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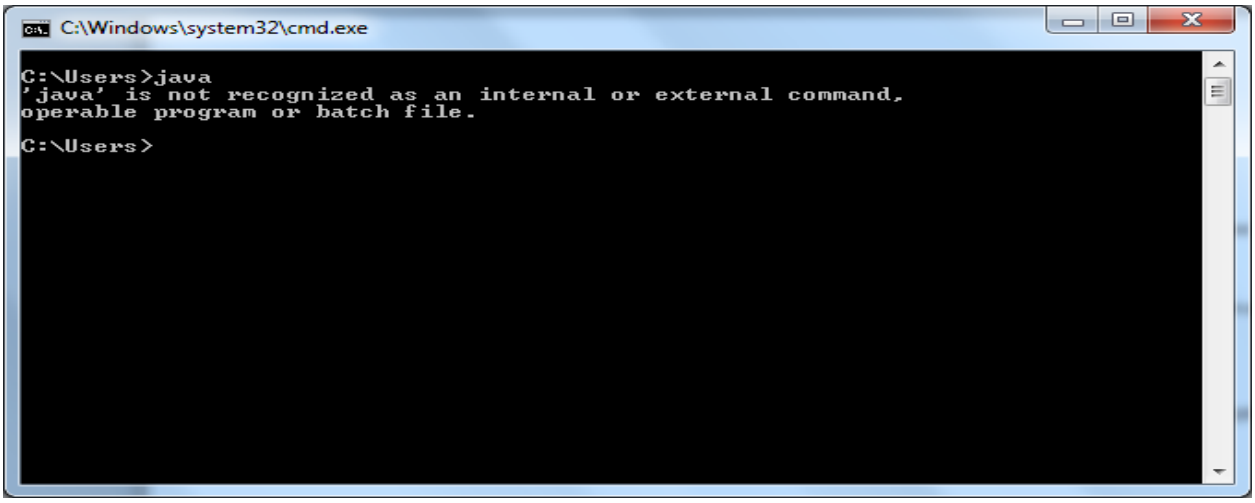
Java SDK Installation

***Purpose*:** To run any of your Eclipse scripts on Java, JUnit or TestNG, you will need the Java Virtual Machine which is part of the Java SDK(software development kit).

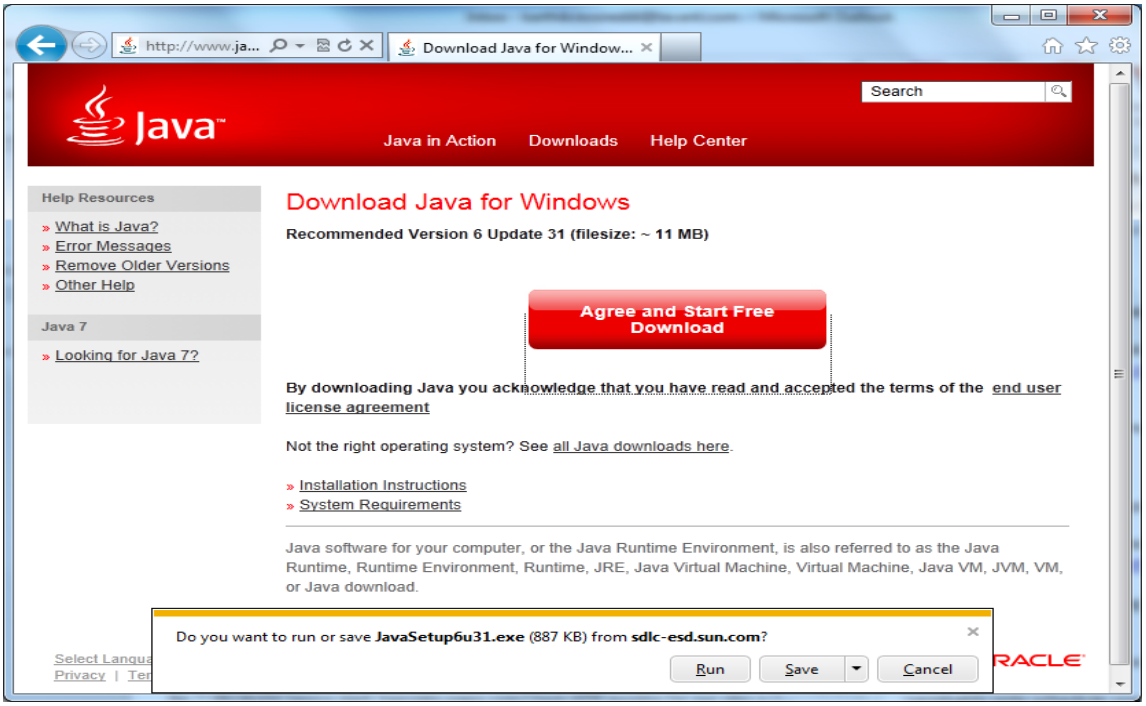
Is Java Installed on your machine? To check, open command prompt "CMD" (How? Go to Start, Run and type cmd) and run the following from any directory and type "java" and hit enter. If you get a message like the below screenshot, Java SDK is not installed correctly.



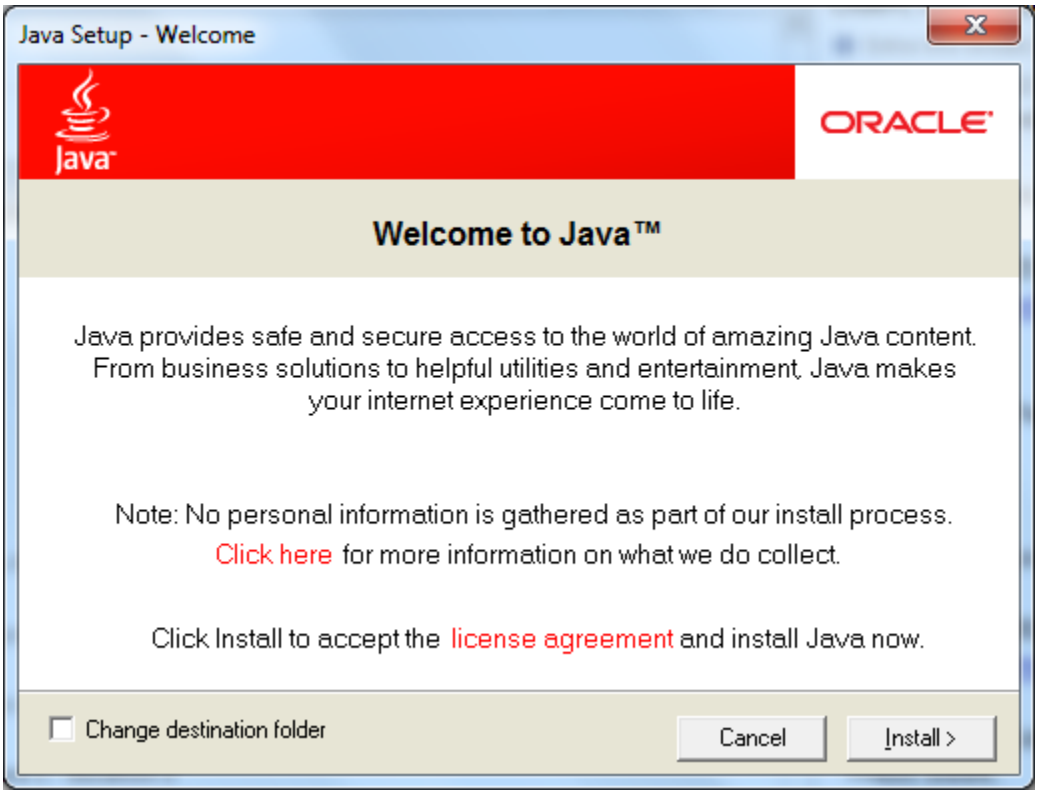
How to Install Java SDK

Step 1: Visit Java website http://www.java.com/en/ and click on Free Java Download.

Step 2: Click on “Agree and Start Free Download” button. You can use Java 6 version. Next, click on Run button.

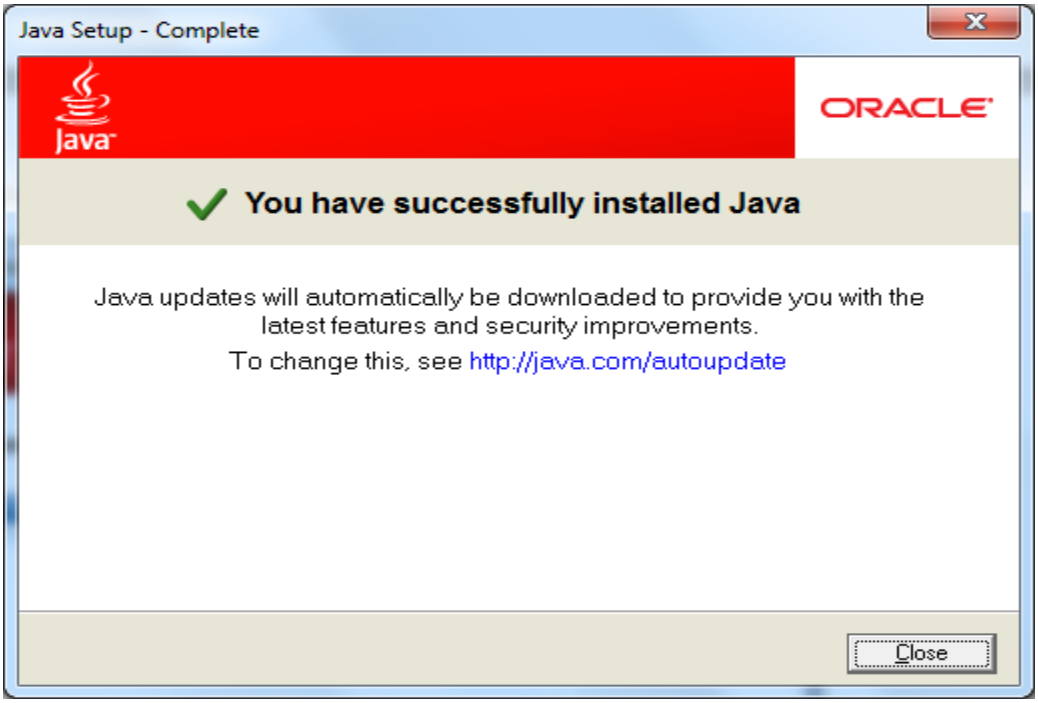


Step 3: Agree to any security alerts and then click on “Install” button as shown in the below screenshot.

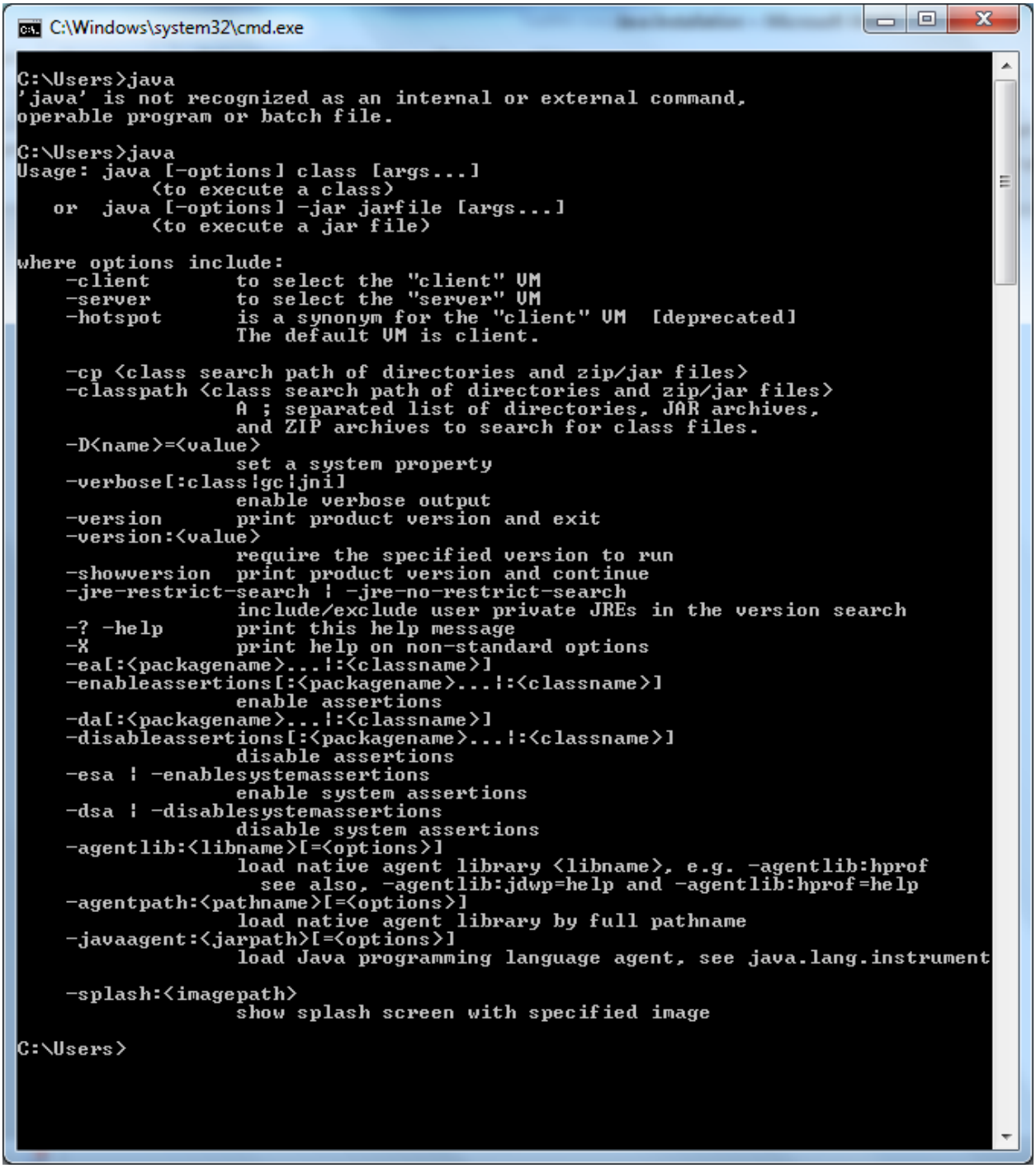


Step 4: Installing toolbars or other related promotional products is optional.

Step 5: You will see the final window as below with a confirmation message.



Step 6: Verify that Java is installed correctly by going back to the command prompt and running java on the command line. It should show message like the one below. Now you have Java up and running.



IDE Installation

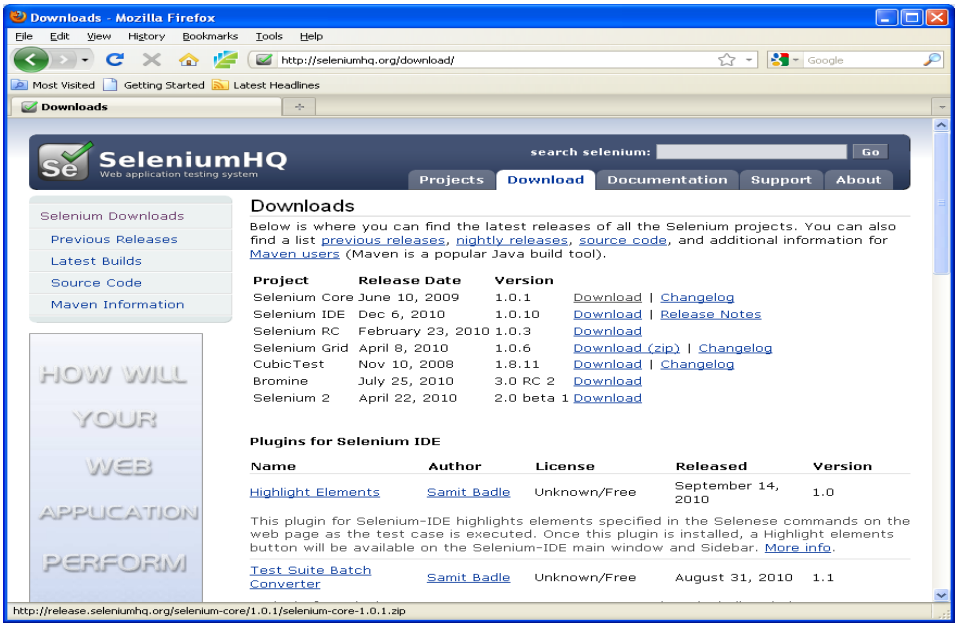
Firefox Installation

Download and Install Firefox Browser version 12.0 from Screencast.com)

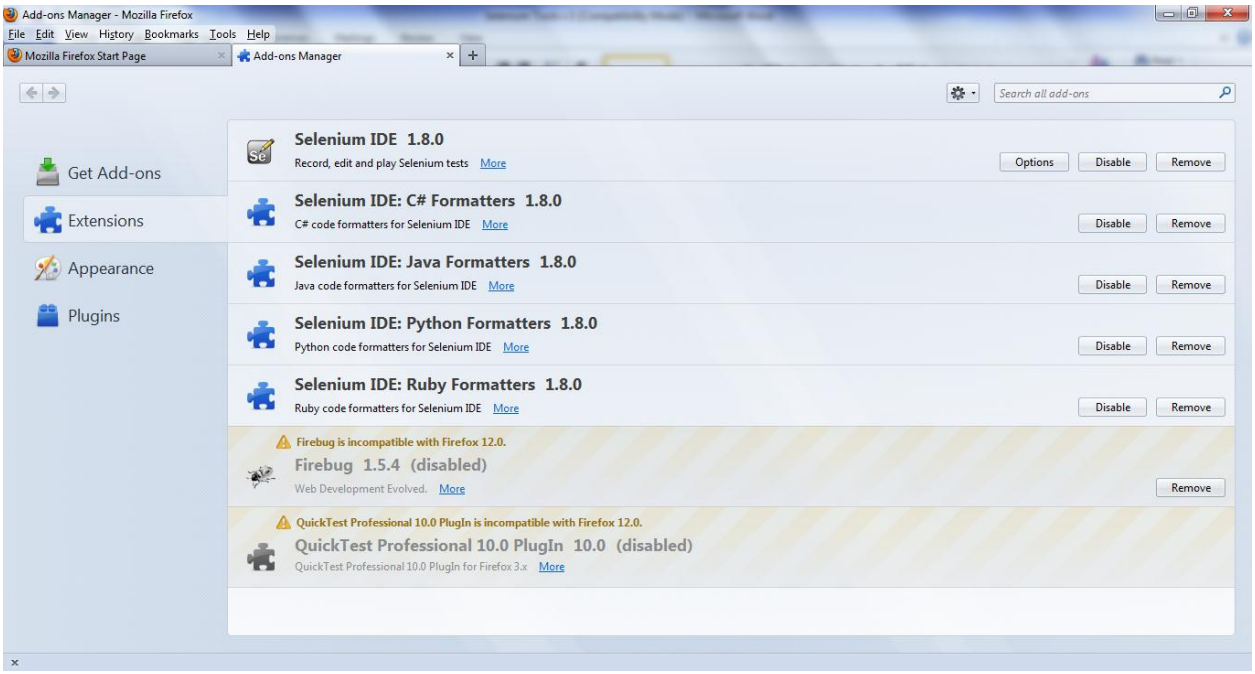
Steps to Install IDE

Step 1: Visit http://seleniumhq.org/ and click on Download Selenium

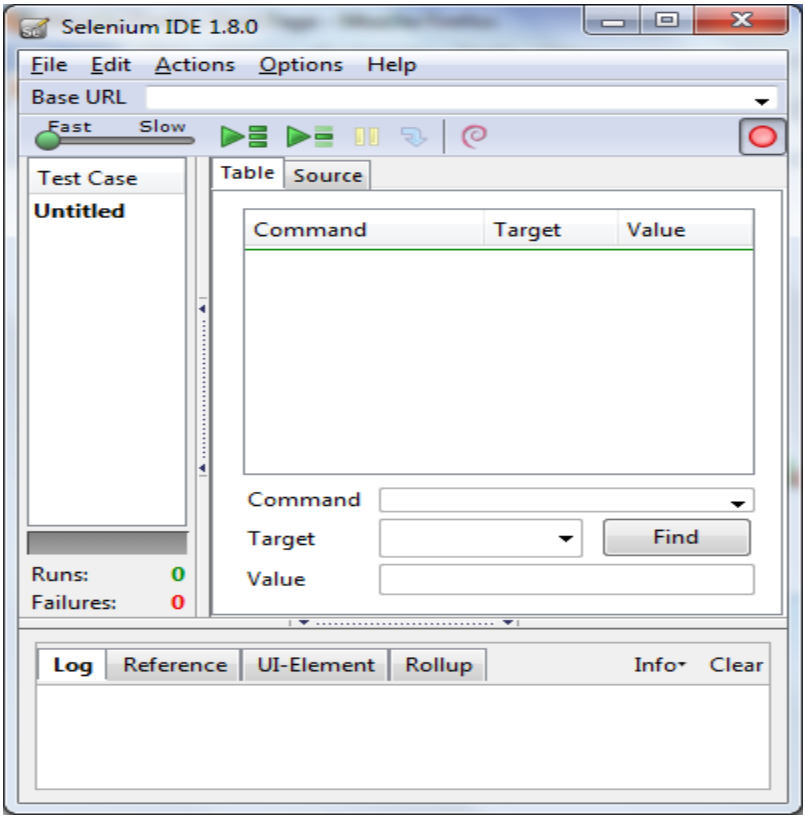
Step 2: Download latest IDE **"selenium-ide-1.8.0.xpi"**



Step 3: Complete installation and re-start FireFox



Step 4: Find the Selenium Add from FireFox Menu > Tools > Selenium IDE

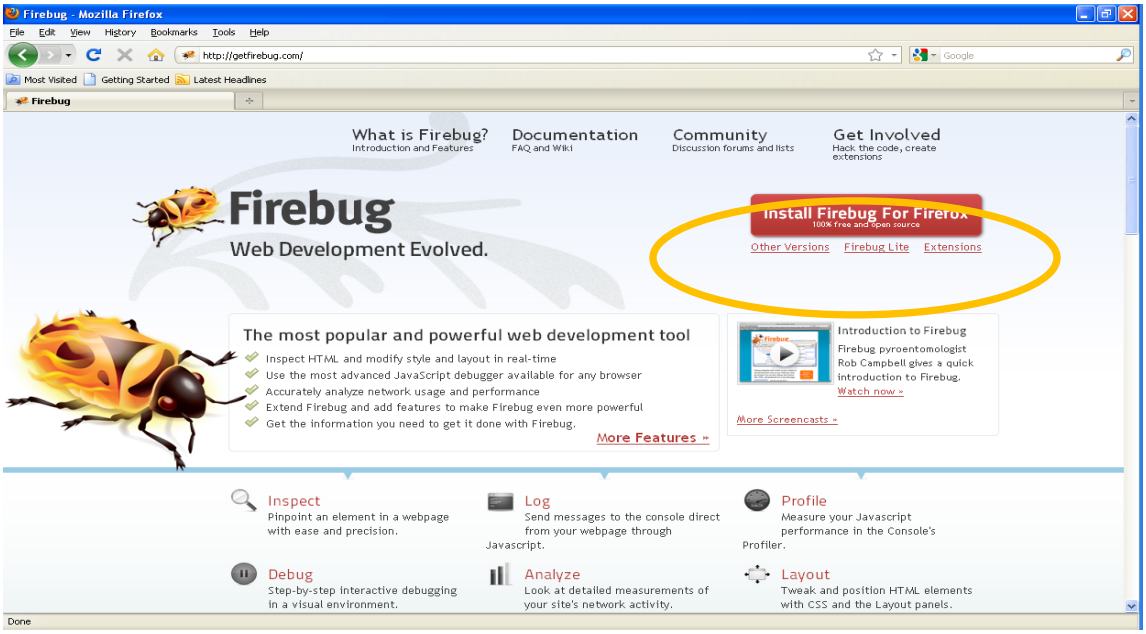


Firebug Installation

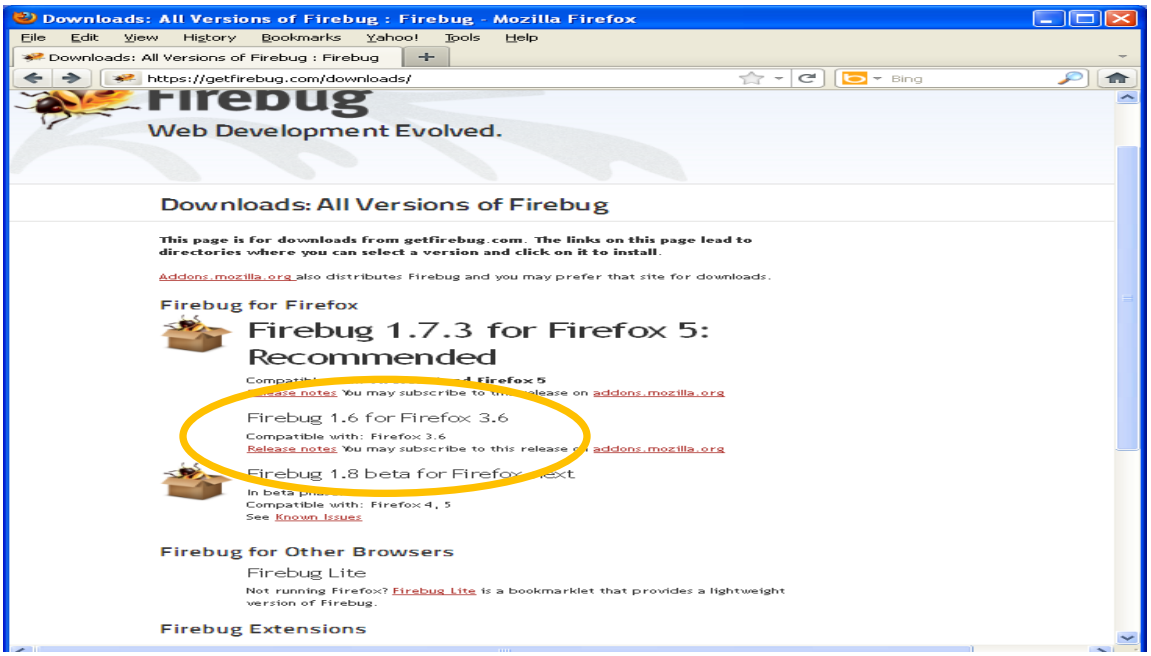
Purpose: Will help to inspect elements, edit web pages and capture xPaths.

Steps to Install Firebug

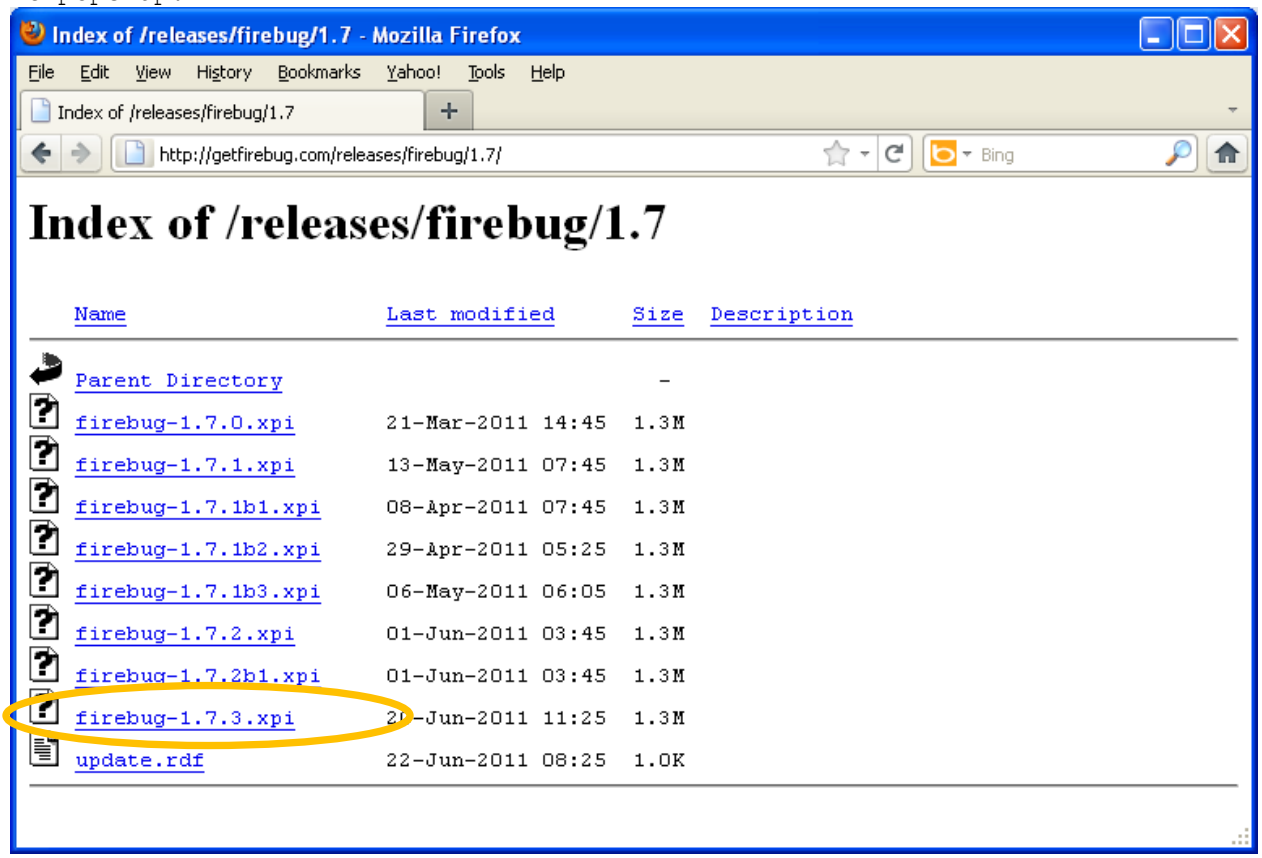
Step 1: Visit http://getfirebug.com/ and click on "Install Firebug for Firefox"



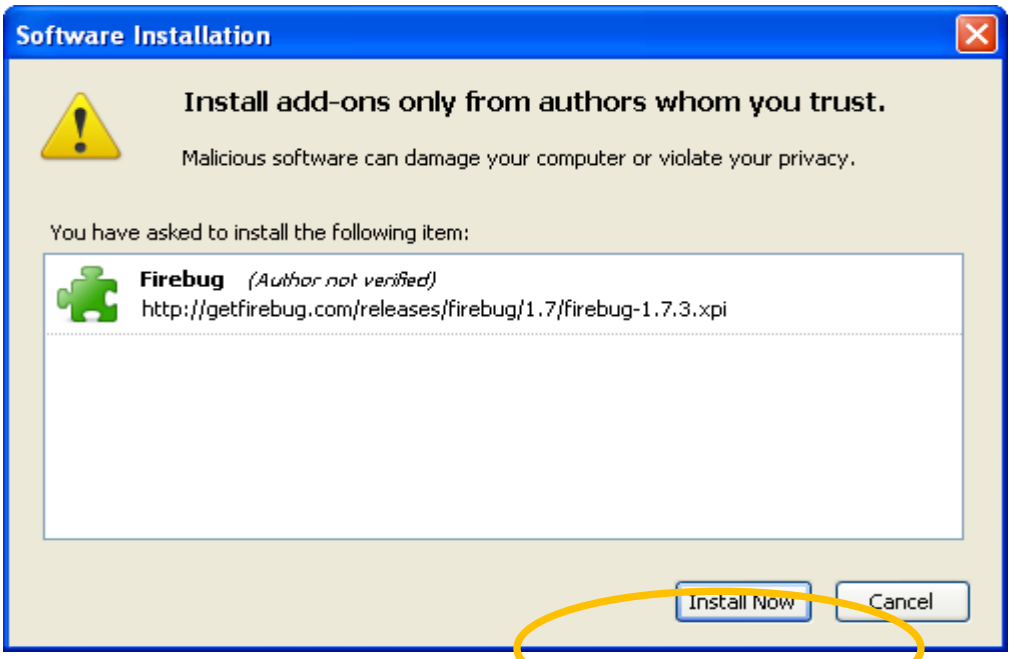
Step 1.1: You may be asked to choose your FireFox version. Ideally at the moment FB 1.7.3 should be ideal. This will also work FF 4 series.



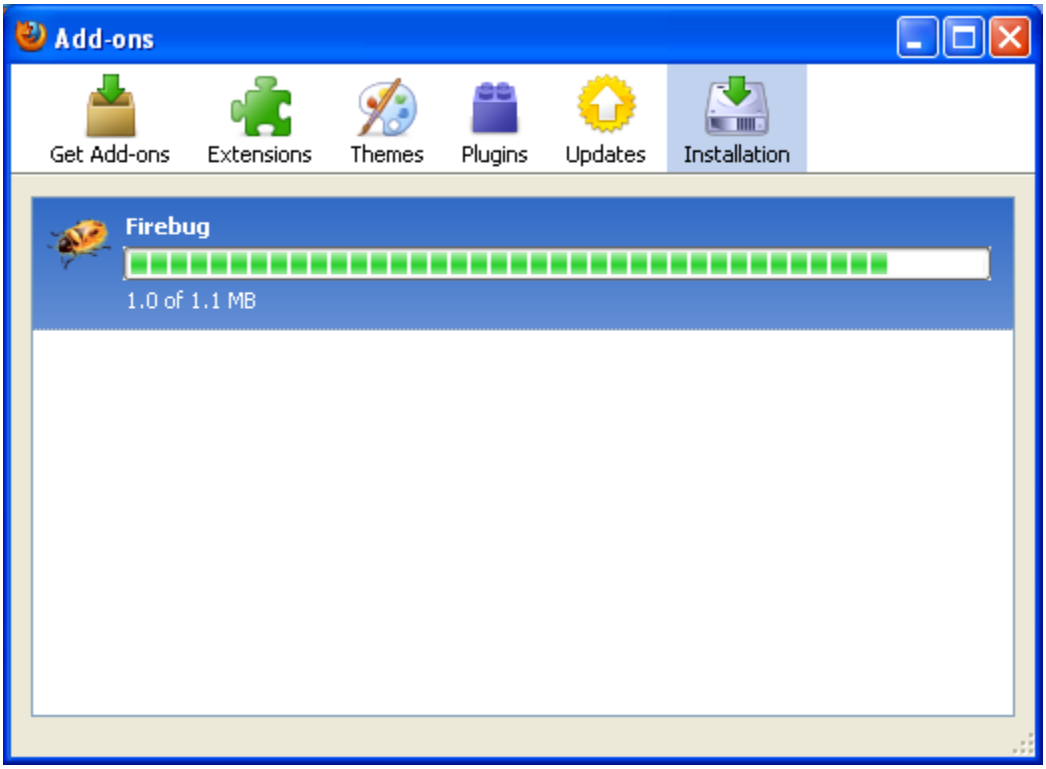
Step 1.2: If you see this screen, click on firebug-1.7.3.xpi and click Allow button if it pops-up.



Step 2: Click Install Now

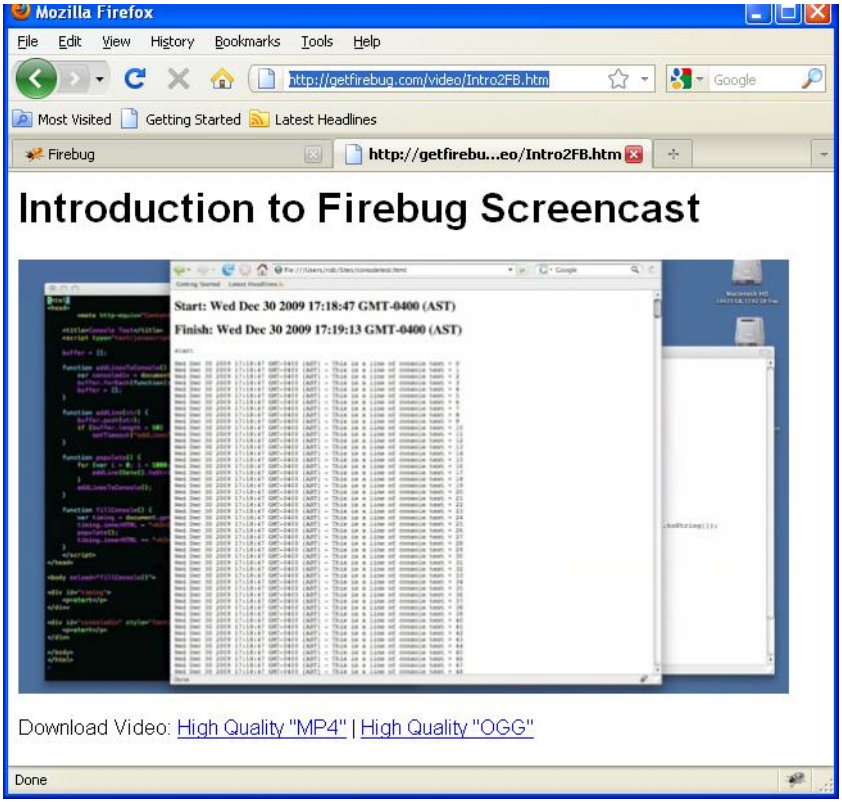


Step 3: Complete installation and re-start FireFox



Step 4: You will find a small bug icon on the bottom right side of your FF browser.

Step 5: Watch a demo video on Firebug here http://getfirebug.com/video/Intro2FB.htm



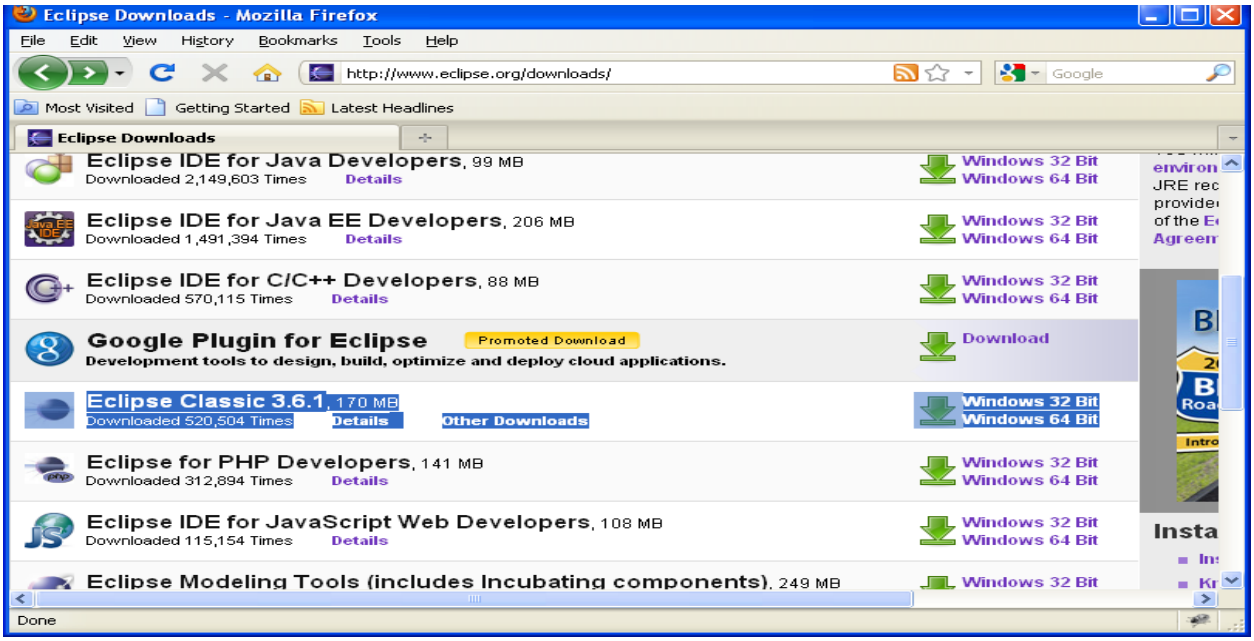
Eclipse IDE Installation

Steps to Install Eclipse

Step 1: DOWNLOAD : Can be downloaded from SCREENCAST.COM.

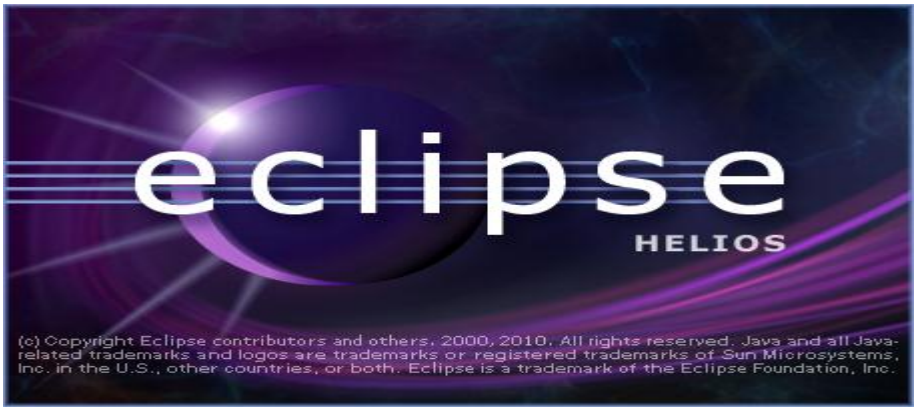
'OR'

Visit http://www.eclipse.org/downloads/ and Download Eclipse Classic (You can do 32 bit if it is Windows XP or VISTA Business Edition. For other Windows OS you can use 64bit)

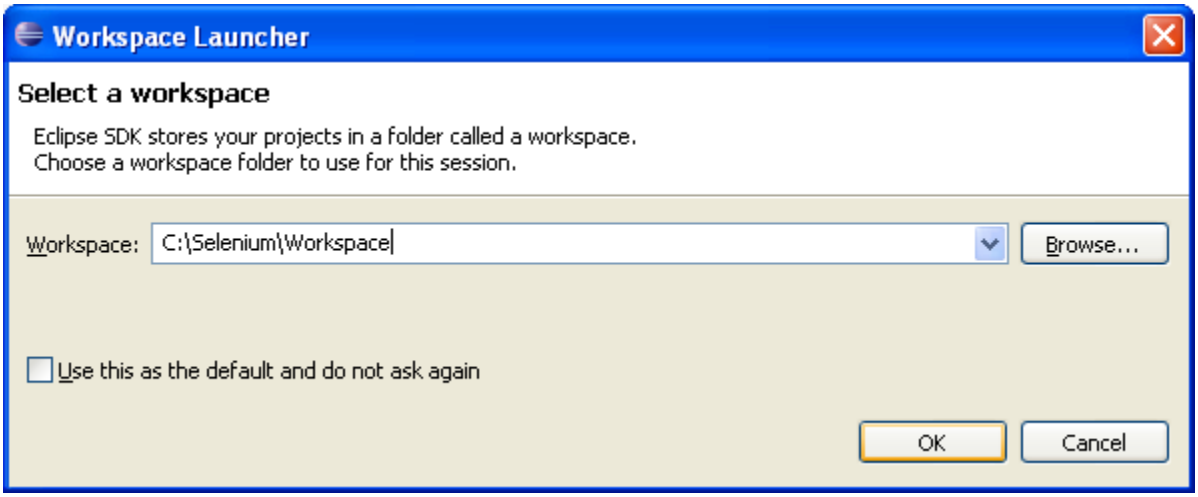


Step 2: Extract: Extract the ZIP file to a new folder like C:\Selenium\Eclipse

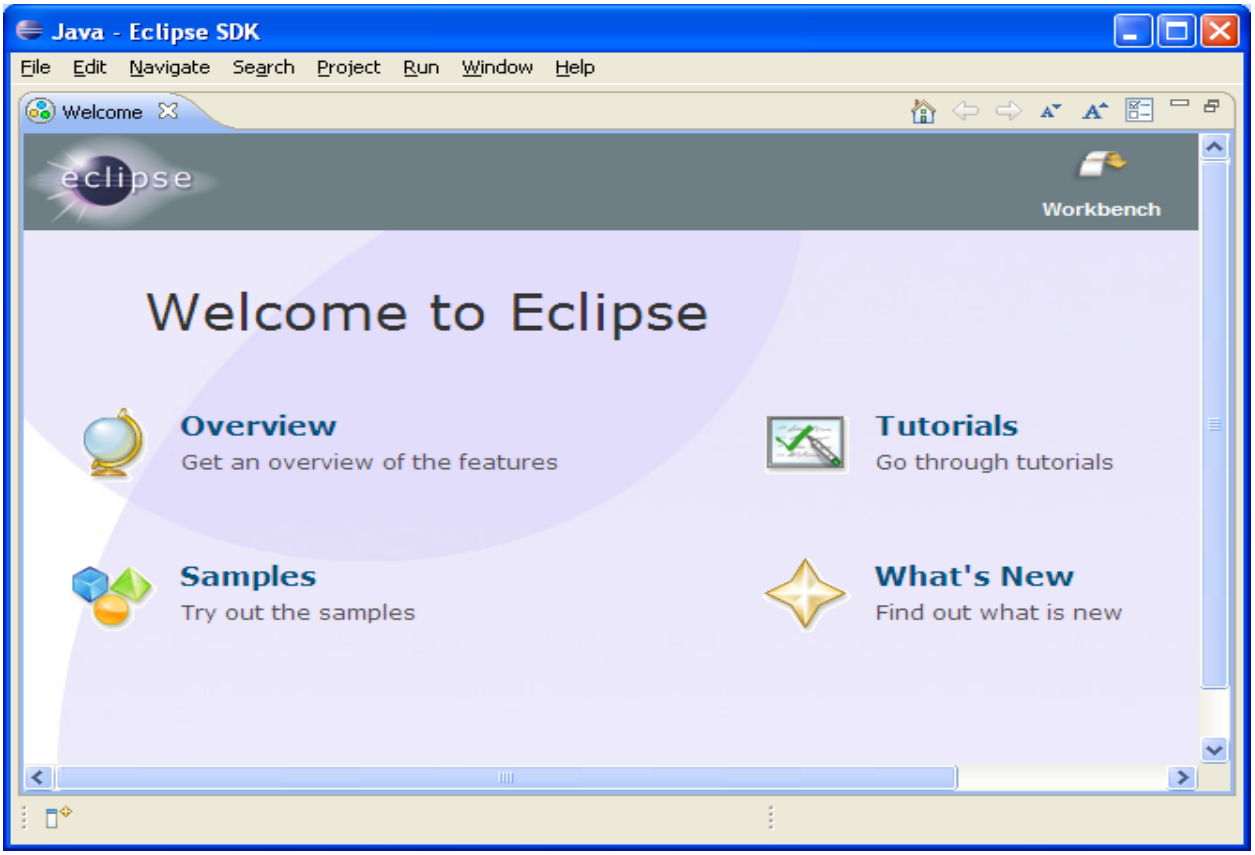
Step 3: Open Eclipse by double clicking Eclipse.exe in this folder.



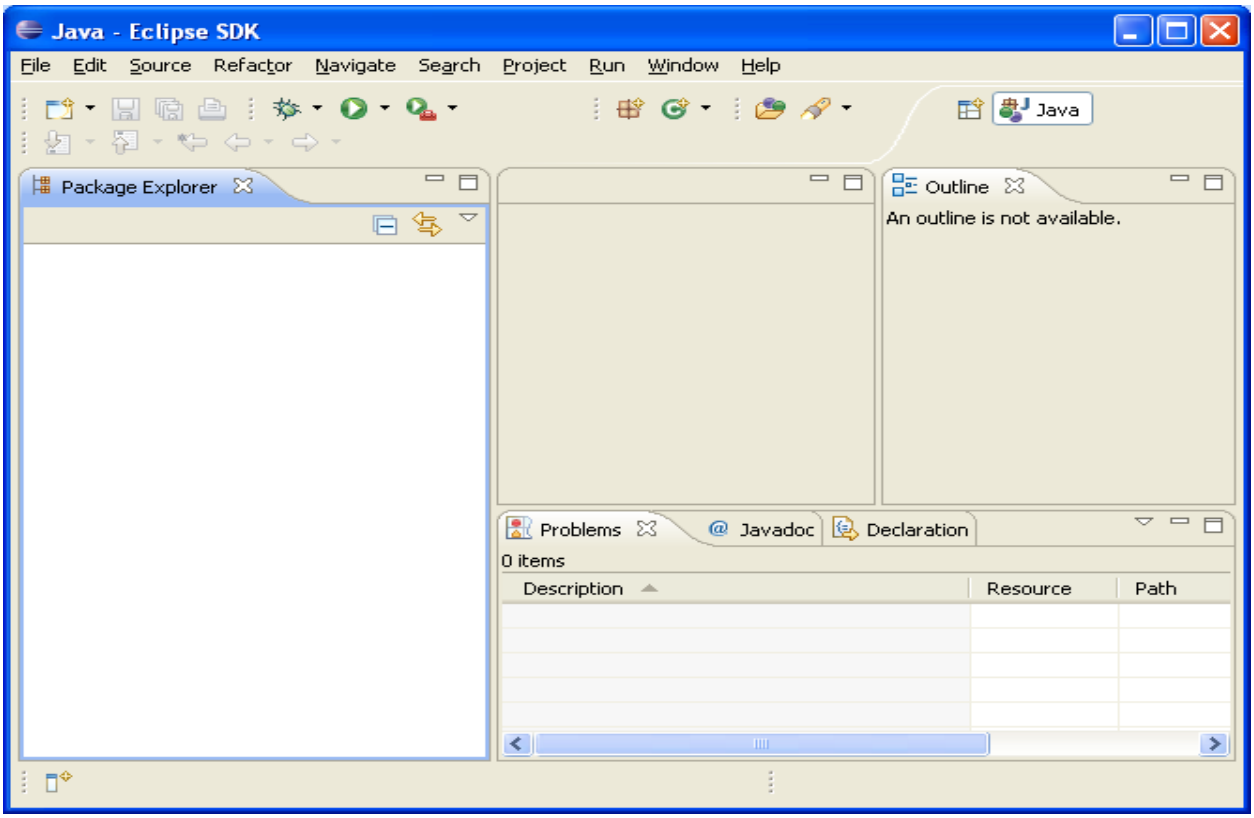
Step 4: Create a workplace for practice. Like C:\Selenium\Workspace. This is where you can practice and store all Java projects and codes for Selenium.



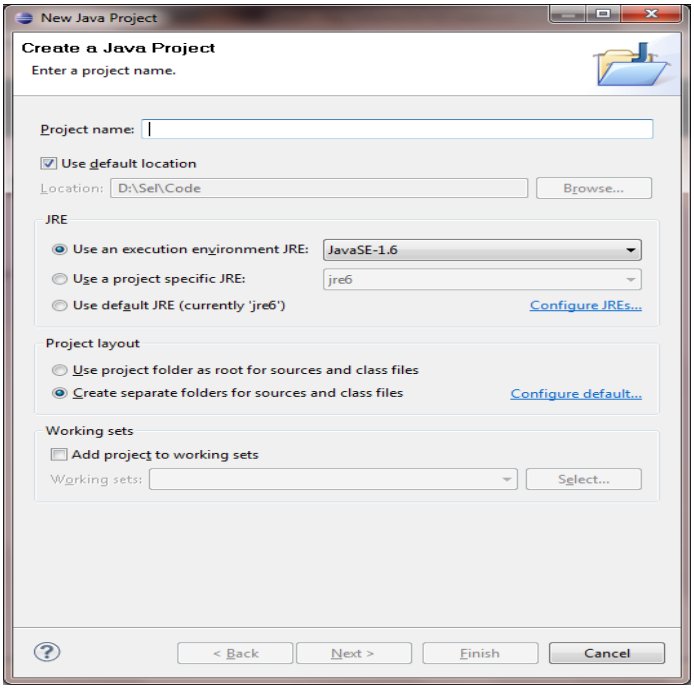
Step 5: You can choose to close the welcome screen or watch some overview on the tool.



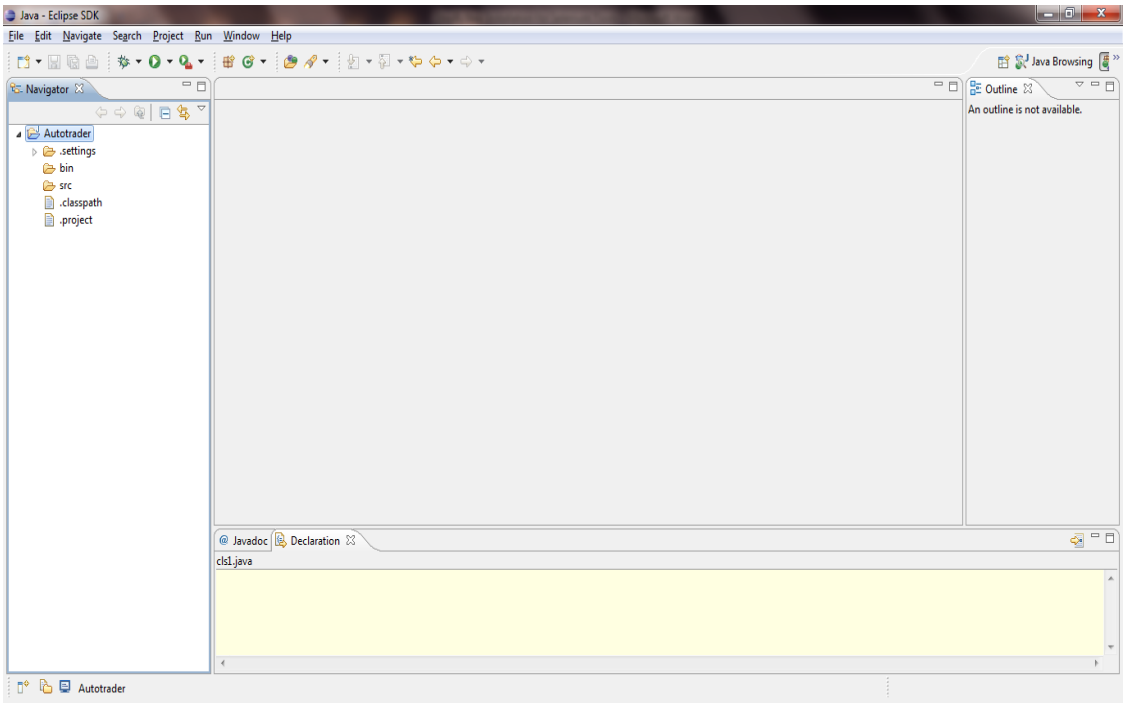
Step 6: You are now ready to create your 1st Java project on Eclipse IDE for Selenium



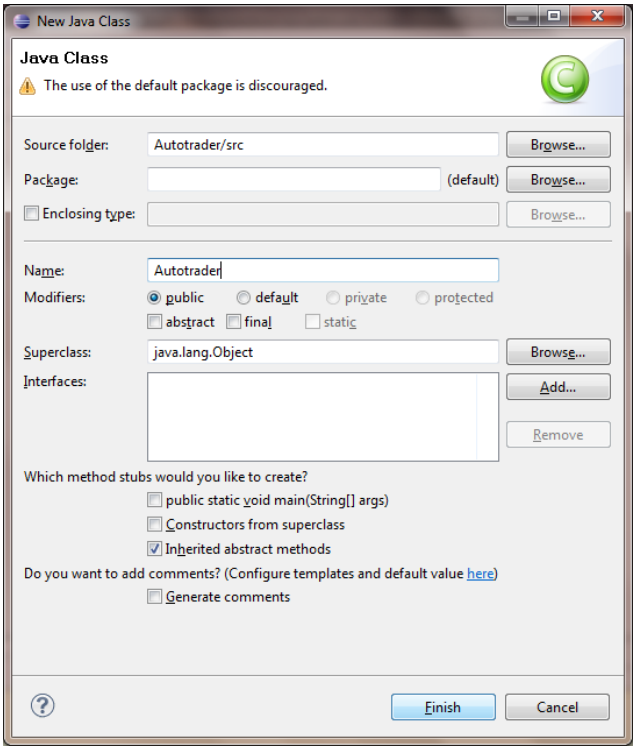
Step 7: Navigate to File>New>Java Project.



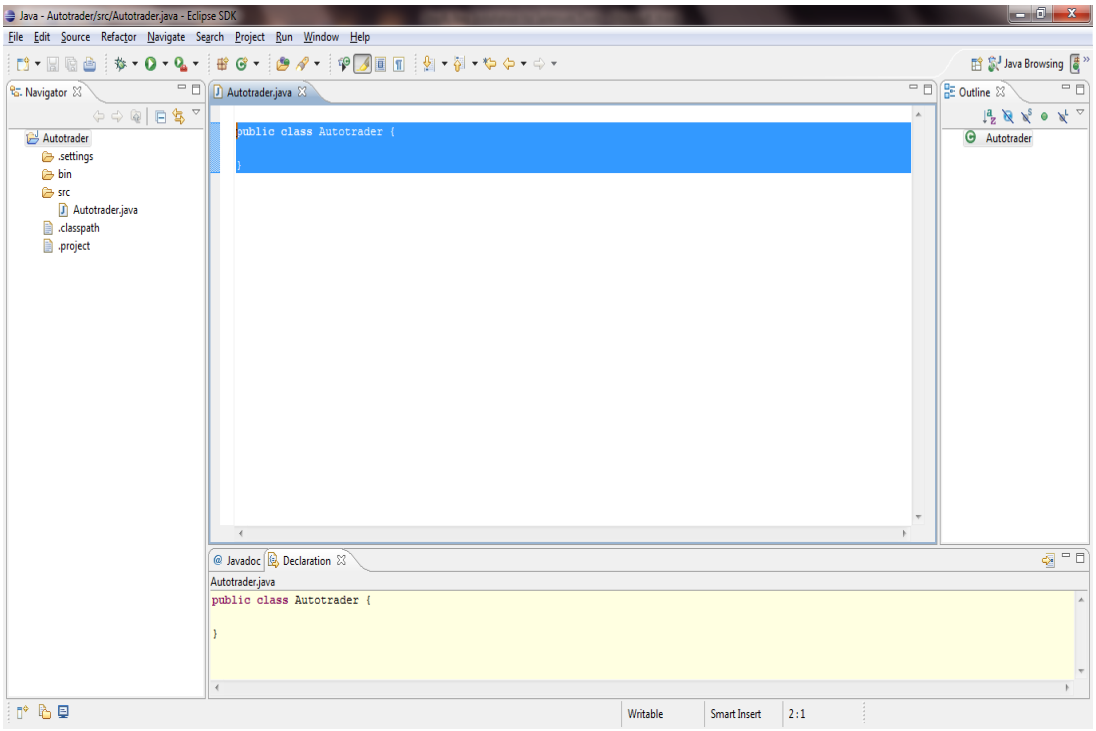
Step 8: Enter the project name and click “Finish”. Project with name Autotrader is created.



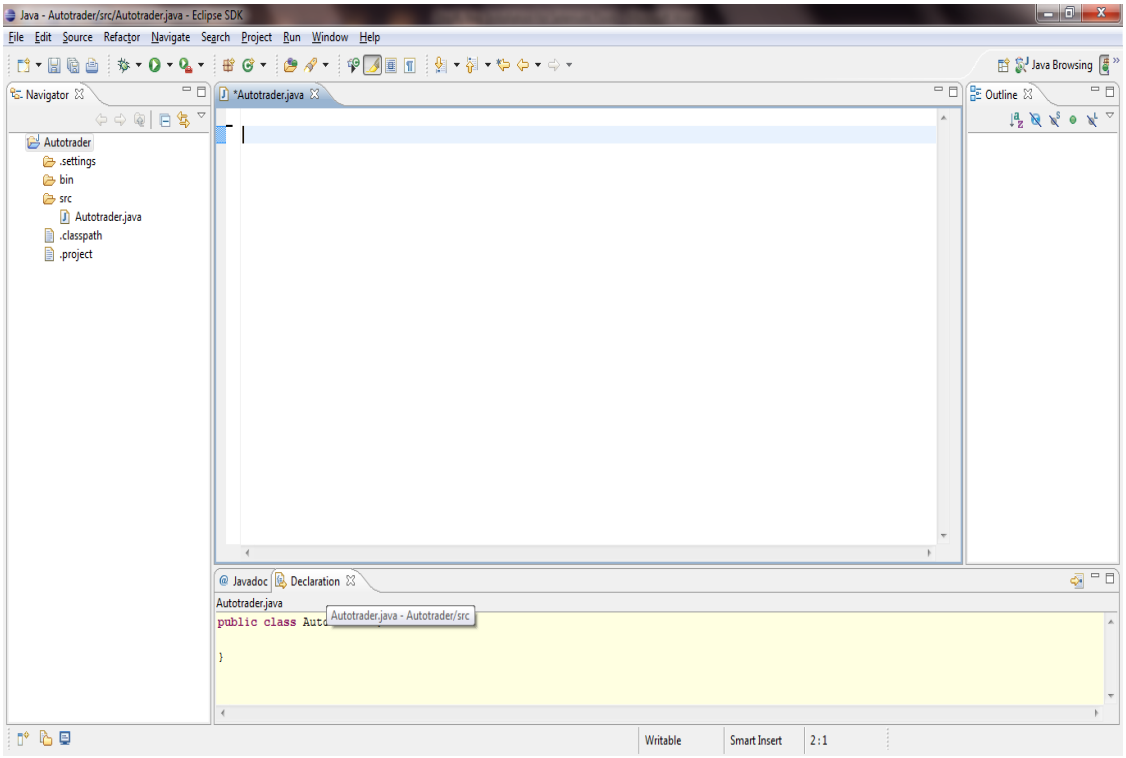
Step 9: Create a new java class in that project by Right clicking on Autotrader folder and navigate to New>Class. Enter name in the window and click Finish.



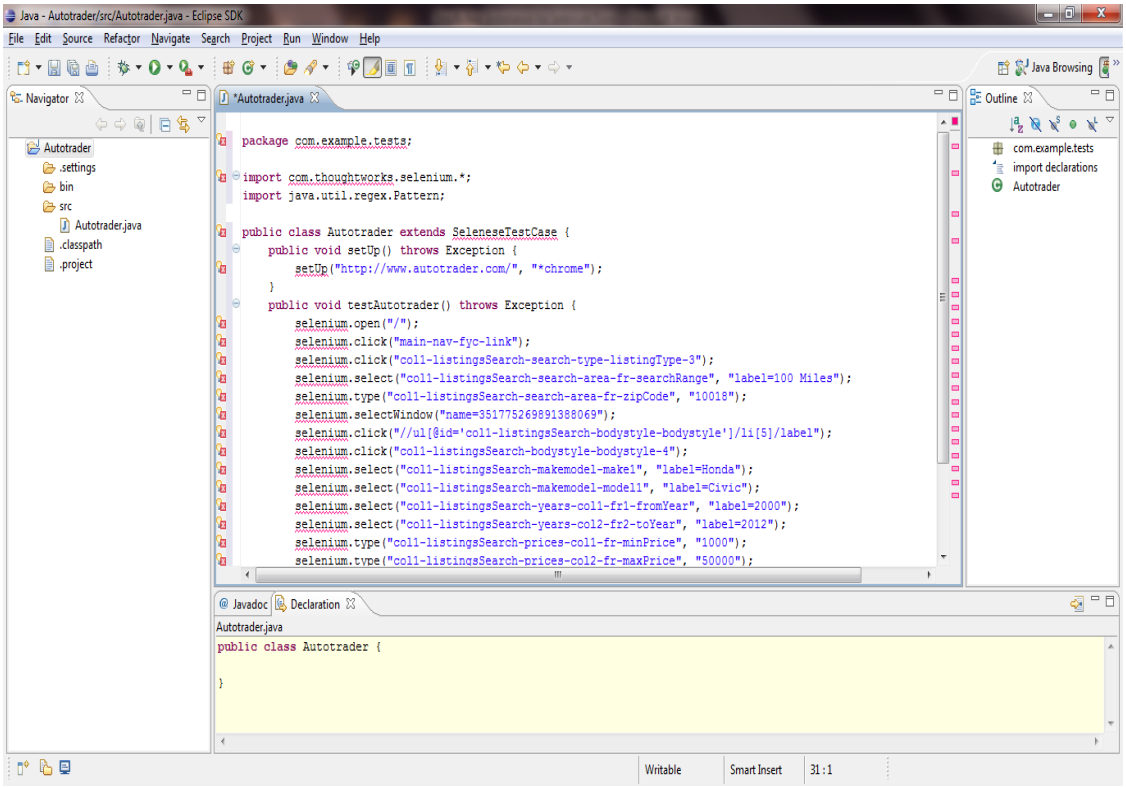
Step 10: Class Created



Step 11: Remove the default public class

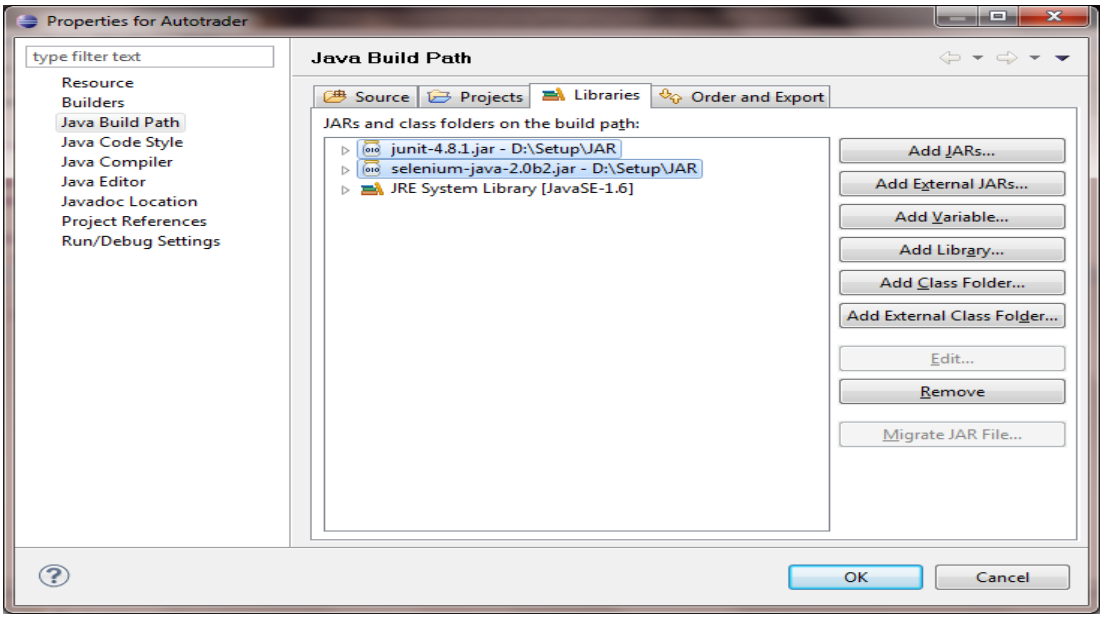


Step 12: Paste the code from the text file into the class in Eclipse (code generated from IDE JUnit version):



Step 13: Delete the 1st line "package com.example.tests;" from the code

Step 14: Right click on project folder and navigate to Properties>Java Build Path>Libraries>Add External JARs and browse to the location in your system where JARs are located. Add “junit-4.8.1.jar” and “selenium-java-2.0b2.jar” and click OK.



Step 15: Change the class name in the IDE script to match the class name that we created under the project folder

Step 16: Start the Selenium Server at specific port.

- Ensure you have Java installed on your machine. Go to run and type cmd.
- Enter "Java -version" anywhere. If not installed visit java.sun.com.
- Go to Run and type "cmd"
- Download "selenium-server-standalone-2.21.0", if this is not available from http://seleniumhq.org/download/
- Go to the folder where the "selenium-server-standalone-2.21.0" is downloaded
- Type this in the Jar folder. "java -jar selenium-server-standalone-2.21.0.jar -port 4444". This will start the Selenium Server.

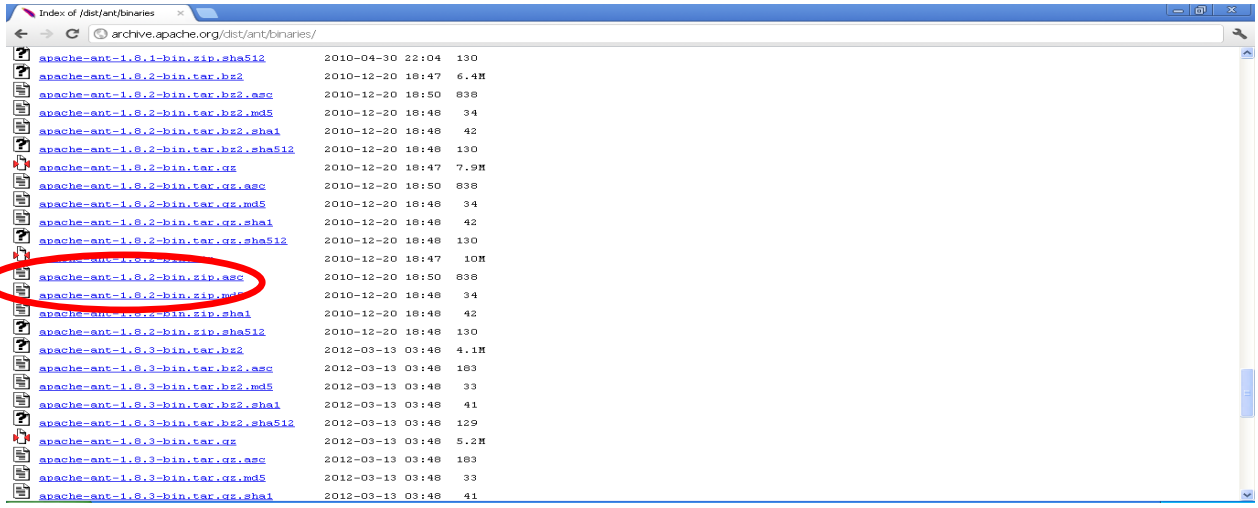
Step 17: Run the JUnit code through that port

Step 18: After you are done ... type Ctrl+C to stop server and type exit to close the cmd window

ANT Installation

Steps to Install ANT

Step 1: Goto http://archive.apache.org/dist/ant/binaries/ link.



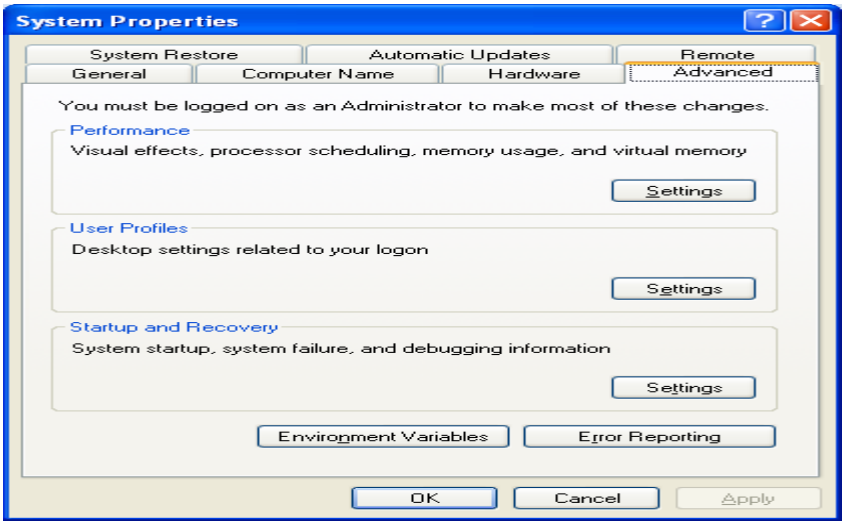
Step 2: Click on apache-ant-1.8.2-bin.zip. This allows you to download on your local machine.

Step 3: Create a new folder ANT in C:\Selenium.

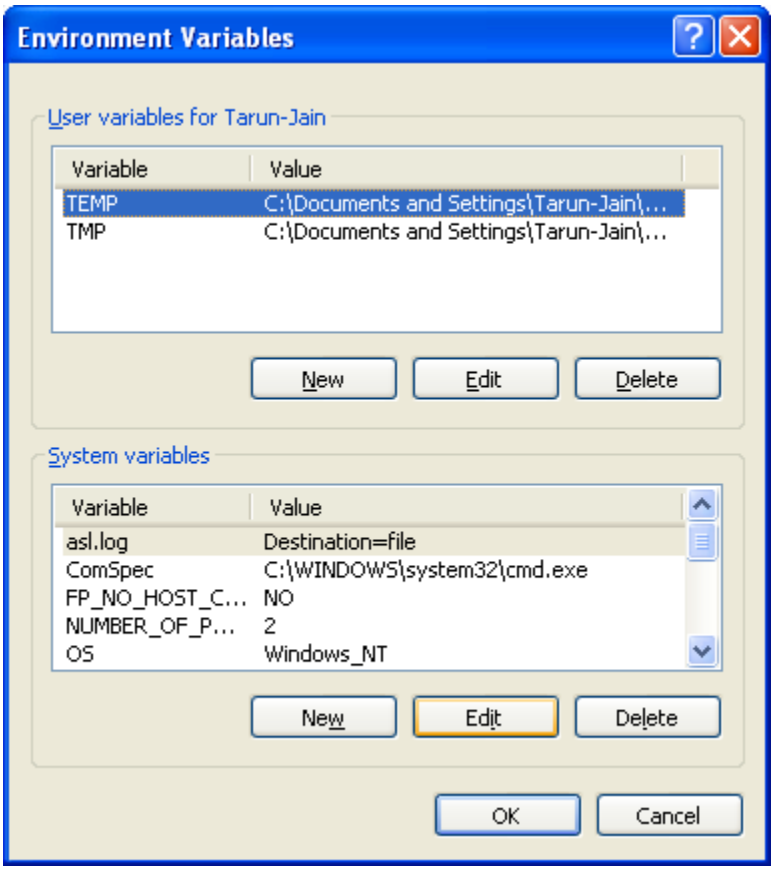
Step 4: Unzip the file and store the unzipped folder “apache-ant-1.8.2” in new folder. Example,

“C:\Selenium\ apache-ant-1.8.2”.

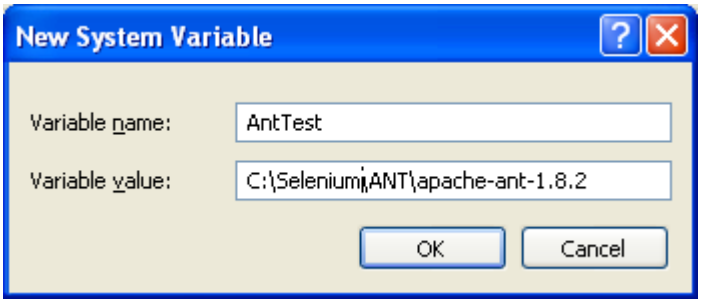
Step 5: Go to Start > My Computer > Properties. Click Advanced Settings.



Step 6: Click on Environment Variables.

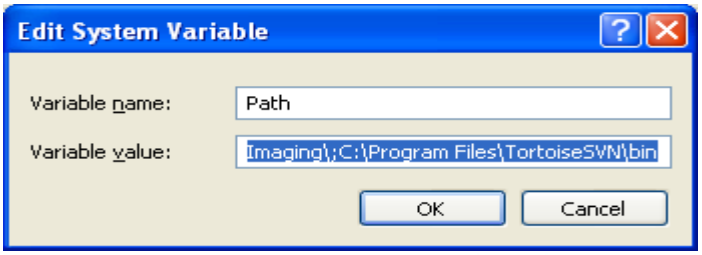


Step 7: Add a New System Variable "AntTest". Click on New in System Variables and add values as shown below:

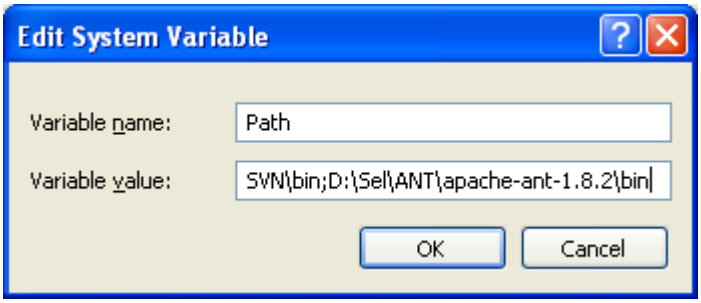


Step 8: Click OK

Step 9: Now goto Path variable in System Variables. Click on Edit as shown below:



Step 10: DO NOT CHANGE ANY VALUE THAT IS ALREADY THERE. At the end of Variable Value, put a semi-colon(;) and paste the complete path of ANT\bin folder again here like below:



Step 11: Click on OK and you are done with ANT installation.

Step 12: Now Confirm ANT is installed. Go to command prompt.

Step 13: On the command prompt type 'ant' from any directory that you are present in.

Step 14: Now go to "C:\Program Files\Java**jdk**1.6.0_27\lib" and copy **tools.jar** file.

Step 15: Now go to "C:\Program Files\Java**jre**6\lib" and paste **tools.jar** file here.