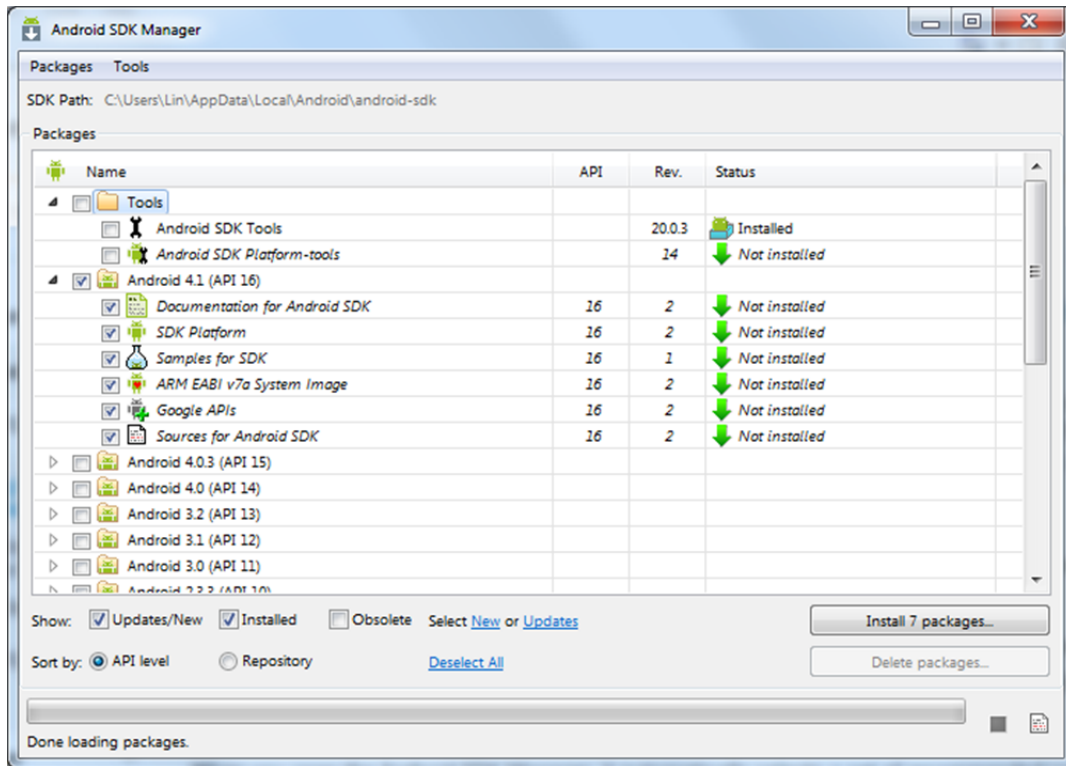# Lab Activity 1
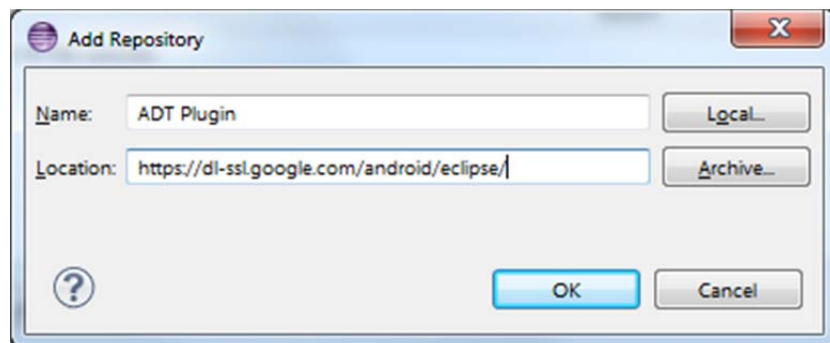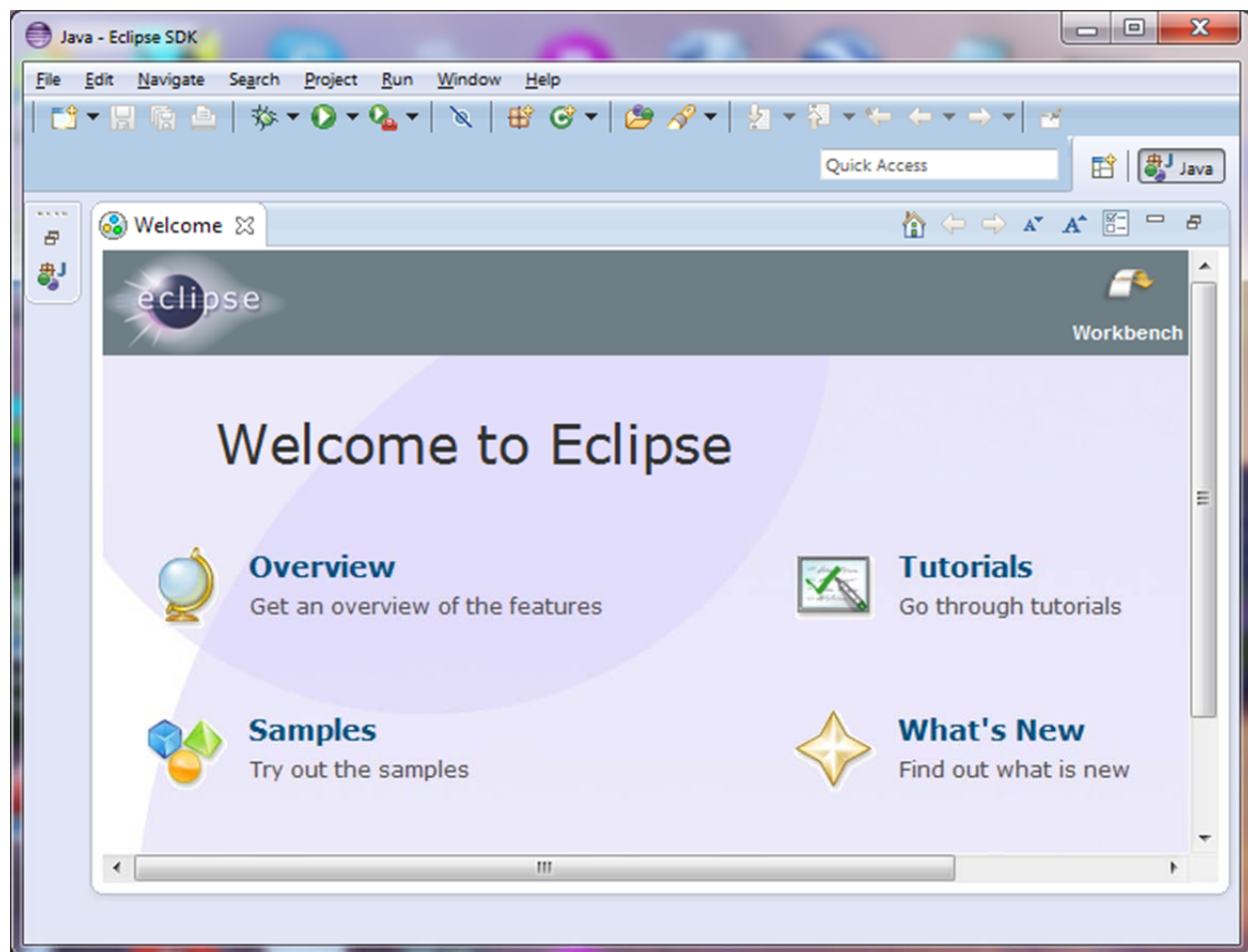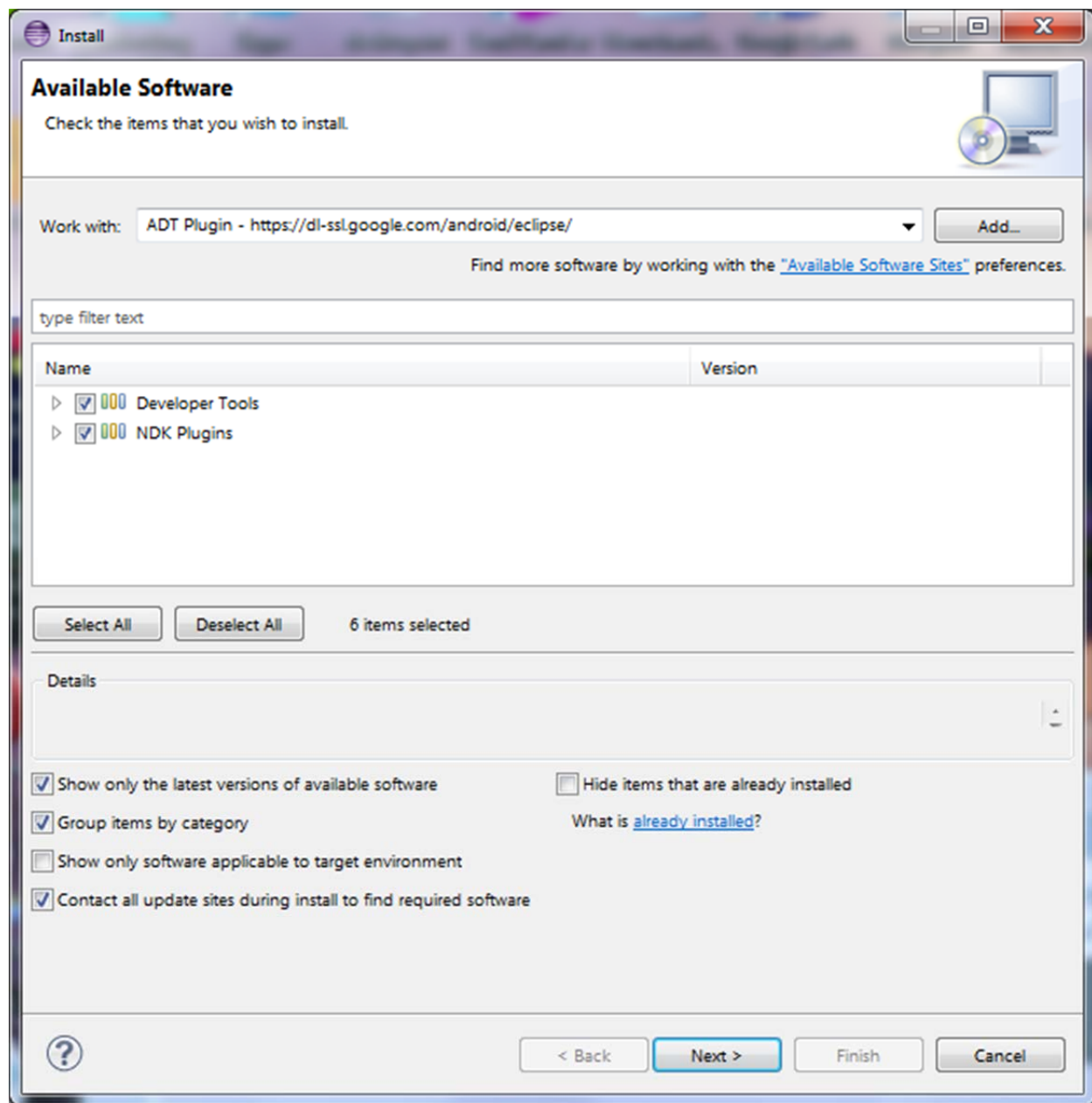## Tools for Android-Based Applications

Android SDK, the JDK and the EClipse are available for Windows, Mac OS, and Linux. Please follow the following steps to download and install
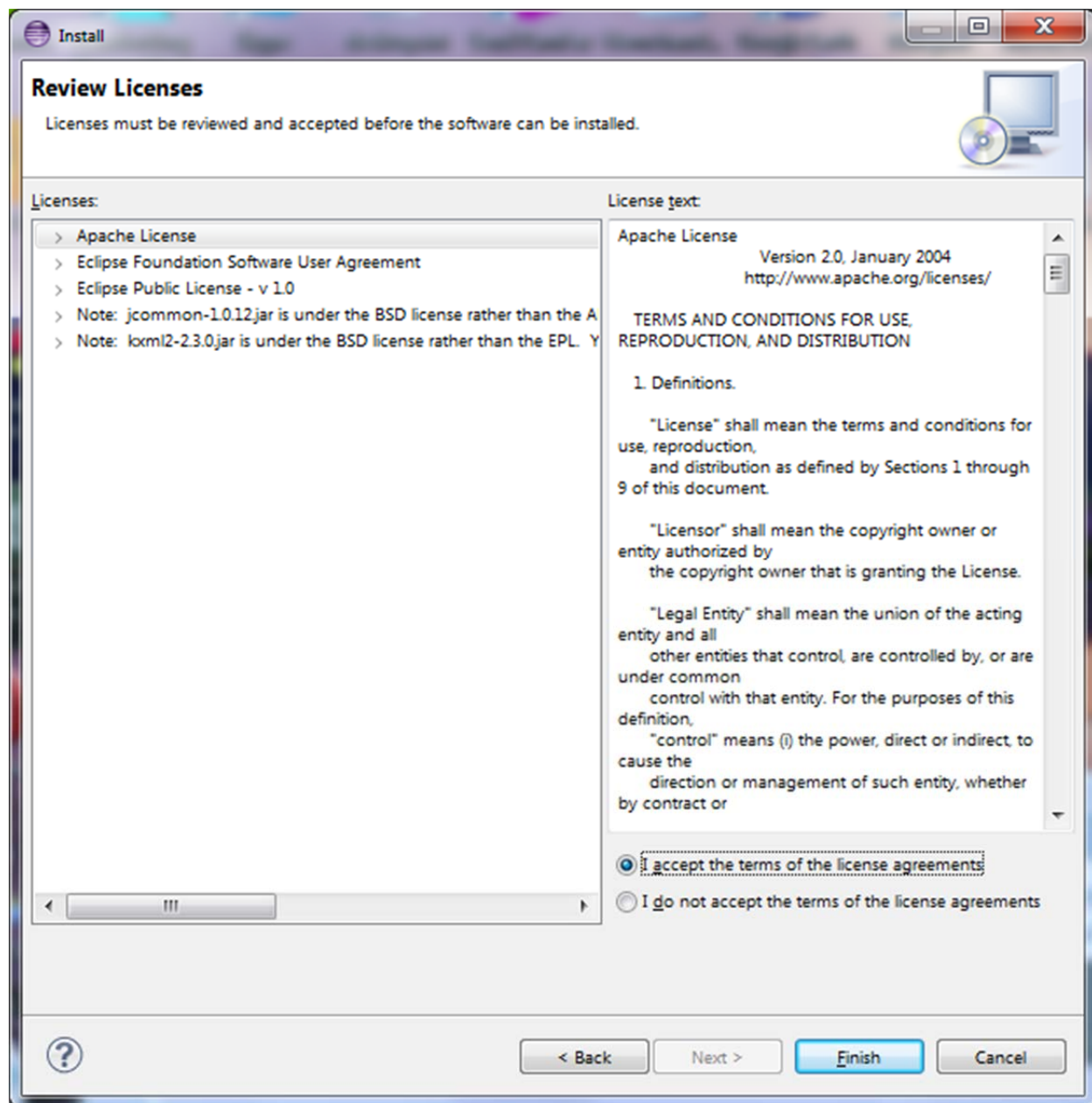
- Java JDK version 1.6,
- Android SDK
- Eclipse IDE
- Eclipse Plug-In

1) Download a copy of Java SE Development Kit (JDK) version 1.6, http://www.oracle.com/technetwork/java/javase/downloads/index.html
    o Install JDK 1.6
2) Download a copy of the Android SDK, http://developer.android.com/sdk/index.html
    o Download SDK for Windows
        ▪ Download "installer_r20.0.3-windows.exe" (67.2 MB from dl.google.com)
        ▪ Make a note of the download location on your computer
3) View downloaded file, and chose Run "installer_r20.0.3-windows.exe"
        ▪ Click Next> appear on the Android SDK Tools Setup window
        ▪ Welcome to the **Android SDK Tools Setup** Wizard (click Next)
        ▪ Detect Java SE Development Kit (Found JDK version 1.7), Location: C:\Program Files (x86)\Java\jre7\bin\java.exe
        ▪ Click Next>
        ▪ Choose Users (click the radio button: **Install just for me**), then click Next
        ▪ Choose Install Location (choose default: C:\Users\YourName\AppData\Local\Android\android-sdk), then click Next
        ▪ Choose Star Menu Folder – Android SDK Tools, then click Install
        ▪ Installation Complete – click Next
        ▪ Completing the Android SDK Tools Setup Wizard
        ▪ Click check box: Start SDK Manager (to download system images, etc)
        ▪ Click Finish
4) Install all software packages and tools
    o It will show Android SDK Manager window – which shows all packages available for download
    o Adding Platforms and Packages, http://developer.android.com/sdk/installing/adding-packages.htmlIt includes a node for Android SDK Tools, Android SDK Platform-tools, each of the platform releases, and a collection of extras.
    o Uncheck Android 4.1 (API 16)
    o Click Check box: Android 4.0.3 (API 15), to install all tools, click Install 11 packages
    o Click INSTALL to install the recommended packages (other updates)
    o Review Android SDK Manager Log, click Close when you are OK with the installation
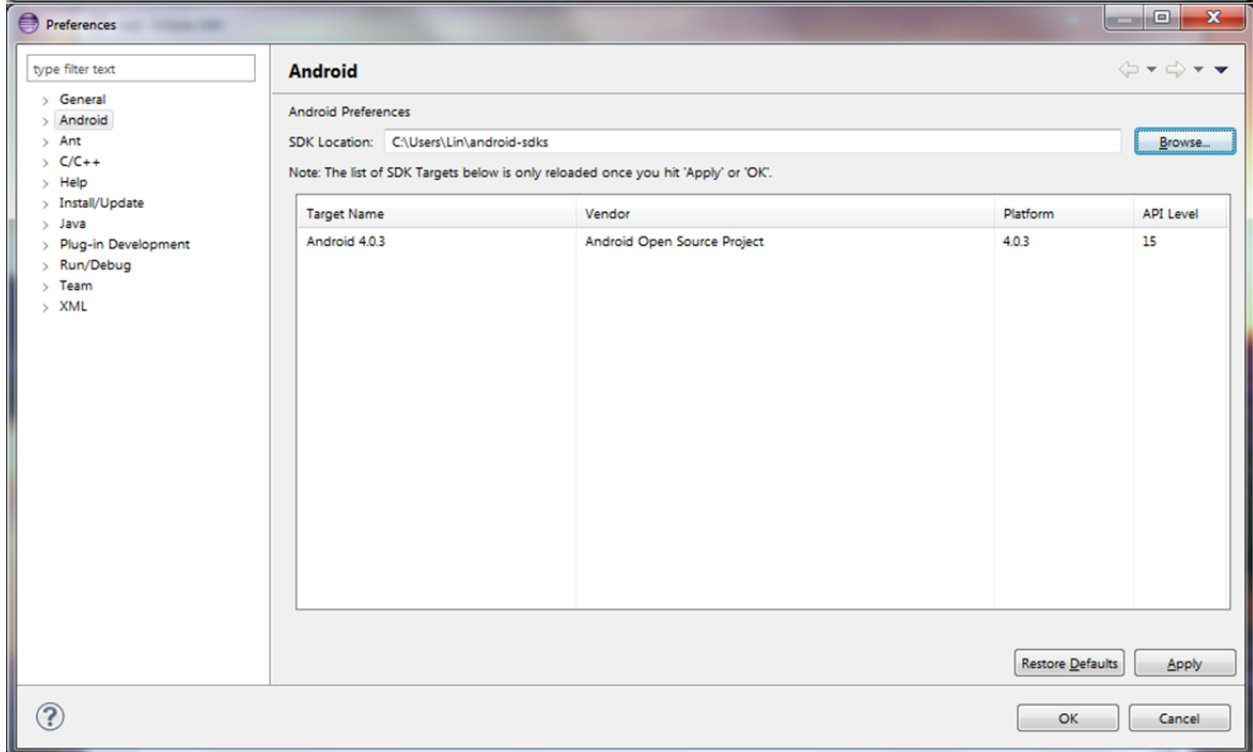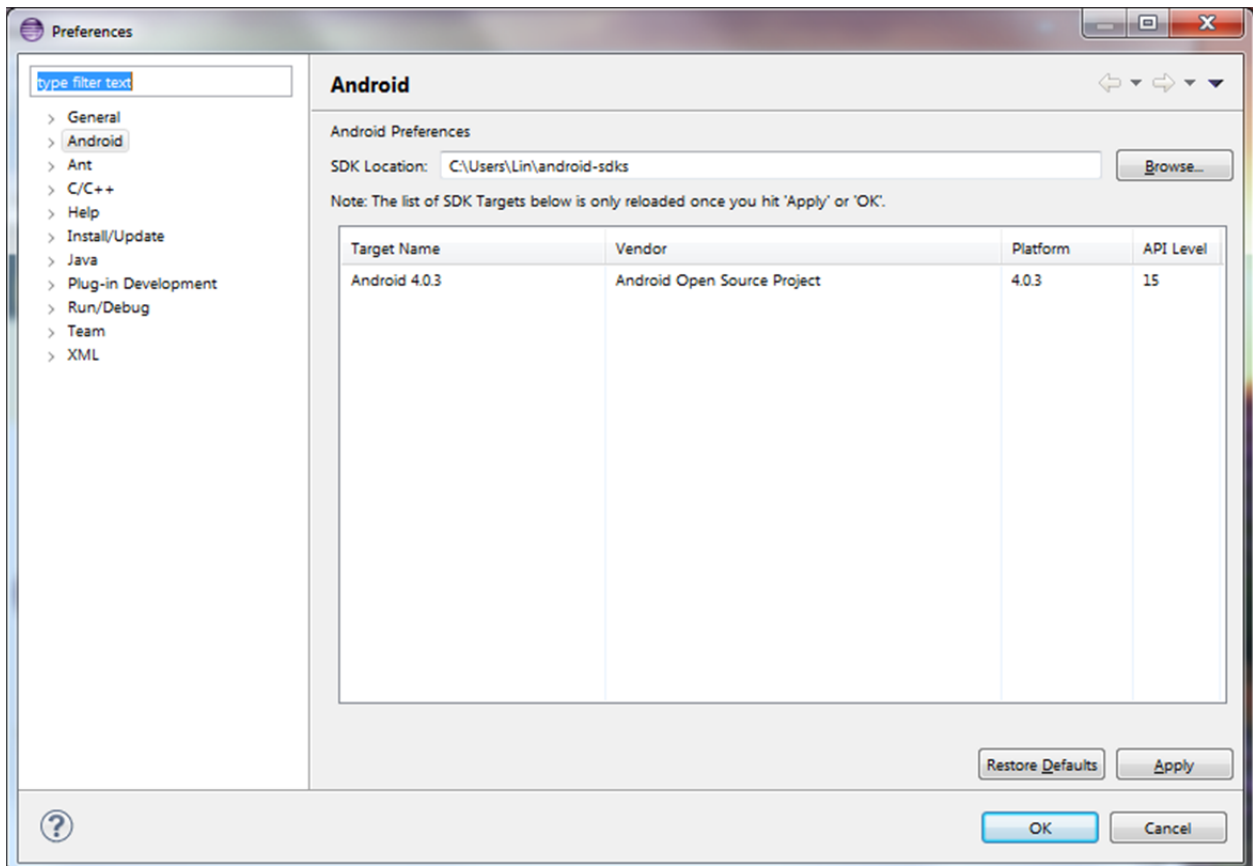
5) Download a the Eclipse IDE, http://www.eclipse.org/downloads/
   o From Eclipse Classic 4.2, Choose Other Downloads
   o Choose: Eclipse Classic 3.7.2 Indigo from
     http://www.eclipse.org/downloads/packages/release/indigo/sr2
     ▪ Save it
     ▪ View download
     ▪ Extract (unzip) Eclipse Classic 3.7.2 Indigo, bring Eclipse to the desktop
     ▪ Run Eclipse Classic 3.7.2 from the extracted folder eclipse-SDK-3.7.2-win32-x86_64 => eclipse folder, then bring the eclipse.exe to the Desktop
     ▪ Start Eclipse from its installed folder
     ▪ Run => downloads\eclipse-SDK-3.7.2-win32-x86_64eclipse.exe
6) Installing the Eclipse Plugin
   o Go to the link, http://developer.android.com/sdk/installing/installing-adt.html
     ▪ Download the ADT Plugin (Android Development Tool), from http://dl-ssl.google.com/android/eclipse/
   o Eclipse 3.7.2 (Eclipse Classic download) select Help > Install New Software
     ▪ Click Add
       • Place ADT Plugin into the Name box
       • Copy from http://dl-ssl.google.com/android/eclipse/ into the URL
     ▪ Install
       • Eclipse Java Development Tools (JDT)
       • Web Standard Tools (WST)

Install

Available Software

Check the items that you wish to install.

Work with: | ADT Plugin - https://dl-ssl.google.com/android/eclipse/ ▼ | Add...

Find more software by working with the "Available Software Sites" preferences.

```
type filter text
```

Name	Version
▷ ☑ ▯▯▯ Developer Tools	
▷ ☑ ▯▯▯ NDK Plugins	

[Select All] [Deselect All]   6 items selected

Details

☑ 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 >]   [Finish]   [Cancel]

- Restart Eclipse

Preferences

type filter text

> General
> Android
> Ant
> C/C++
> Help
> Install/Update
> Java
> Plug-in Development
> Run/Debug
> Team
> XML

Android

Android Preferences

SDK Location: C:\Users\Lin\android-sdks   Browse...

Note: The list of SDK Targets below is only reloaded once you hit 'Apply' or 'OK'.

Target Name	Vendor	Platform	API Level
Android 4.0.3	Android Open Source Project	4.0.3	15

Restore Defaults   Apply

OK   Cancel

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7) Building the First App, http://developer.android.com/training/basics/firstapp/index.html
- Creating and Android Project, http://developer.android.com/training/basics/firstapp/creating-project.html