Transducer Electronic Datasheet (TEDS) Project – Installation Procedures

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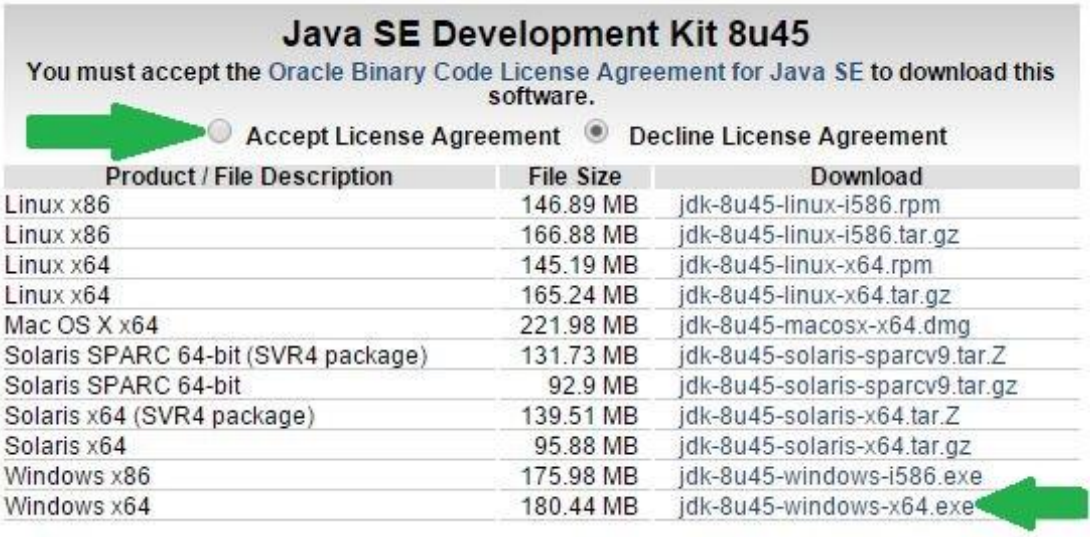
Installation Procedures for Windows 7/8/8.1 (64 bit):

Softwares Required

1. Java SE Development Kit (JDK) 8
2. Eclipse 4.4 (Luna)
3. Google Plugin for Eclipse (GPE)
4. Firefox 24
5. Google Web Toolkit Developers Plugin for Firefox 24
6. Subversion for Windows
7. Purcforms for Eclipse

Installing Java SE Development Kit (JDK)

1. Follow this link to the Downloads page in the Oracle website.
2. Under the "Java SE Development Kit 8u45", check the "Accept License Agreement", and click on the Download Link corresponding to "Windows x64".



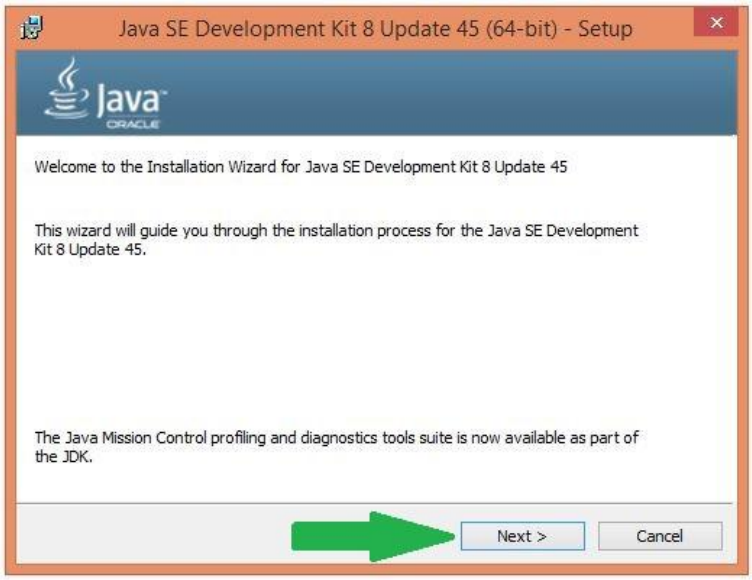
Java SE Development Kit 8u45

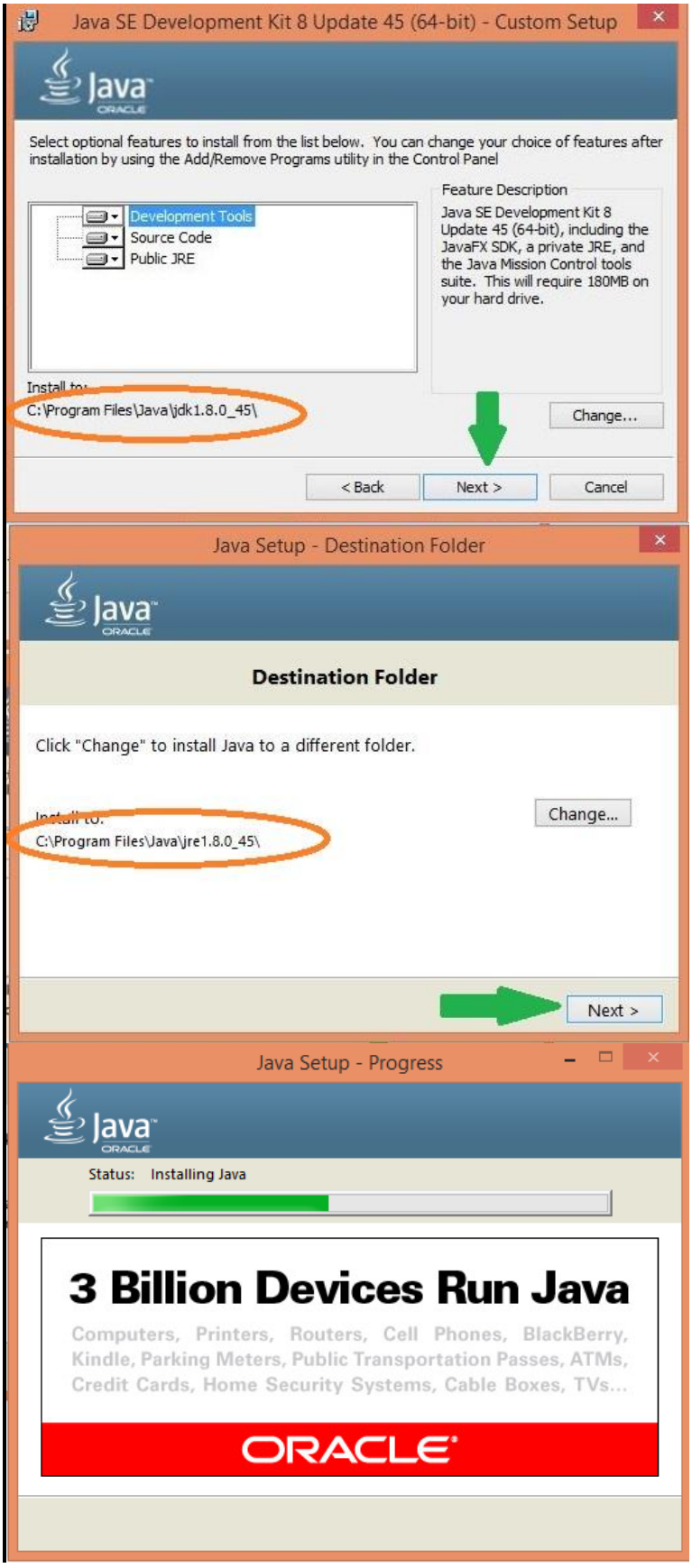
You must accept the Oracle Binary Code License Agreement for Java SE to download this software.

Accept License Agreement Decline License Agreement

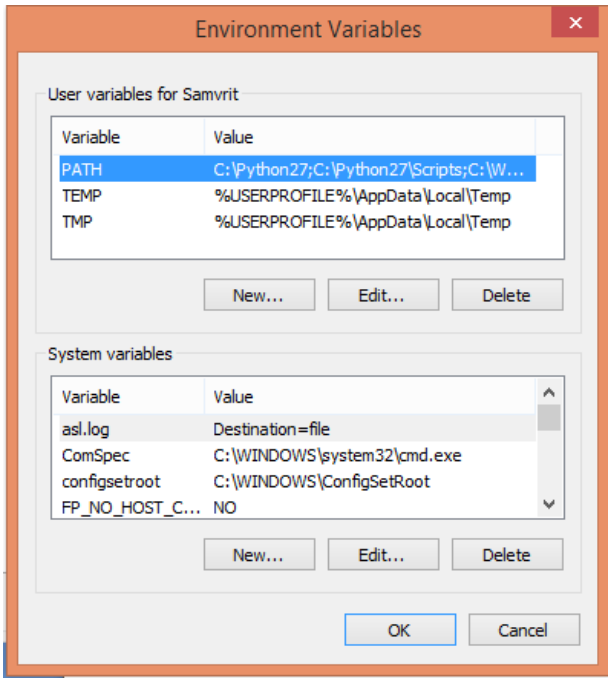
Product / File Description	File Size	Download
Linux x86	146.89 MB	jdk-8u45-linux-i586.rpm
Linux x86	166.88 MB	jdk-8u45-linux-i586.tar.gz
Linux x64	145.19 MB	jdk-8u45-linux-x64.rpm
Linux x64	165.24 MB	jdk-8u45-linux-x64.tar.gz
Mac OS X x64	221.98 MB	jdk-8u45-macosx-x64.dmg
Solaris SPARC 64-bit (SVR4 package)	131.73 MB	jdk-8u45-solaris-sparcv9.tar.Z
Solaris SPARC 64-bit	92.9 MB	jdk-8u45-solaris-sparcv9.tar.gz
Solaris x64 (SVR4 package)	139.51 MB	jdk-8u45-solaris-x64.tar.Z
Solaris x64	95.88 MB	jdk-8u45-solaris-x64.tar.gz
Windows x86	175.98 MB	jdk-8u45-windows-i586.exe
Windows x64	180.44 MB	jdk-8u45-windows-x64.exe

3. Follow the installation instructions, and note down the installation path of the JDK and the JRE. (encircled in orange)

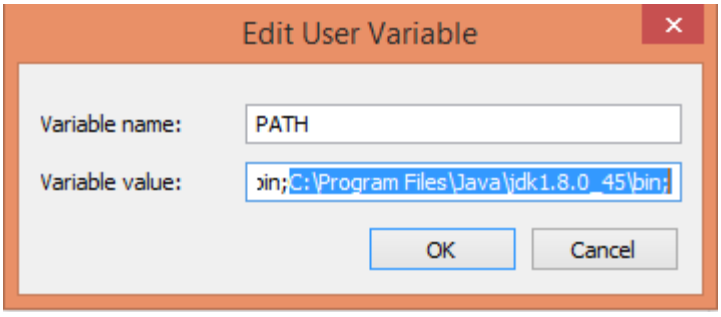



Java SE Development Kit 8 Update 45 (64-bit) - Custom Setup
Select optional features to install from the list below. You can change your choice of features after installation by using the Add/Remove Programs utility in the Control Panel
Development Tools
Source Code
Public JRE
Feature Description
Java SE Development Kit 8 Update 45 (64-bit), including the JavaFX SDK, a private JRE, and the Java Mission Control tools suite. This will require 180MB on your hard drive.
Install to:
C:\Program Files\Java\jdk1.8.0_45\
Change...
< Back
Next >
Cancel
Java Setup - Destination Folder
Destination Folder
Click "Change" to install Java to a different folder.
Change...
C:\Program Files\Java\jre1.8.0_45\
Next >
Java Setup - Progress
Status: Installing Java
3 Billion Devices Run Java
Computers, Printers, Routers, Cell Phones, BlackBerry, Kindle, Parking Meters, Public Transportation Passes, ATMs, Credit Cards, Home Security Systems, Cable Boxes, TVs...
ORACLE

4. Right click on “My Computer > Properties > Advanced system settings > Environment Variables”.

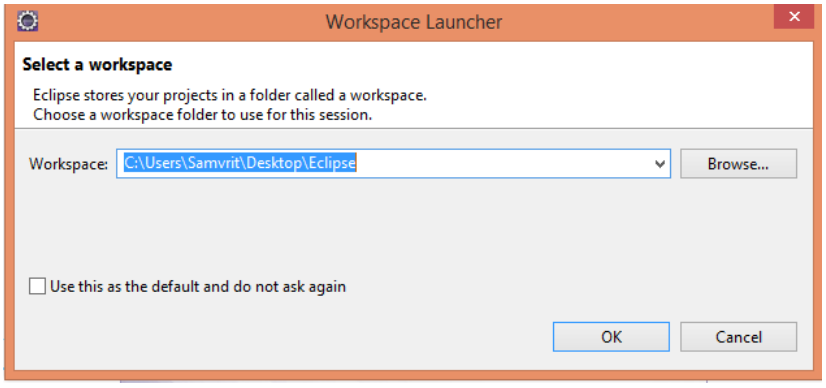


5. Under User variables, if the Variable “PATH” exists, click on Edit, and at the end of the “Variable value” field, append “;<JDK installation path>\bin;<JRE installation path>\bin;”. If the Variable “PATH” does not exist, click on “New...” and add it.



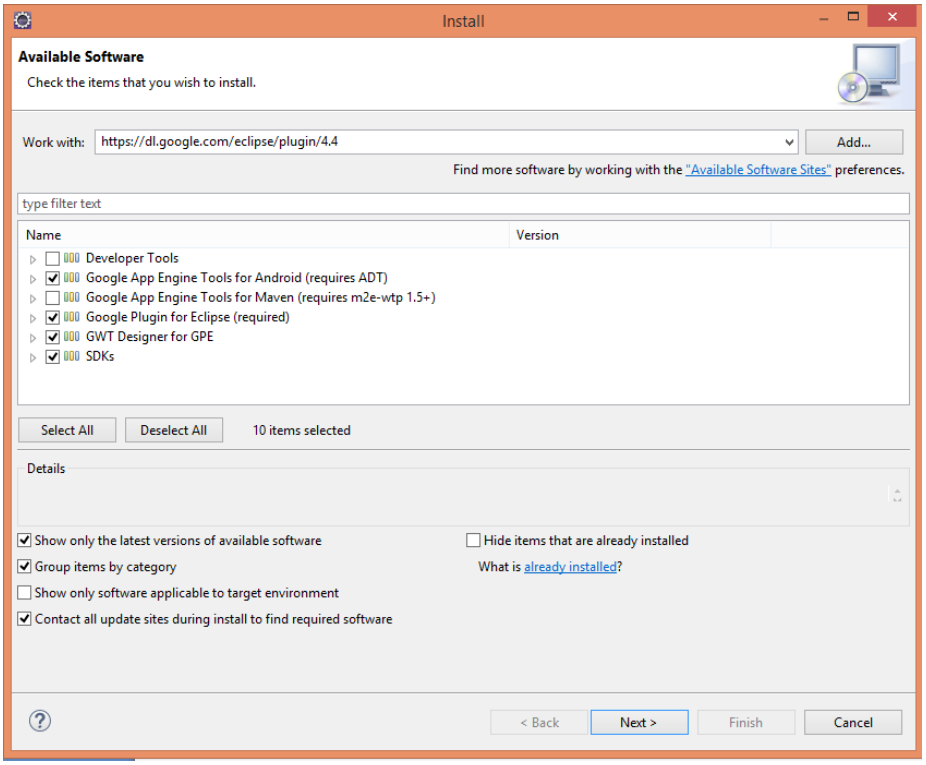
Installing Eclipse 4.4 (Luna)

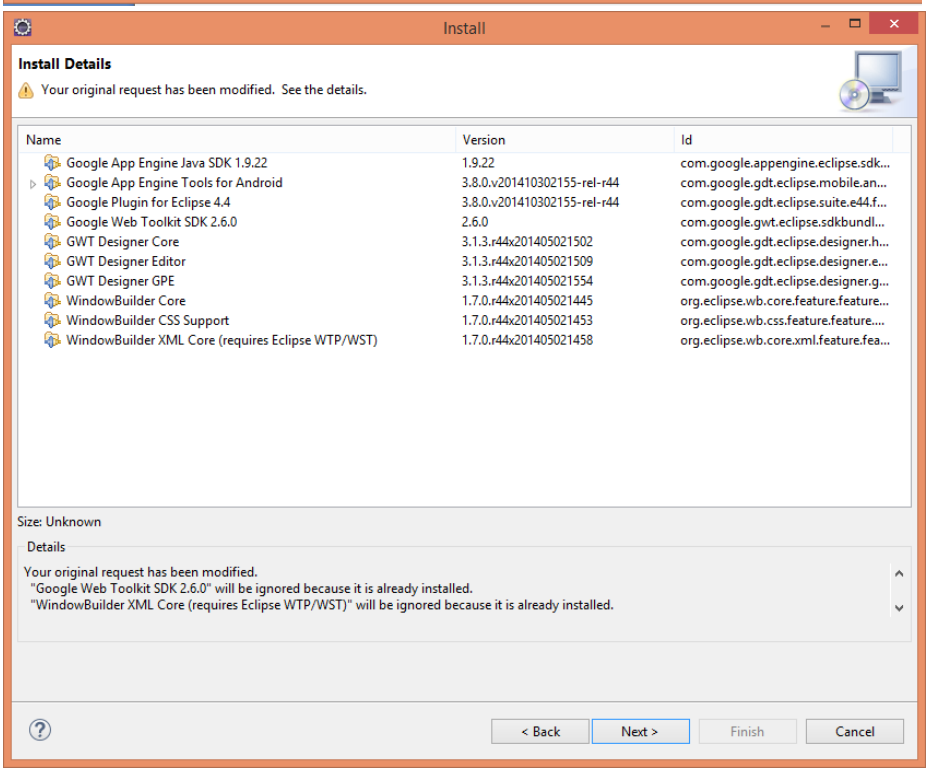
1. Download Eclipse 4.4 (Luna) from this link. Extract the downloaded file, “eclipse-jee-luna-SR2-win32-x86_64.zip”. After extracting, you will have a folder called “eclipse”. In “eclipse” folder, click on “eclipse.exe”. Once it loads, you will be shown the following window. Choose a suitable folder as the workspace. This is where all the project files and folders are going to be saved. You can also choose to use this folder as the default for all projects. Click on OK.

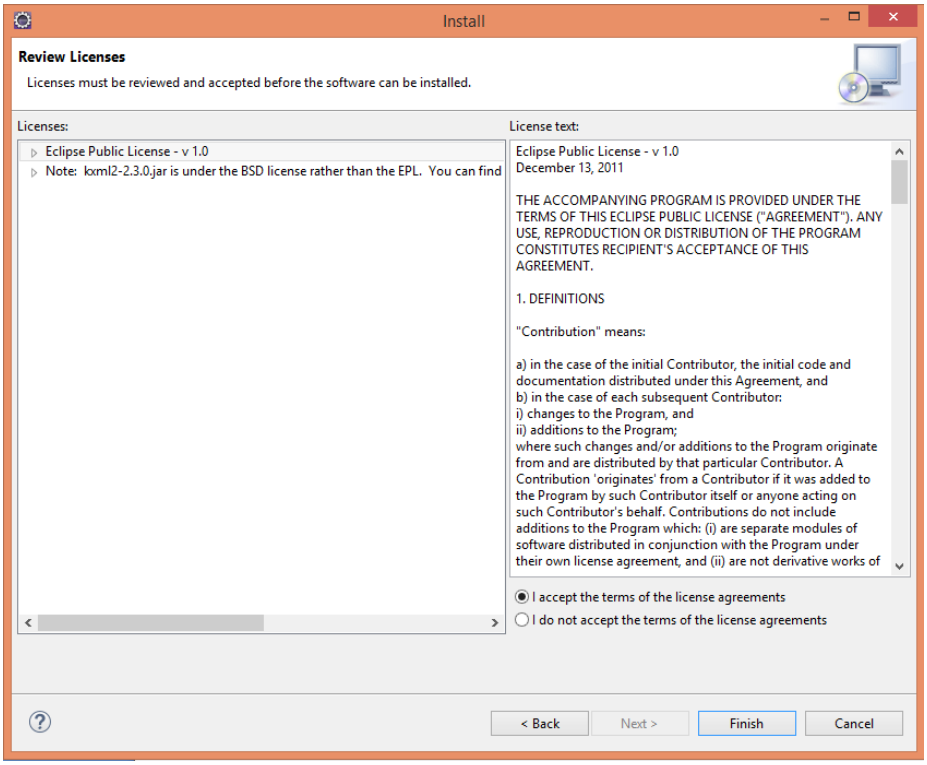


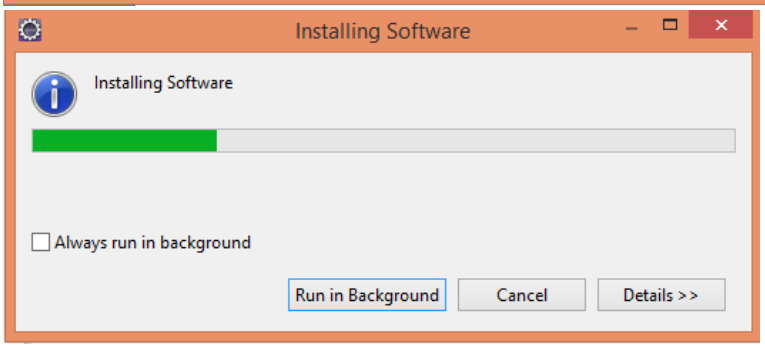
Installing Google Plug-in for Eclipse

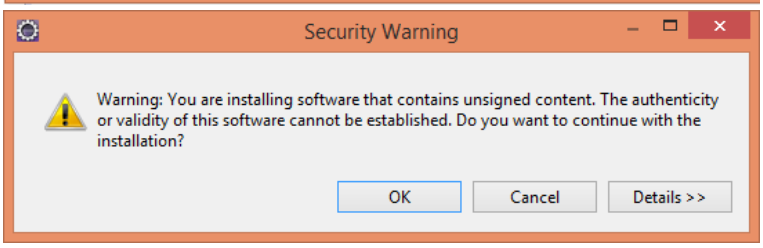
1. Once Eclipse is set up, open it and then click on “Help > Install New Software...”. In the “Work with” field, type in “https://dl.google.com/eclipse/plugin/4.4” and press Enter. After a while, a list of tools will appear as shown in the Figure below. Check on the “Google Plugin for Eclipse”, “GWT Designer for GPE” and “SDKs”, and click Next and follow the installation instructions.

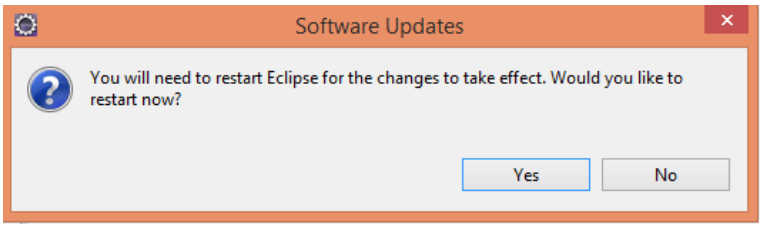










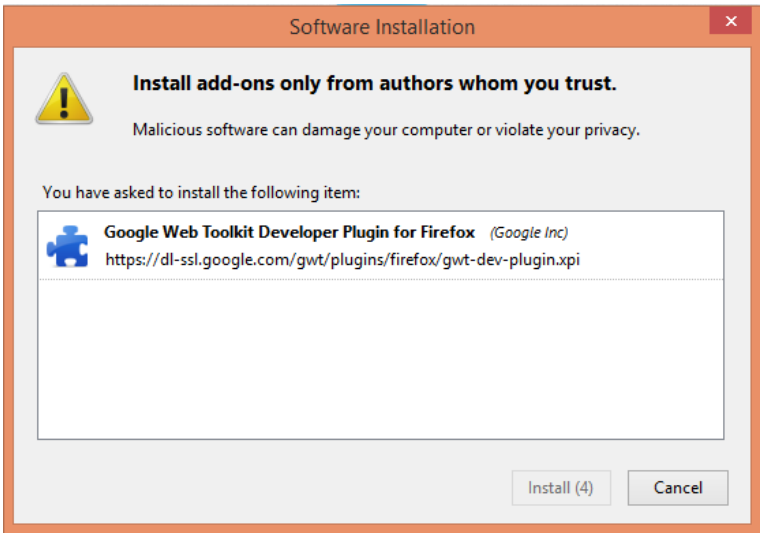


Installing Firefox 24

1. Download Firefox 24 for Windows from this link. Follow the instruction procedure to install. Firefox 24 is necessary because the Google Web Toolkit Developers Kit is not compatible with Google Chrome, or any higher versions of Mozilla Firefox.

Installing Google Web Toolkit Developers Kit Extension for Firefox

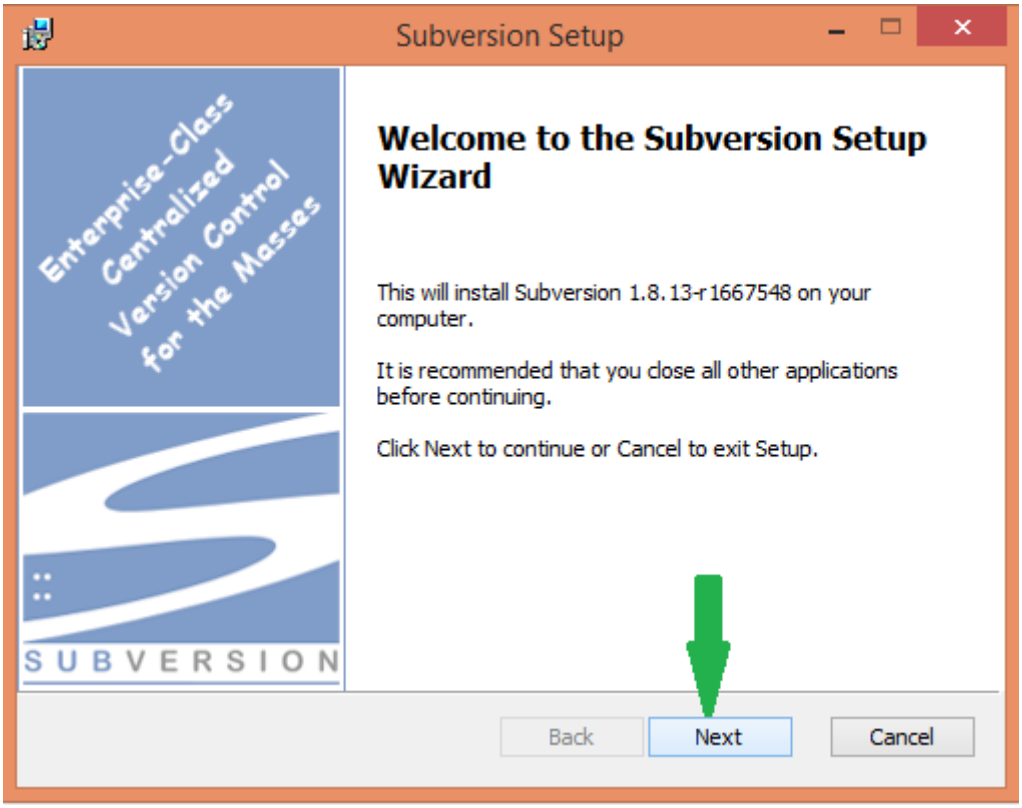
1. Once Firefox 24 is installed, open the browser, and copy paste “https://dl-ssl.google.com/gwt/plugins/firefox/gwt-dev-plugin.xpi” in the address bar. You will then be asked to install the Plugin. After a few seconds, the “Install” button will get activated, then click Install. You will be asked to restart the browser. Click on “Restart Browser”.

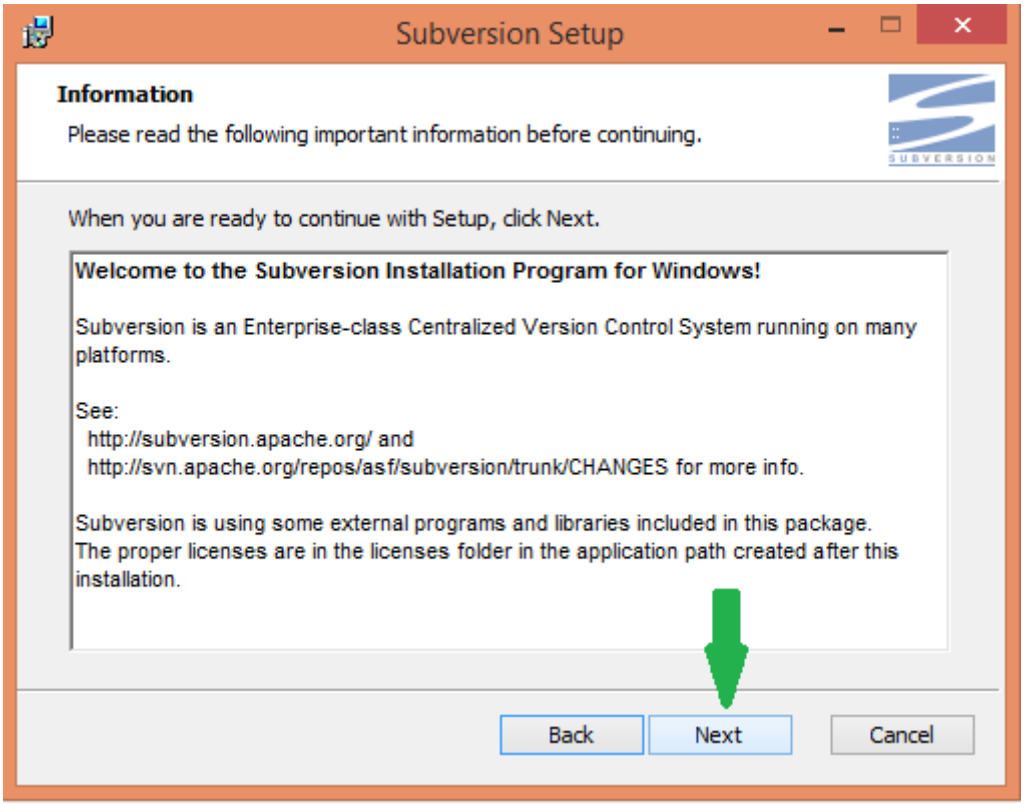


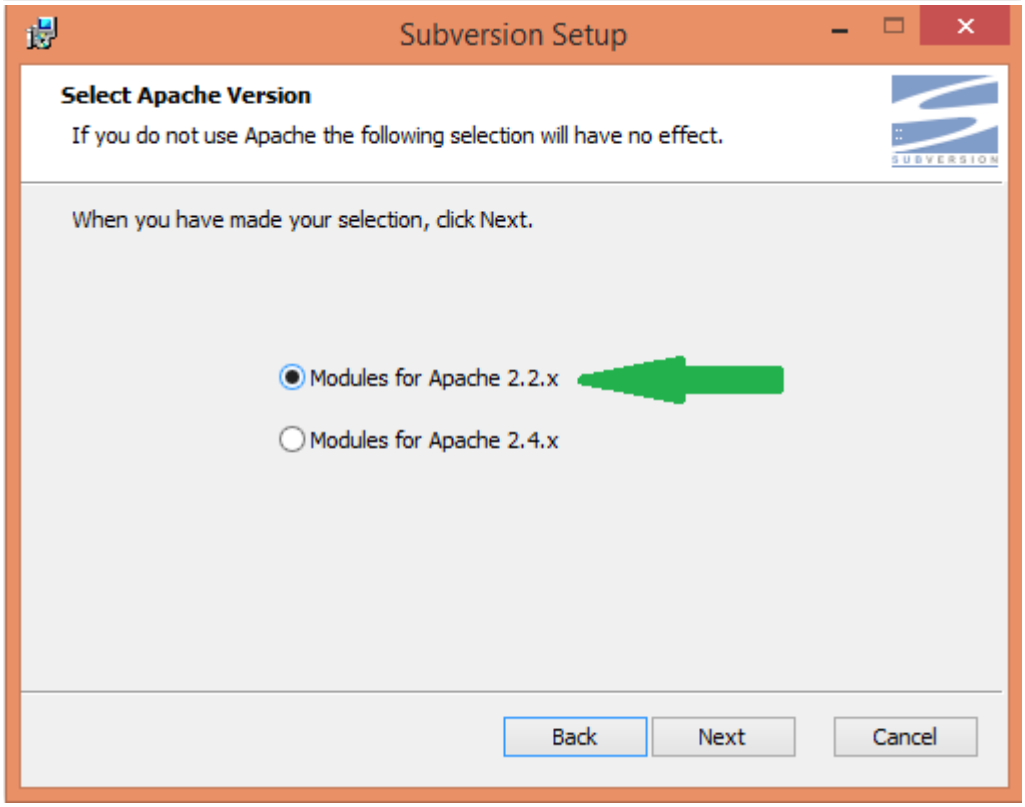
Installing Subversion on Windows

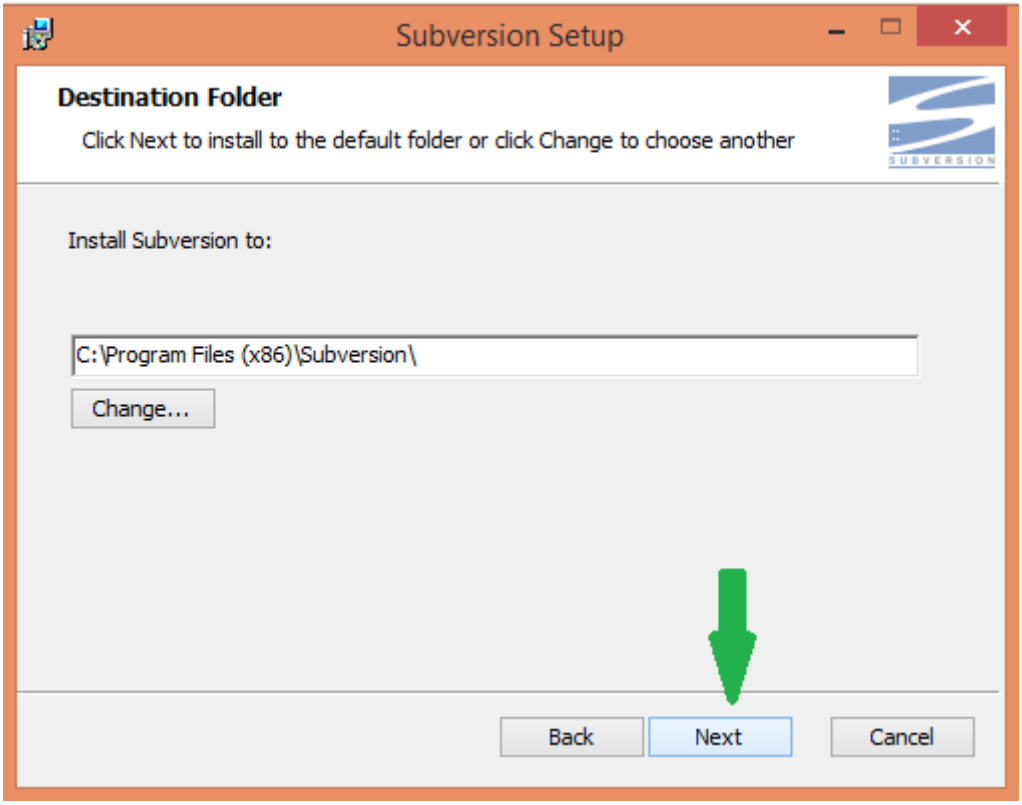
1. Download Subversion for windows using this link.

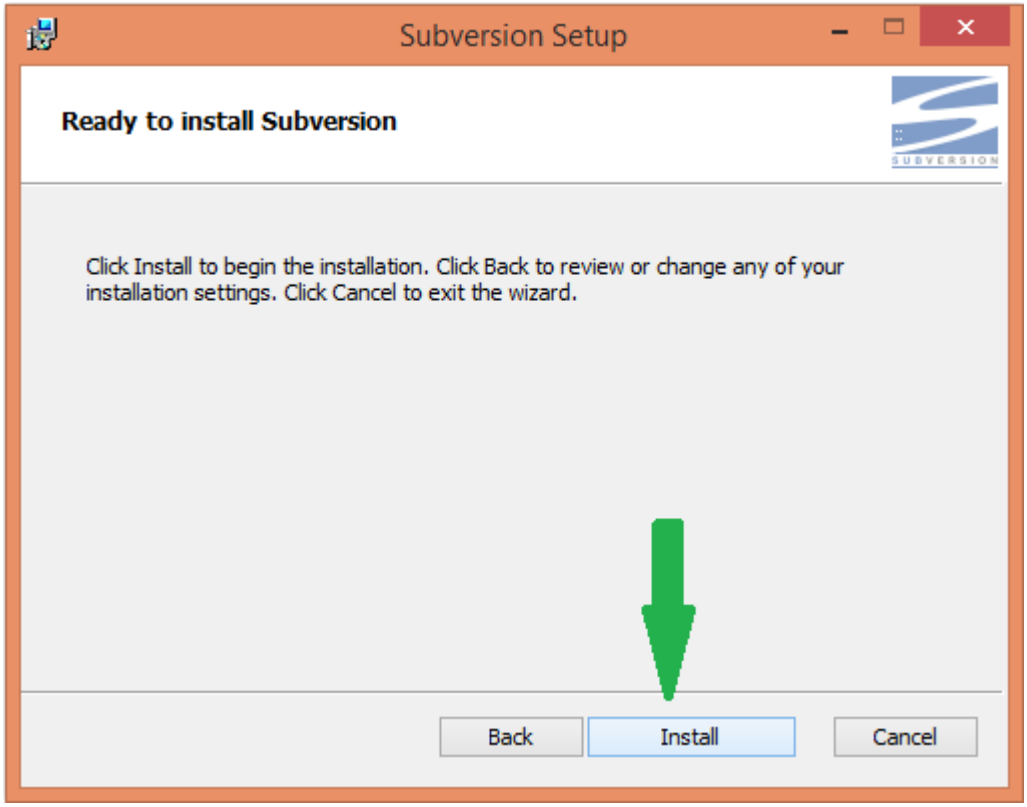
Follow the installation procedure as shown in the following screenshots




Subversion Setup
Information
Please read the following important information before continuing.
When you are ready to continue with Setup, click Next.
Welcome to the Subversion Installation Program for Windows!
Subversion is an Enterprise-class Centralized Version Control System running on many platforms.
See:
http://subversion.apache.org/ and
http://svn.apache.org/repos/asf/subversion/trunk/CHANGES for more info.
Subversion is using some external programs and libraries included in this package.
The proper licenses are in the licenses folder in the application path created after this installation.
Back
Next
Cancel


Subversion Setup
Select Apache Version
If you do not use Apache the following selection will have no effect.
When you have made your selection, click Next.
Modules for Apache 2.2.x
Modules for Apache 2.4.x
Back
Next
Cancel

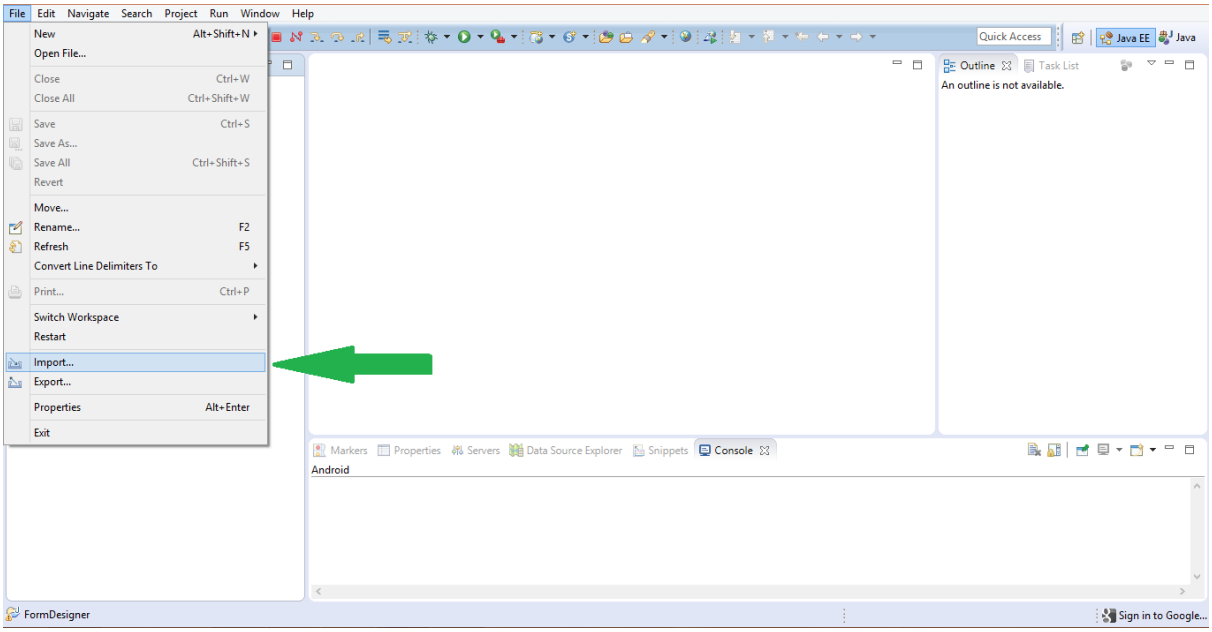




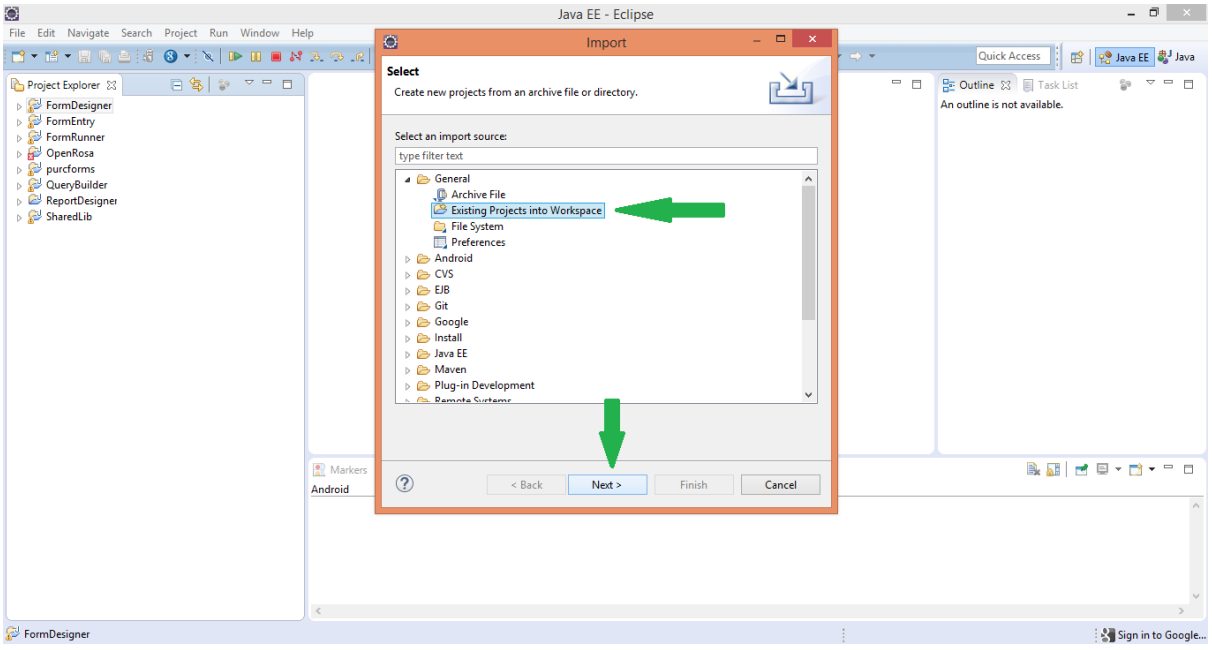
Downloading and Installing Purcforms

1. Open Command Prompt (Windows > cmd)
2. Navigate to the directory where the Purcforms source files are to be downloaded, by using the “cd <target directory>”. Note down this root directory.

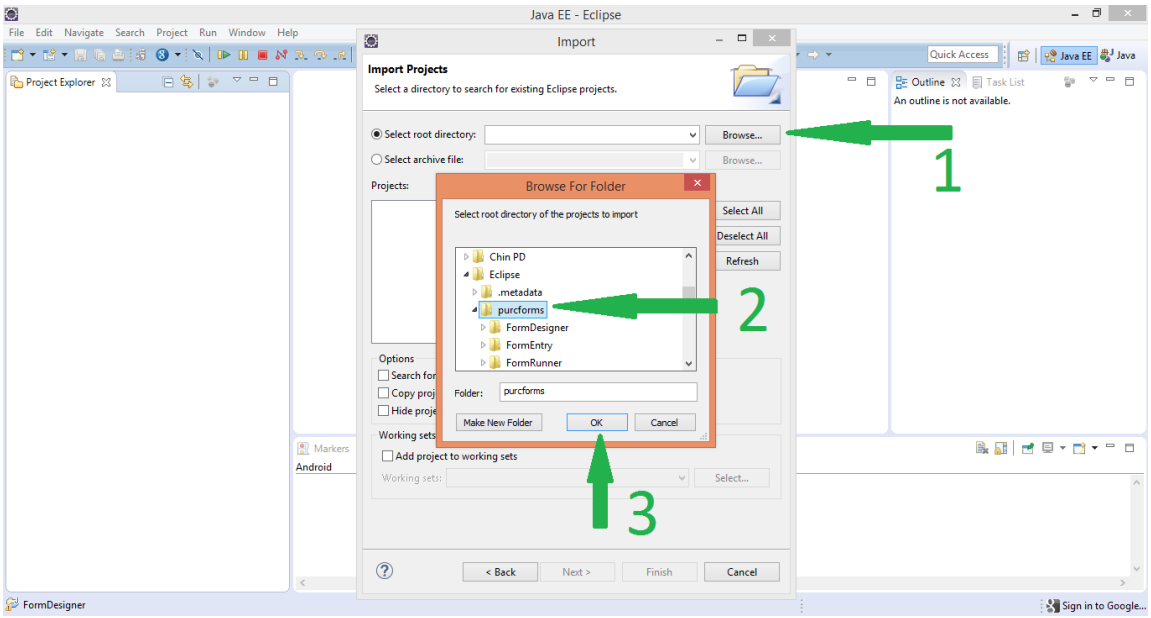
3. Type in “svn checkout http://purcforms.googlecode.com/svn/trunk/ purcforms-read-only”
4. Once the download is complete, close Command Prompt and open Eclipse
5. File > Import



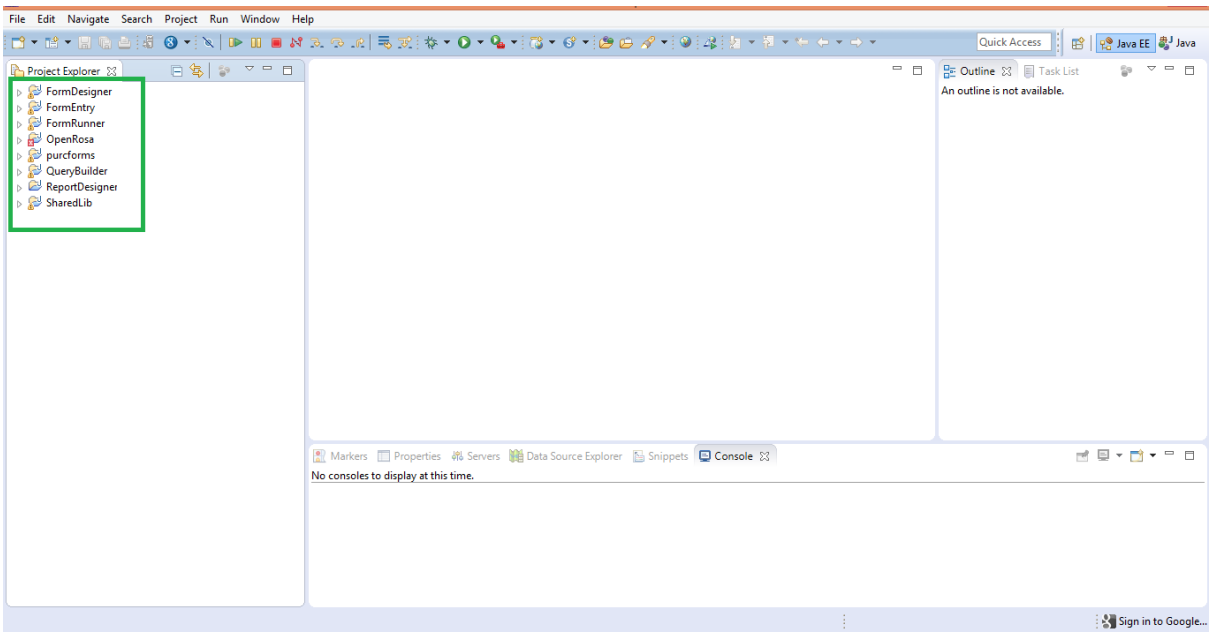
6. General > Existing Project into Workspace



7. Next to the “Select root directory” field, click on Browse, and navigate to the root folder where purcforms was downloaded to, and click OK.

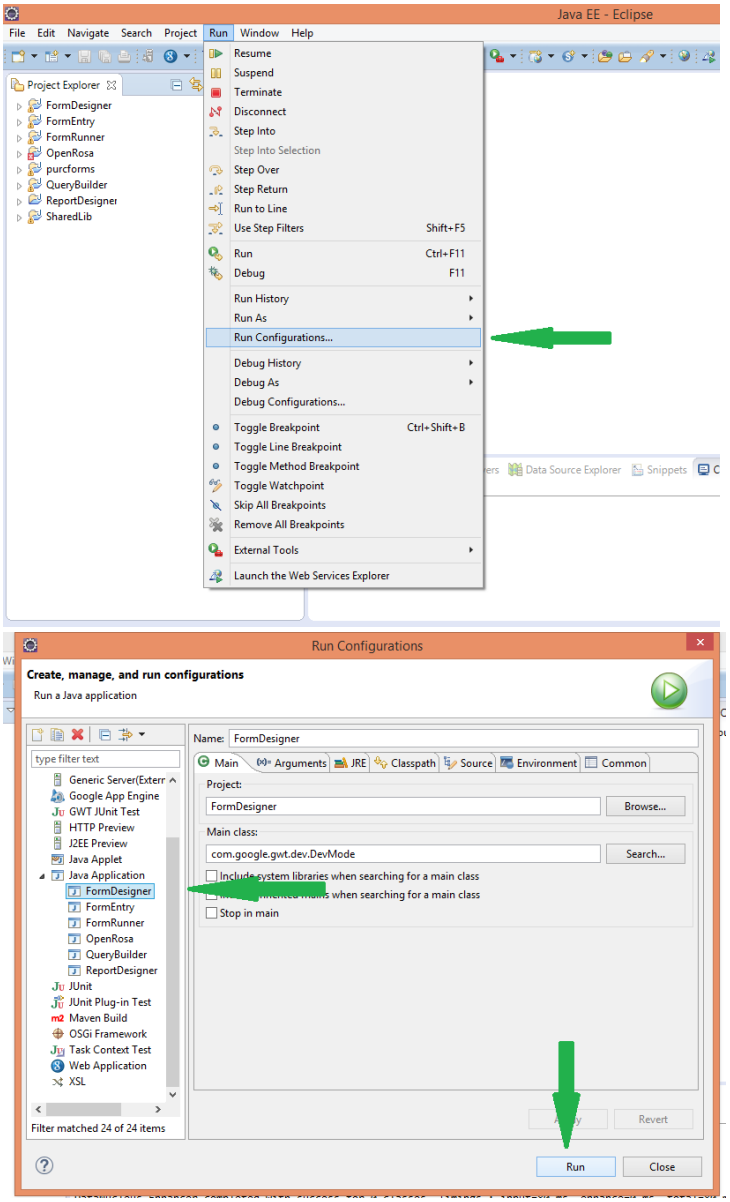


8. Make sure all the Projects in the “Projects” list are checked, and then click on “Finish”.
9. Verify if all the projects are imported

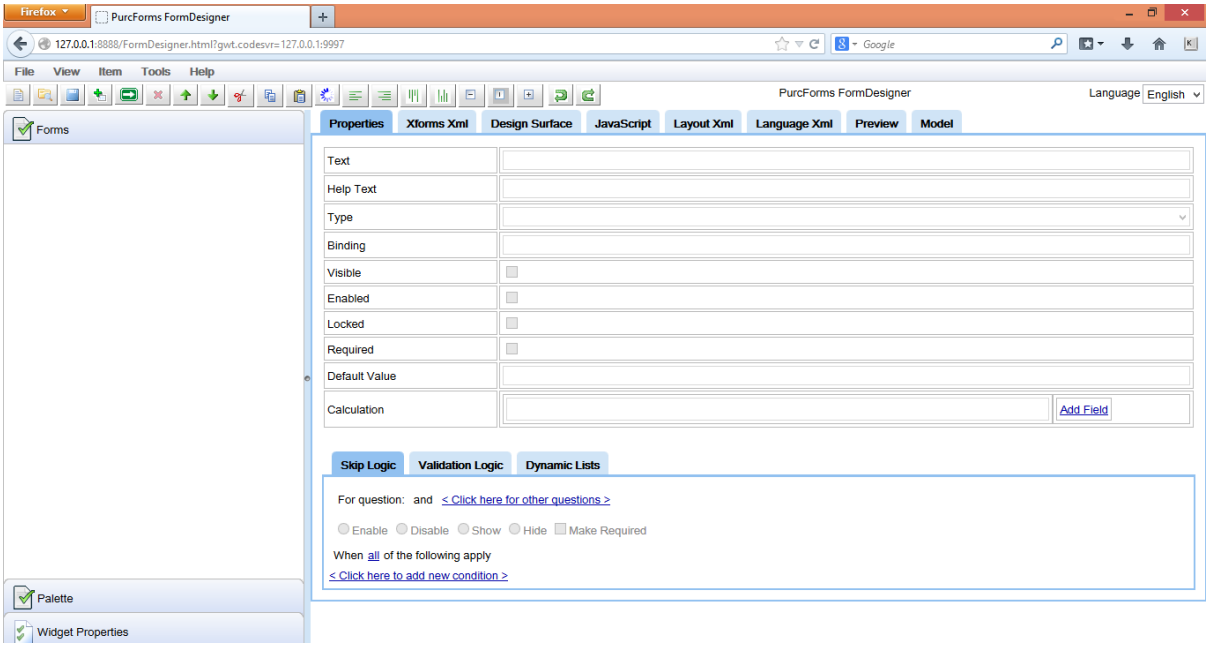


Verify if it’s Working

1. In Eclipse, click on Run > Run Configurations. The following window will appear. Select “FormDesigner” under “Java Application”, and click on Run.



2. The default browser will be automatically opened with a particular URL. If Firefox 24 is not your default browser, copy this URL, and open it using Firefox. If you have installed the Firefox plugin as shown in previous steps, you will see the following screen. This means that the installation is done right.



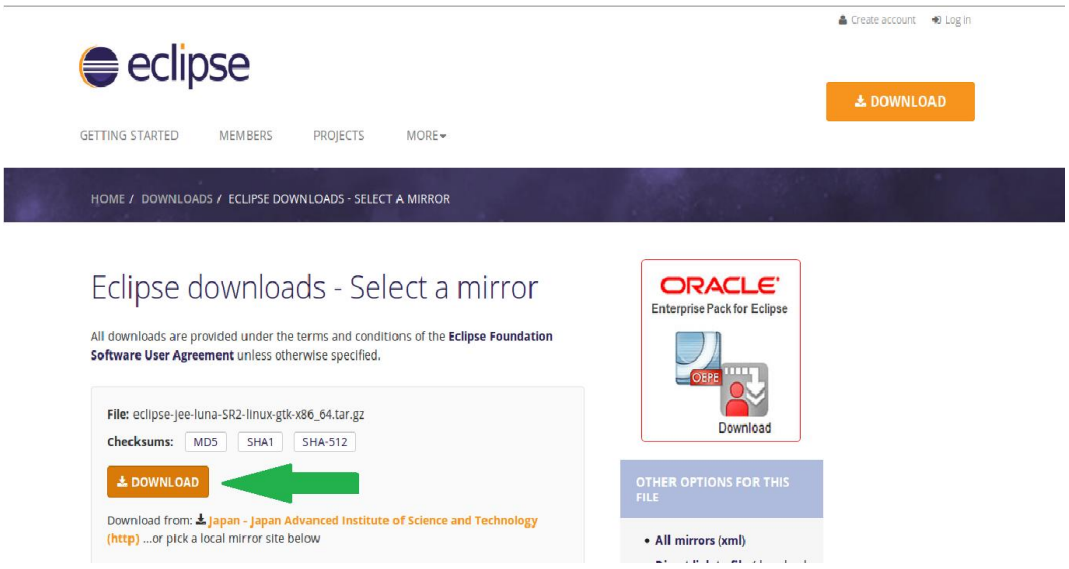
Installation Procedures for Ubuntu 14.04 (64 bit):

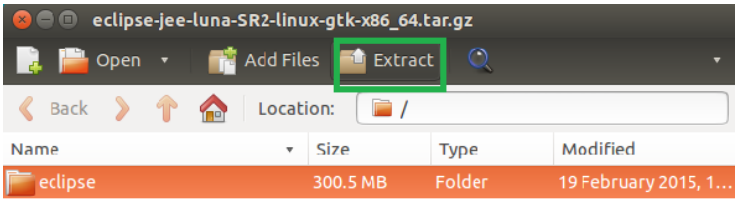
Softwares Required

1. Java 4.4 (Luna)
2. Google Plugin for Eclipse
3. Firefox 24
4. Google Web Toolkit Developers Plugin for Firefox 24
5. Subversion for Ubuntu
6. Purcforms for Eclipse

Installing Java 4.4 (Luna)

1. Download Java 4.4 (Luna) from this link. Extract the downloaded file “eclipse-jee-luna-SR2-linux-gtk-x86_64.tar” to a local folder, as shown in the screenshot below.

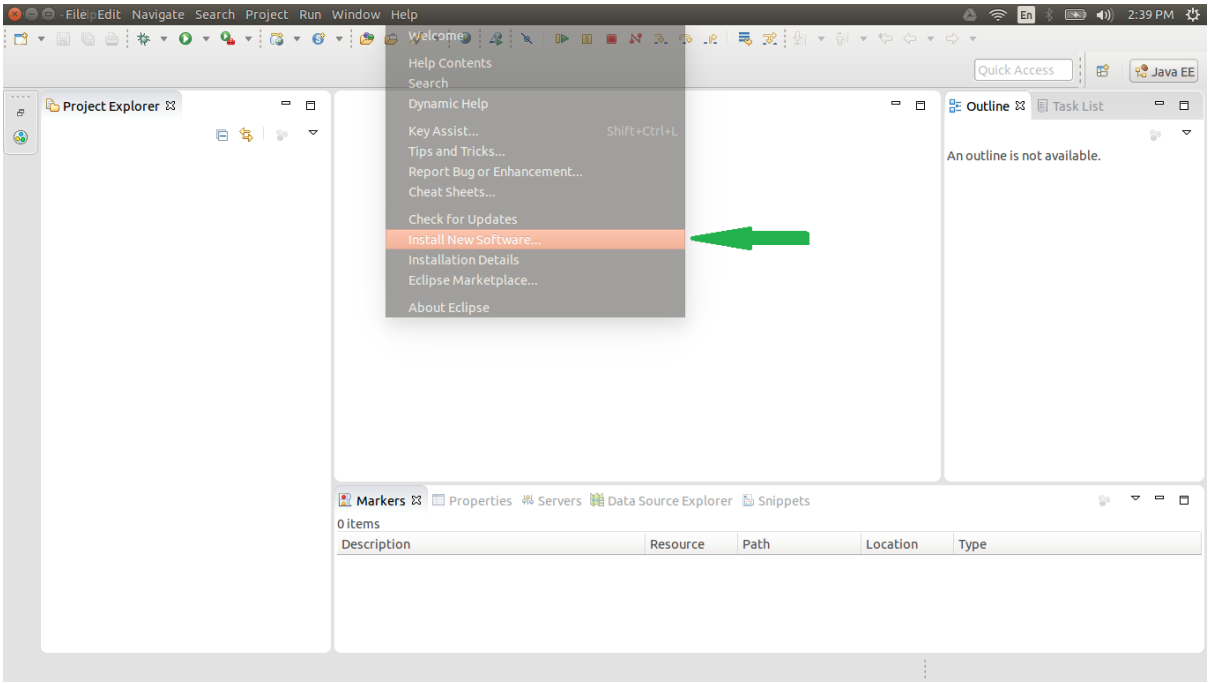


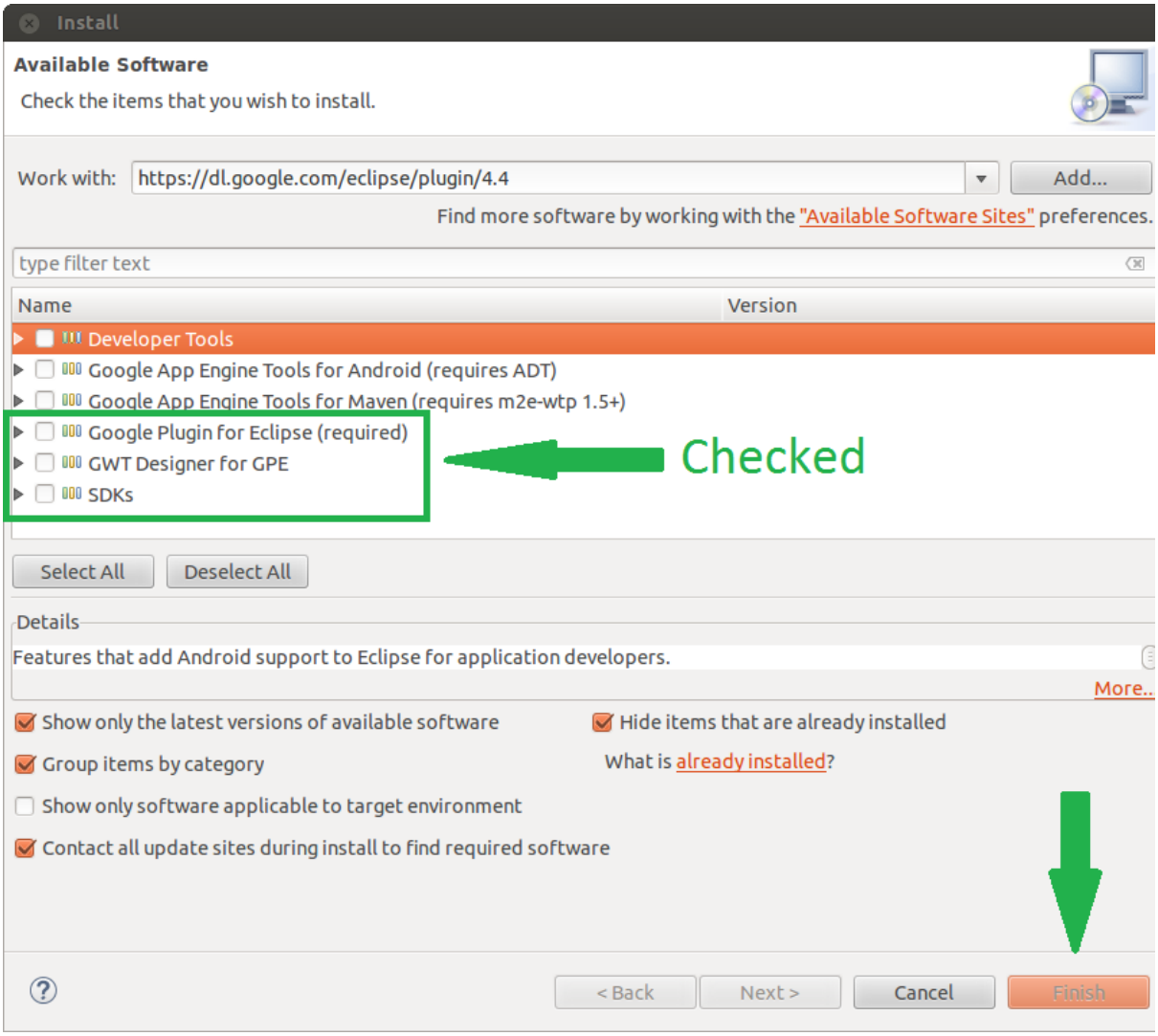


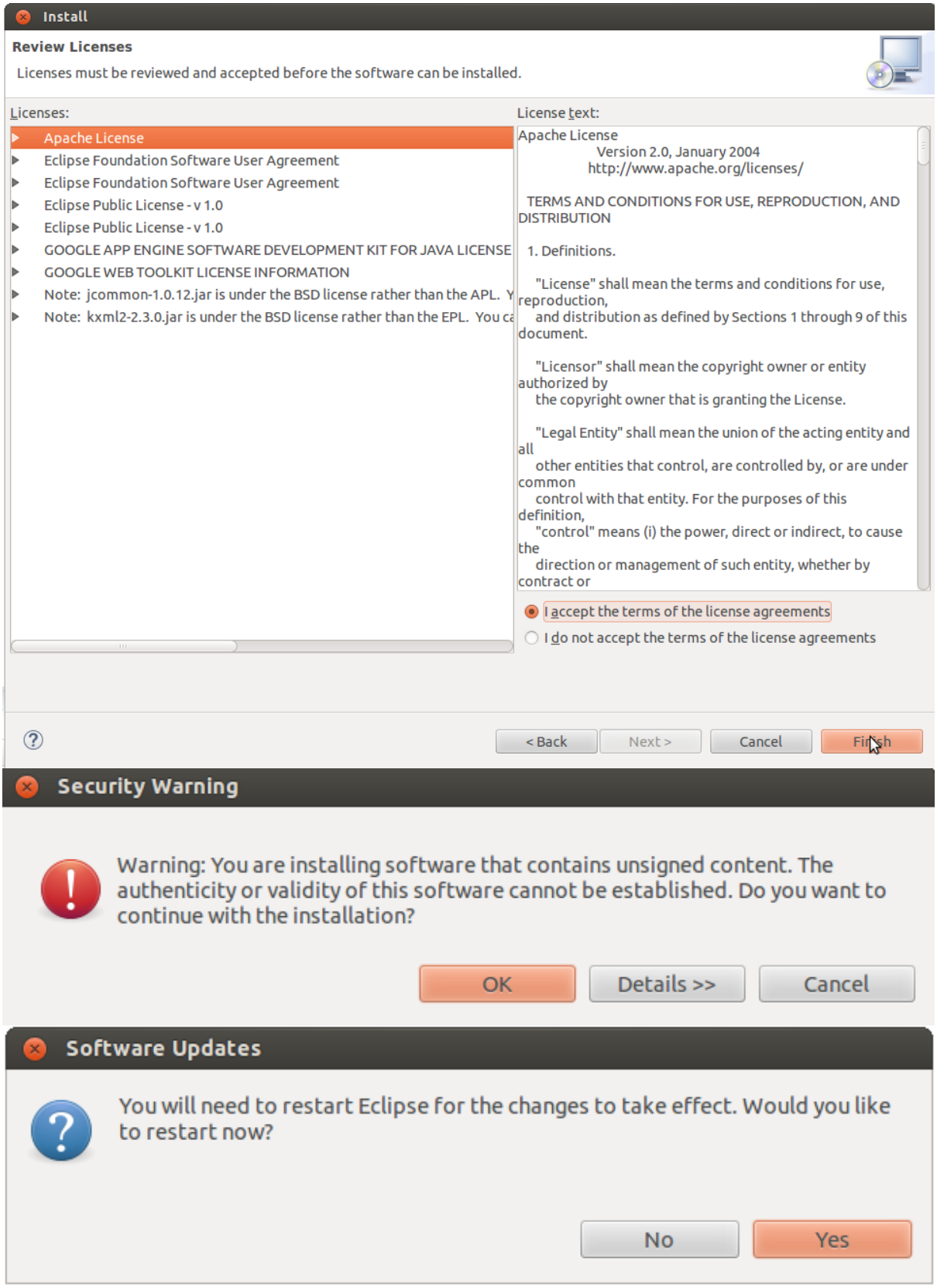
2. After extracting, you will have a folder called “eclipse”. In “eclipse” folder, click on “eclipse.exe”. Once it loads, you will be shown a window asking you to choose a workspace folder. Choose a suitable folder as the workspace. This is where all the project files and folders are going to be saved. You can also choose to use this folder as the default for all projects. Click on OK.

Installing Google Plugin for Eclipse

1. Once Eclipse is set up, open it and then click on “Help > Install New Software...”. In the “Work with” field, type in “https://dl.google.com/eclipse/plugin/4.4” and press Enter. After a while, a list of tools will appear as shown in the Figure below. Check on the, “Google Plugin for Eclipse”, “GWT Designer for GPE” and “SDKs”, and click Next and follow the installation instructions.



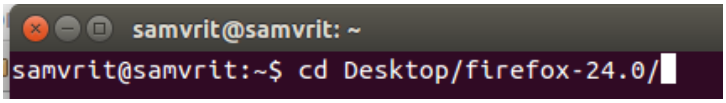

Install
Available Software
Check the items that you wish to install.
Work with:
https://dl.google.com/eclipse/plugin/4.4
Add...
Find more software by working with the "Available Software Sites" preferences.
type filter text
Name
Version
Developer Tools
Google App Engine Tools for Android (requires ADT)
Google App Engine Tools for Maven (requires m2e-wtp 1.5+)
Google Plugin for Eclipse (required)
GWT Designer for GPE
SDKs
Checked
Select All
Deselect All
Details
Features that add Android support to Eclipse for application developers.
More...
Show only the latest versions of available software
Hide items that are already installed
Group items by category
What is already installed?
Show only software applicable to target environment
Contact all update sites during install to find required software
< Back
Next >
Cancel
Finish



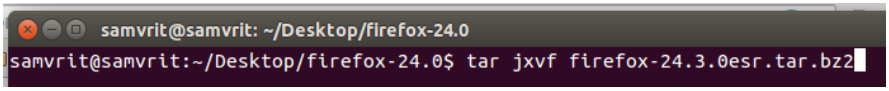
Installing Firefox 24 for Ubuntu

1. Download the Firefox version 24.3.0 Extended Support Release (ESR) from this link and save it in a local directory.

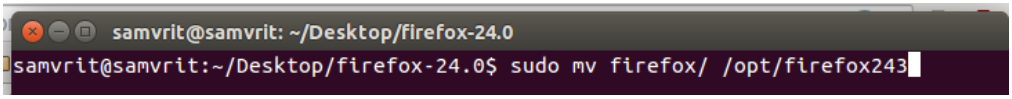
2. Open terminal (Ctrl + Alt + T) and navigate into the folder where the downloaded file, “firefox-24.3.0esr.tar.bz2” was downloaded, by using “cd <destination folder>” command. Example:



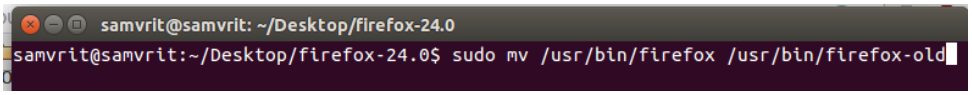
3. Once you are in the required folder, type in “tar jxvf firefox-24.3.0esr.tar.bz2”



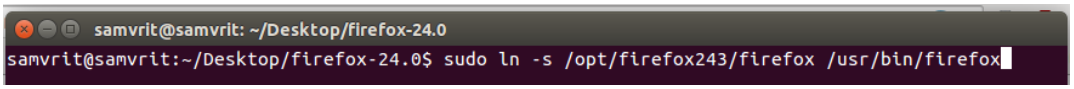
4. After extracting the file, move it to the /opt/ folder by running the command “sudo mv firefox/ /opt/firefox243”



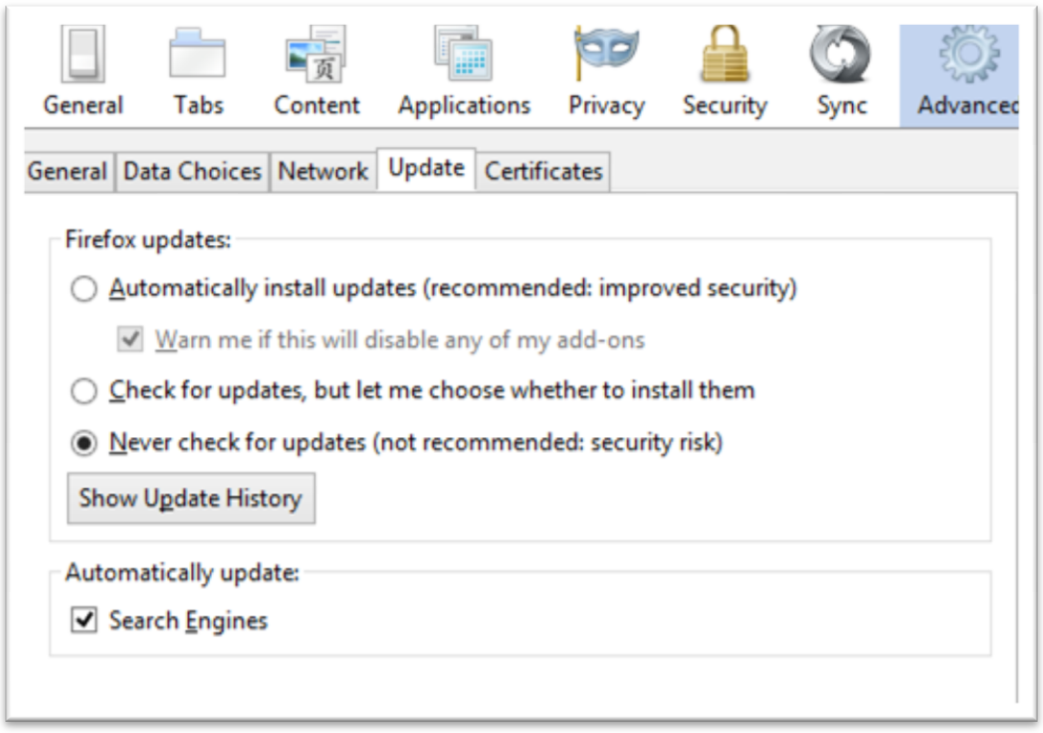
5. Then backup your current Firefox executable by running the command “sudo mv /usr/bin/firefox /usr/bin/firefox-old”



6. Run the command below to create a symbolic link to the older Firefox executable “sudo ln –s /opt/firefox /usr/bin/firefox”

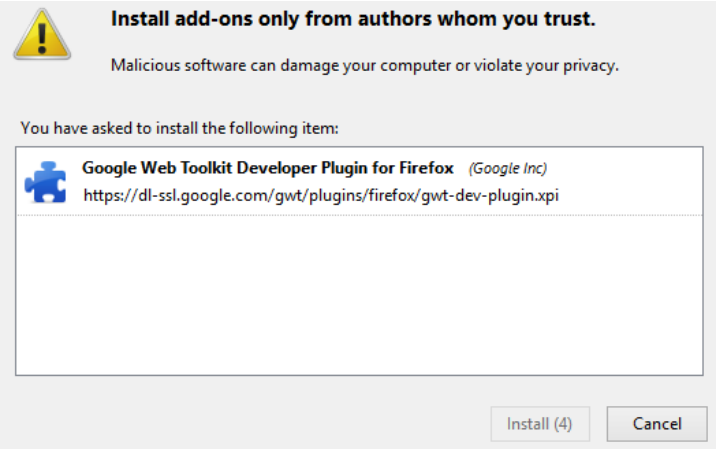


7. Before opening Firefox 24.3, disconnect from the internet, otherwise Firefox will run an auto-update, and get updated to the latest version. Hence, once you have disconnected from internet, open Firefox > Edit > Preferences > Advanced > Update > Never check for updates, and then click OK.



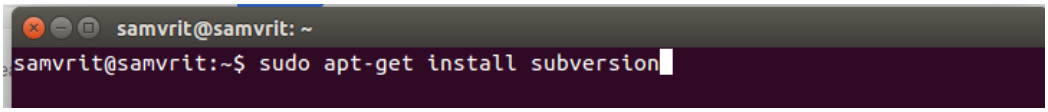
Install Google Web Toolkit Developers Kit for Firefox

1. Once Firefox 24 is installed, open the browser, and copy paste “https://dl-ssl.google.com/gwt/plugins/firefox/gwt-dev-plugin.xpi” in the address bar. You will then be asked to install the Plugin. After a few seconds, the “Install” button will get activated, then click Install. You will be asked to restart the browser. Click on “Restart Browser”.



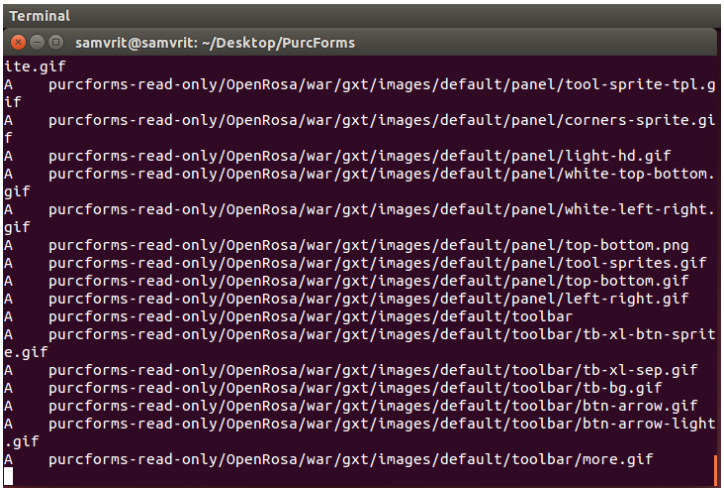
Installing Subversion on Ubuntu

1. Install Subversion for Ubuntu by opening the Terminal and entering the command “sudo apt-get install subversion”



Downloading and Importing Purcforms in Eclipse

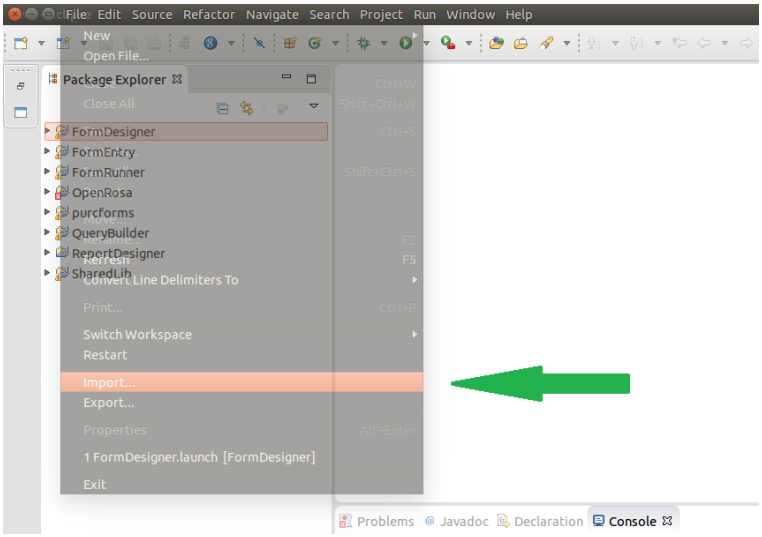
1. Create a folder on your PC where you would want Purcforms files to be downloaded, and navigate to this folder by using the “cd <destination folder>” on the terminal.
2. Type “svn checkout http://purcforms.googlecode.com/svn/trunk/ purcforms-read-only” and press enter.
3. Once the download is complete, close the terminal and open Eclipse.



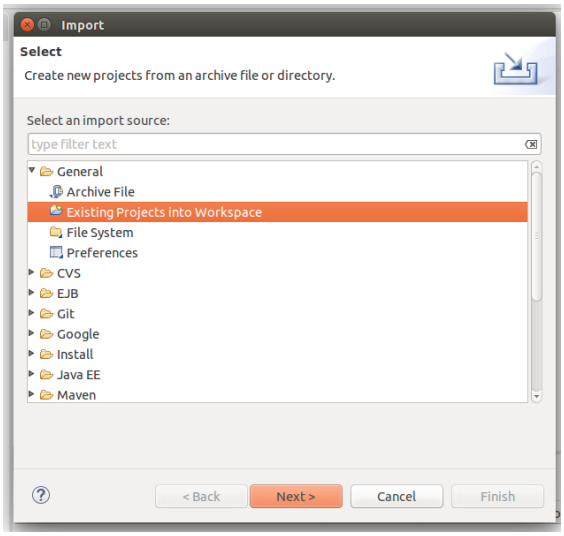
Downloading and Installing Purcforms

1. Open Command Prompt (Windows > cmd)
2. Navigate to the directory where the Purcforms source files are to be downloaded, by using the “cd <target directory>”. Note down this root directory.

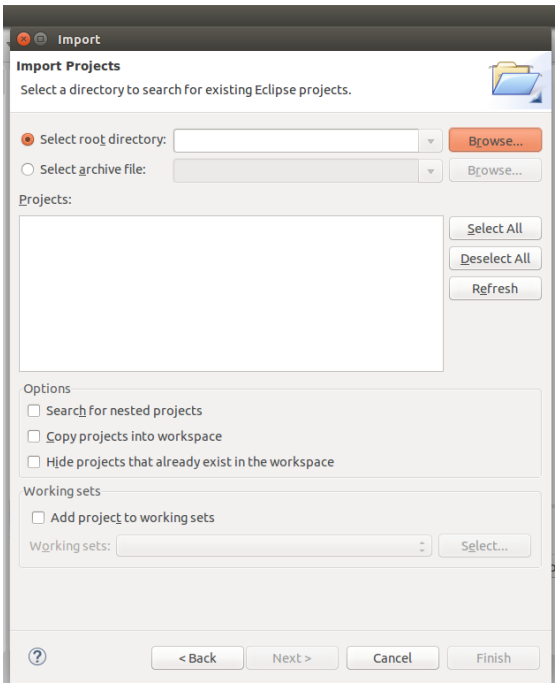
3. Type in “svn checkout http://purcforms.googlecode.com/svn/trunk/ purcforms-read-only”
4. Once the download is complete, close Command Prompt and open Eclipse
5. File > Import



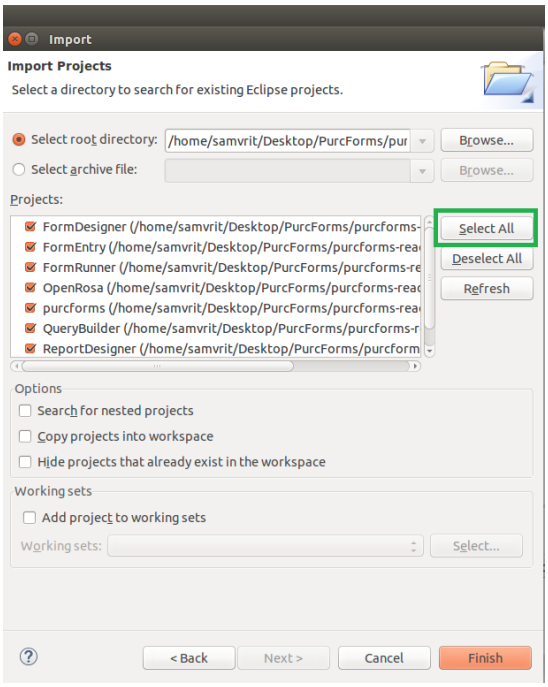
6. General > Existing Project into Workspace



7. Next to the “Select root directory” field, click on Browse, and navigate to the root folder where purcforms was downloaded to, and click OK.

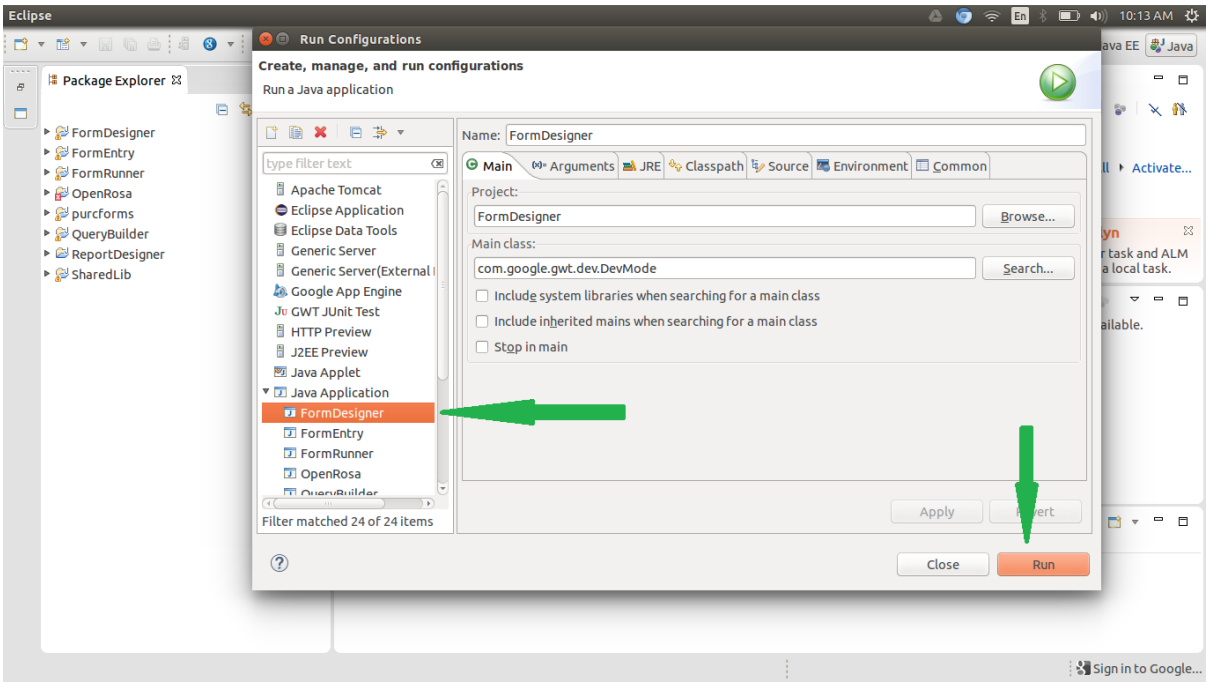
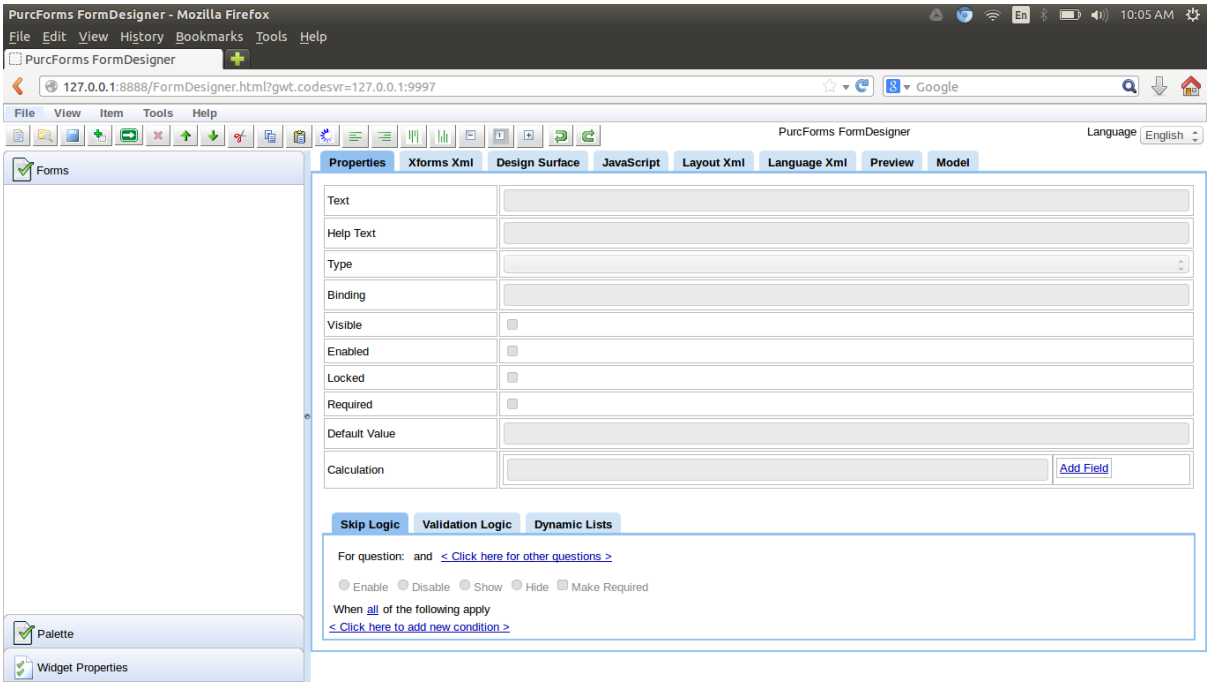


8. Make sure all the Projects in the “Projects” list are checked, and then click on “Finish”.



Verify if it's Working

3. In Eclipse, click on Run > Run Configurations. The following window will appear. Select "FormDesigner" under "Java Application", and click on Run.



4. The default browser will be automatically opened with a particular URL. If Firefox 24 is not your default browser, copy this URL, and open it using Firefox. If you have installed the Firefox plugin as shown in previous steps, you will see the following screen. This means that the installation is done right.