JAVA DEVELOPMENT

ENVIRONMENT SETUP GUIDE
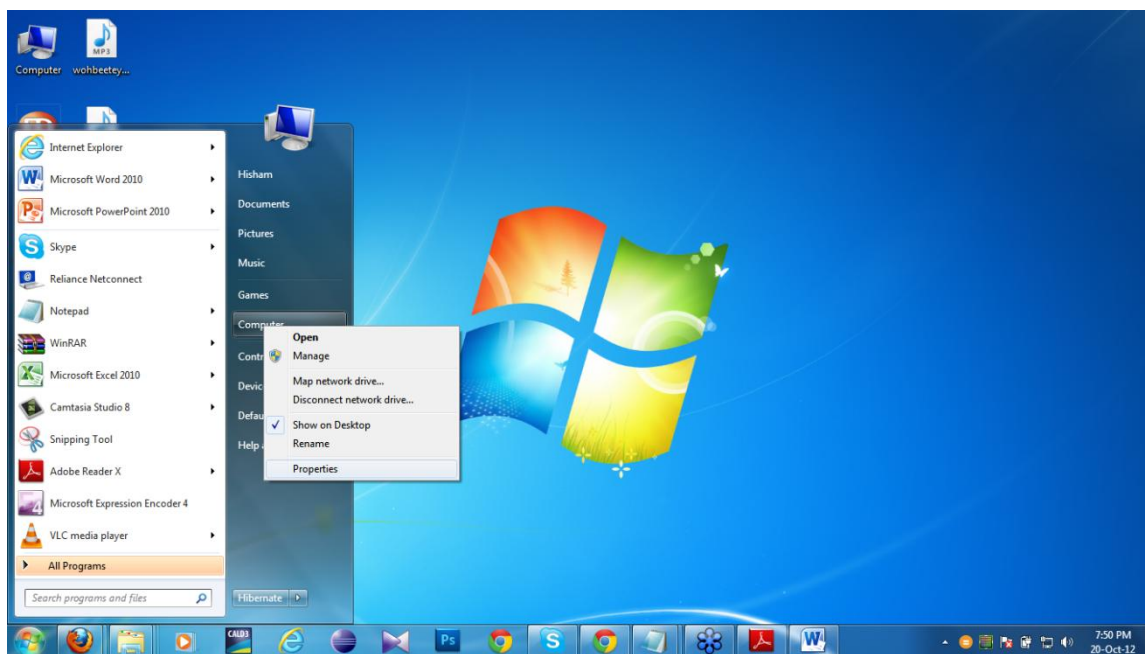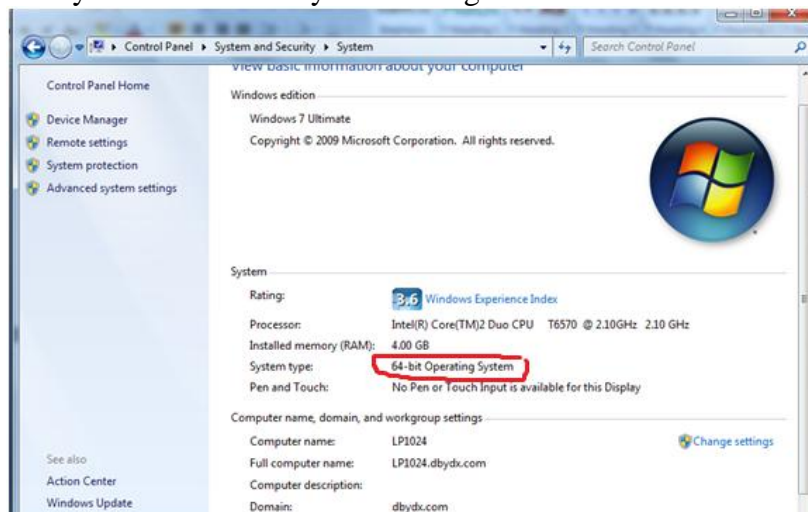
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Know your System Requirements:

If you are using Windows 7:
Click on "start" or press "windows key" ➔ right click on "Computer" ➔ select "Properties".
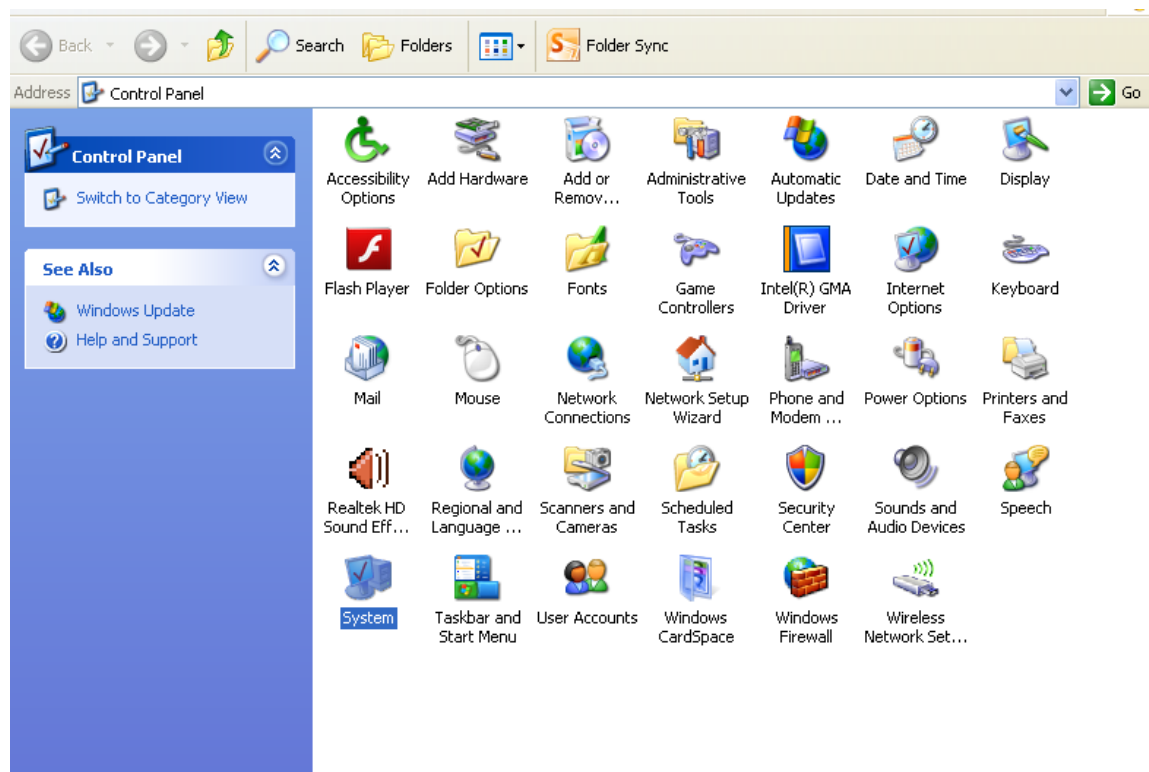

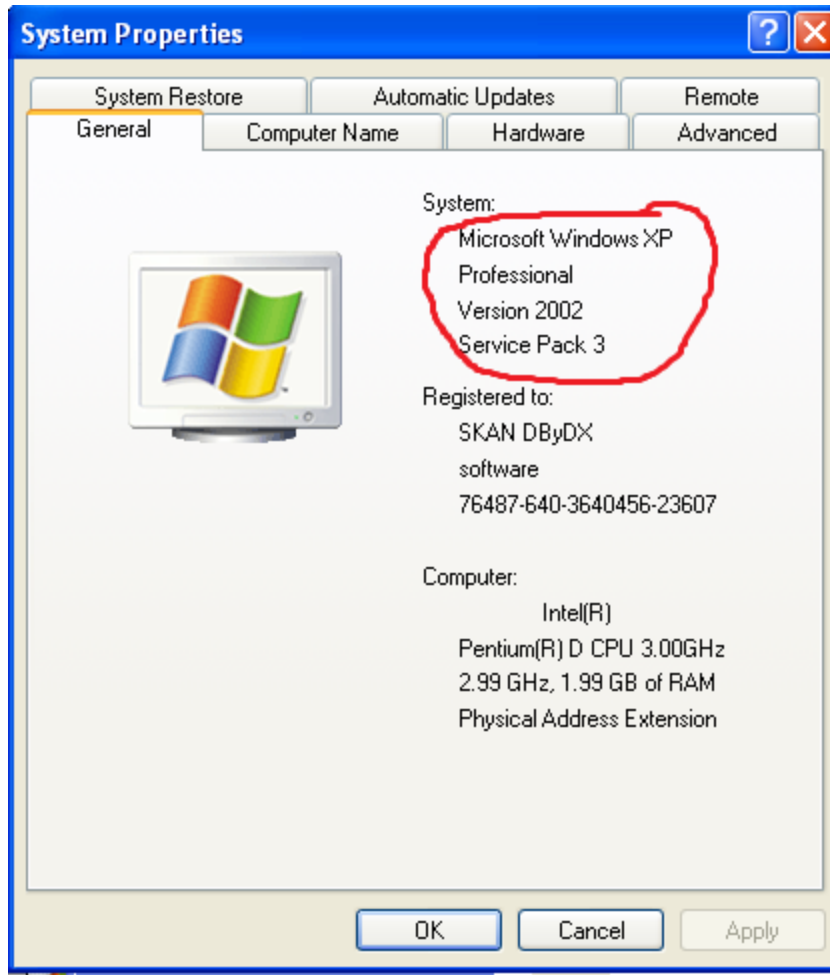Here you will find the System settings as below:

From the above window you can find out whether your machine is 64 bit or 32 bit machine.

On a Windows XP OS follow the following steps:

from the start menu➔ Go to Control Panel ➔Go to System.

Here you will find the System settings as below:

As you can see the above Machine is a 32 bit machine as it is showing Microsoft Windows XP Professional.
For a 64 bit machine it will show Microsoft Windows XP Professional X64 Edition.

All the software's viz. Eclipse,Android SDK,JDK will be downloaded for the type of machine found(viz 32 bit or 64 bit).
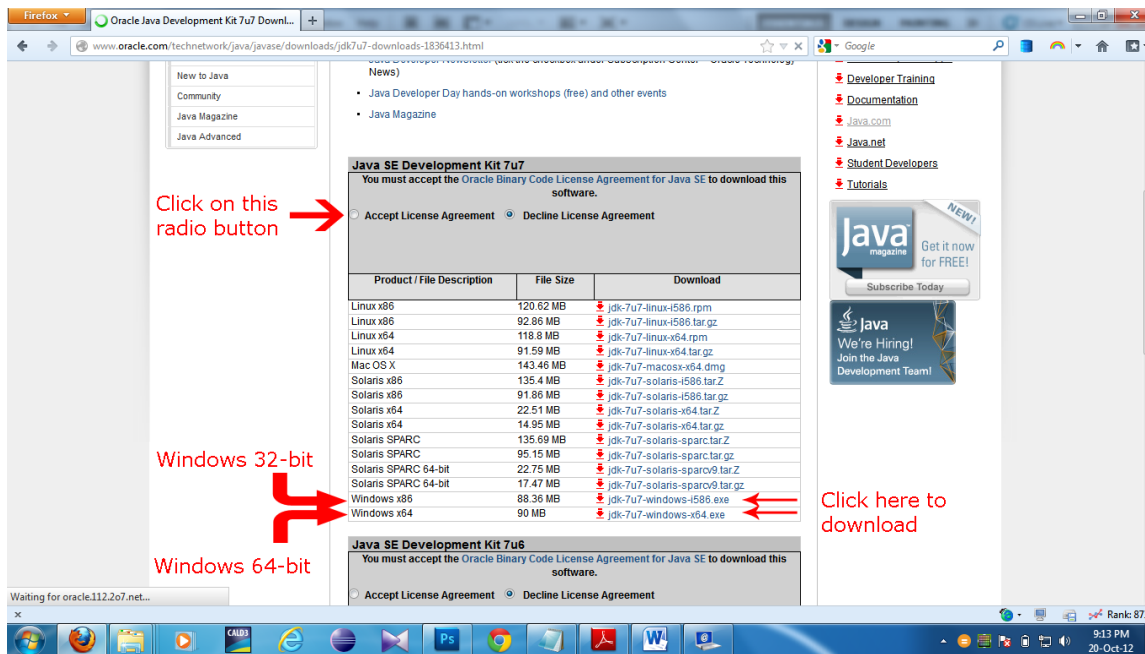
Prerequisites:

- Java Development Kit(JDK and JRE).
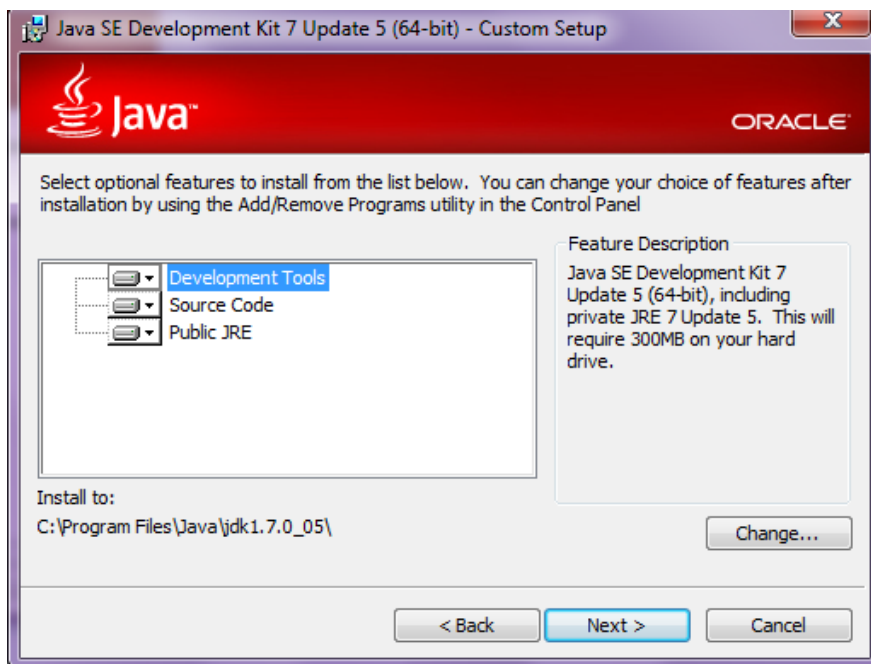- Eclipse IDE(Helios or Above).

Installing JDK:

- Go to the URL: http://www.oracle.com/technetwork/java/javase/downloads/index.html
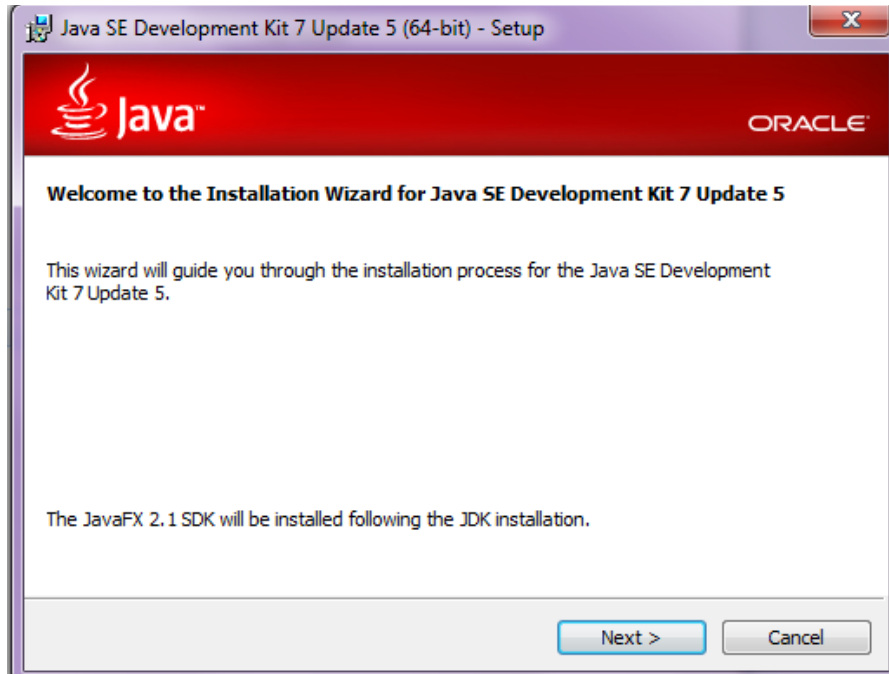- Then click on Download under the JDK section.

Choose the appropriate option that is as per the machine you are installing the JDK viz. 32 bit machine or 64 bit machine.

- Once the download is over. Start the .exe file by double click on it.
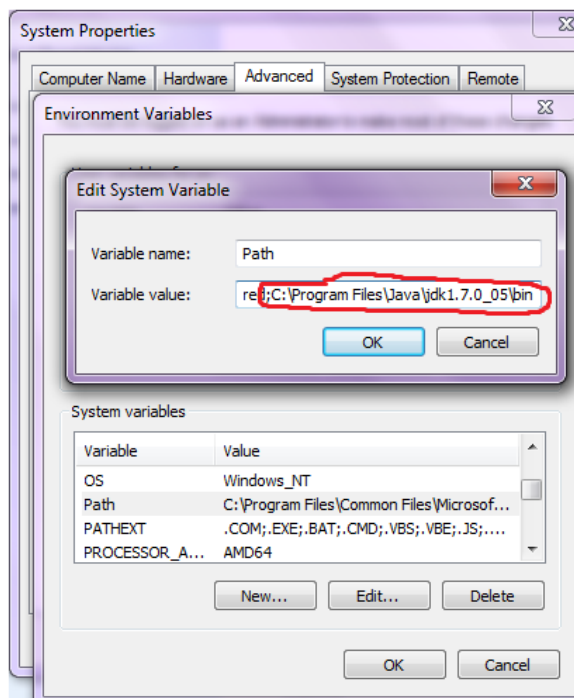
- Now click on Next.

Now click on Next.

- Once done with the Installation of JAVA.
- We need to set the Environment variables in order to use JDK with Eclipse.
- Go to MyComputer from the startup menu→Go to Properties→Go to Advanced System Settings→From the Popup →Go to Environment Variables.
- Click on Add.
- Name the Environment Variable as path.
- Place the value of the JDK installation folder on your machine till the folder's bin directory. For ex: C:\Program Files\Java\jdk1.7.0_05\bin
- Create another environment variable name it as JAVA_HOME and set the values as C:\Program Files\Java\jdk1.7.0_05 i.e. ==excluding the bin directory==.

Once we have created the Environment variables, we are done with the process of JDK installation.
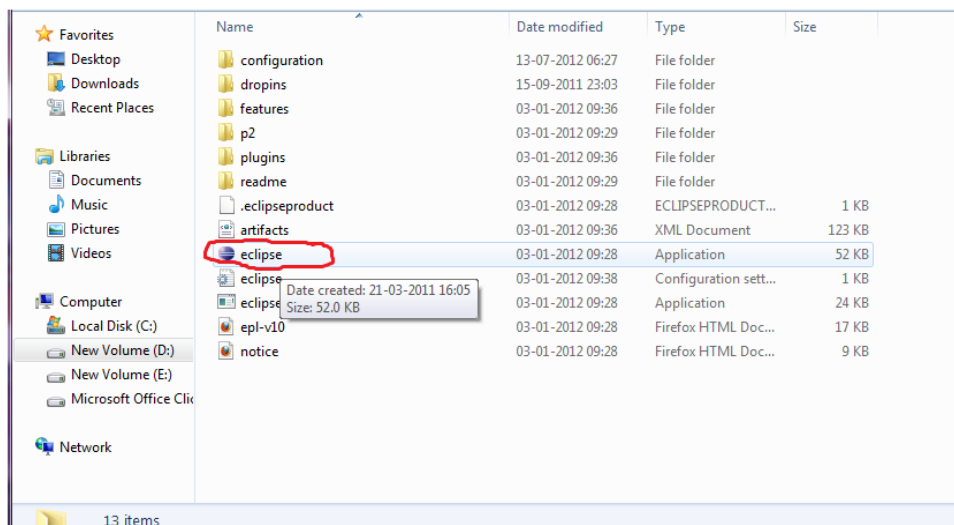
Installing Eclipse IDE:

We recommend using Eclipse IDE for Java Developers (Helios). You can download it here:

- Download "Eclipse IDE for Java Developers (92 MB)" from here http://www.eclipse.org/downloads/
- Just check before downloading whether your OS is 64 bit or 32 bit,
- Depending upon the OS, download the version that meets the machine requirements.
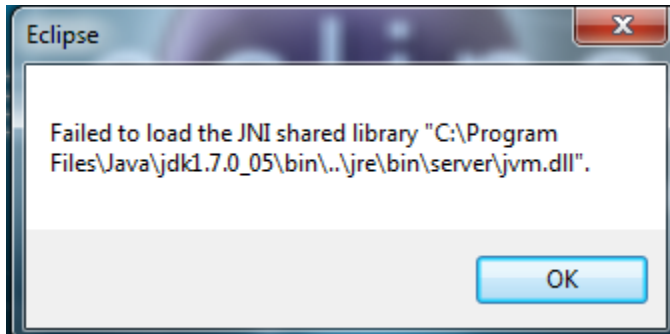

- This is a zip file and does not require installation. Just copy the eclipse folder into your programs directory.

- Unzip this file.

- After unzip what you fill find in the unzipped folder is something like this:

Troubleshooting:

If after the installation of JDK, you find an error like below:

You have made the wrong software installation i.e. the Eclipse IDE and the JDK are incompatible. An Example can be that the JDK was downloaded for 64 bit machine and Eclipse for a 32 bit machine or Vice versa or both could not be downloaded for the targeted machine.

In order to resolve this do an Uninstall of JDK from Add/Remove Programs and download a new Eclipse and JDK for the Target Machine (64 bit or 32 bit) and follow the steps as mentioned from the beginning of the document.