WA2379 Servlet and JSP Programming with Tomcat 7 Using Eclipse

Classroom Setup Guide

Web Age Solutions Inc.

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Table of Contents

Part 1 - Minimum Hardware Requirements 3
Part 2 - Minimum Software Requirements 3
Part 3 - Software Provided.....4
Part 4 - Important Ghosting or Imaging Information.....4
Part 5 - Instructions.....4
Part 6 - Installing JDK 6 Update 20.....5
Part 7 - Verification of JDK 6 Update 20.....9
Part 8 - Verification of Apache Tomcat 7_0_50.....10
Part 9 - Verification of Eclipse Juno.....13
Part 10 - Summary.....14

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Part 1 - Minimum Hardware Requirements

- 1 GB RAM minimum, 2 GB recommended
- 10 GB free space in the hard disk
- USB port

Part 2 - Minimum Software Requirements

- One of the following Windows versions:
  - Windows XP Professional with SP3
  - Windows Vista (Business, Enterprise, or Ultimate)
  - Windows 7 (Professional, Enterprise, or Ultimate)
- One of the following web browsers:
  - Internet Explorer 7 or 8
  - Firefox 3.X
  - Chrome
- Adobe Acrobat Reader
- Zip extraction utility
- Apache Tomcat 7.0.50 *
- Apache Derby 10.7.1.1 *
- Eclipse for Java EE Juno SR2 *
- Java JDK 6 Update 20 *

* - indicates software provided as part of the courseware.

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Part 3 - Software Provided

You will receive the following file:

- **WA2379.ZIP**

All other software listed under Minimum Software Requirements is either commercially licensed software that you must provide or software that is freely available off the Internet.

Part 4 - Important Ghosting or Imaging Information

The software for this course can be ghosted.

Part 5 - Instructions

__1. Login with an administrator account. NOTE. THIS COURSE REQUIRES ADMIN PRIVILEGES TO THE STUDENT ACCOUNT.

__2. Extract the **WA2379.ZIP** file to **C:**

__3. Review that the following folders were created:

- **C:\LabFiles**
- **C:\Software\apache-tomcat-7.0.50**
- **C:\Software\db-derby-10.7.1.1-bin**
- **C:\Software\eclipse**

__4. Review that the following files were created:

- **C:\Software\jdk-6u20-windows-i586-p.exe**

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Part 6 - Installing JDK 6 Update 20

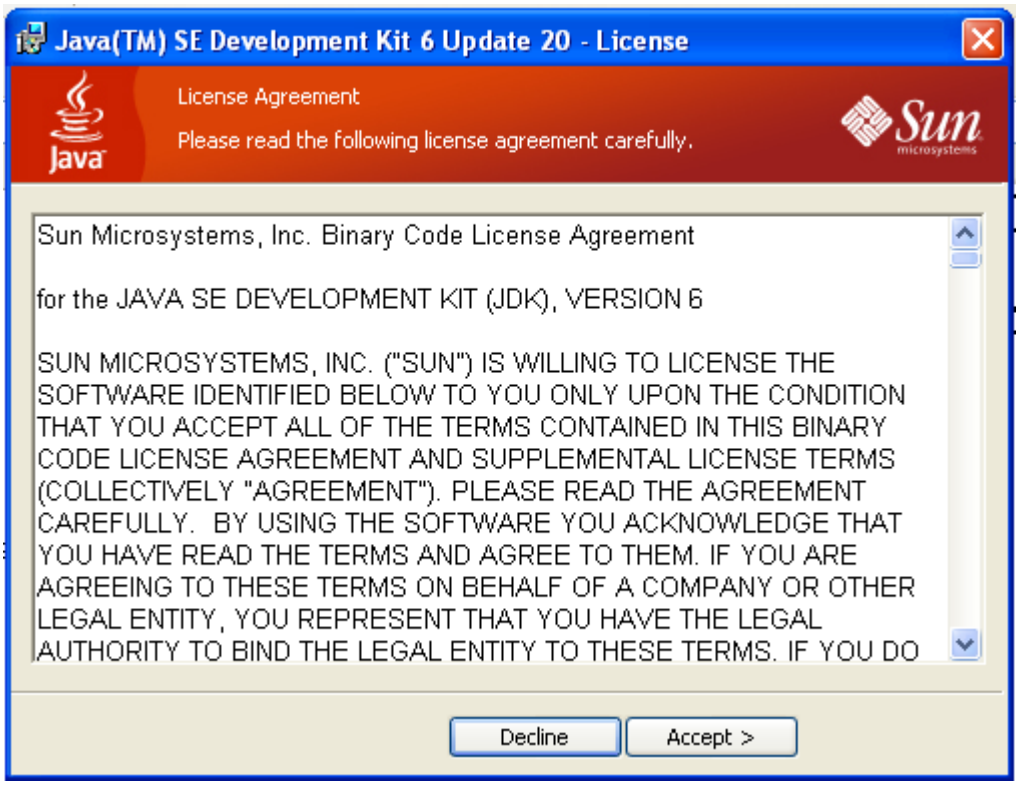
__1. Make sure there is no previous Java version already installed on the system. You can check this by using the Windows "Add/Remove Programs" utility. For the best compatibility with the labs it is suggested that all previous versions of Java be uninstalled before proceeding with these instructions. If this is an issue, please contact the setup support person for the course.

__2. From the **C:\Software** directory run the following file:

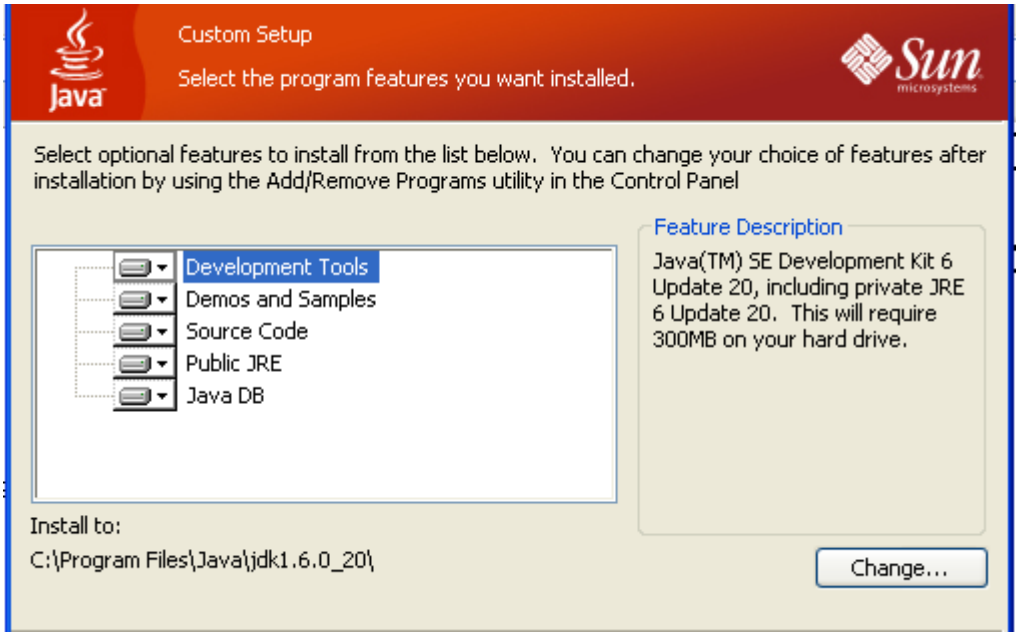
```
jdk-6u20-windows-i586.exe
```

Note: If using prompted by a security prompt allow the installation to continue.

__3. After a few moments the license agreement will appear. Press the **Accept** button to move to the next step.

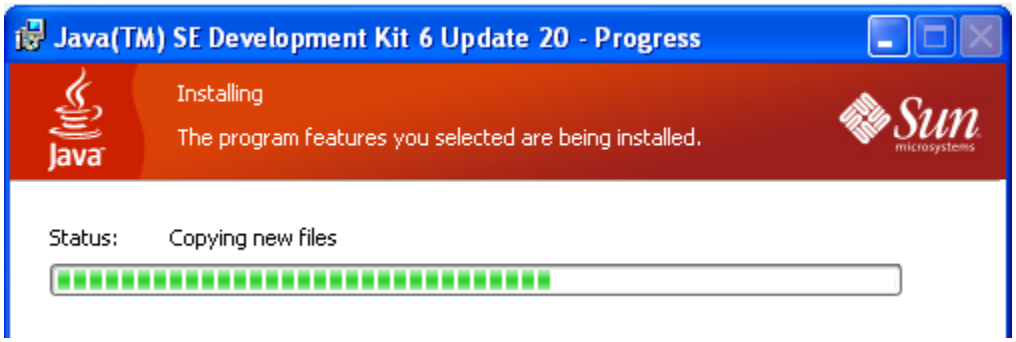


__4. Leave the defaults for installation location and options, and press the **Next** button.

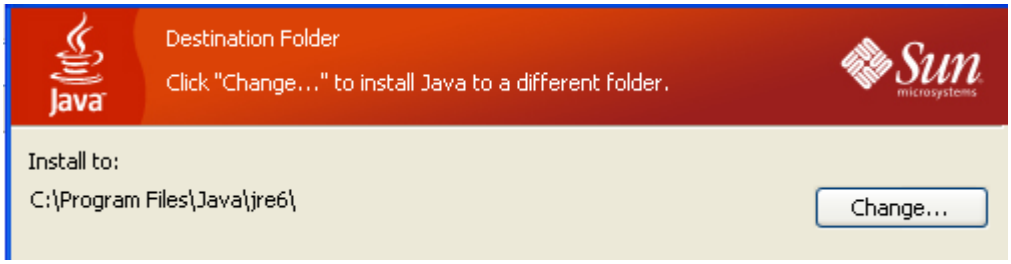


Note: The installation directory may be slightly different. The list of features may not include 'Java DB' but this is OK.

The installation will begin installing files.



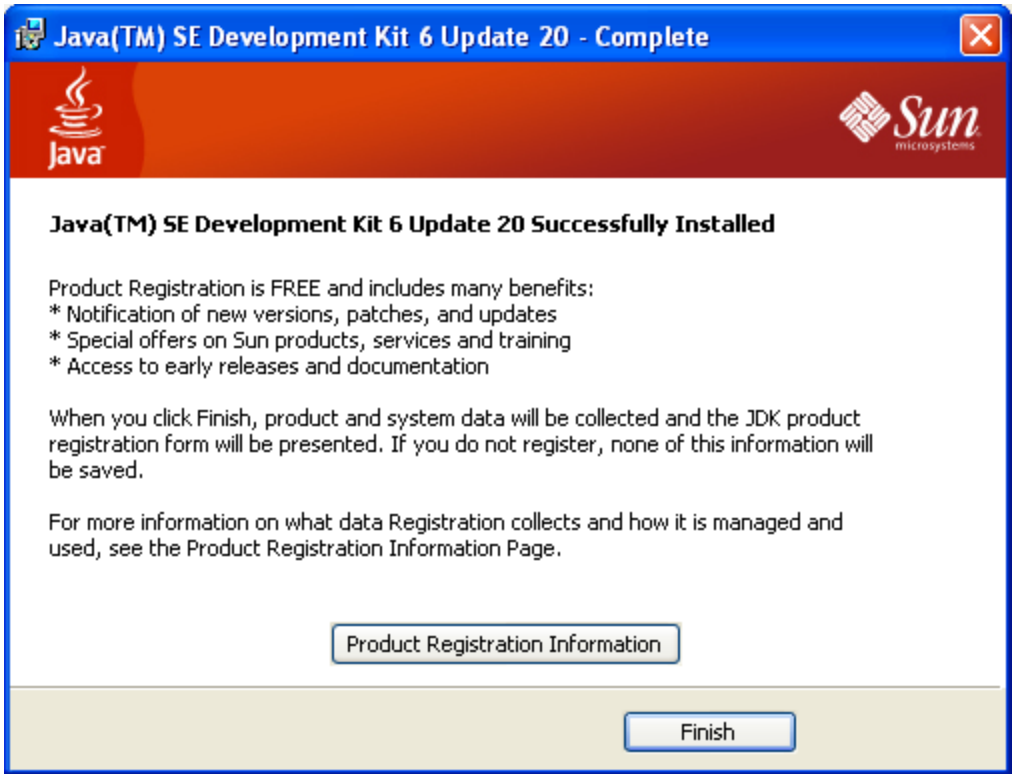
__5. The Destination Folder will appear, leave the default folder and click **Next**.



Note: The installation directory may be slightly different.

Wait until the software is completely installed.

__6. Click **Finish**.



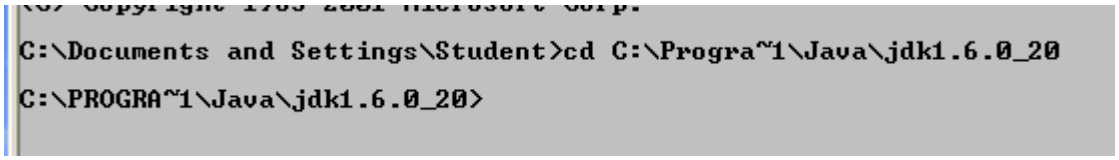
__7. Close any browser that appears asking to register the JDK software.

Set the Environment variables.

__1. Open a Command Prompt. You can do this with '**Start → Programs → Accessories → Command Prompt**'.

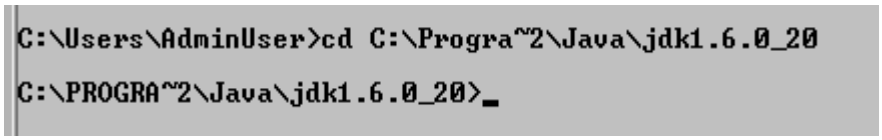
__2. Use the 'cd' command to attempt to switch to the following directory. This will verify the presence of a directory used later so make sure you do not get any errors about not being able to “find the path specified”.

```
cd C:\Progra~1\Java\jdk1.6.0_20
```



Note: On a Windows Vista/7 setup the installation directory may be slightly different. You may need to use the following directory instead of the one listed above:

```
C:\Progra~2\Java\jdk1.6.0_20
```



Some of the remaining steps will use the slightly different directory.

__3. From **Start > Control Panel**, double click on **System**.

Note: If the "Classic" control panel is not displayed you might need to click the "System and Maintenance" link.

__4. If using Windows Vista click the link for "Advanced System Settings".

__5. Select the **Advanced** tab.

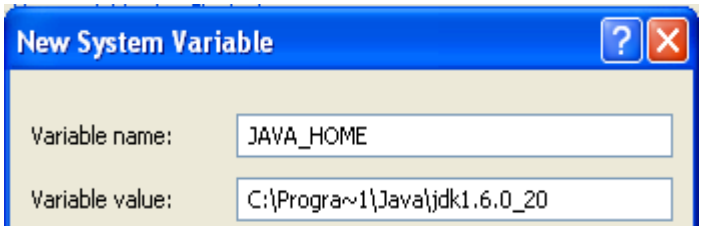
__6. Click the **Environment Variables** button.

__7. Under the System Variables list, click the **New** button.

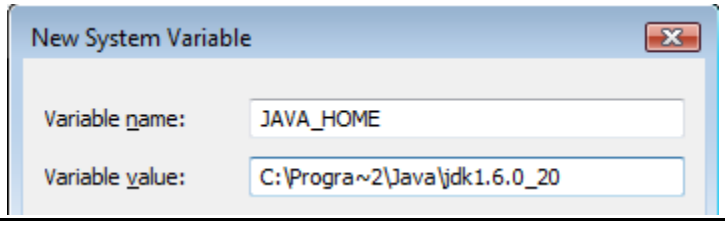
__8. Enter **JAVA_HOME** as Variable name.

__9. As Variable value enter the following. This should be the value you verified in earlier steps.

```
C:\Progra~1\Java\jdk1.6.0_20
```



Note: If you are using a 64-bit OS use '**C:\Progra~2\Java\jdk1.6.0_20**' instead.

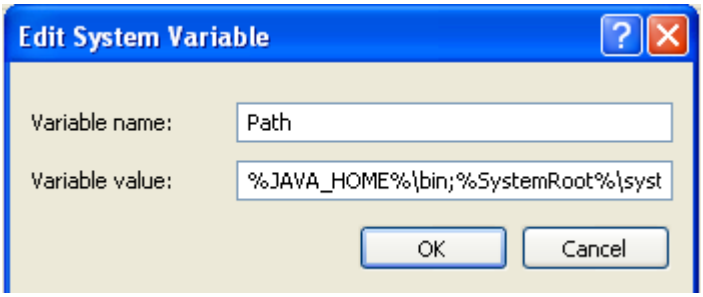


__10. Click **OK** to create the variable.

__11. From the *System Variables* list, select **Path** and click **Edit**.

__12. At the beginning of the line enter the following. Make sure to include the semi-colon on the end:

```
%JAVA_HOME%\bin;
```



__13. Click **OK**.

__14. Click **OK** to close the *Environment Variables* window.

__15. Click **OK** to close the *System Properties* window.

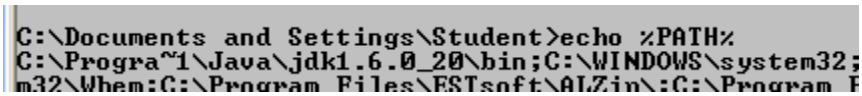
Part 7 - Verification of JDK 6 Update 20

__1. Open a Windows command prompt. You can do this by selecting '**Start -> Run**', entering '**cmd**', and then pressing the **OK** button. Make sure it is a new command prompt and not one open previously.

__2. Enter the following command:

```
echo %PATH%
```

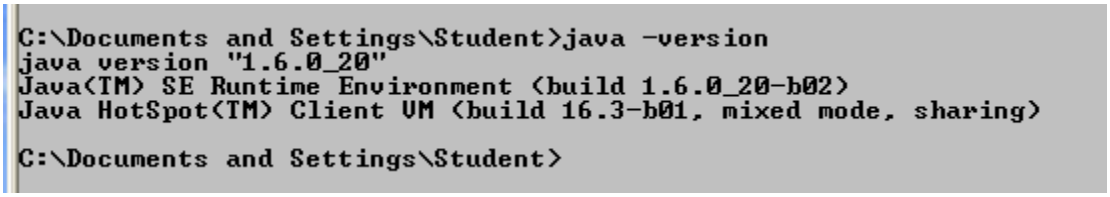
Make sure you see the Java 'bin' directory listed at the beginning as shown below.



__3. Enter the following command:

```
java -version
```

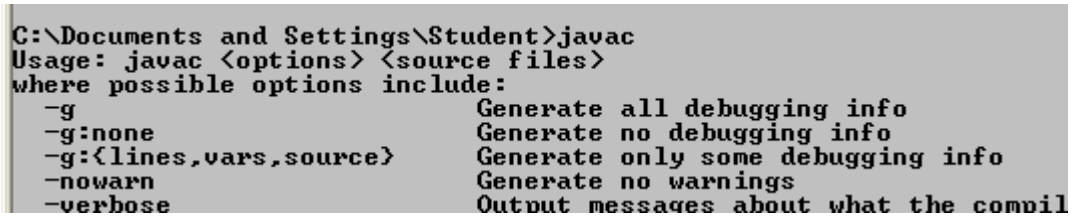
Make sure you see the response shown below.



__4. Enter the following command:

```
javac
```

Verify that you get the options to run the Java compiler:



__5. Close the command prompt window and any extra windows that are open.

__6. Restart the computer.

JDK 6 Update 20 is now installed!

Part 8 - Verification of Apache Tomcat 7_0_50

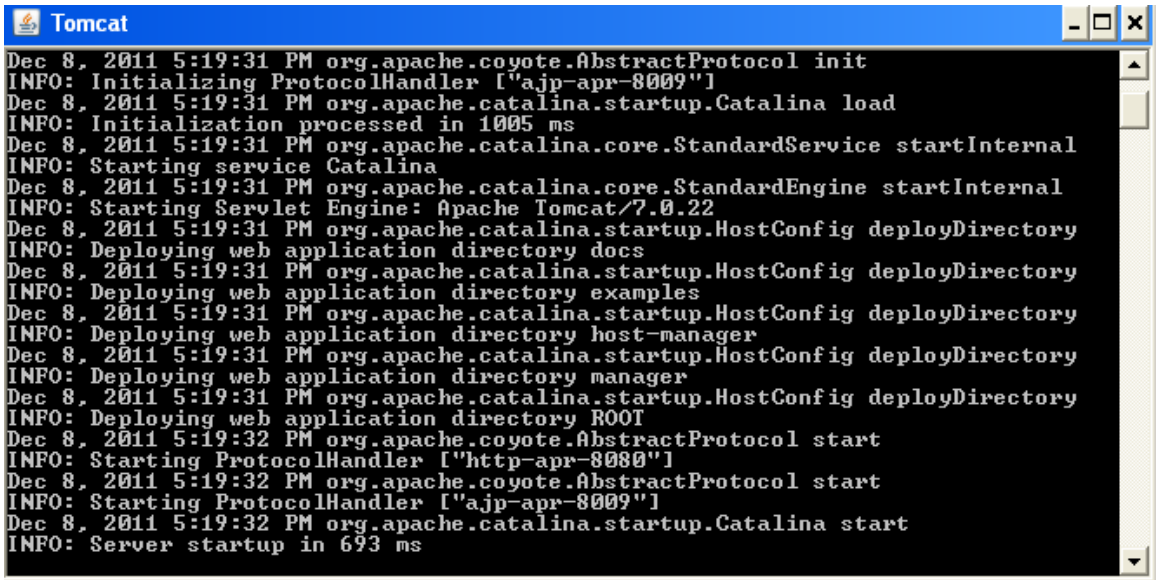
__1. Open the following directory:

```
C:\Software\apache-tomcat-7.0.50\bin
```

__2. Run the file:

```
startup.bat
```

Apache will start in a new window.



__3. Open again the directory:

```
C:\Software\apache-tomcat-7.0.50\bin
```

__4. Run the file:

```
shutdown.bat
```

Apache will stop and the window where it was running will close.

__5. Close all windows.

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Set the Environment variables.

__1. From **Start > Control Panel**, double click on **System**.

__2. If using Windows Vista click the link for "Advanced System Settings".

__3. Select the **Advanced** tab.

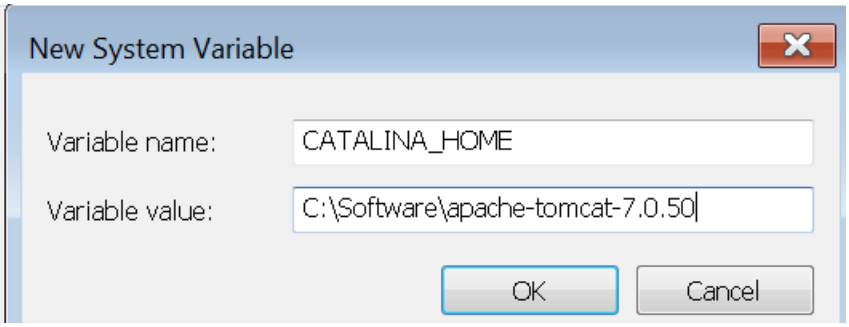
__4. Click the **Environment Variables** button.

__5. Under the System Variables list, click the **New** button.

__6. Enter **CATALINA_HOME** as Variable name.

__7. As Variable value enter the following. This should be the value you verified in earlier steps.

```
C:\Software\apache-tomcat-7.0.50
```



__8. Click **OK** to create the variable.

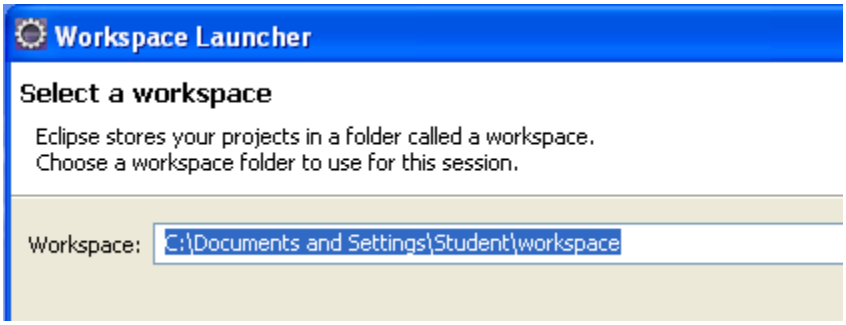
__9. Click **OK** twice.

Part 9 - Verification of Eclipse Juno

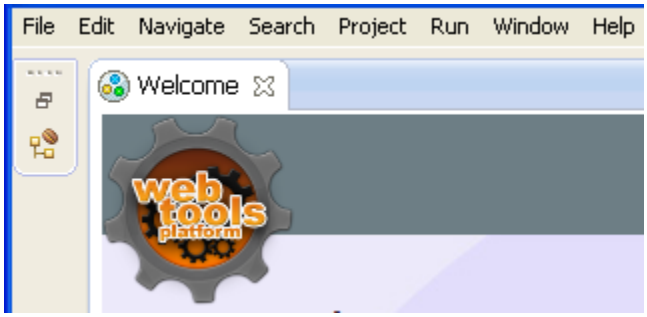
__1. Run C**:\Software\eclipse\eclipse.exe**

Eclipse Juno will start.

__2. A Workspace Launcher dialog will appear. Leave the default workspace directory and click **OK**.



Eclipse will open showing the Welcome page. (The Welcome screen may vary between versions).



__3. From the menu, select **File > Exit** to close Eclipse. Confirm you want to exit Eclipse if prompted.

Eclipse Juno is working fine.

Part 10 - Summary

You have successfully installed the software for this course!

If you have any question please contact us by email at support@webagesolutions.com

From US and Canada call: 1-877-812-8887 ext. 26

International call: 416-406-3994 ext. 26

Congratulations. The installation for this course has been completed.