

# Introduction to Java

In order to write Java programs on our computer, we need to prepare the software development environment on our computer. There are two pieces of software and then some configuration:

1. Install Java
2. Configure computer to read Java
3. Install Eclipse IDE

## Step 1: Install Java Developer Kit (JDK)

<http://www.oracle.com/technetwork/java/javase/downloads/index.html>

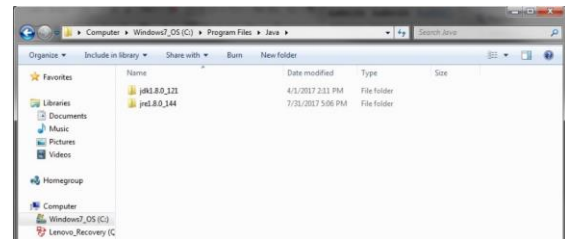
### Step 1.A – Download JDK

- Follow the link to Download the latest edition
- Be sure to select “Accept License Agreement”
- Select your system’s operating system

Java SE Development Kit 8u144			
You must accept the Oracle Binary Code License Agreement for Java SE to download this software. Thank you for accepting the Oracle Binary Code License Agreement for Java SE; you may now download this software.			
Product / File Description	File Size	Download	
Linux ARM 32 Hard Float ABI	77.89 MB	jdk-8u144-linux-arm32-vfp-hflt.tar.gz	
Linux ARM 64 Hard Float ABI	74.83 MB	jdk-8u144-linux-arm64-vfp-hflt.tar.gz	
Linux x86	164.65 MB	jdk-8u144-linux-i586.rpm	
Linux x86	179.44 MB	jdk-8u144-linux-i586.tar.gz	
Linux x64	162.1 MB	jdk-8u144-linux-x64.rpm	
Linux x64	176.92 MB	jdk-8u144-linux-x64.tar.gz	
Mac OS X	226.6 MB	jdk-8u144-macosx-x64.dmg	
Solaris SPARC 64-bit	139.87 MB	jdk-8u144-solaris-sparcv9.tar.Z	
Solaris SPARC 64-bit	99.18 MB	jdk-8u144-solaris-sparcv9.tar.gz	
Solaris x64	140.51 MB	jdk-8u144-solaris-x64.tar.Z	
Solaris x64	96.99 MB	jdk-8u144-solaris-x64.tar.gz	
Windows x86	190.94 MB	jdk-8u144-windows-i586.exe	
Windows x64	197.78 MB	jdk-8u144-windows-x64.exe	

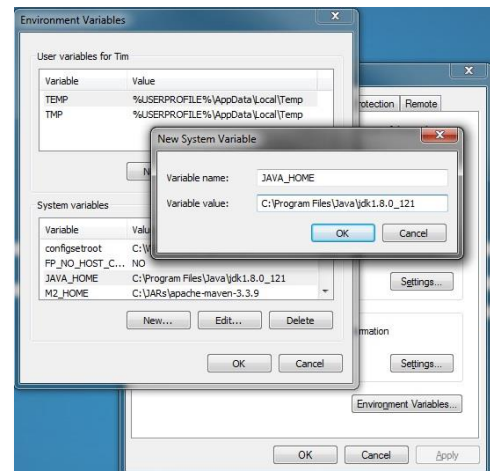
### Step 1.B – Install Java

- Once downloaded, follow the prompts to install JDK.
- Verify that Java is installed by navigating to your Program Files > Java folder in Windows Explorer



### Step 1.C – Configure Environment Variables

- In Control Panel, click Edit System Environment Variables
- Click Environment Variables
- Under System Variables, Click New  
Variable Name: “JAVA\_HOME”  
Variable Value: Use the directory of the Java installation path up to and including the jdk1.x folder
- Modify the PATH variable to include the jdk1.x/bin folder



## **Step 2: Install Eclipse IDE**

<http://www.eclipse.org/downloads/packages/>

You can download the Eclipse installer, which will prompt you to download the various version of Eclipse you want. Or you can download the direct Eclipse version from the above link. For the purposes of this course, select the download for “Eclipse IDE for Java EE Developers.”

Eclipse releases its updated products periodically and is named alphabetically with each new release. Choose the latest release or latest minus one.

Then simply follow the prompts to install.

The default directory will be on your home user path with a new folder “eclipse”