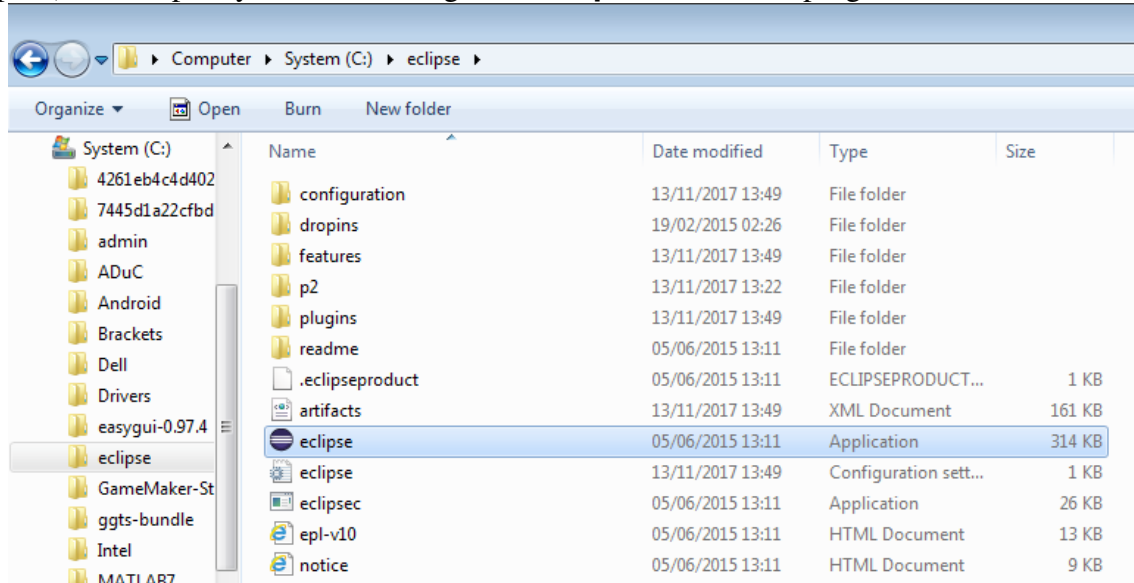


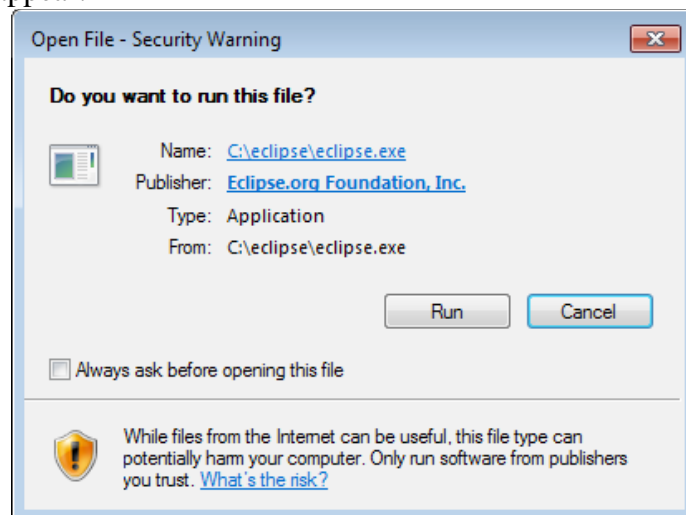
Getting Started with Java Server Pages using Eclipse

The version of Eclipse you have might not include the software necessary to use JSP. This walkthrough will show you what to do. (This walkthrough is based on Windows 7).

Start Eclipse (for example by double-clicking the **eclipse** executable program file in C:\eclipse)



The following screen will appear:



Uncheck the box *Always ask before opening this file* so it doesn't appear in future. Then click **Run**.

The Eclipse splash-screen appears:

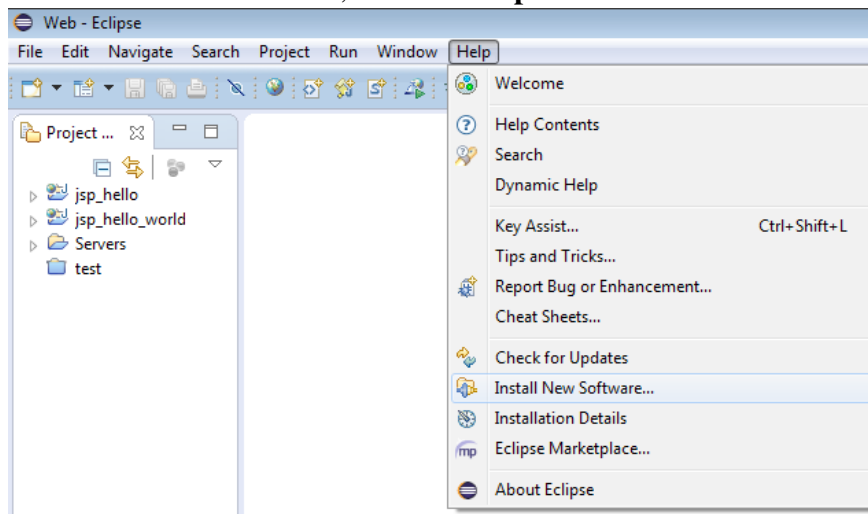


The Eclipse Welcome Screen appears:

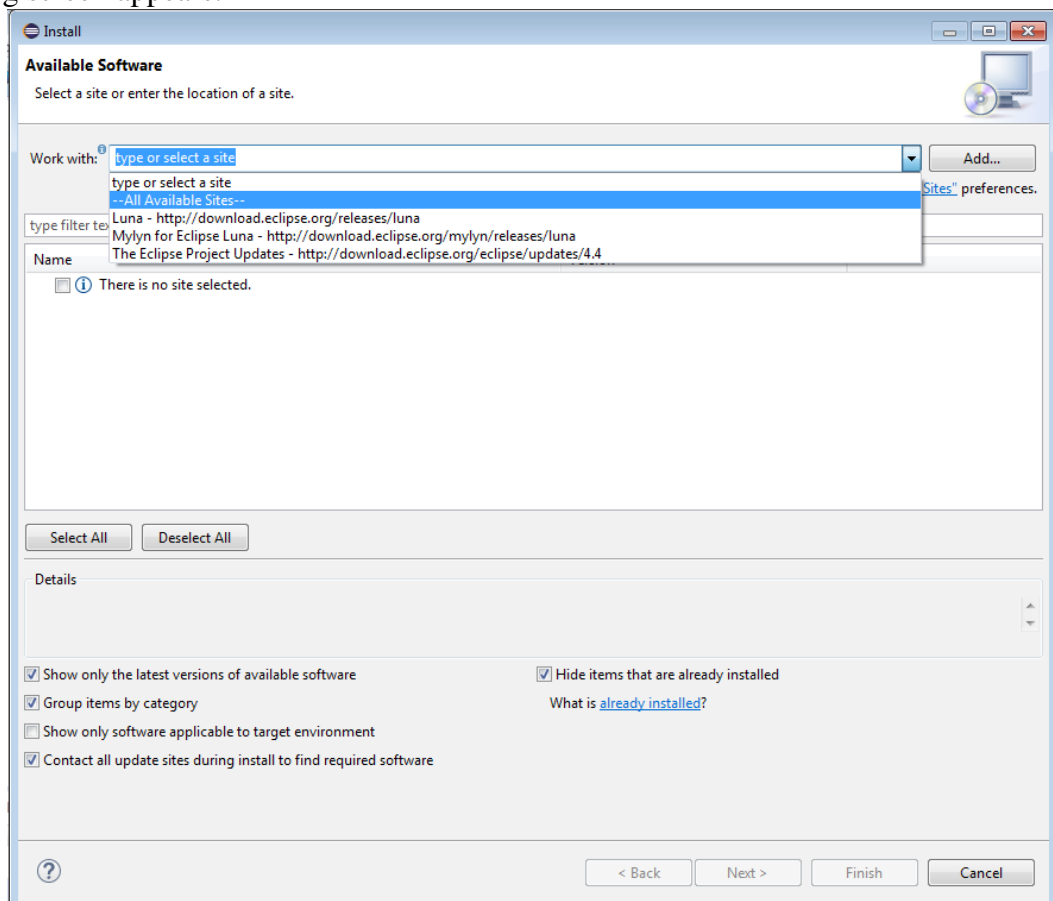


Close it by clicking on the X above.

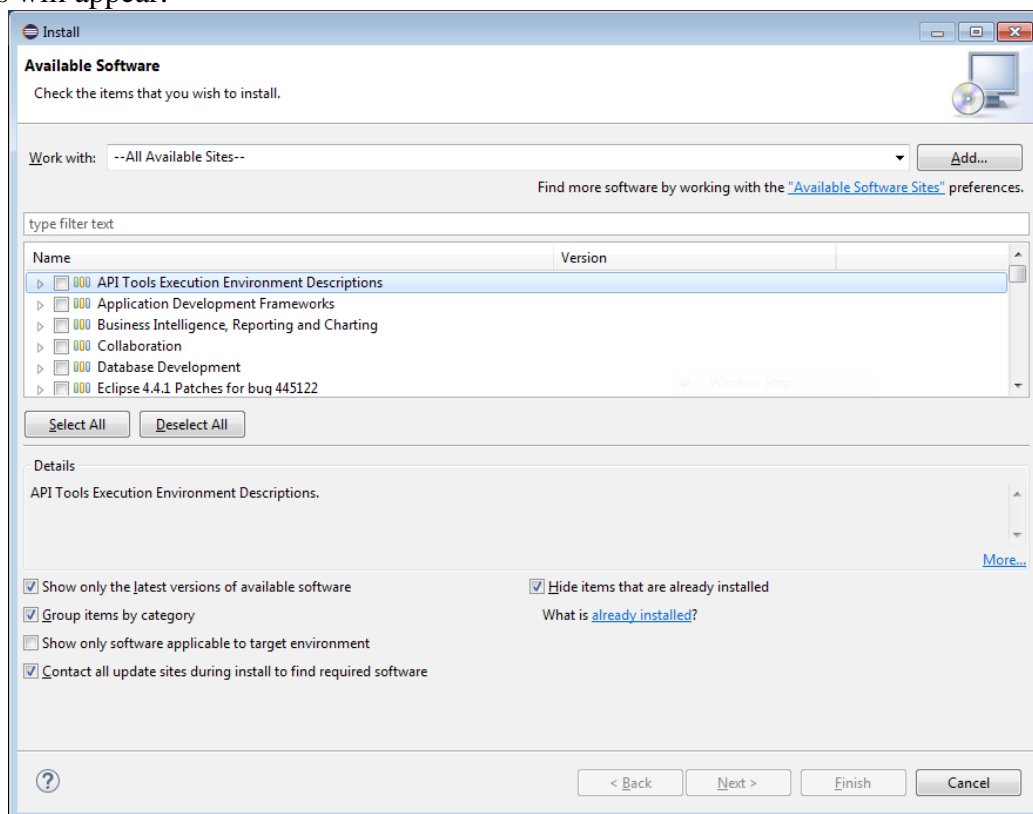
To add the software to create and use JSP, click on **Help -> Install New Software:**



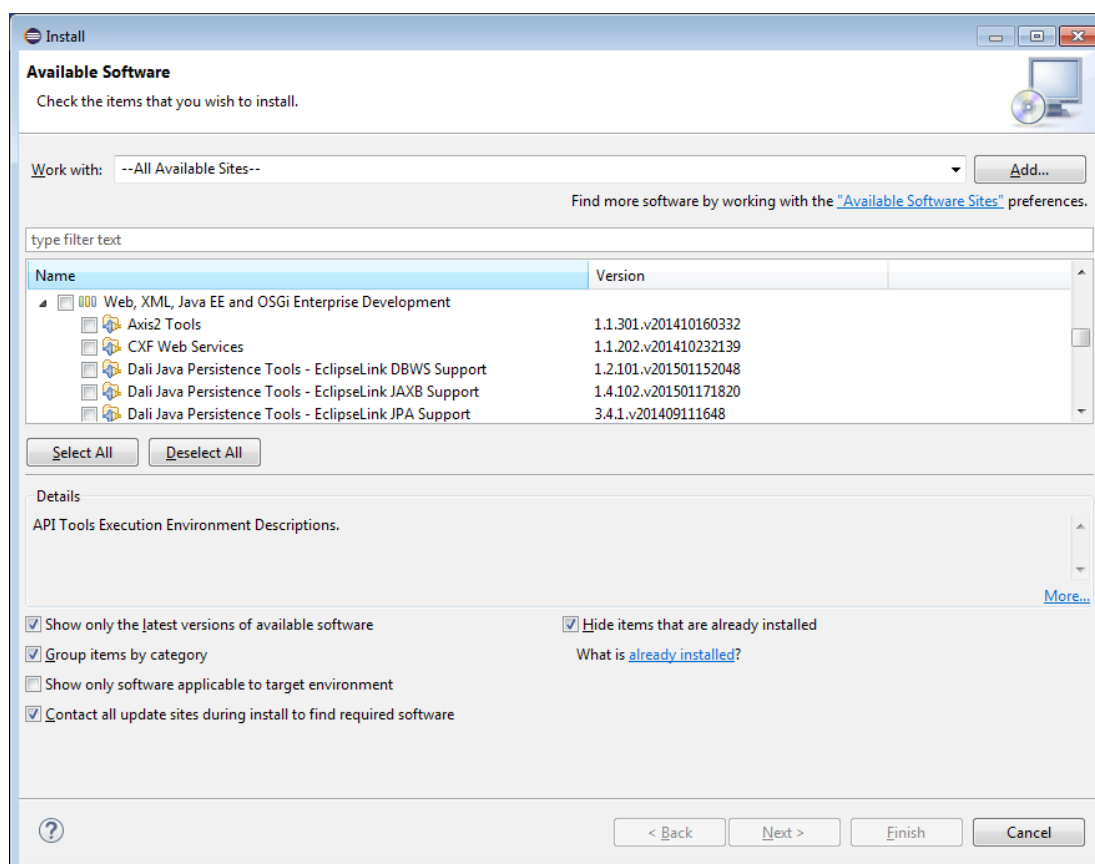
The following screen appears:



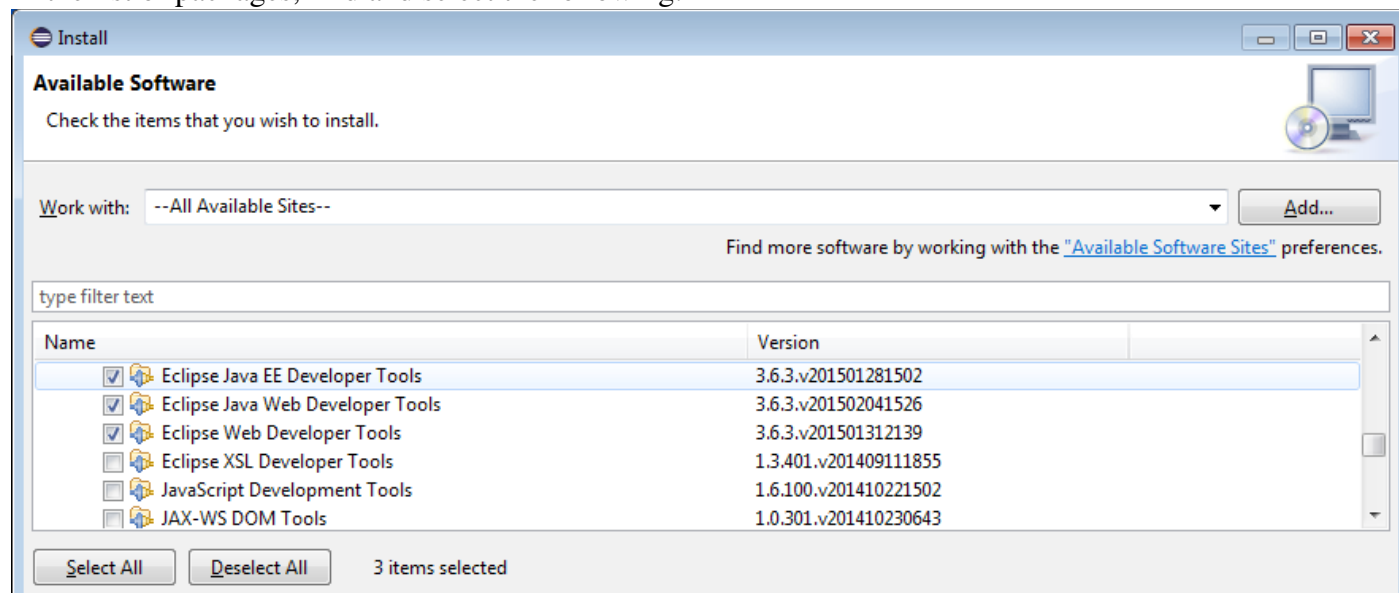
Click on *type or select a site* and select - - All Available Sites - - After a few moments, a list of Software tools/packages will appear:



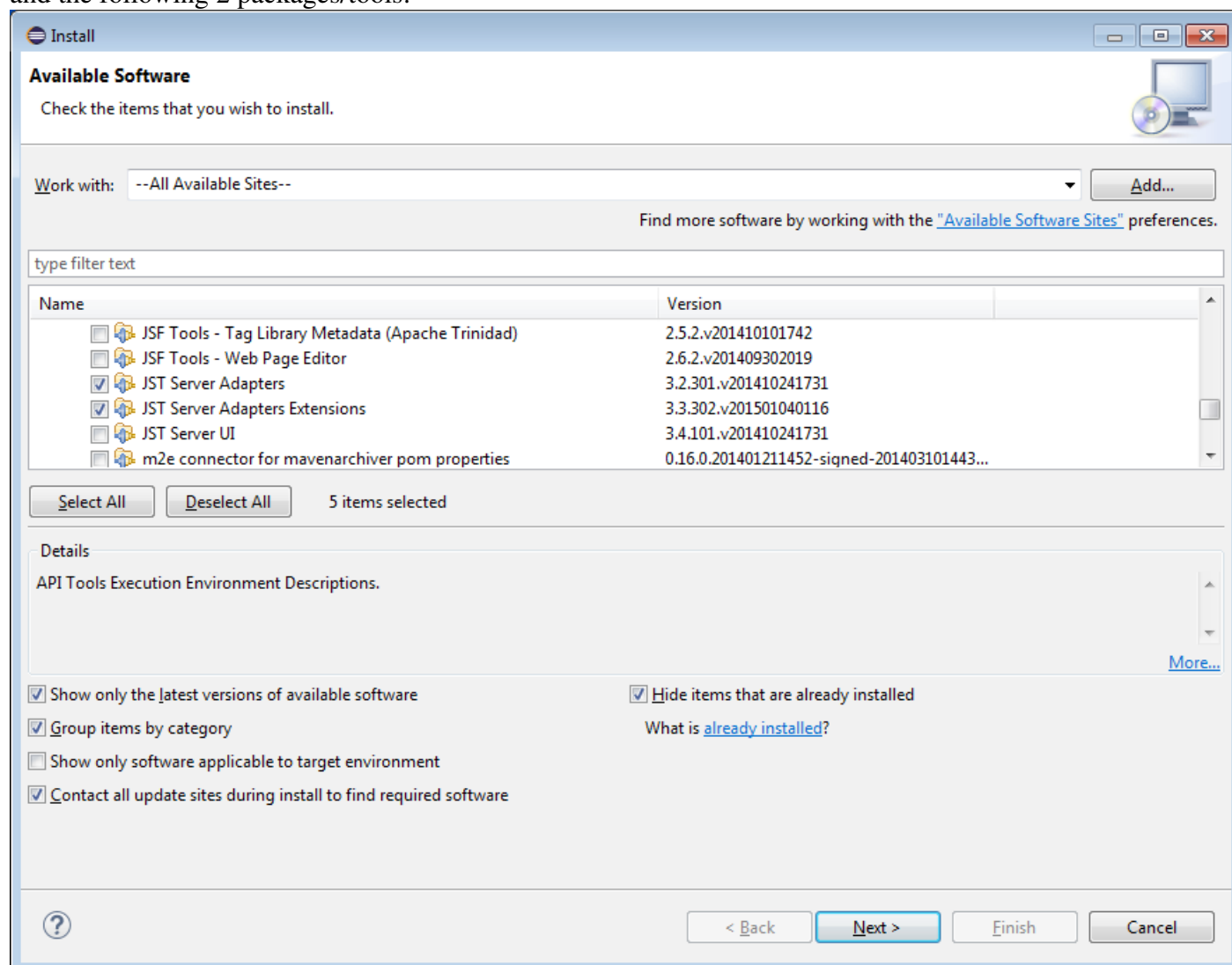
In the list of Software Tools/Packages, scroll down to Web, XML, Java EE and OSGi Enterprise Development and click on it:



In the list of packages, find and select the following:

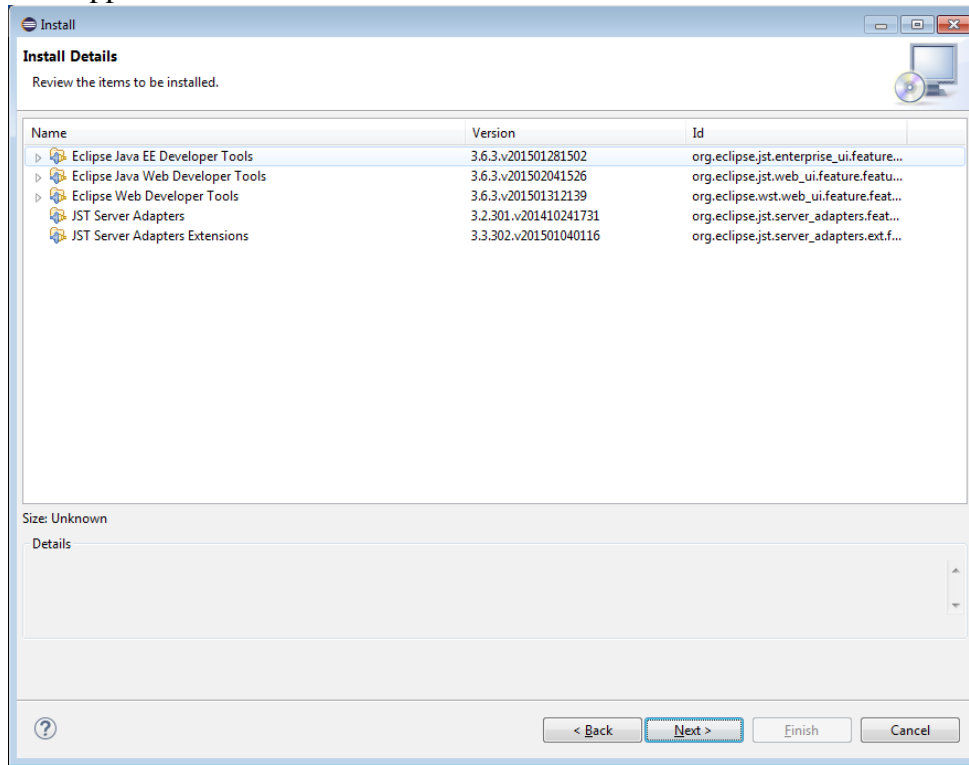


and the following 2 packages/tools:



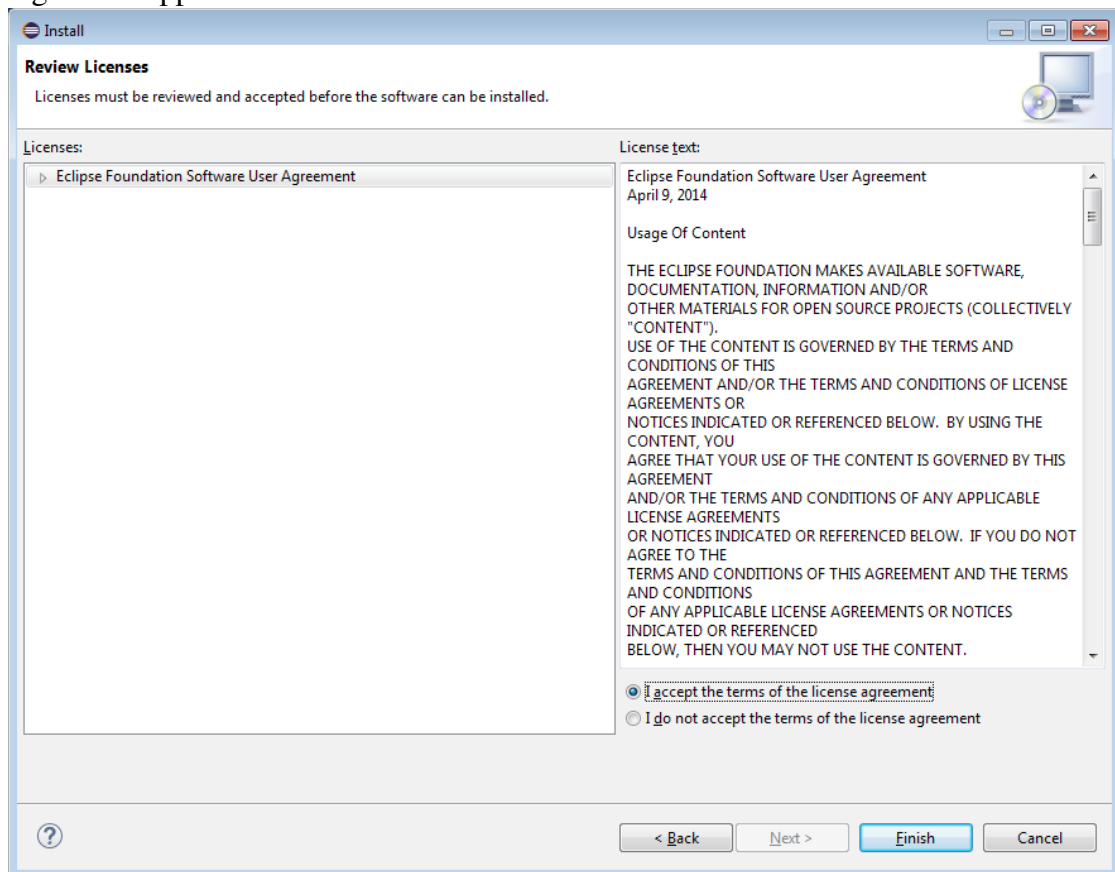
Click **Next**.

The following screen appears:



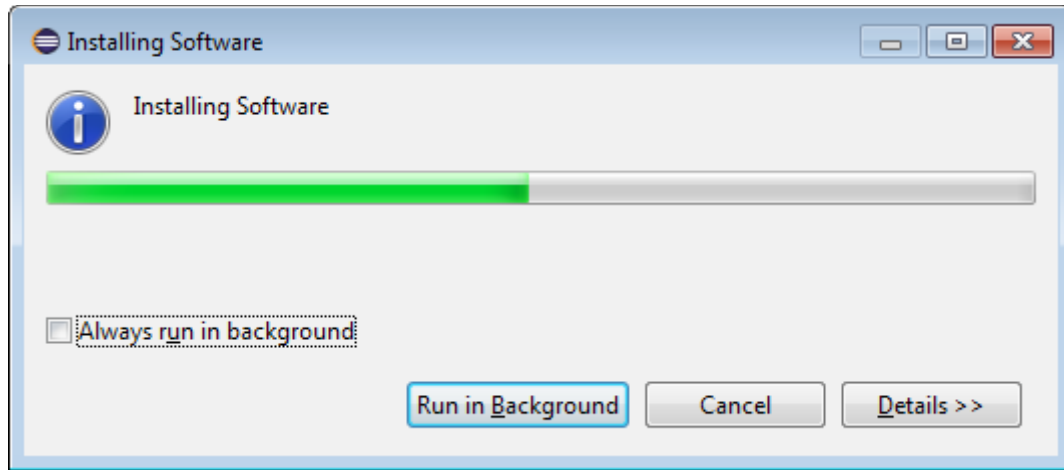
Click **Next**.

The following screen appears:

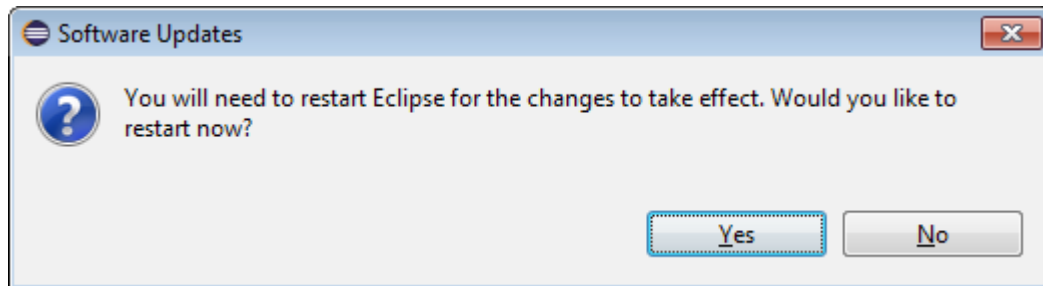


Select *I accept the terms of the license agreement* and click **Finish**.

The required software will download and install:



When the installation has completed, you'll be prompted to restart Eclipse:

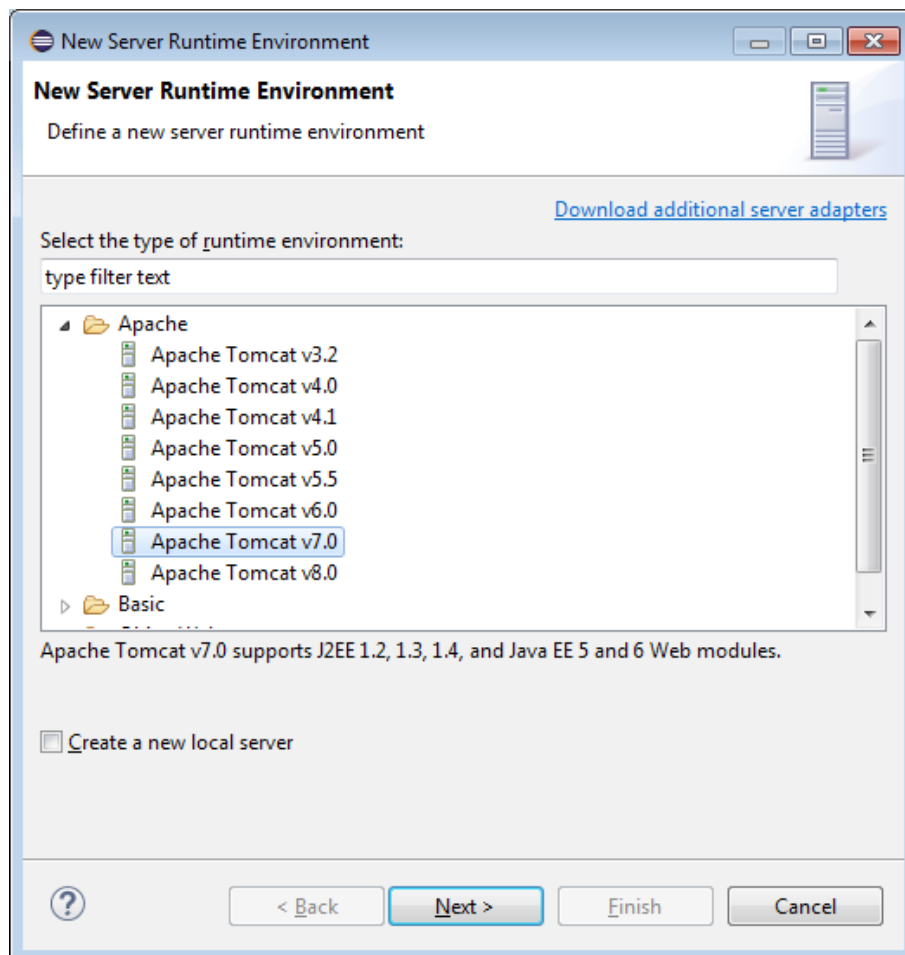


Click **Yes**. Eclipse will restart.

Click on **Window -> Preferences:**

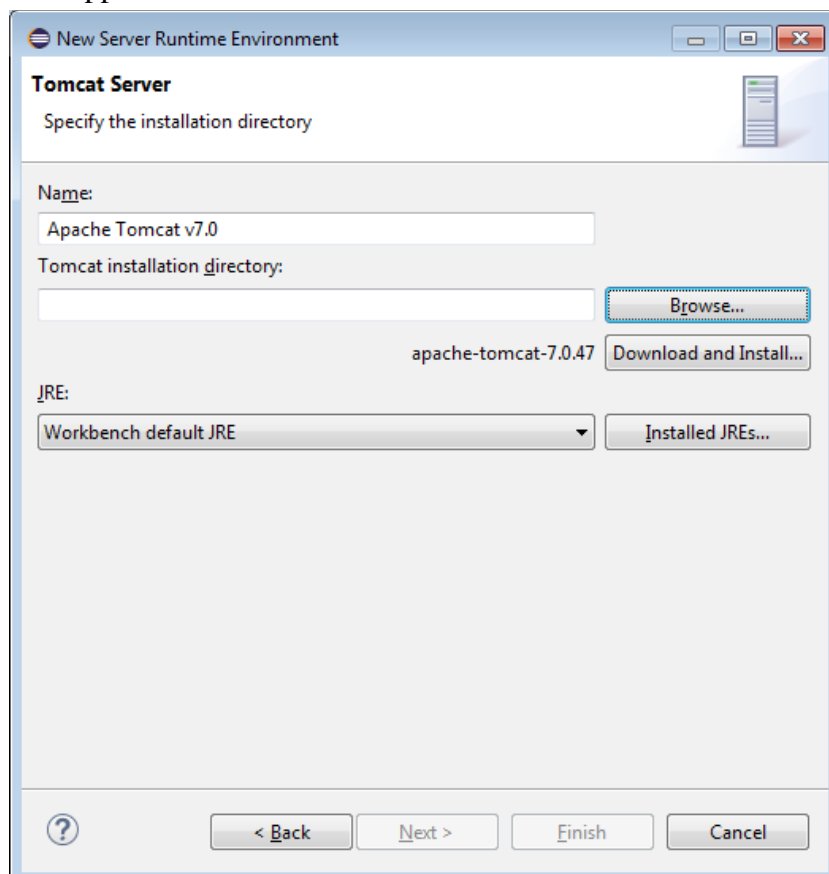


The following screen will appear:



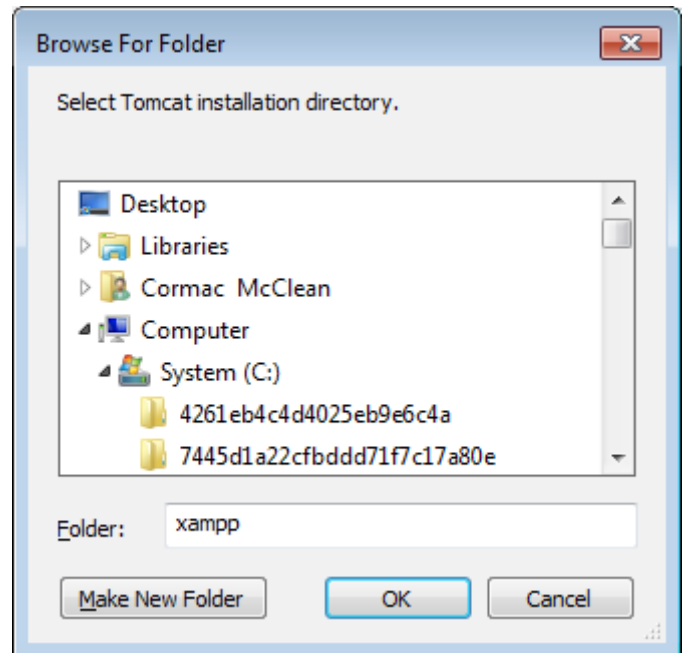
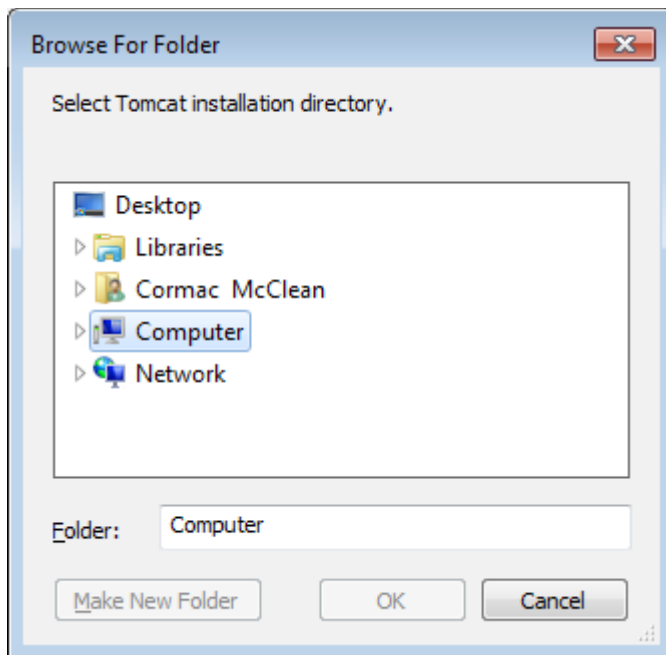
Select *Apache Tomcat v7.0* and click **Next**

The following window appears:

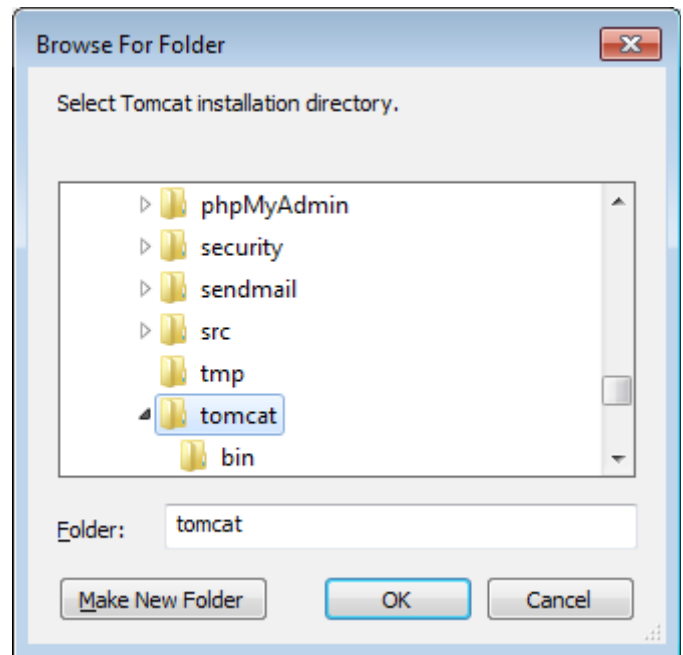
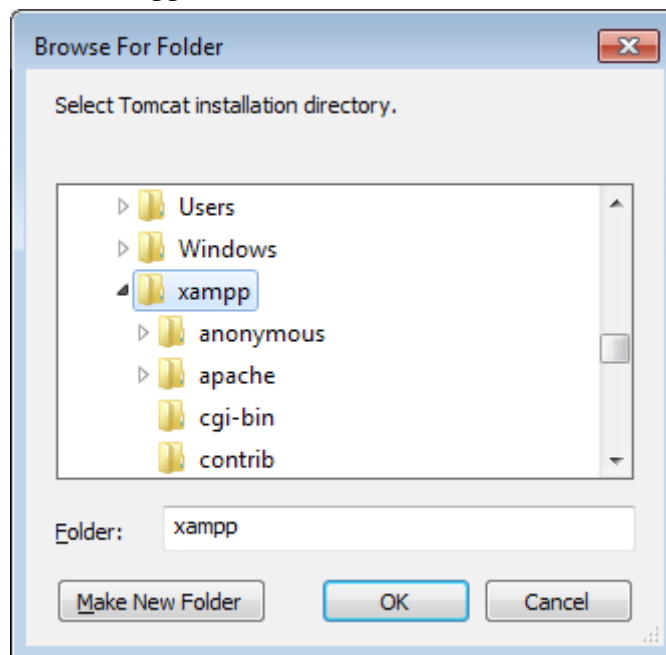


Click on **Browse**.

The following screen appears. Use it to go to Computer -> System (C:)

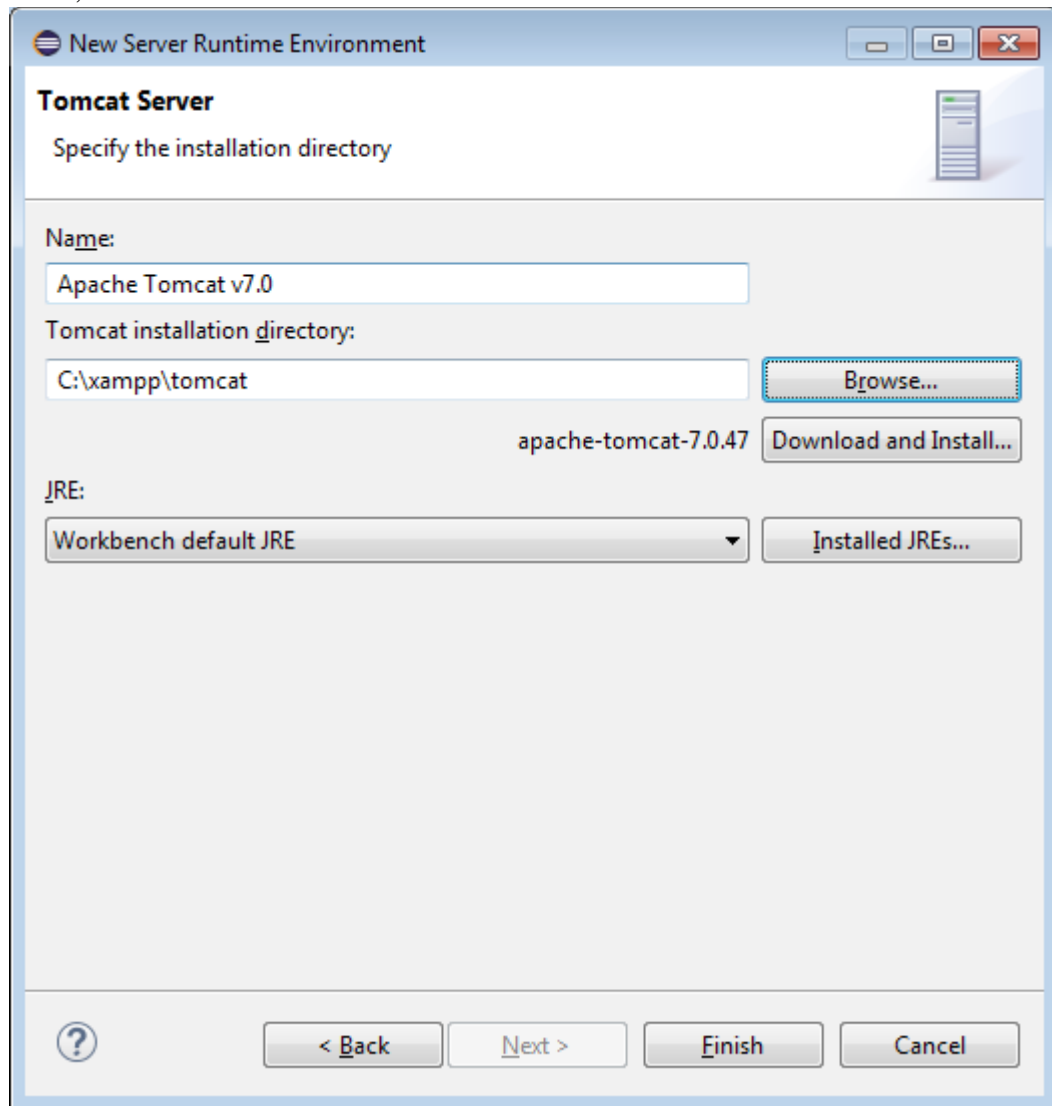


then C:\xampp\tomcat



Click **OK**.

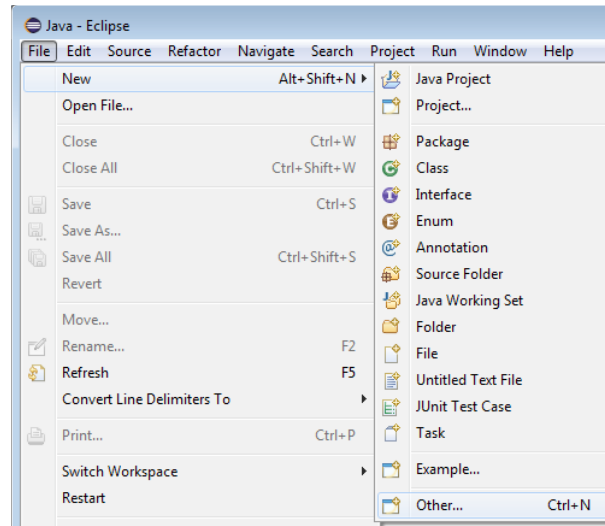
On the next screen,



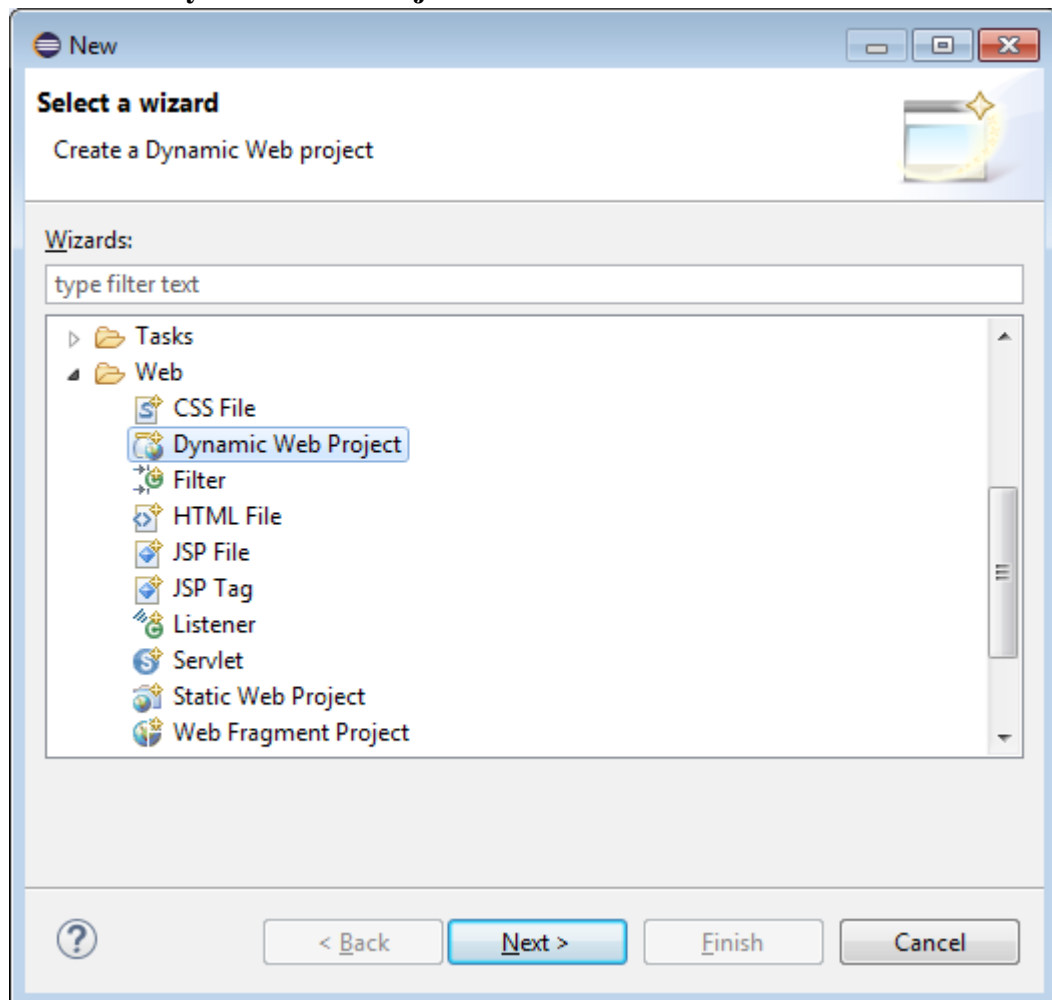
The screenshot shows a Windows-style dialog box titled "New Server Runtime Environment". Inside, the "Tomcat Server" section is active, with the instruction "Specify the installation directory". A server icon is in the top right. The "Name:" field contains "Apache Tomcat v7.0". The "Tomcat installation directory:" field contains "C:\xampp\tomcat", with a "Browse..." button to its right. Below this, "apache-tomcat-7.0.47" is displayed next to a "Download and Install..." button. The "JRE:" dropdown menu is set to "Workbench default JRE", with an "Installed JREs..." button to its right. At the bottom, there is a help icon (?) and four buttons: "< Back", "Next >", "Finish", and "Cancel".

click **Finish**.

To create a project that uses JSP, click **File -> New -> Other**



On the next screen select **Dynamic Web Project**:



and click **Next**.

Enter the name of the project:

New Dynamic Web Project

Create a standalone Dynamic Web project or add it to a new or existing Enterprise Application.

Project name:

Project location

☒ Use default location

Location:

Target runtime

Dynamic web module version

Configuration

A good starting point for working with Apache Tomcat v7.0 runtime. Additional facets can later be installed to add new functionality to the project.

EAR membership

☐ Add project to an EAR

EAR project name:

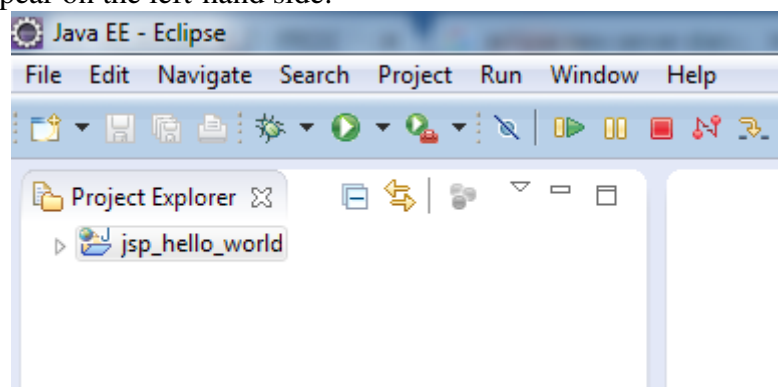
Working sets

☐ Add project to working sets

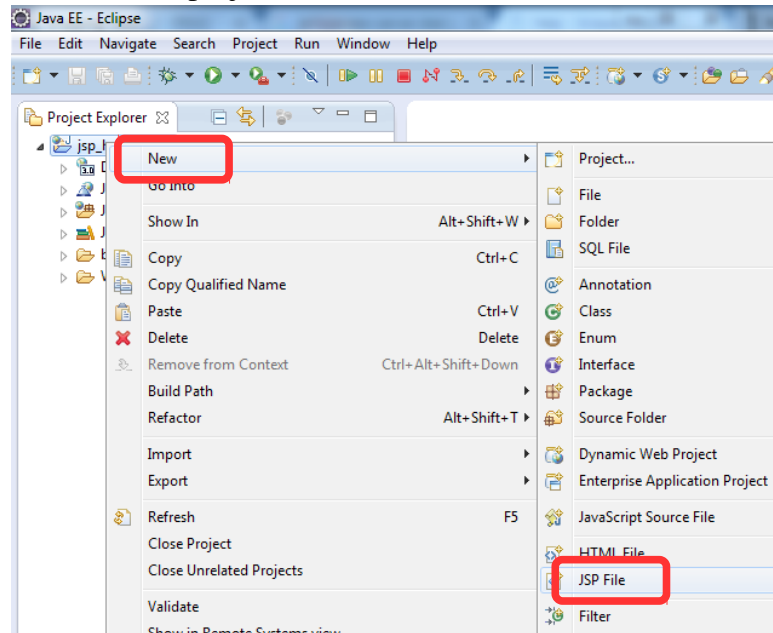
Working sets:

and click **Finish**.

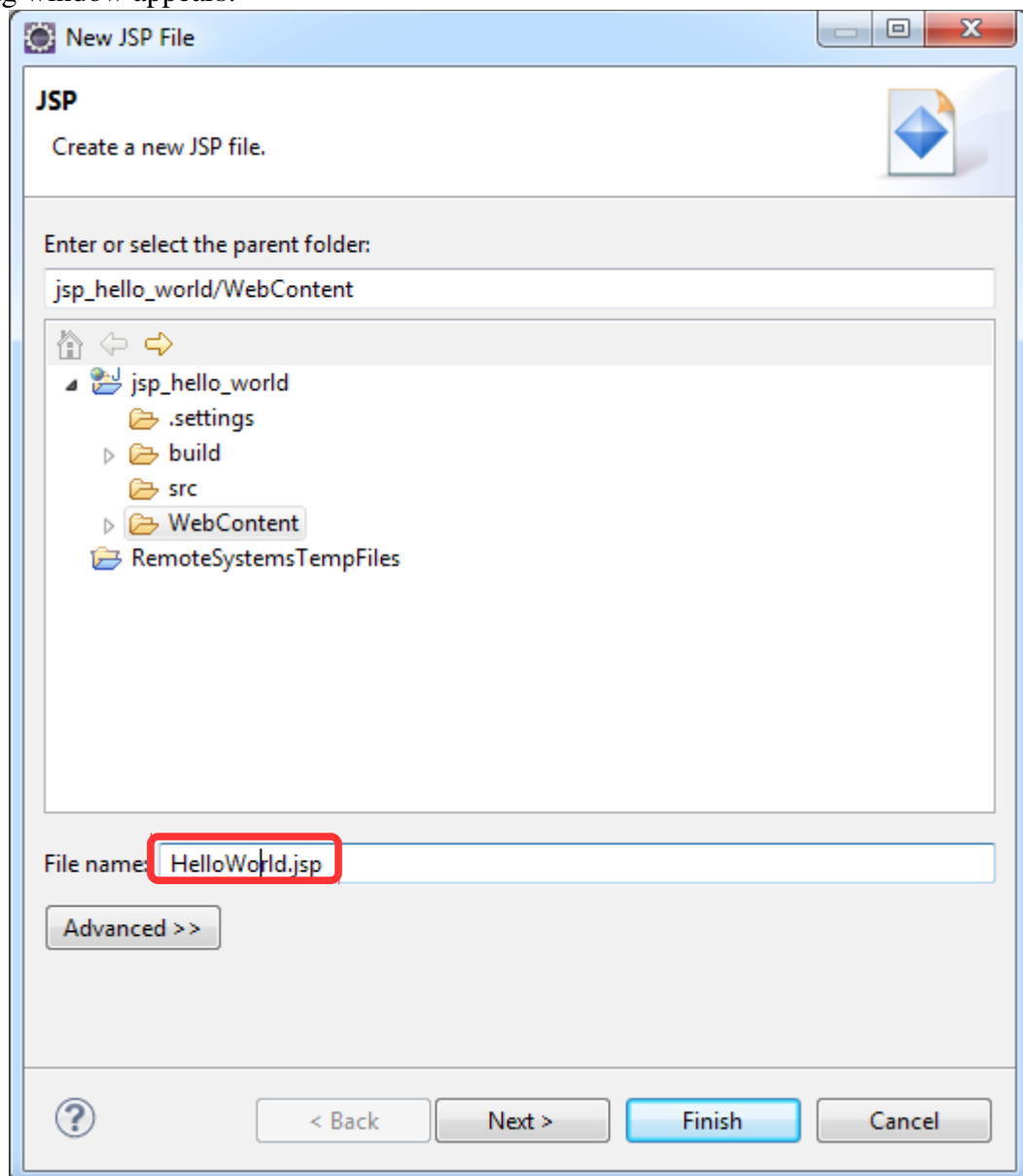
The JSP project will appear on the left-hand side:



To create a JSP file, right-click on the project and select **New -> JSP File**:



The following window appears:



Enter the file name and click **Finish**.

A skeleton file will appear with default code.



```

HelloWorld.jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Insert title here</title>
</head>
<body>

</body>
</html>

```

Here's a sample "Hello World" file:



```

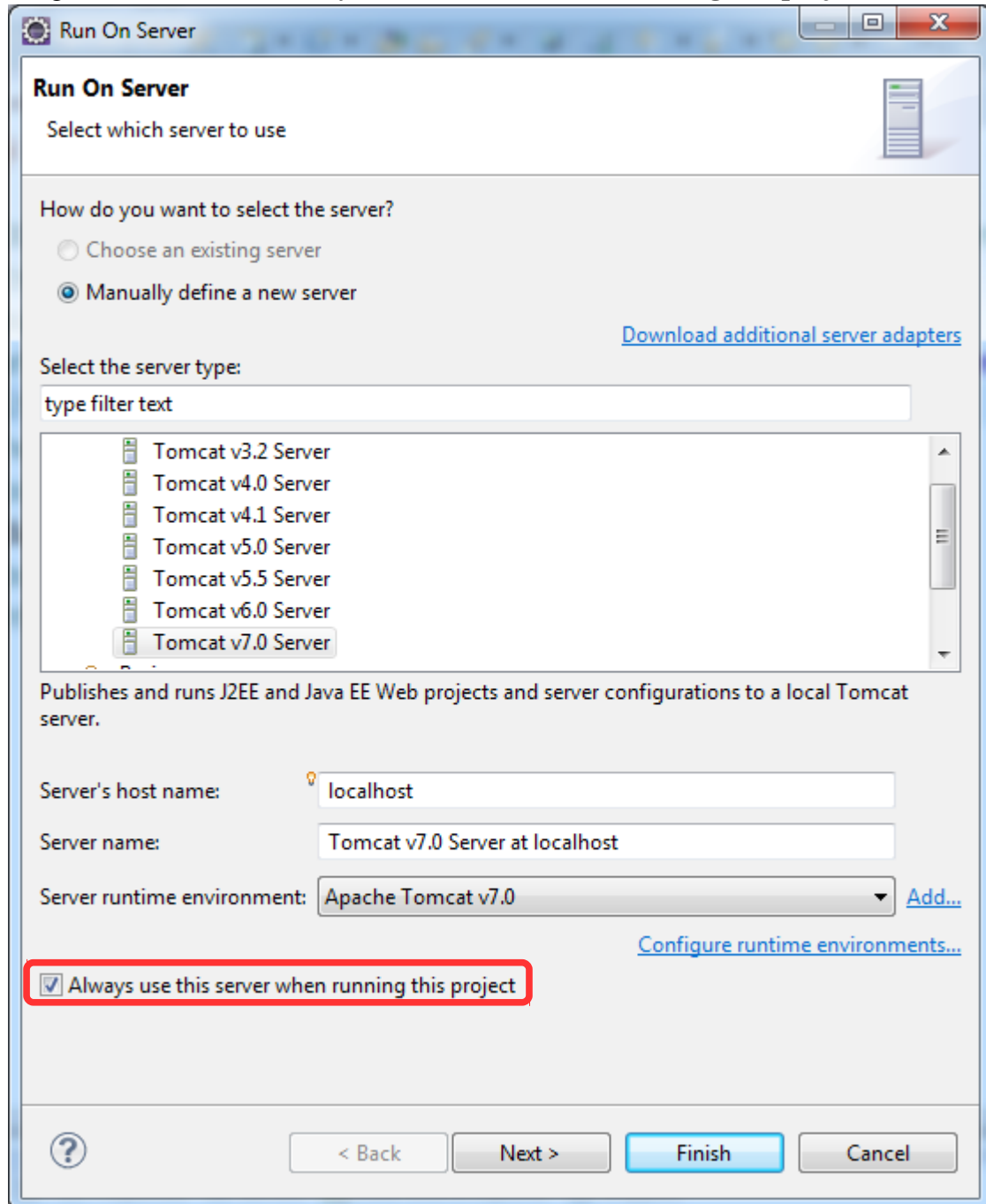
*HelloWorld.jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://ww
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Hello World</title>
</head>
<body>
Today is: <%= new java.util.Date().toString() %>
</body>
</html>

```

To run it, click on the *Run* button:

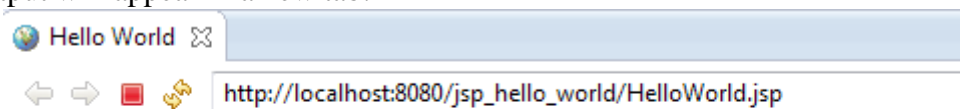


In the following window, click on **Always run this server when running this project**:



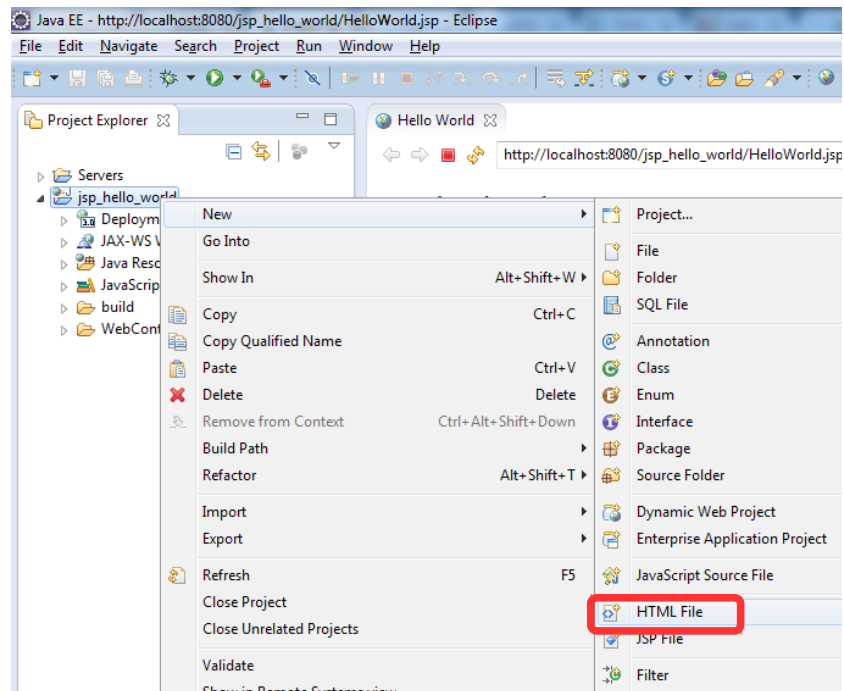
and click **Finish**.

The resulting output will appear in a new tab:

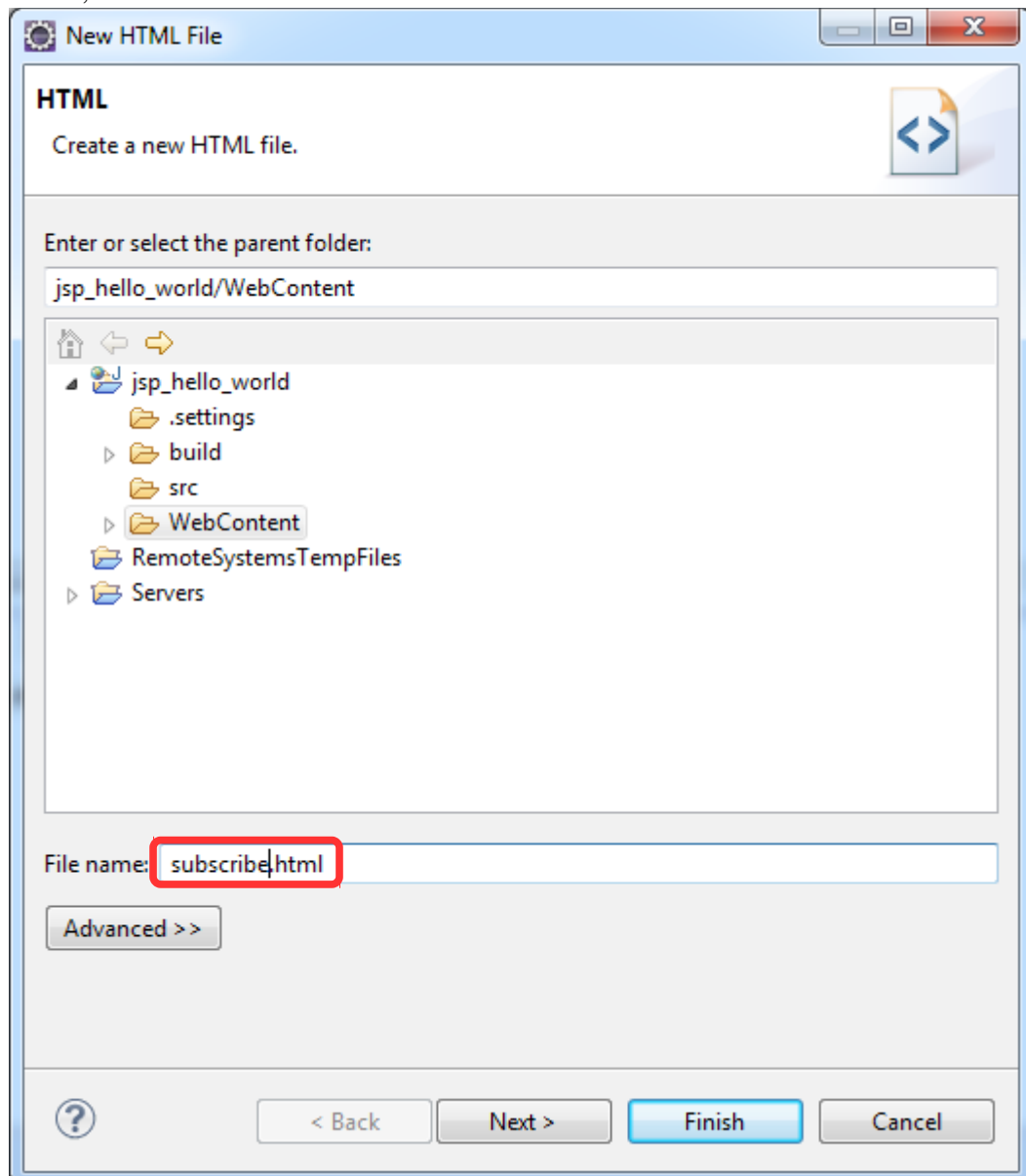


Today is: Thu Nov 09 13:32:25 GMT 2017

To create a HTML file, right-click on the project and select **New -> HTML File**:



In the next window, enter the file name:



and click **Finish**.

A skeleton file will appear:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <meta charset="UTF-8">
5 <title>Insert title here</title>
6 </head>
7 <body>
8
9 </body>
10 </html>
```

Here's a html file with a form associated with a JSP file:

```
subscribe.html
<!DOCTYPE html>
<html>
<head>
  <meta charset="ISO-8859-1">
  <title>Subscribe</title>
</head>
<body>
  <h1>Join our email list</h1>
  <p>To join our email list, enter your name and email address below. <br>
  Then, click on the Submit button.</p>

  <form action="subscribe.jsp" method="get">
    <label for="firstname">First name:</label>
    <input type="text" name="firstName"><br>
    <label for="lastname">Last name:</label>
    <input type="text" name="lastName"><br>
    <label for="emailAddress">Email address:</label>
    <input type="text" name="emailAddress"><br>
    <input type="submit" value="Submit">
  </form>
</body>
</html>
```

Here's how it looks:



Join our email list

To join our email list, enter your name and email address below.
Then, click on the Submit button.

First name:

Last name:

Email address:

Here's the JSP file:

```
subscribe.html Subscribe *subscribe.jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/T
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Thank you for Subscribing!</title>
</head>
<body>
    <%
        // get parameters from the request
        String firstName = request.getParameter("firstName");
        String lastName = request.getParameter("lastName");
        String emailAddress = request.getParameter("emailAddress");
    %>

    <h1>Thanks for joining our email list</h1>
    <p>Here is the information that you entered:</p>

    <table cellpadding="5" cellspacing="5" border="1">
        <tr>
            <td align="right">First name:</td>
            <td><%= firstName %></td>
        </tr>
        <tr>
            <td align="right">Last name:</td>
            <td><%= lastName %></td>
        </tr>
        <tr>
            <td align="right">Email address:</td>
            <td><%= emailAddress %></td>
        </tr>
    </table>

    <p>To enter another email address, click on the Back <br>
    button in your browser or the Return button shown <br>
    below.</p>

    <form action="subscribe.html" method="post">
        <input type="submit" value="Return">
    </form>

</body>
</html>
```

After running the HTML:



subscribe.html Subscribe subscribe.jsp

http://localhost:8080/jsp_hello_world/subscribe.html

Join our email list

To join our email list, enter your name and email address below.
Then, click on the Submit button.

First name:

Last name:

Email address:

Click on Submit and the JSP file will execute:

