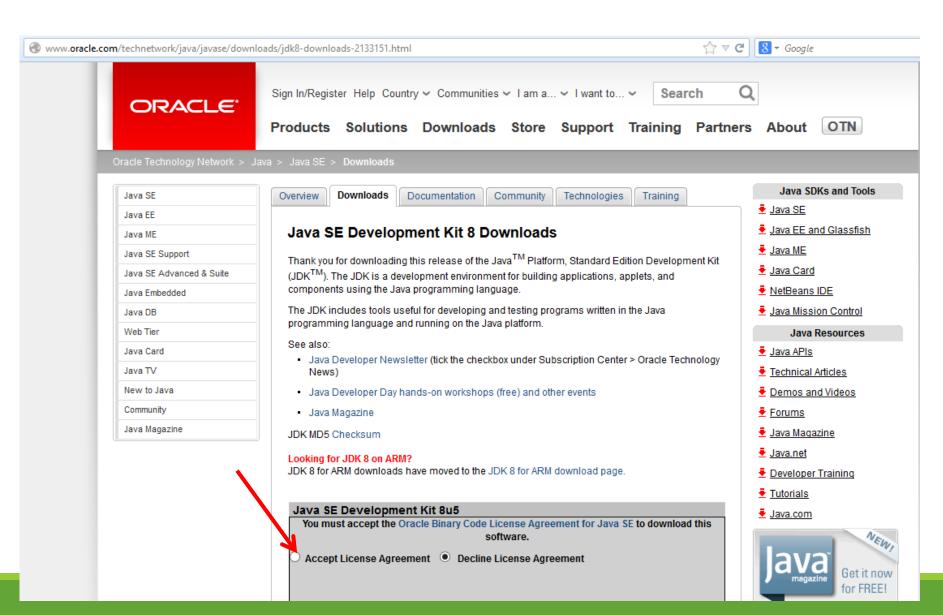
COMP 248 Tutorial 1

• Go to:

http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html

- Select the appropriate version for your platform (On Windows, you will need admin privileges.)
- Be careful not to confuse the JRE with SDK: you need the SDK.
- Install Java by executing the downloaded file.
 This will lead you through the installation process.



Java SE Development Kit 8u5

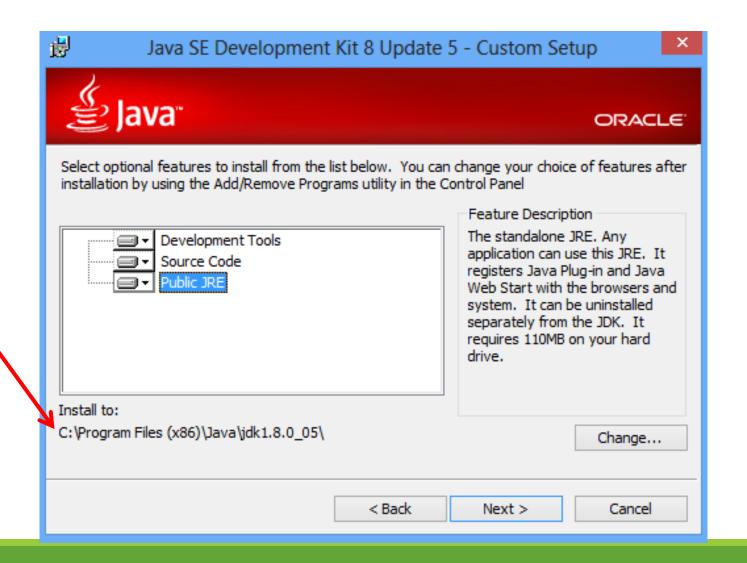
You must accept the Oracle Binary Code License Agreement for Java SE to download this software.

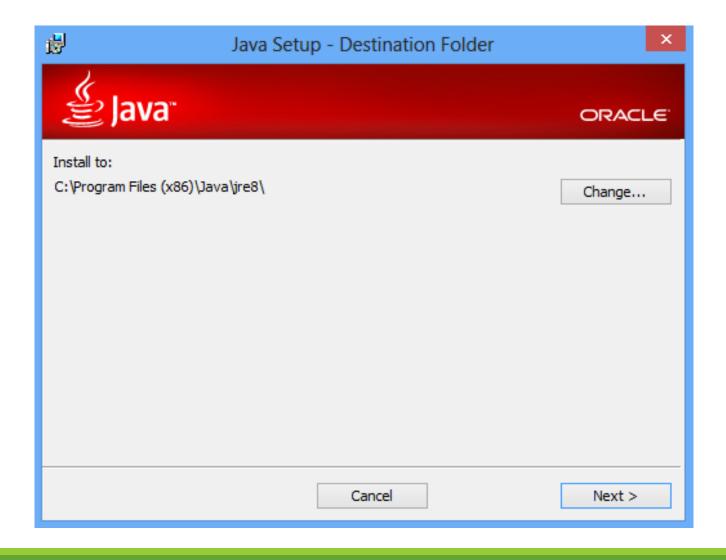
Thank you for accepting the Oracle Binary Code License Agreement for Java SE; you may now download this software.

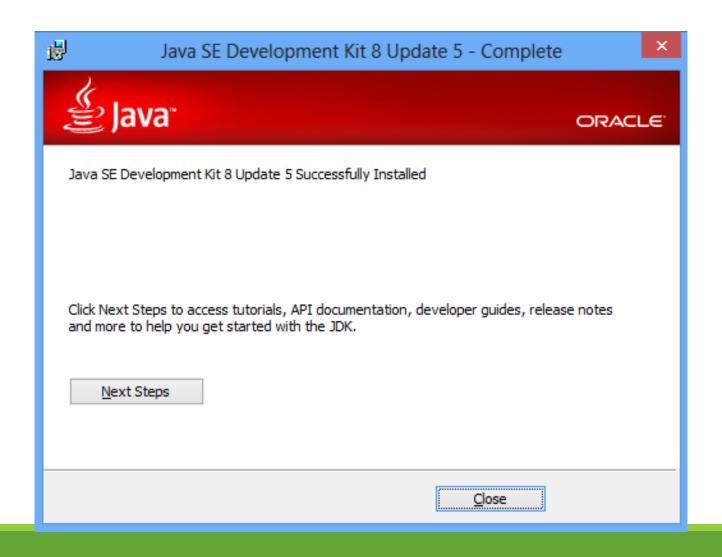
Product / File Description	File Size	Download
Linux x86	133.58 MB	₹ jdk-8u5-linux-i586.rpm
Linux x86	152.5 MB	₹ jdk-8u5-linux-i586.tar.gz
Linux x64	133.87 MB	₹ jdk-8u5-linux-x64.rpm
Linux x64	151.64 MB	₹ jdk-8u5-linux-x64.tar.gz
Mac OS X x64	207.79 MB	₹ jdk-8u5-macosx-x64.dmg
Solaris SPARC 64-bit (SVR4 package)	135.68 MB	₹ jdk-8u5-solaris-sparcv9.tar.Z
Solaris SPARC 64-bit	95.54 MB	₹ jdk-8u5-solaris-sparcv9.tar.gz
Solaris x64 (SVR4 package)	135.9 MB	₹ jdk-8u5-solaris-x64.tar.Z
Solaris x64	93.19 MB	₹ jdk-8u5-solaris-x64.tar.gz
Windows x86	151.71 MB	₹ jdk-8u5-windows-i586.exe
Windows x64	155.18 MB	₹ jdk-8u5-windows-x64.exe













For more details or other OSs, go to:

http://www.java.com/en/download/help/path.xml

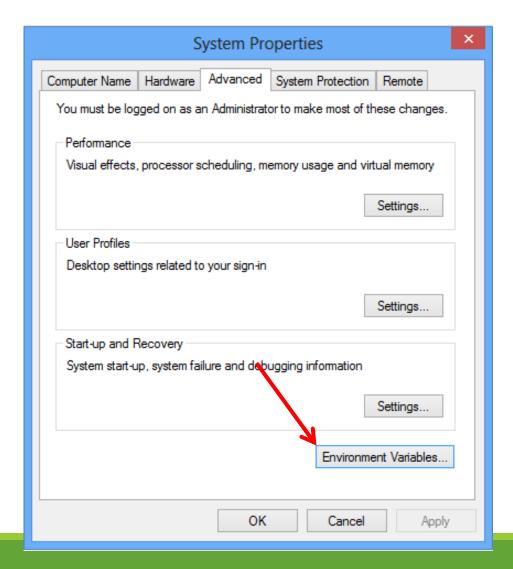
http://docs.oracle.com/javase/tutorial/essential/environment/paths.html

Windows 7 / 8

Go to:
 Computer
 System Properties
 Advanced system settings
 Advanced

Environment Variables

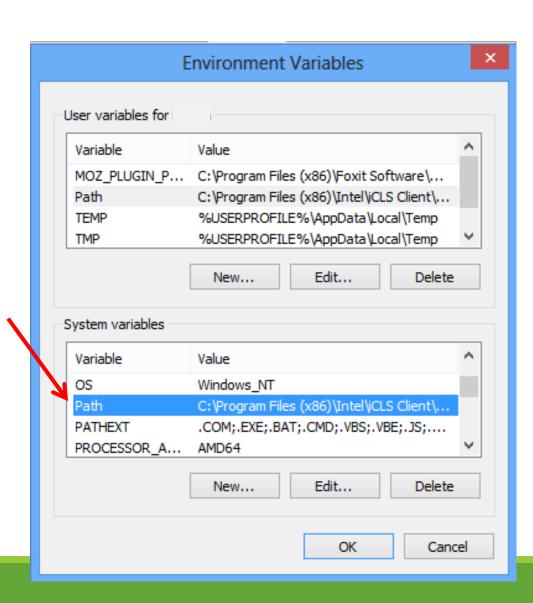




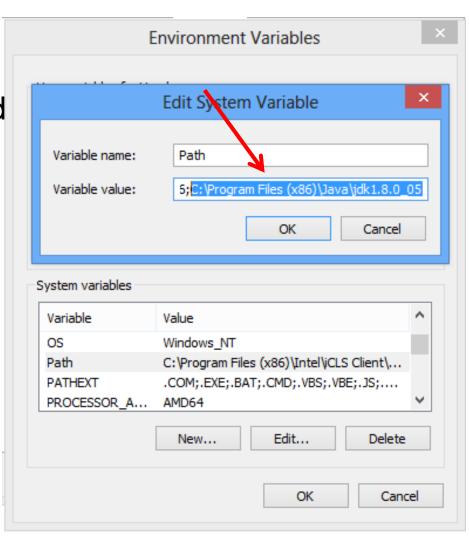
On System Variables,

- Find PATH
- Double-click on it

If you do not have the item PATH, you may select to add a NEW variable and insert PATH as its name.

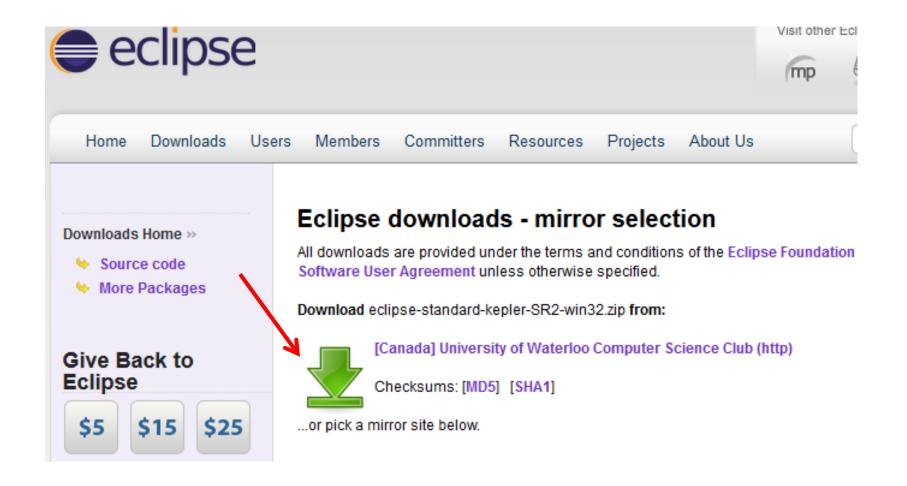


- Add the Java location at the end of the PATH (as defined during installation):
 C:\Program Files (x86)\ Java\jdk1.8.0_05\
- Also add this same location for the PATH on User Variables (just above System Variables)



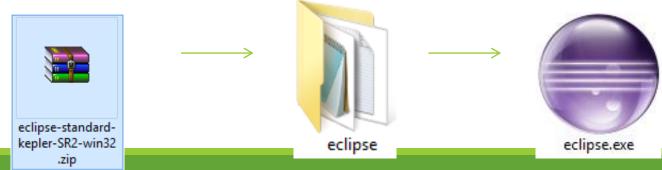
- Available at https://www.eclipse.org/downloads/
- You may download it from a suggested mirror, or select any other mirror site.
- There are several versions of Eclipse, and it is important you install the correct one.
- For now, select the Standard version.





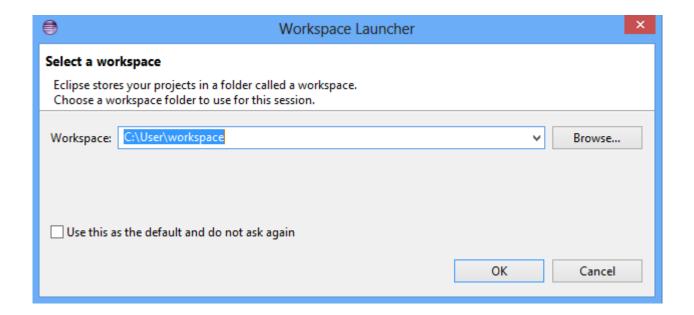
Installing Eclipse:

- Eclipse does not have an installation procedure.
- Simply extract the zip file in a directory where your programs are stored, e.g. C:\Program Files.
- This creates a directory named eclipse.
- The executable "eclipse.exe" file is in this directory
- It may be helpful to create a shortcut to this executable on your desktop

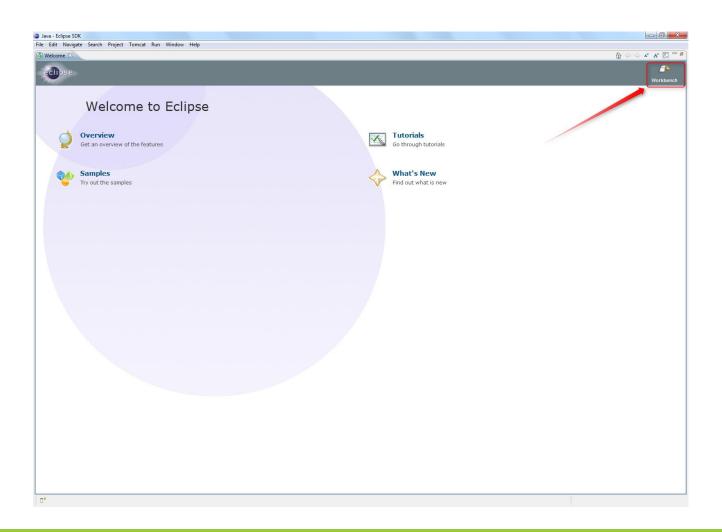


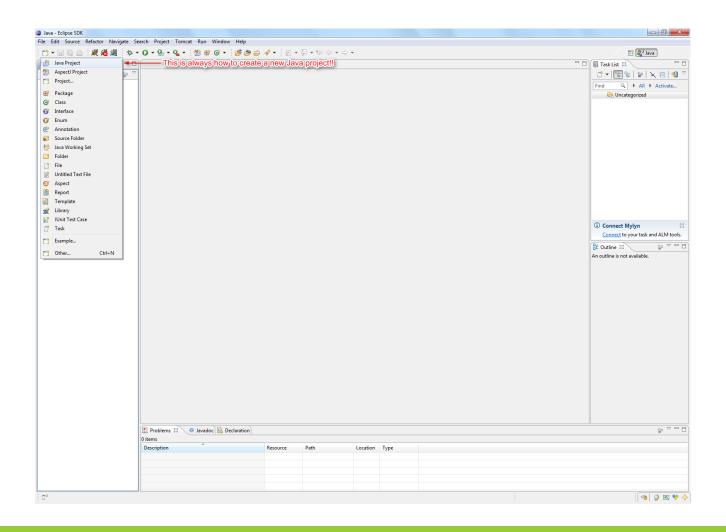
Initializing Eclipse:

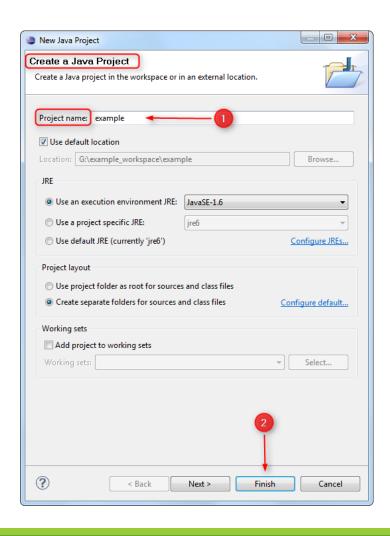
- Eclipse stores all its files in a directory called "workspace".
- When running for the first time, Eclipse asks for a workspace location.
- You can use the default location (which will be in the directory where eclipse was installed).
- It can be convenient to place your workspace somewhere in "My Documents" directory, e.g. "My Documents\Workspace".
- After defining the workspace location, you should see the Eclipse Welcome page.

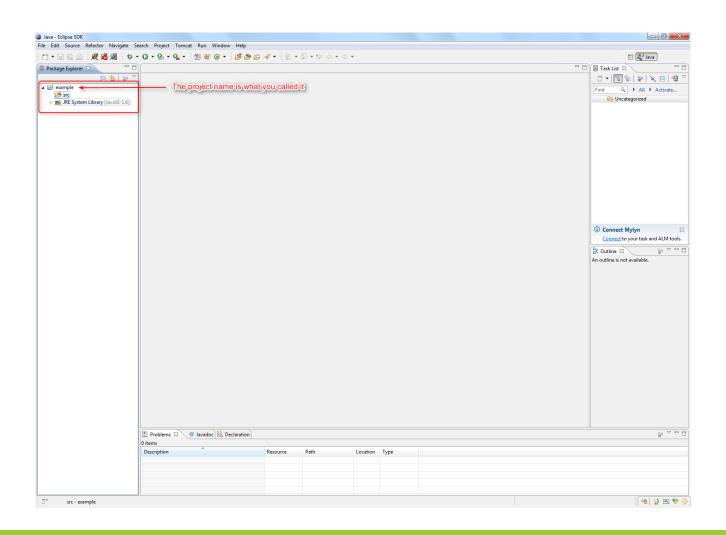


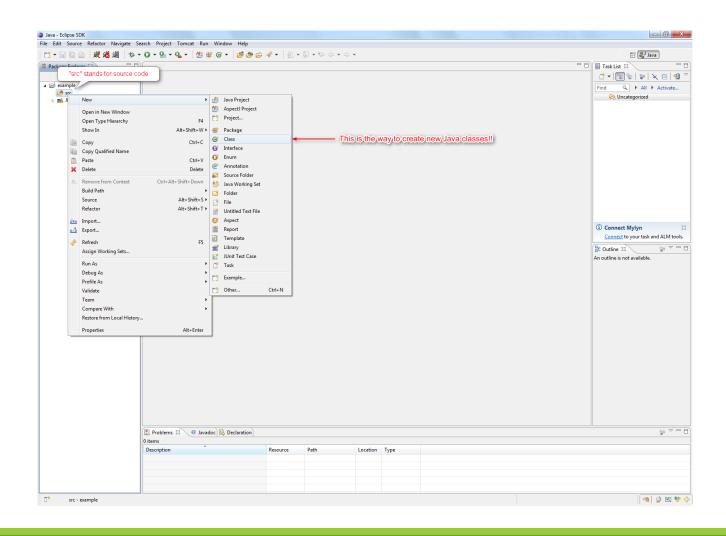
Make sure you remember the location of your workspace

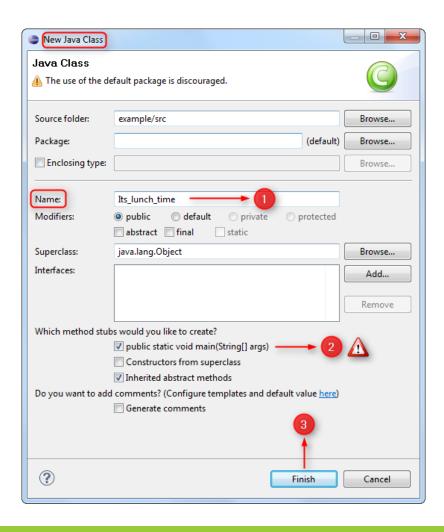


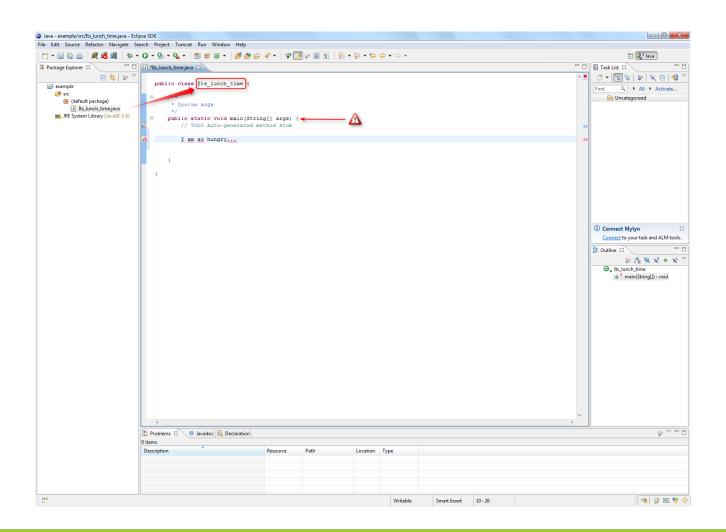












Example of Java program

Hello World Application

Note: the java file must be named as HelloWorld.java

```
public class HelloWorld
{
    public static void main(String[] args)
    {
        System.out.println("Hello dear World! It's me again!");
     }
}
```

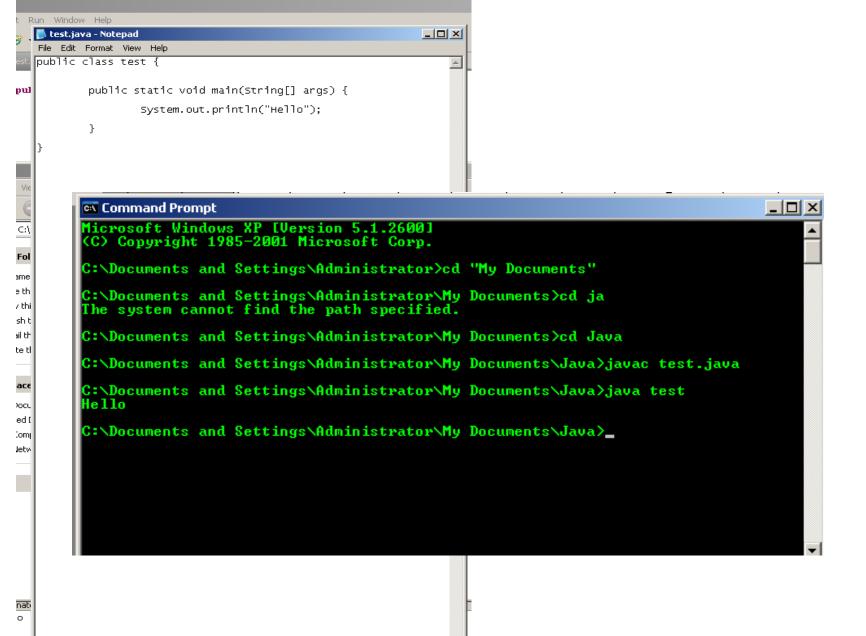
Compiling & Running a Java program

 There are 2 ways to compile and run a Java program

- Using command line
- Through a Development Editor like Eclipse

Using the Command Line

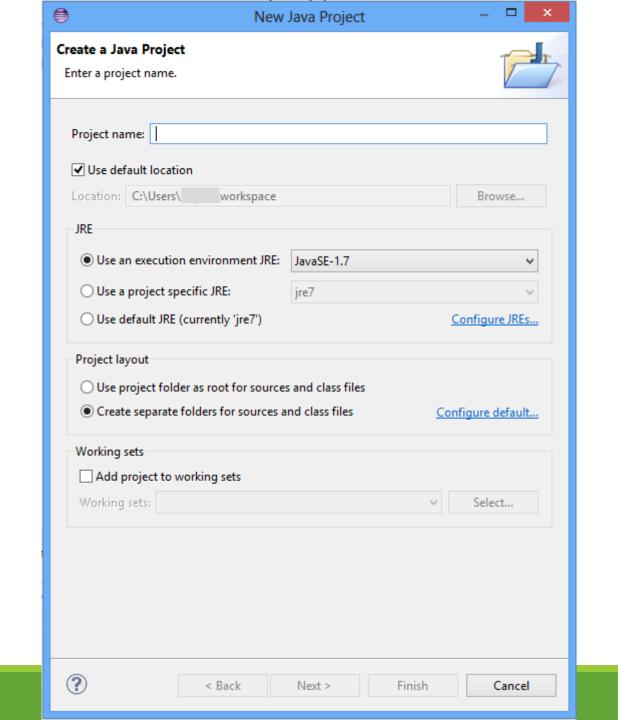
- Write a Java program using any editor (ex: Notepad) and save it as (*.java) file with the same name as the class.
- Go to the directory where you created your program using DOS command
- To compile on a DOS command line: javac filename.java
- To run on a DOS command line: java filename



Ln 1, Col 1

Using Eclipse

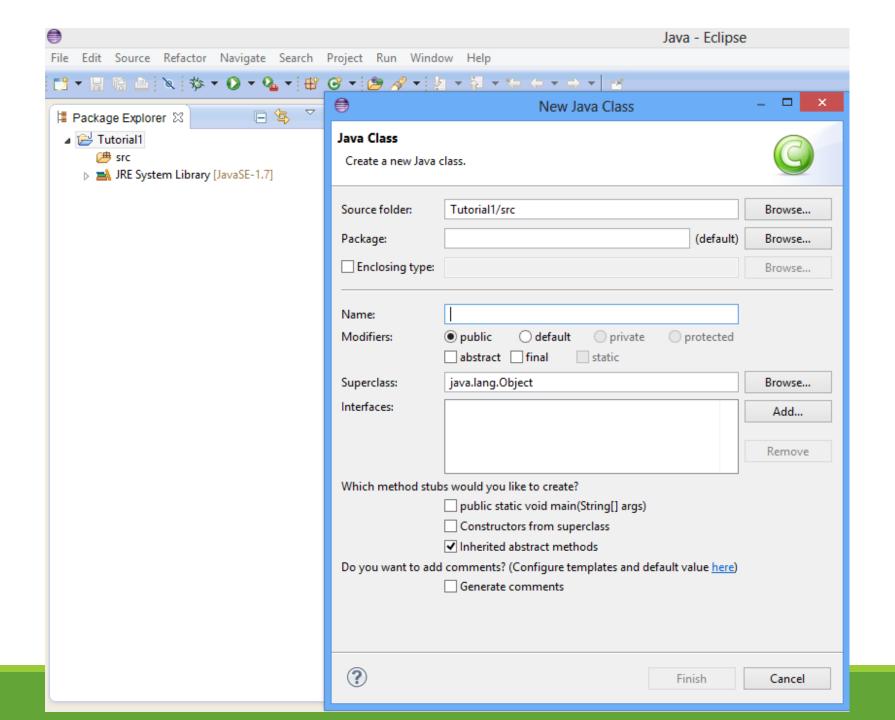
- Run Eclipse
- Specify the location of your workspace
- Click on File → New → Project → Java
 Project → Write the project name → then finish
- See the snapshot



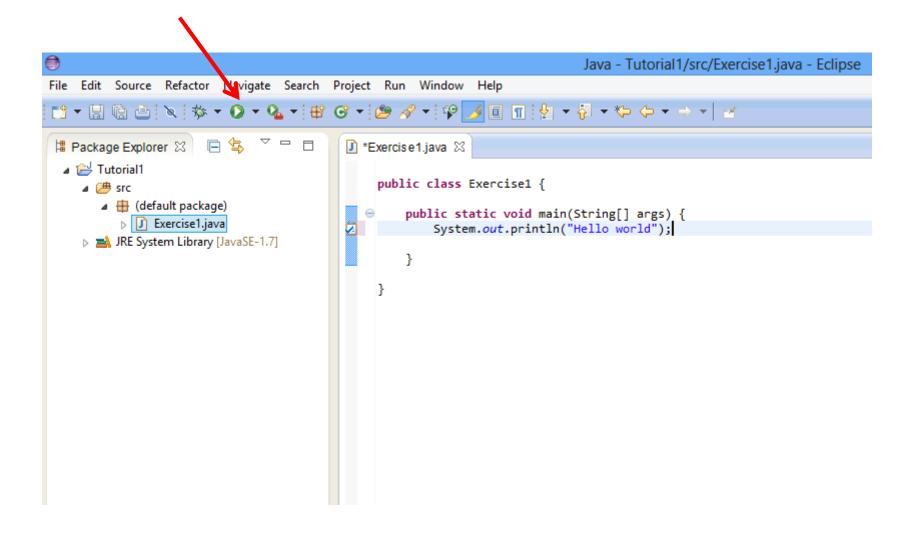
Create a Class

Right Click on the project → New → Class
 → Specify the name of the class → Check
 the option (public static void main(...) if the
 class is the main class of the project

- See the snapshot
- Write your program into the editor and then compile and run it from the menu bar



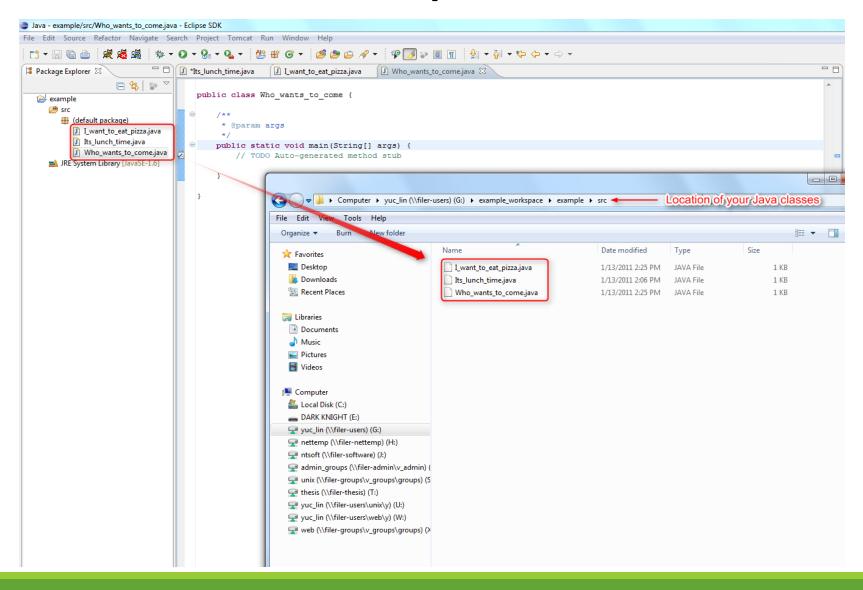
Press here to Run



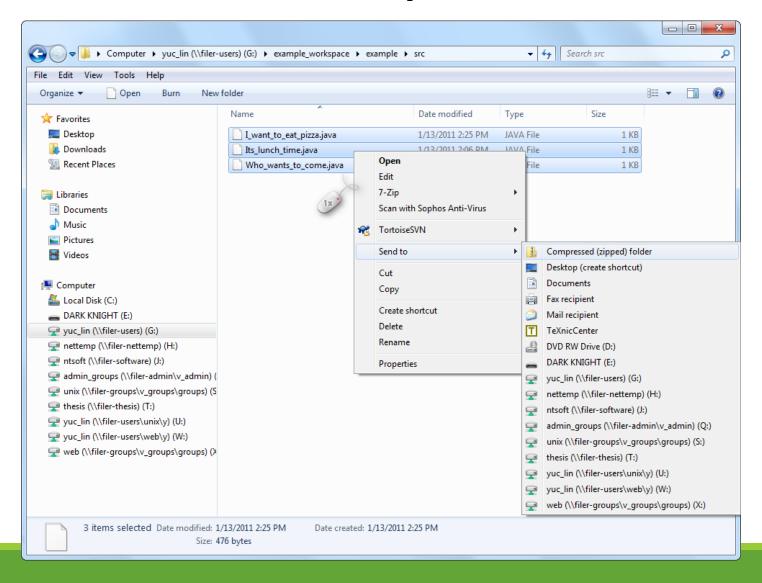
Submission of Assignments and Lab Exercises

- Go to the EAS system website @ https://fis.encs.concordia.ca/eas/
- Login with your ENCS username and password
- Click on the "Student" category
- You would expect to see a list of courses you are currently taking
- Scroll down and you will see "Expectations of originality," select "I agree" and continue
- For "Current term course sections," choose COMP248 for this course
- Browse your compressed file (containing your Java files)
- To submit an assignment: select the "submission type" as "programming_assignment"
- To submit a lab exercises: select the "submission type" as "quiz"

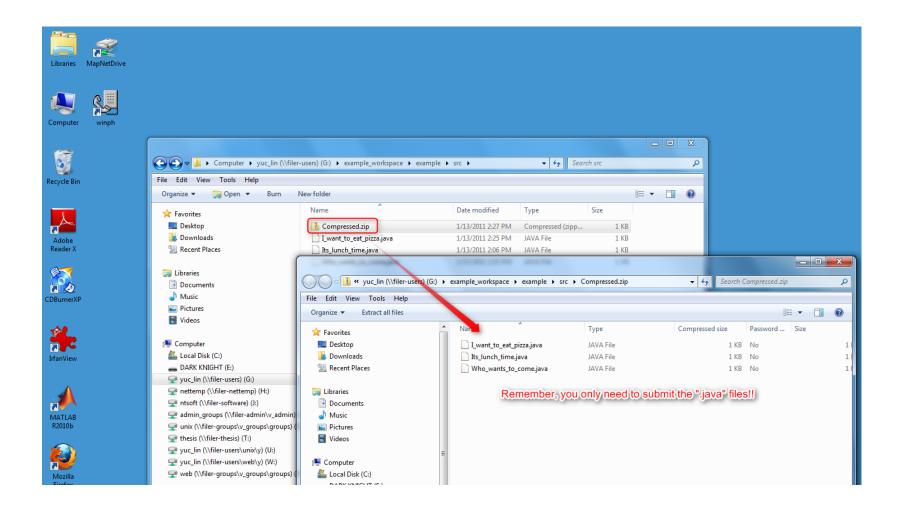
How to compress files



How to compress files



How to compress files



Assignment submission

- Caution --- For "submission number,"
 please be sure to select accordingly
 - assignment #1 please select "1"
 - assignment #2 please select "2"
 - assignment #3 please select "3"
 - etc.