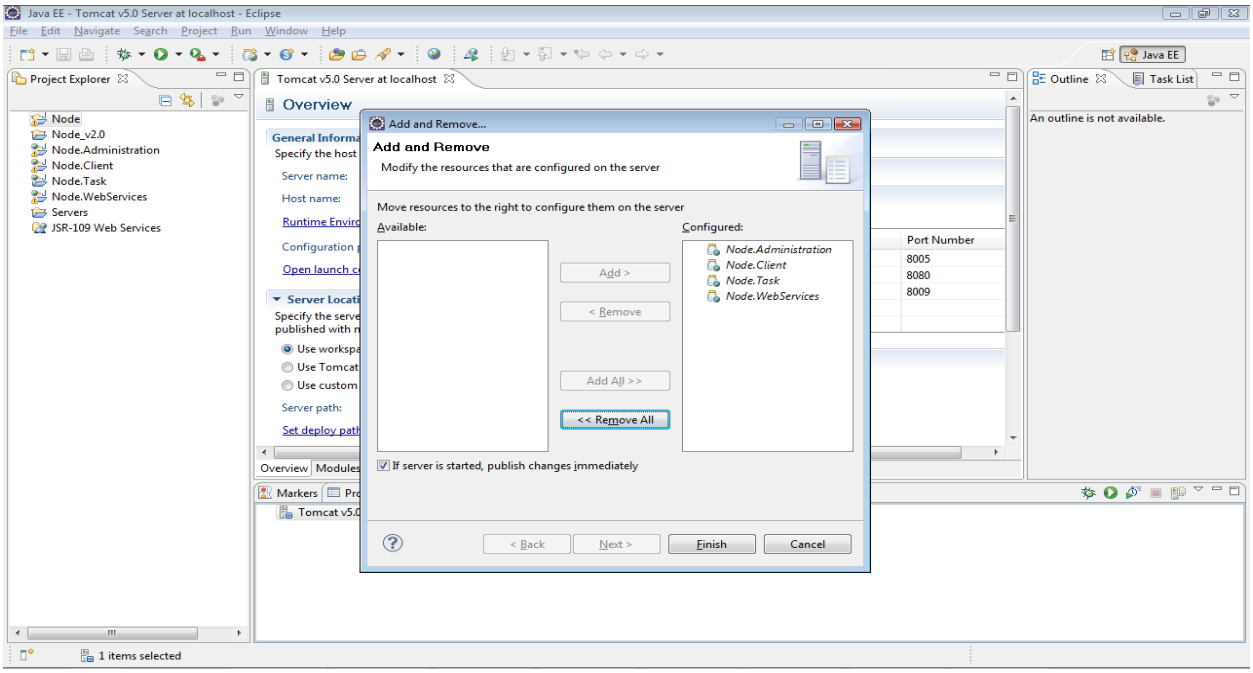
42. Move mouse point to “Tomcat v5.0 Server at localhost” which is in “Servers” tab then right click mouse button to choose “Add and Remove” selection.



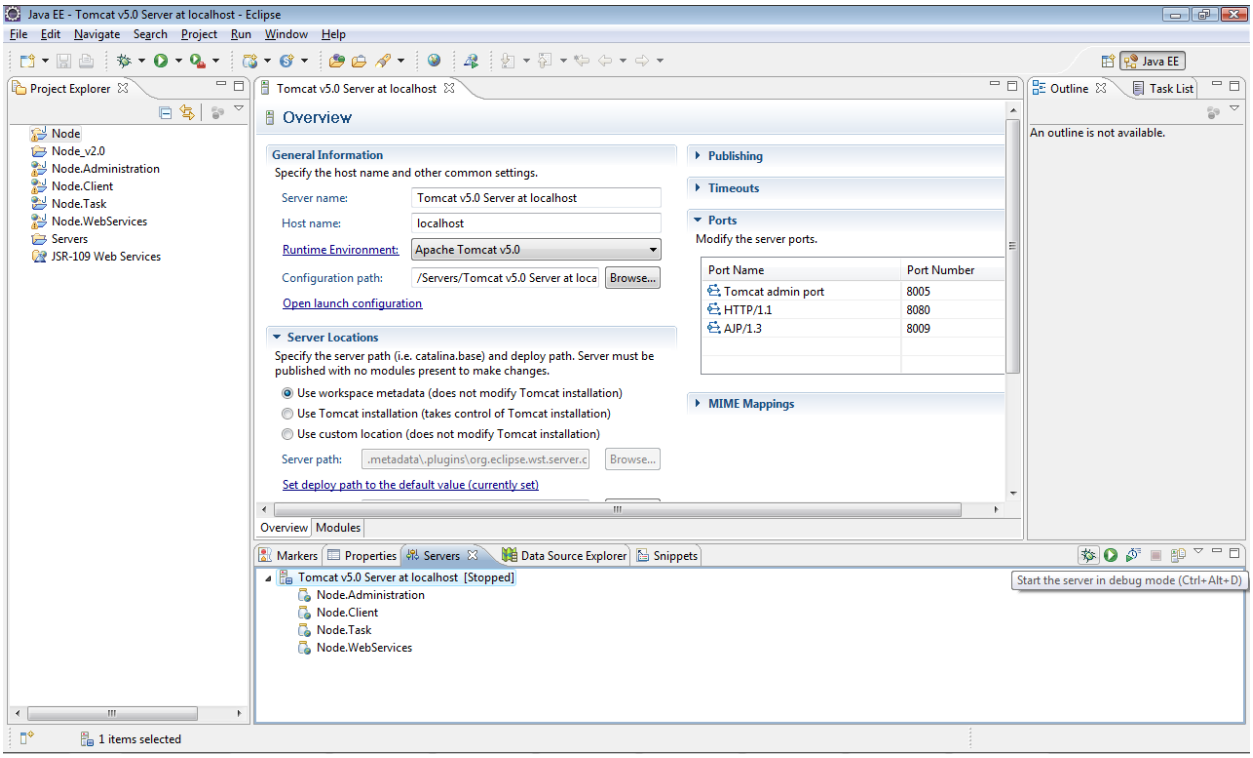
43. In open window click “Add All >>” button to add all modules to right column.



44. Click “Finish”



45. Click the small arrow left beside the “Tomcat v5.0 Server at localhost” to check if we deploy all modules, then click “debug“or “start” button to start server

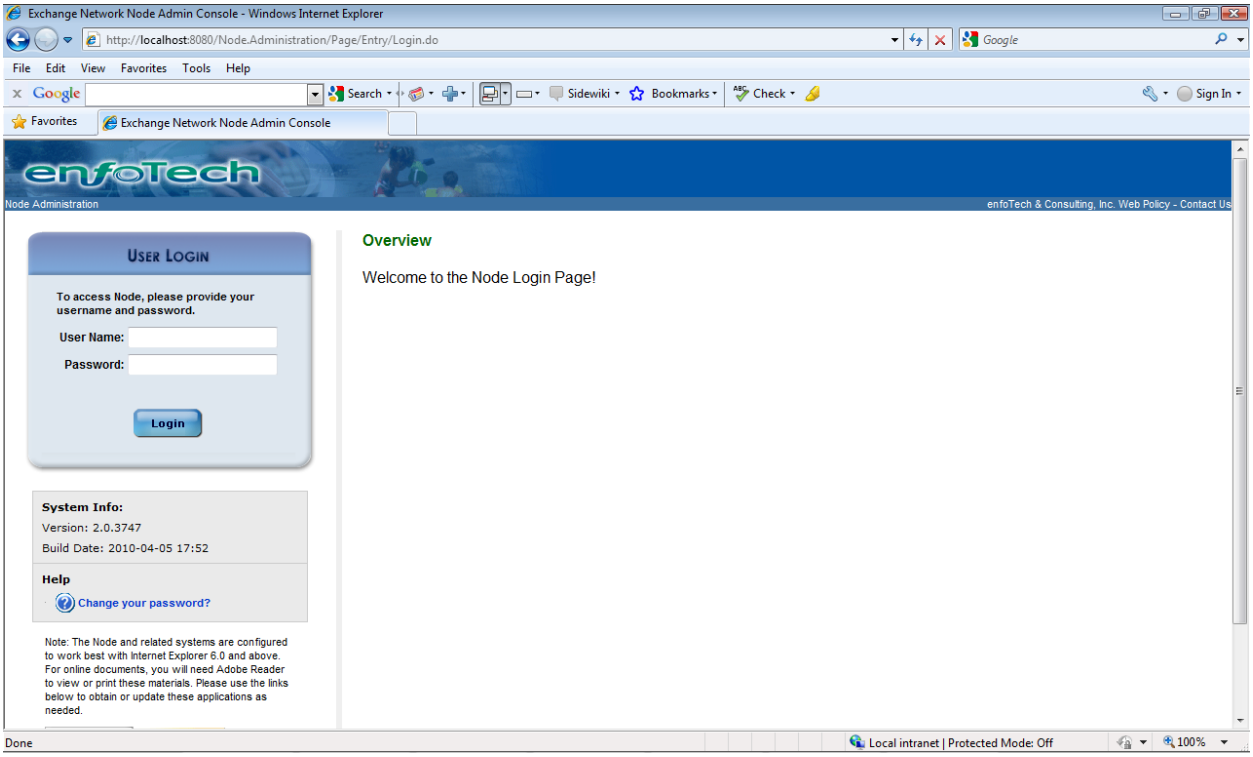


46. Sometimes you will get an error message from Tomcat, then the Tomcat stop by itself. You just restart the Tomcat again.

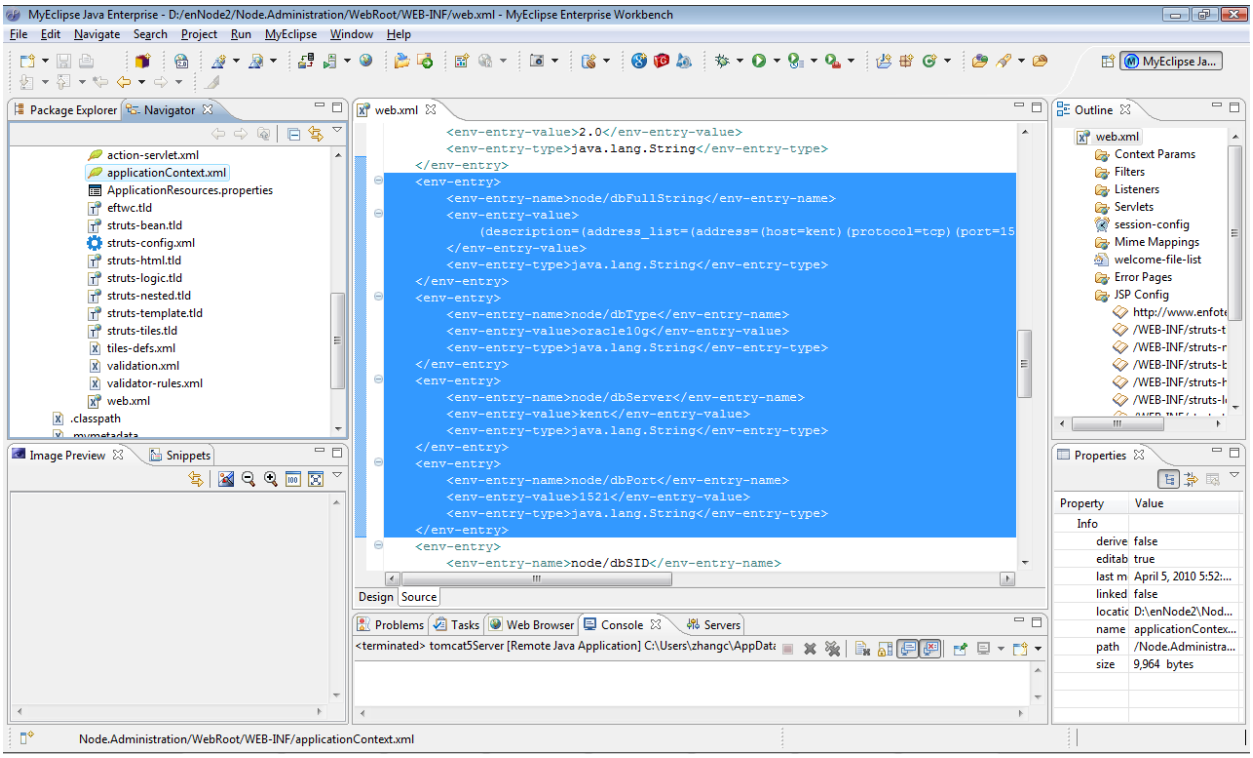
47. Affter Tomcat startup please open a browser and input:

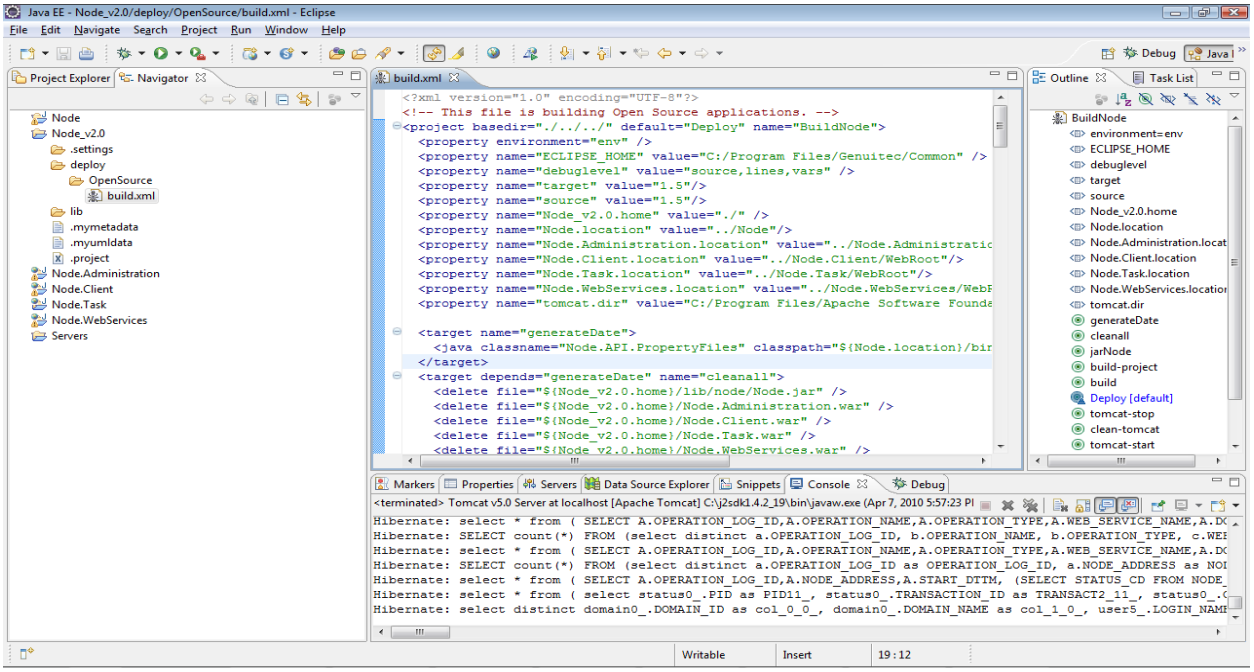
http://localhost:8080/Node.Administration/Page/Entry/Login.do

If you see below screen that means source code has been installed successfully.



Then you can refer “EN-Node Installation Guide_v1.1” to set database connection in web.xml and applicationContext.xml and start to develop Node code.



48. To build production war file please use build.xml which is under Node_v2.0/deploy/OpenSource

    The war files is under Node_v2.0/ folder