COP 3330: Object-Oriented Programming Summer 2011

The Java Environment

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http://www.cs.ucf.edu/courses/cop3330/sum2011

Department of Electrical Engineering and Computer Science
Computer Science Division
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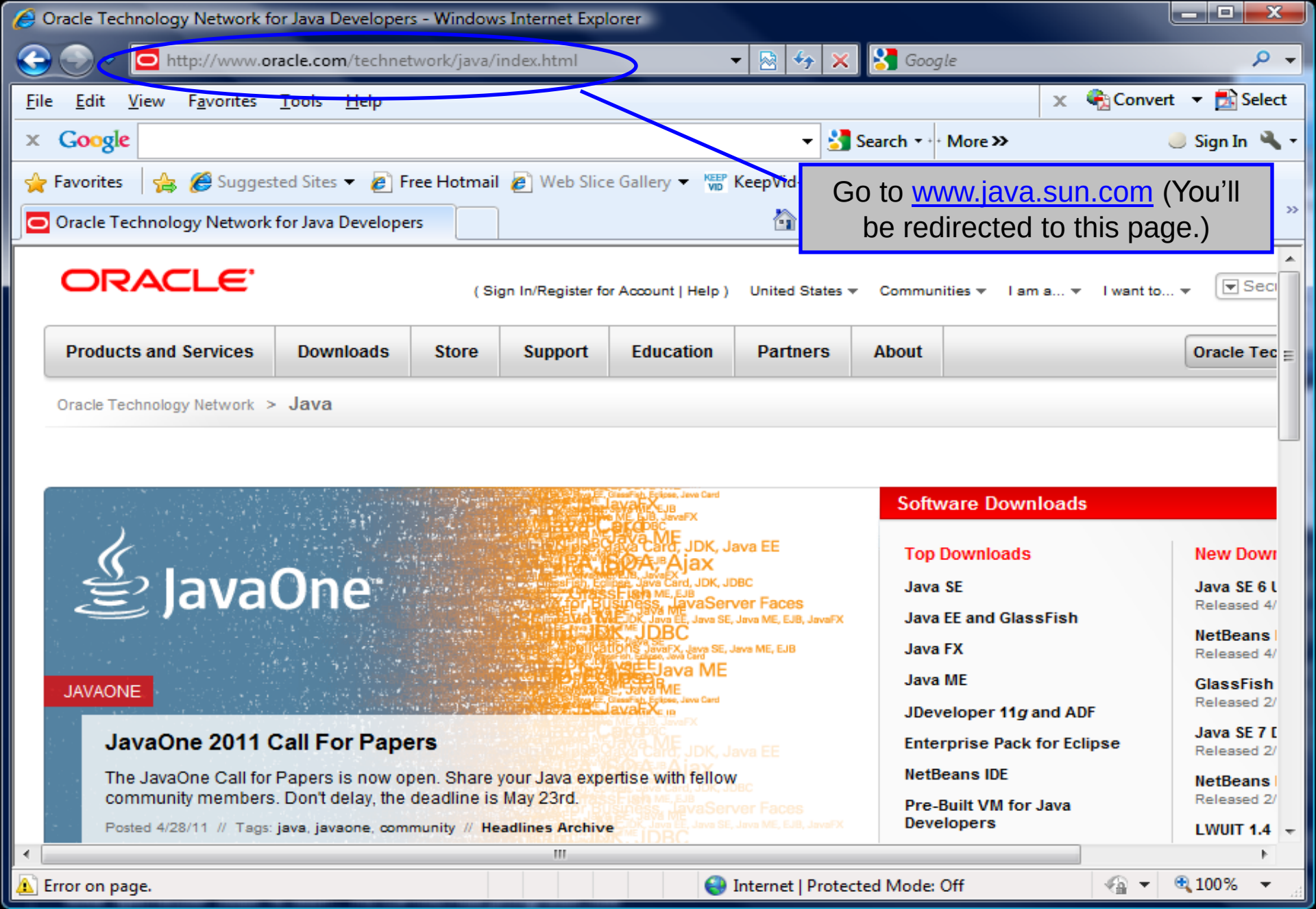
The Java Environment

- For the moment we'll leave OO design issues behind and consider the more practical side of OO programming, the Java environment.
- To be able to write programs in Java, you will need the Java environment. There are several options available depending on what you are doing with Java. For our purposes (and most general use purposes), we'll need the Java Development Kit (JDK). This is available from http://java.sun.com. The instructions beginning on page 3 show you the basic steps to go through to install the JDK on your machine.
- Once you have the JDK installed, you'll need a development environment. You have many different options here ranging from a simple text editor like NotePad++ to full-scale IDEs like Microsoft Visual Studio and NetBeans. For our purposes, an IDE somewhere in the middle will be fine. I've included notes for basic install and set-up for Eclipse beginning on page 8 and JGrasp beginning on page 27. Eclipse can be downloaded from http://www.eclipse.org, while JGrasp can be downloaded from http://jgrasp.org.
- I've also included notes starting on page 38 that illustrates how to run Java from the command line.

Getting Java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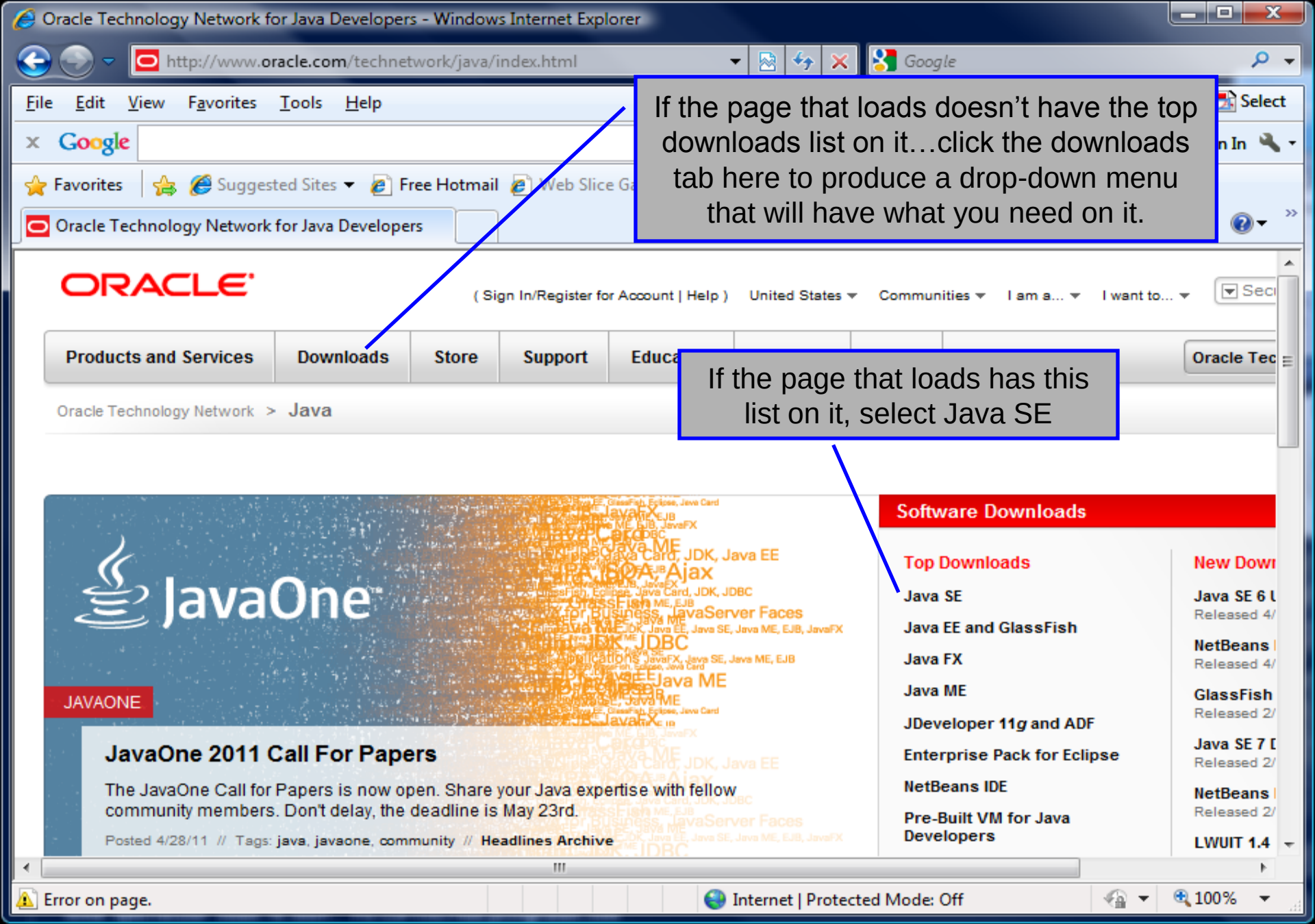
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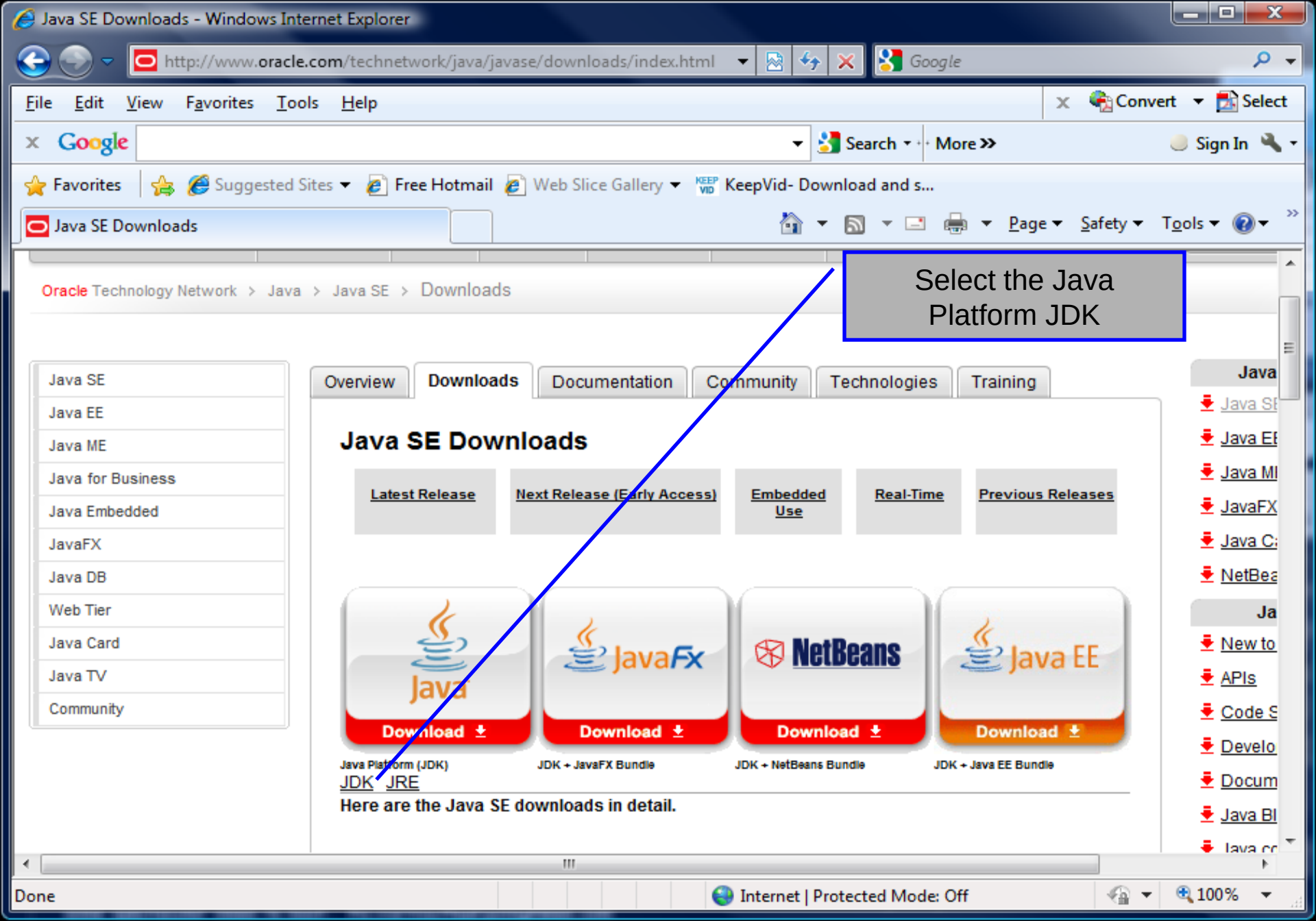
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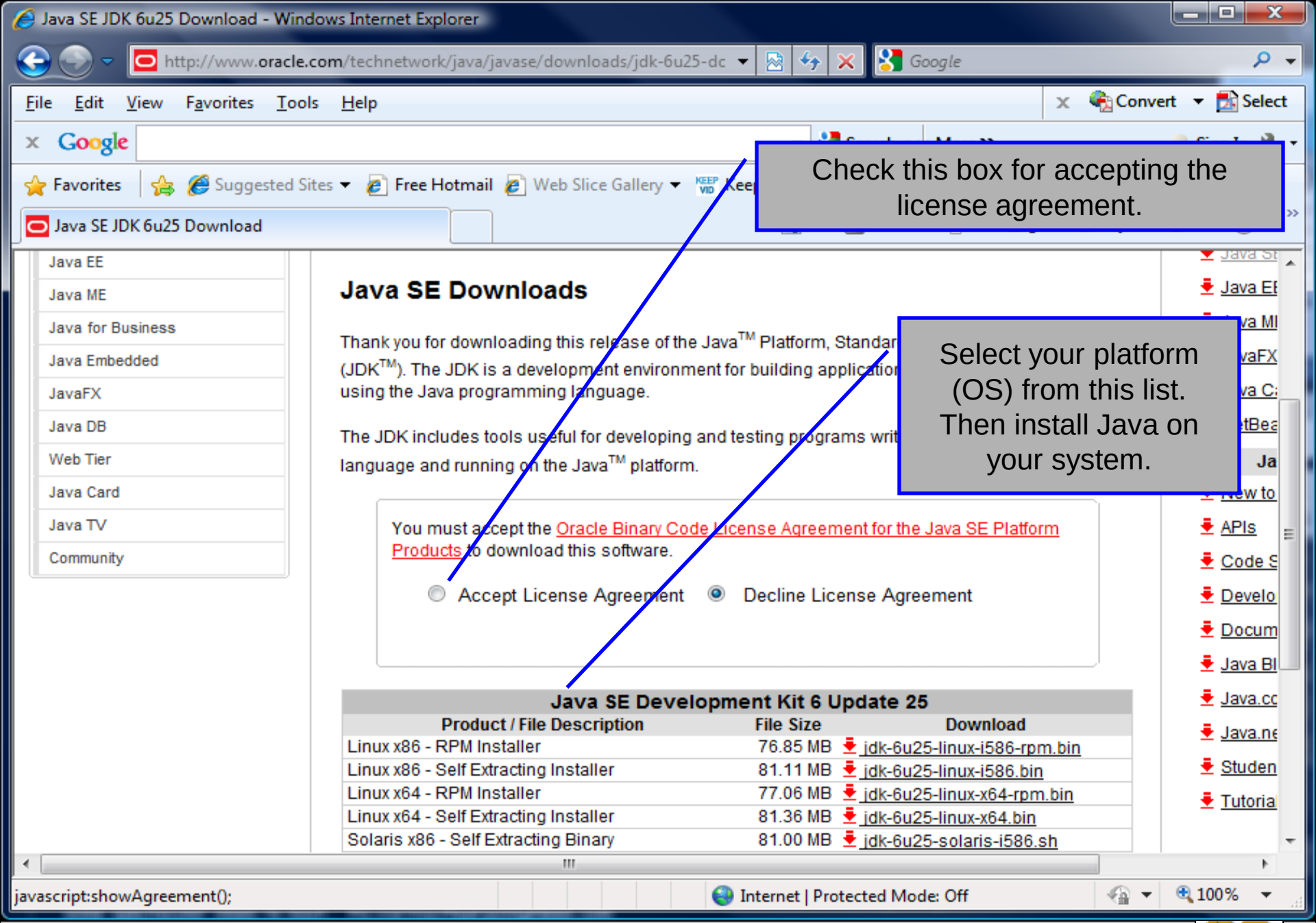
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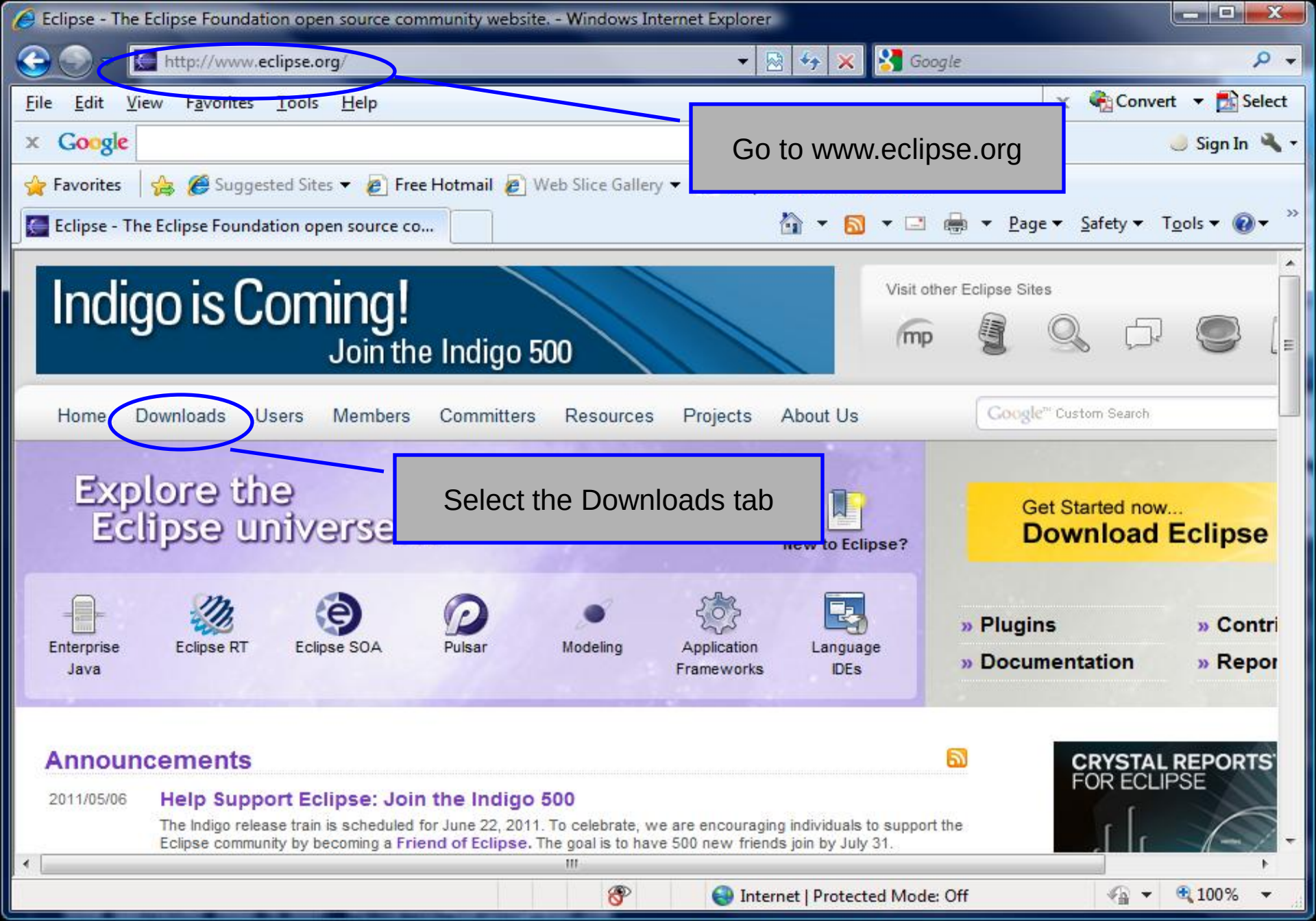
Getting Eclipse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The Indigo release train is scheduled for June 22, 2011. To celebrate, we are encouraging individuals to support the Eclipse community by becoming a Friend of Eclipse. The goal is to have 500 new friends join by July 31.
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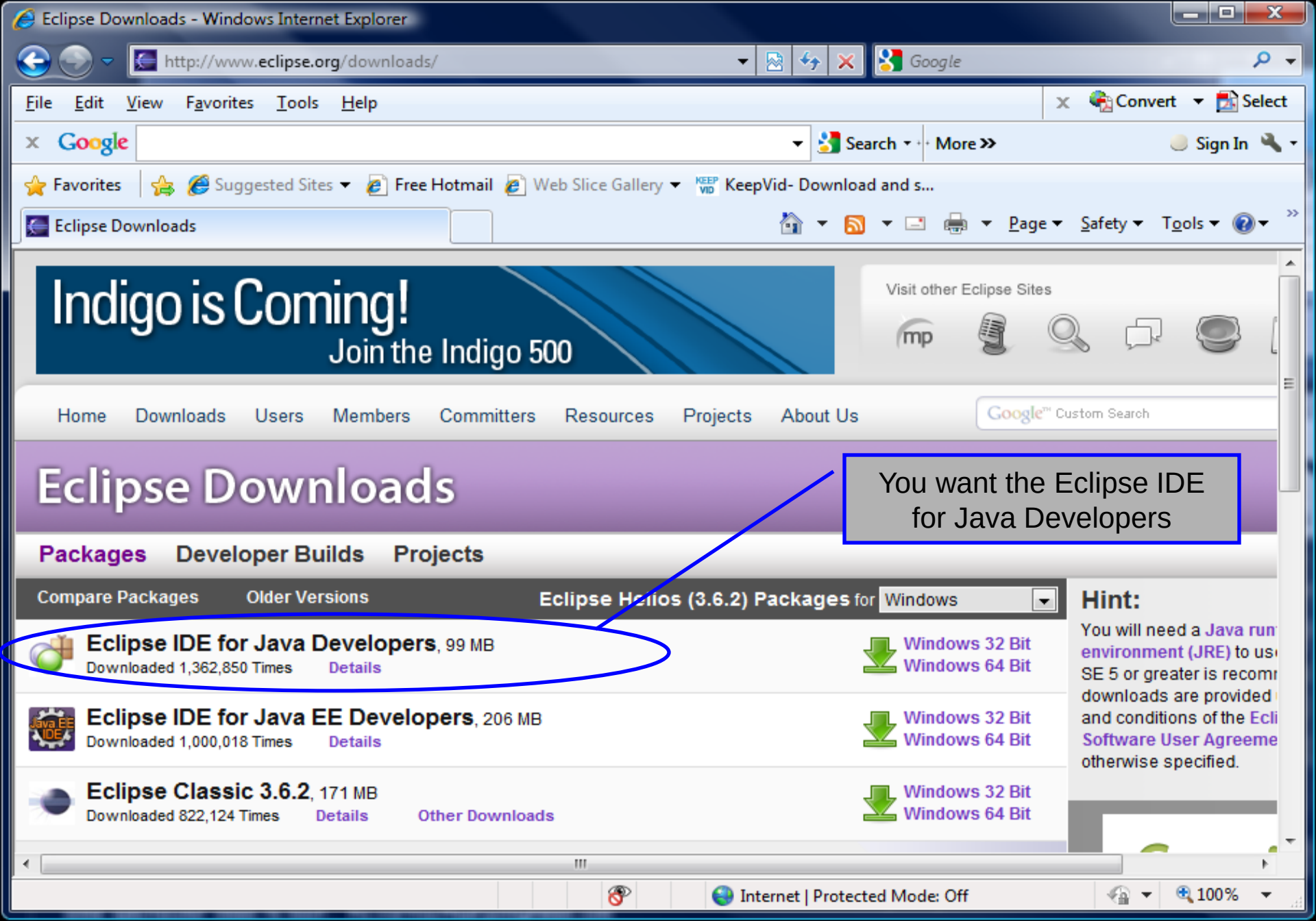
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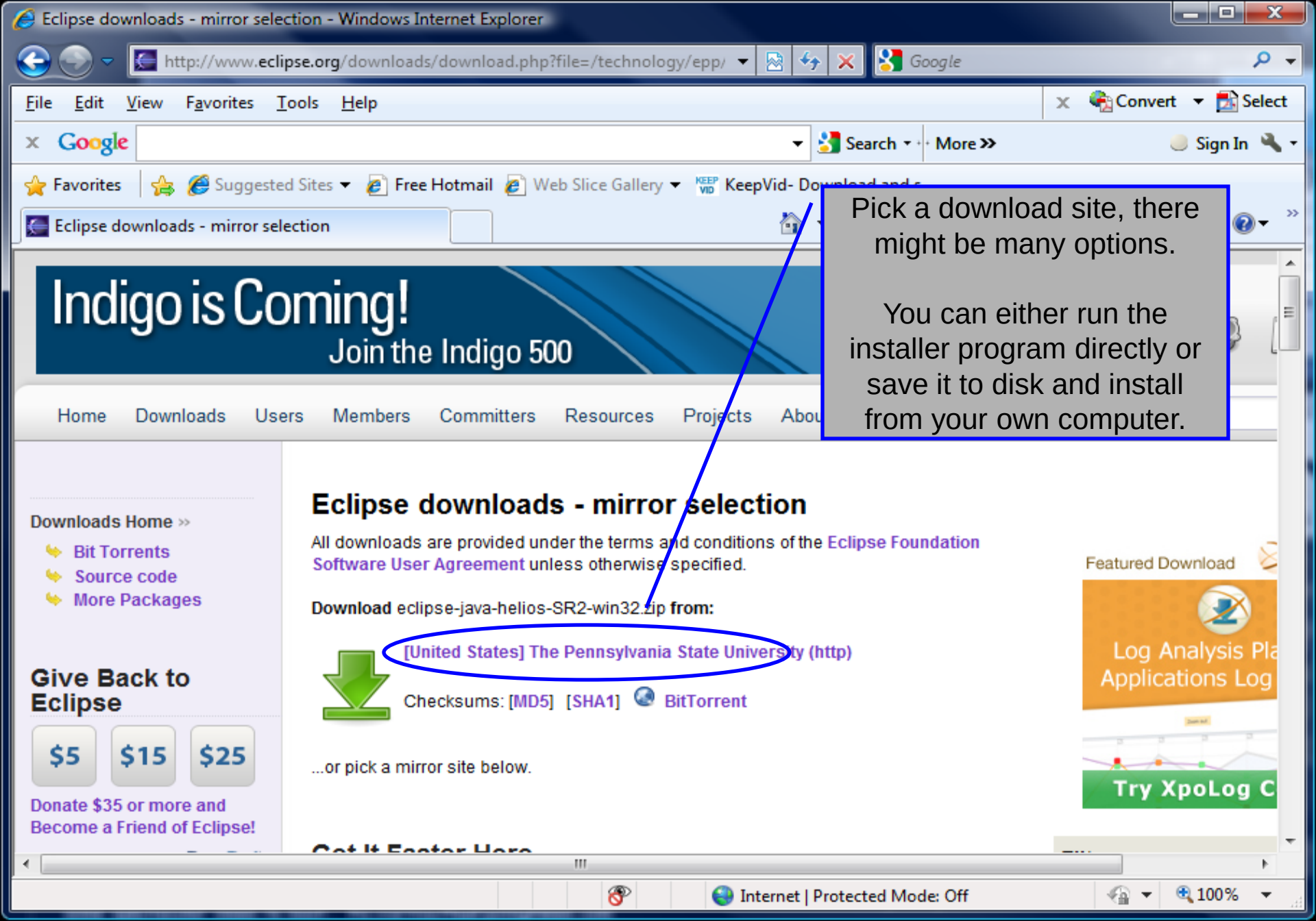
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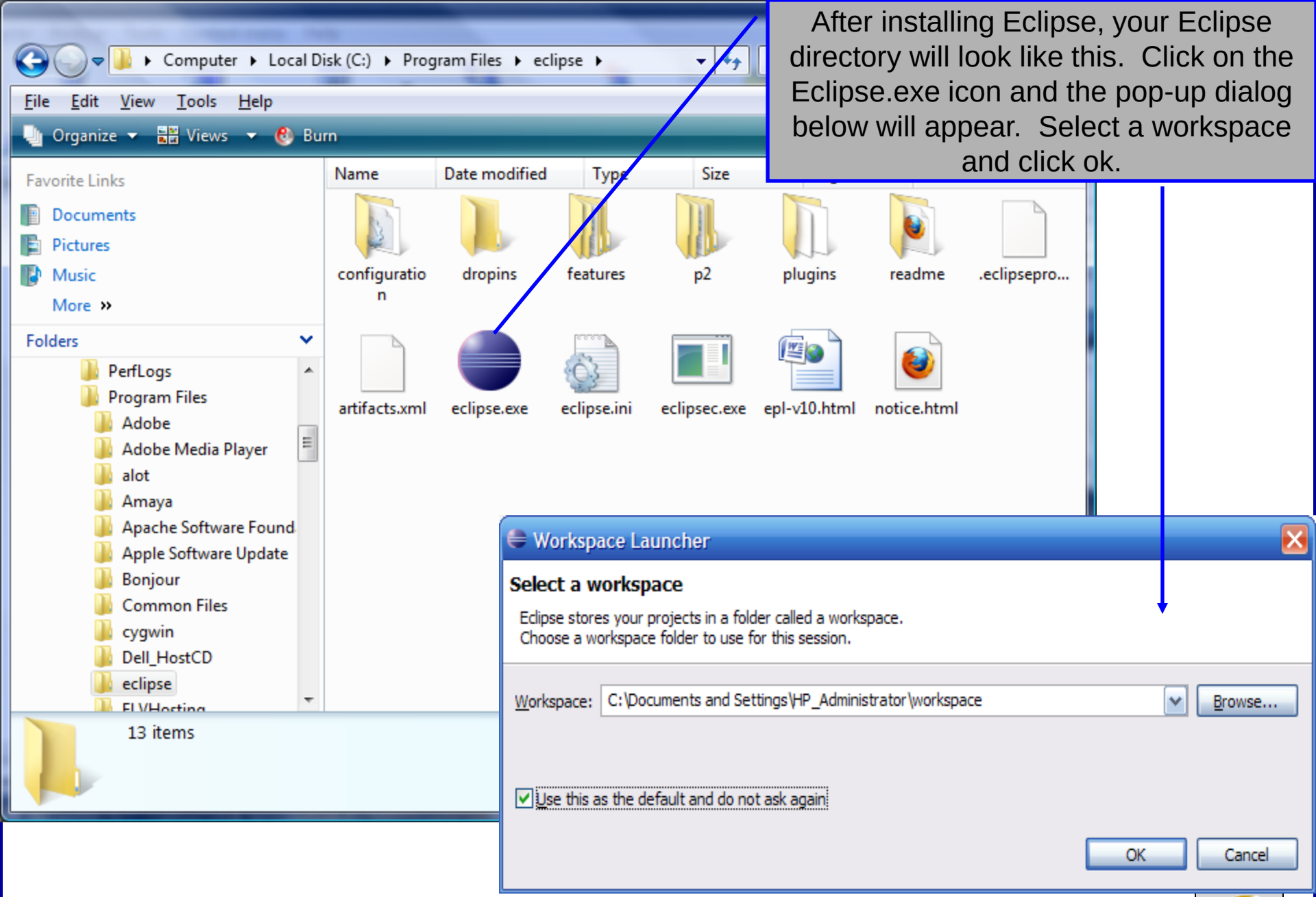
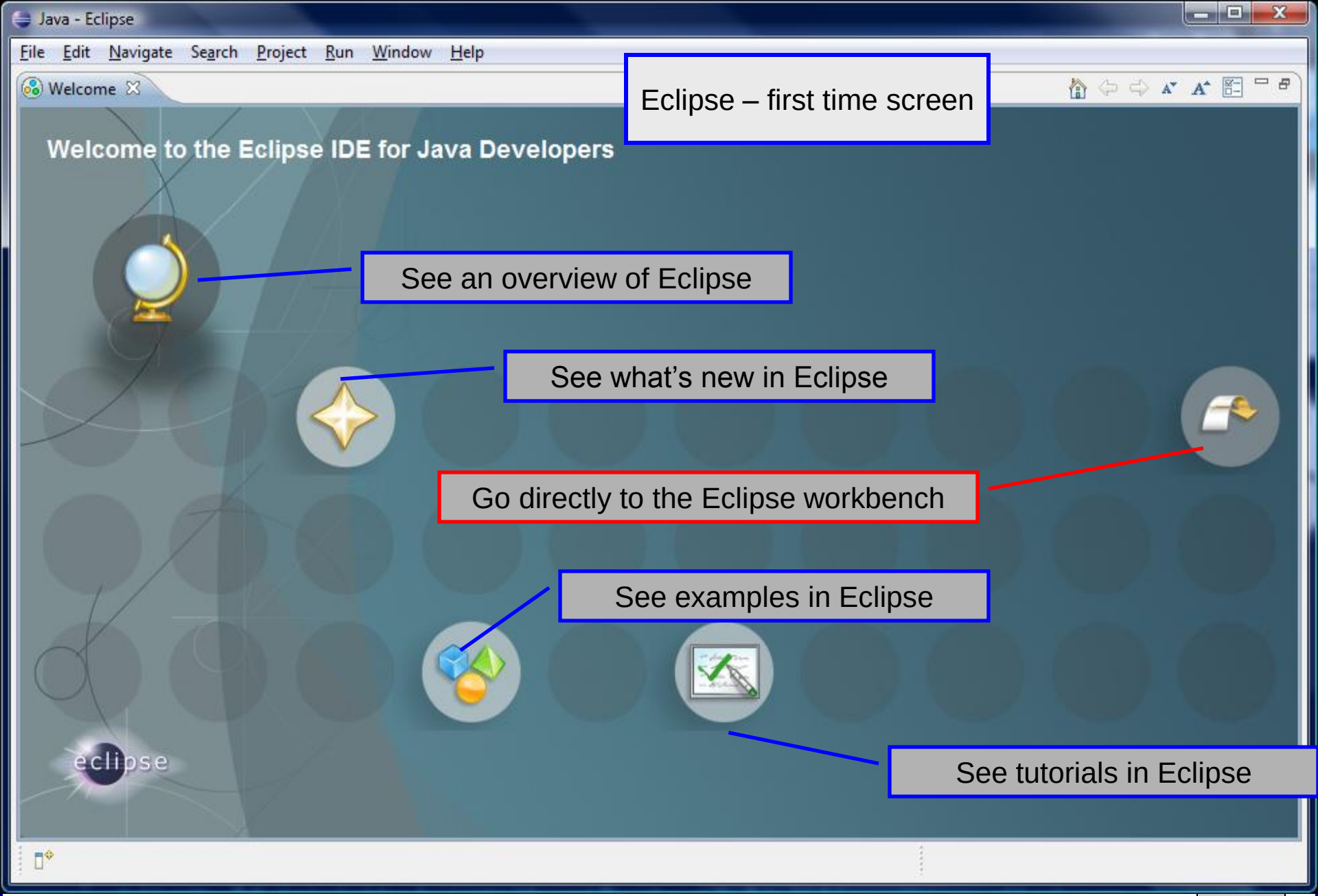
After installing Eclipse, your Eclipse directory will look like this. Click on the Eclipse.exe icon and the pop-up dialog below will appear. Select a workspace and click ok.

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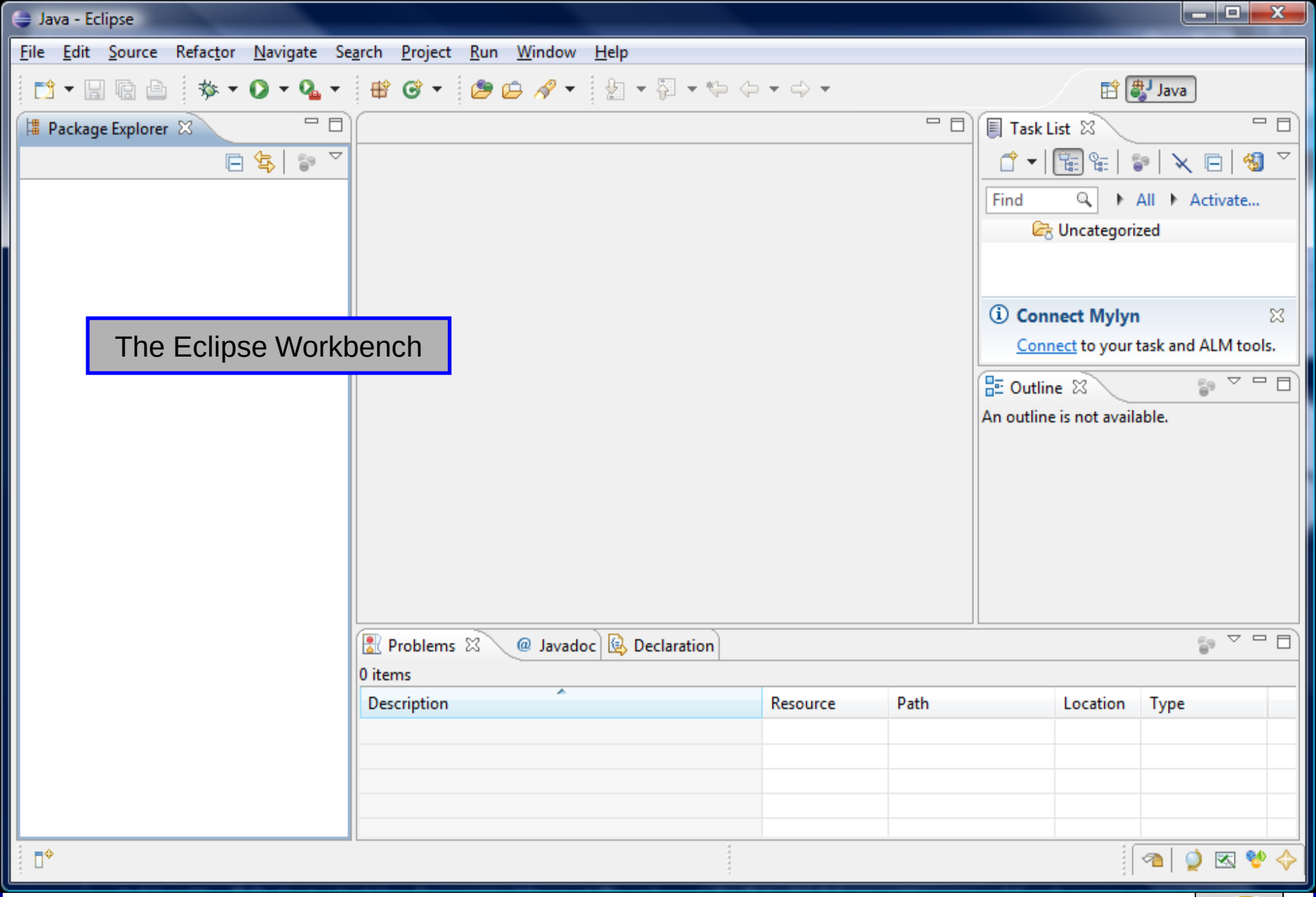
Eclipse – first time screen
Welcome to the Eclipse IDE for Java Developers
See an overview of Eclipse
See what's new in Eclipse
Go directly to the Eclipse workbench
See examples in Eclipse
See tutorials in Eclipse
eclipse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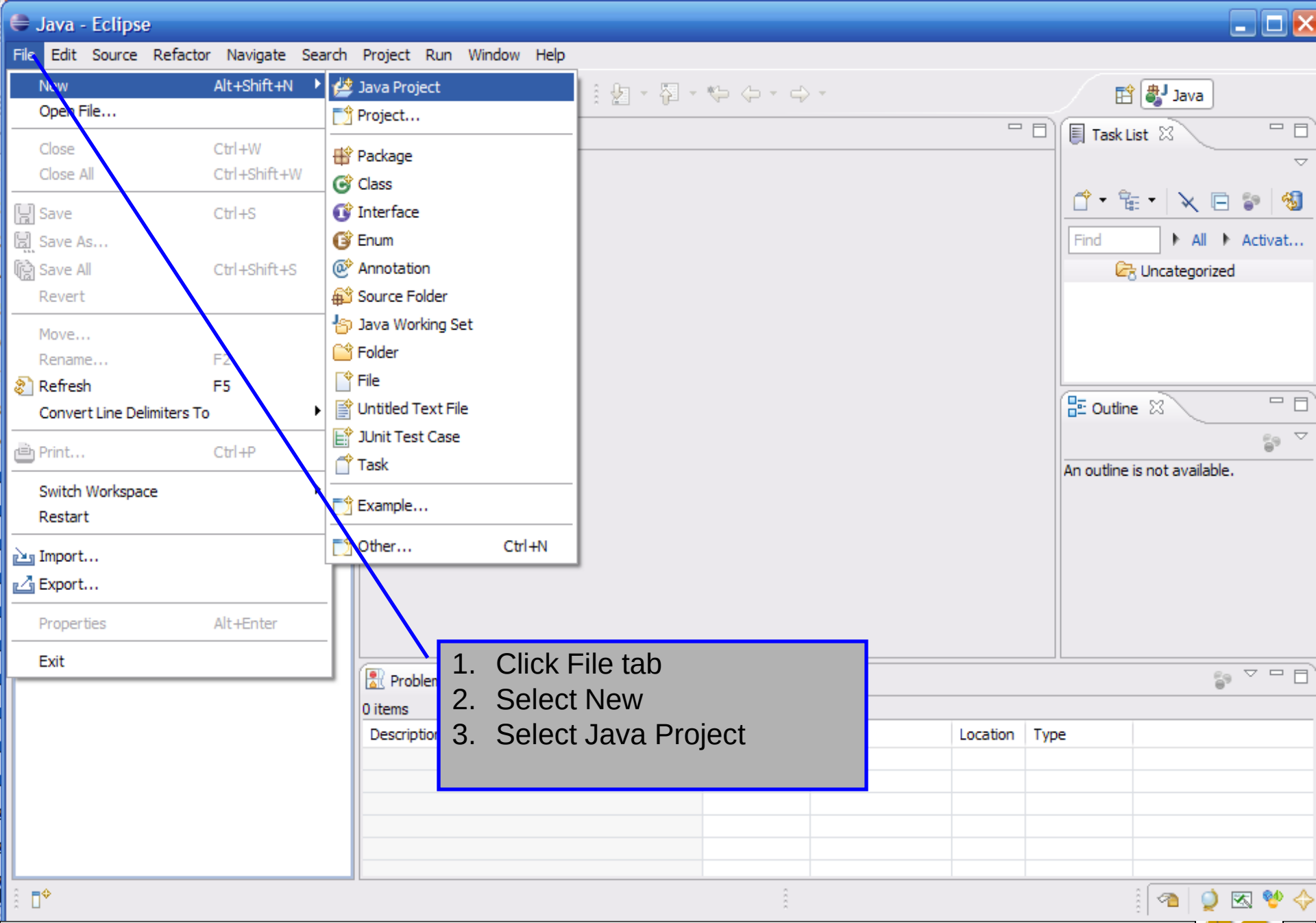
Description Resource Path Location Type
The Eclipse Workbench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Save Ctrl+S
Save As...
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Move...
Rename... F2
Refresh F5
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Print... Ctrl+P
Switch Workspace
Restart
Import...
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Exit
Java Project
Project...
Package
Class
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Source Folder
Java Working Set
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Task
Example...
Other... Ctrl+N
Java
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Description
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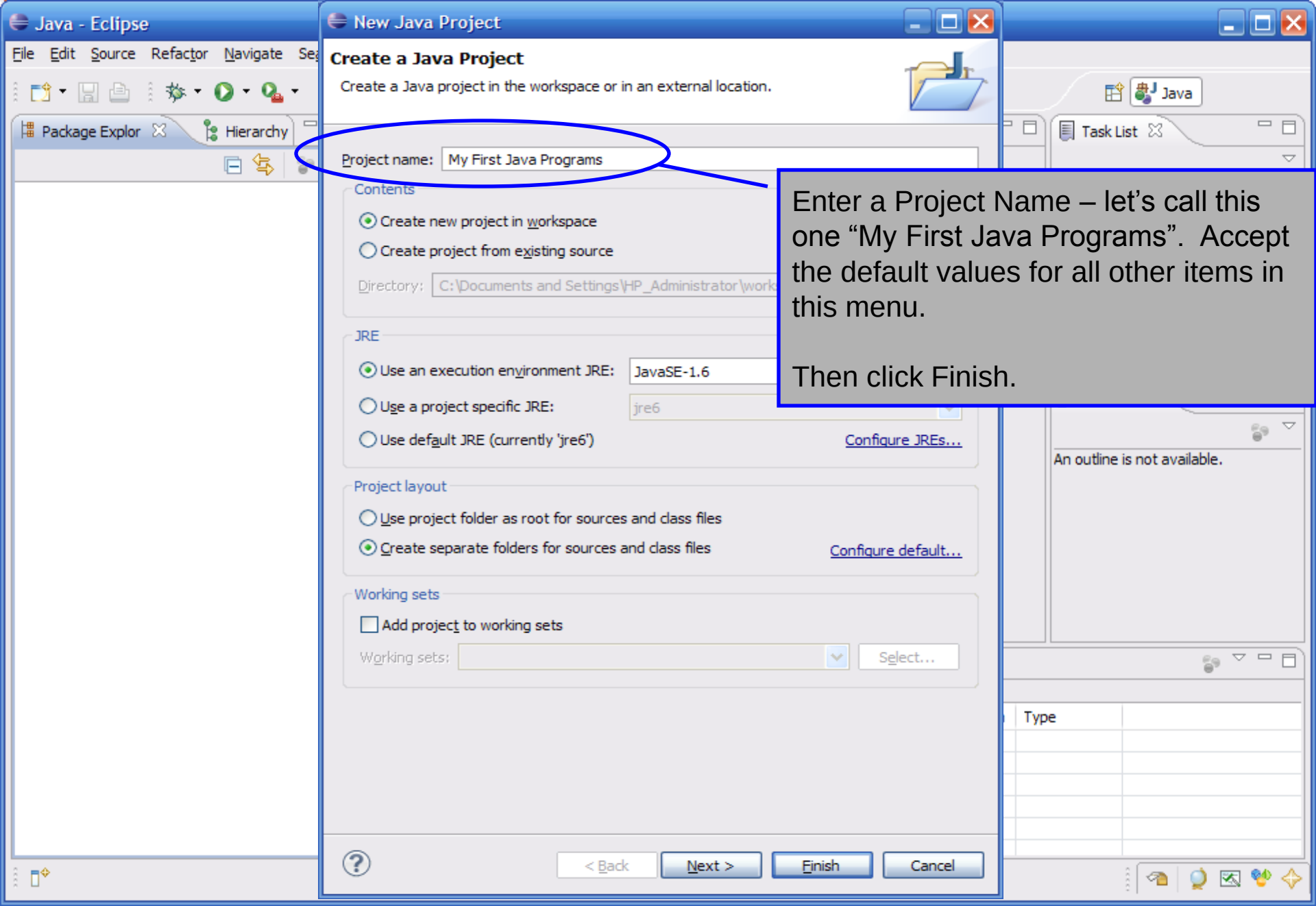
Type
1. Click File tab
2. Select New
3. Select Java Project


Java - Eclipse
File Edit Source Refactor Navigate
Package Explor
Hierarchy
New Java Project
Create a Java Project
Create a Java project in the workspace or in an external location.
Project name: My First Java Programs
Contents
Create new project in workspace
Create project from existing source
Directory: C:\Documents and Settings\HP_Administrator\work
JRE
Use an execution environment JRE: JavaSE-1.6
Use a project specific JRE: jre6
Use default JRE (currently 'jre6')
Configure JREs...
Project layout
Use project folder as root for sources and class files
Create separate folders for sources and class files
Configure default...
Working sets
Add project to working sets
Working sets:
Select...
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Next >
Finish
Cancel
Java
Task List
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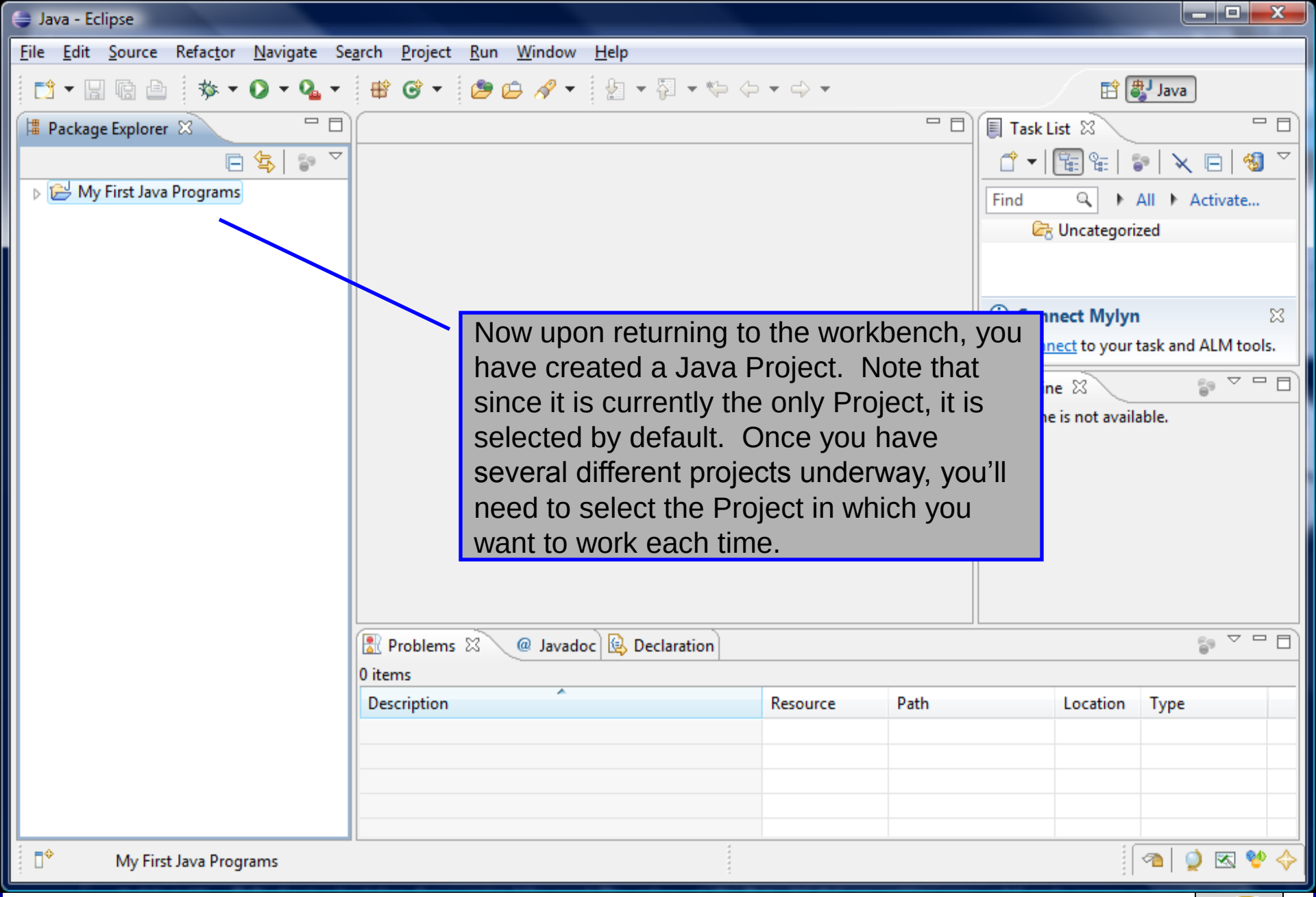
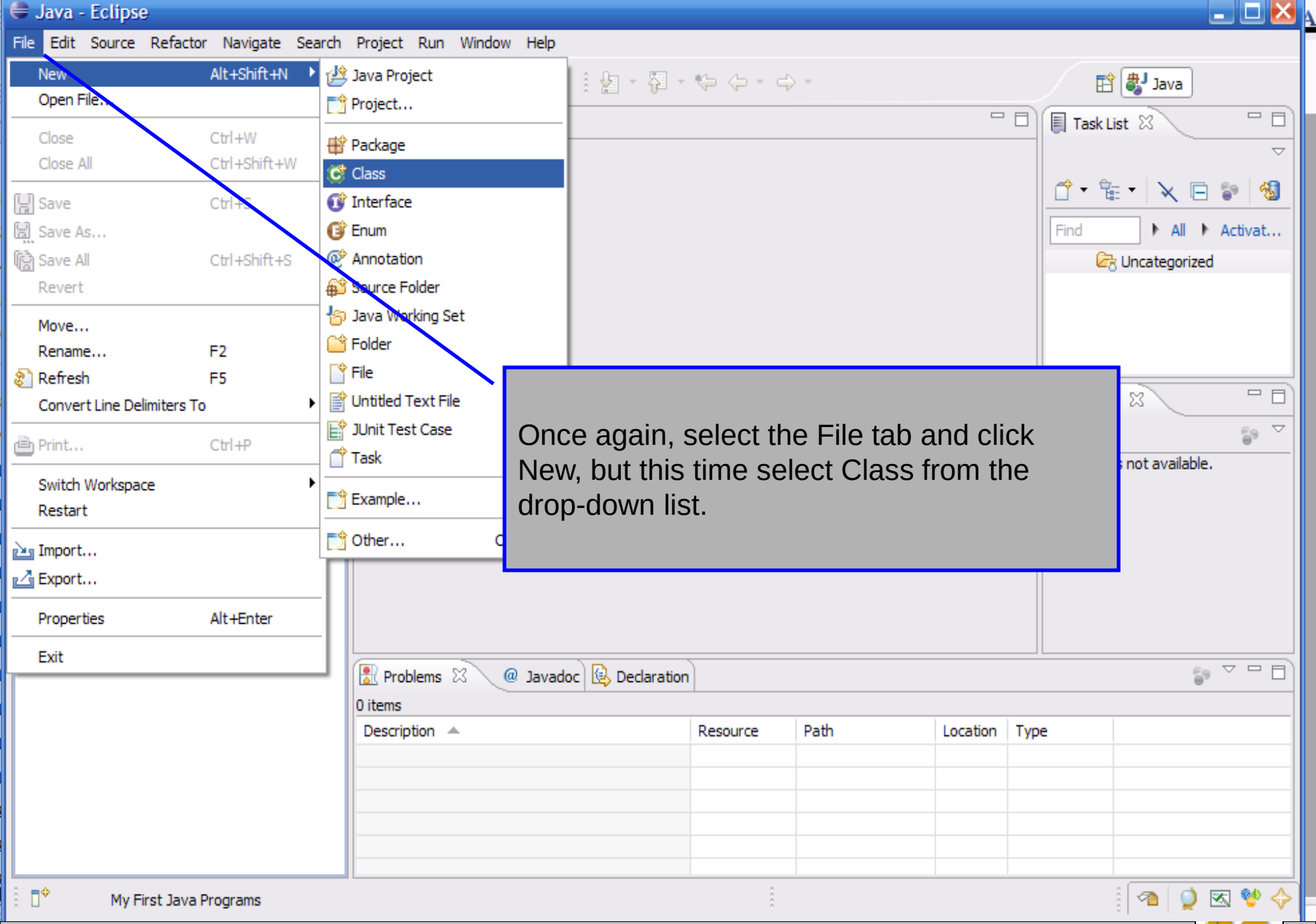
Type
Enter a Project Name – let's call this one "My First Java Programs". Accept the default values for all other items in this menu.
Then click Finish.



Now upon returning to the workbench, you have created a Java Project. Note that since it is currently the only Project, it is selected by default. Once you have several different projects underway, you'll need to select the Project in which you want to work each time.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Task
Example...
Other...
Java
Task List
Find All Activat...
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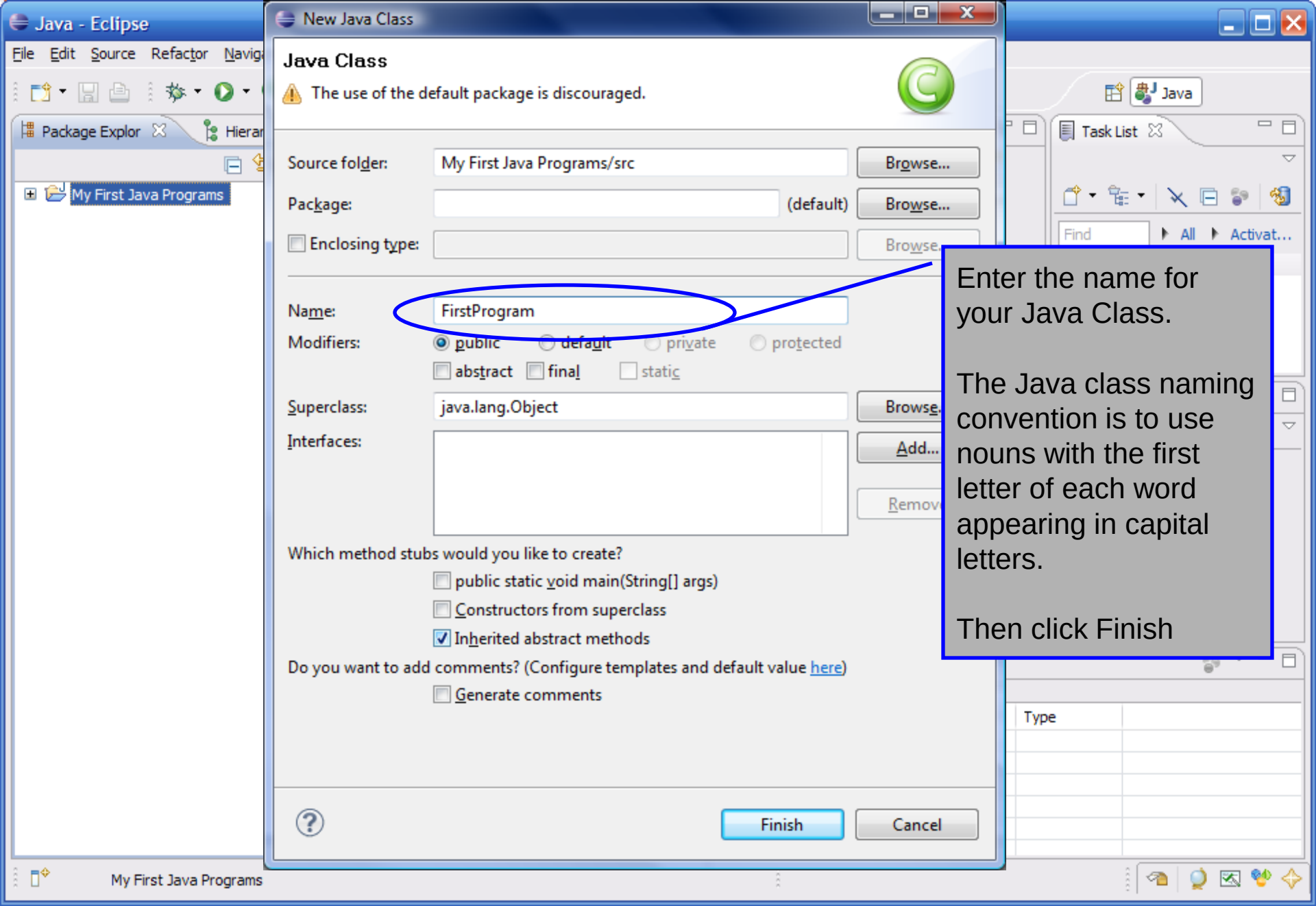
not available.
Problems Javadoc Declaration
0 items
Description Resource Path Location Type
My First Java Programs
Once again, select the File tab and click New, but this time select Class from the drop-down list.


Java - Eclipse
File Edit Source Refactor Navig
Package Explor
Hierar
My First Java Programs
New Java Class
Java Class
The use of the default package is discouraged.
Source folder:
My First Java Programs/src
Browse...
Package:
(default)
Browse...
Enclosing type:
Browse...
Name:
FirstProgram
Modifiers:
public
default
private
protected
abstract
final
static
Superclass:
java.lang.Object
Browse...
Interfaces:
Add...
Remove
Which method stubs would you like to create?
public static void main(String[] args)
Constructors from superclass
Inherited abstract methods
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Cancel
Java
Task List
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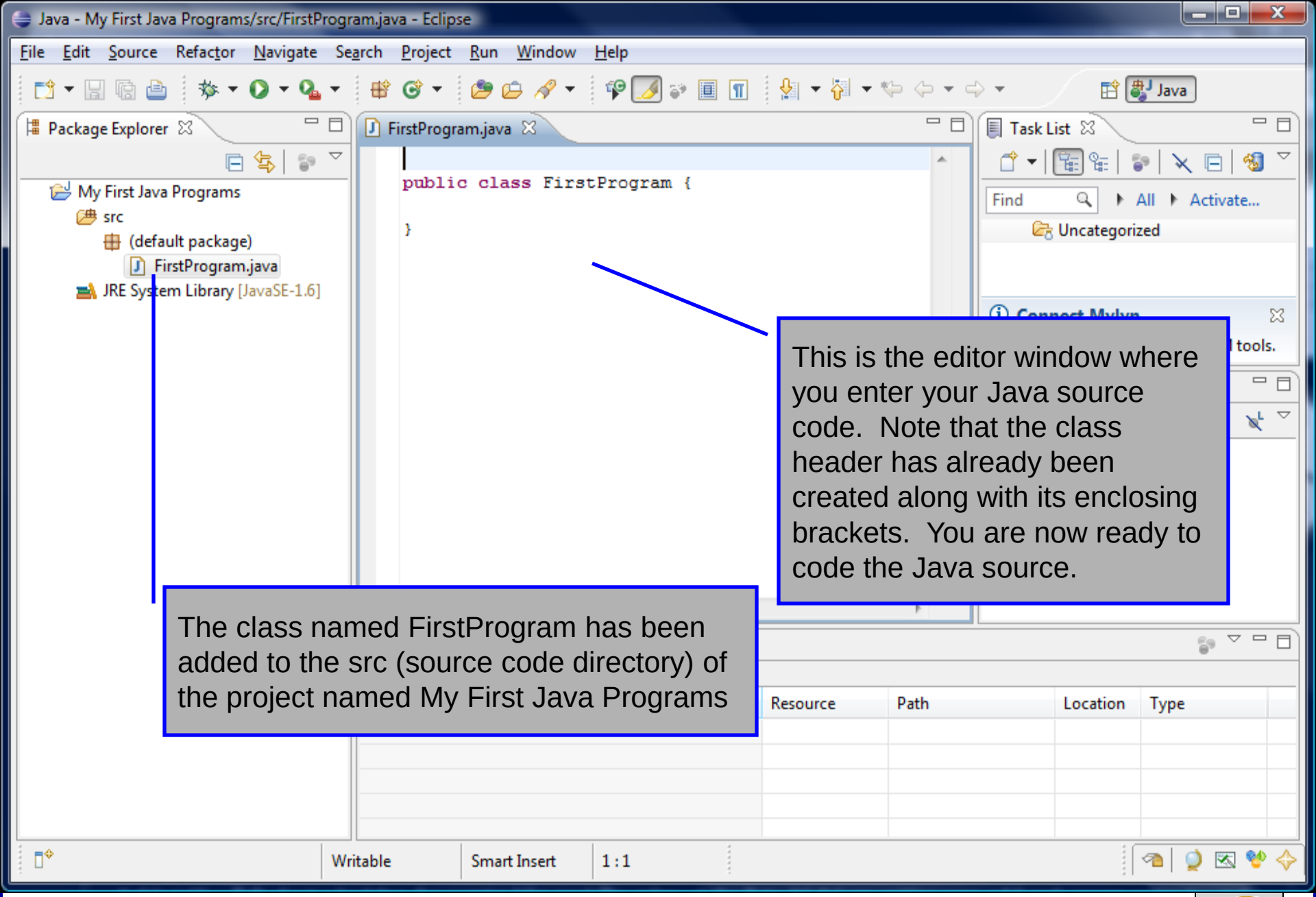
Type
My First Java Programs
Enter the name for your Java Class.
The Java class naming convention is to use nouns with the first letter of each word appearing in capital letters.
Then click Finish


Java - My First Java Programs/src/FirstProgram.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Java
Package Explorer
My First Java Programs
src
(default package)
FirstProgram.java
JRE System Library [JavaSE-1.6]
FirstProgram.java
public class FirstProgram {
}
Task List
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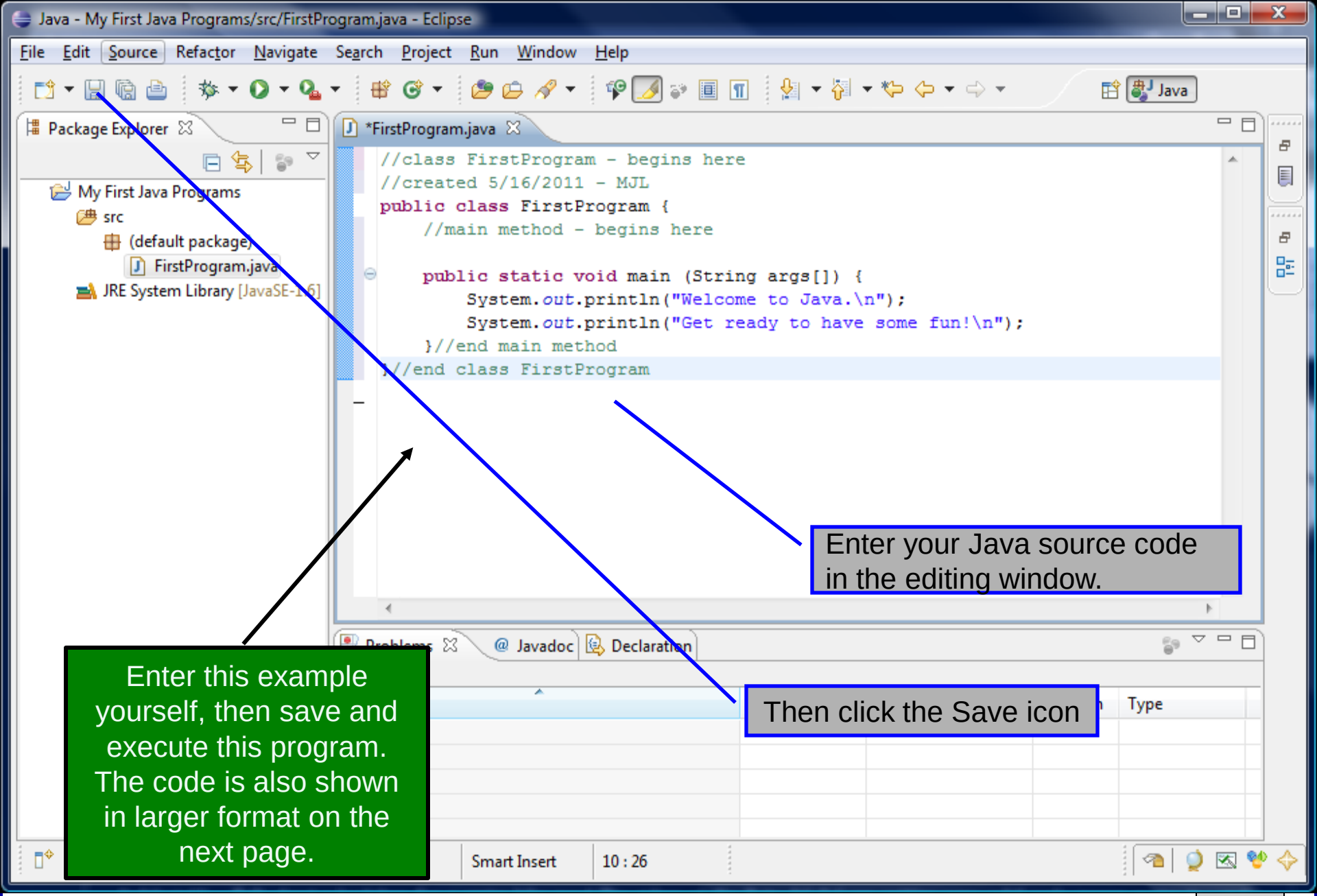
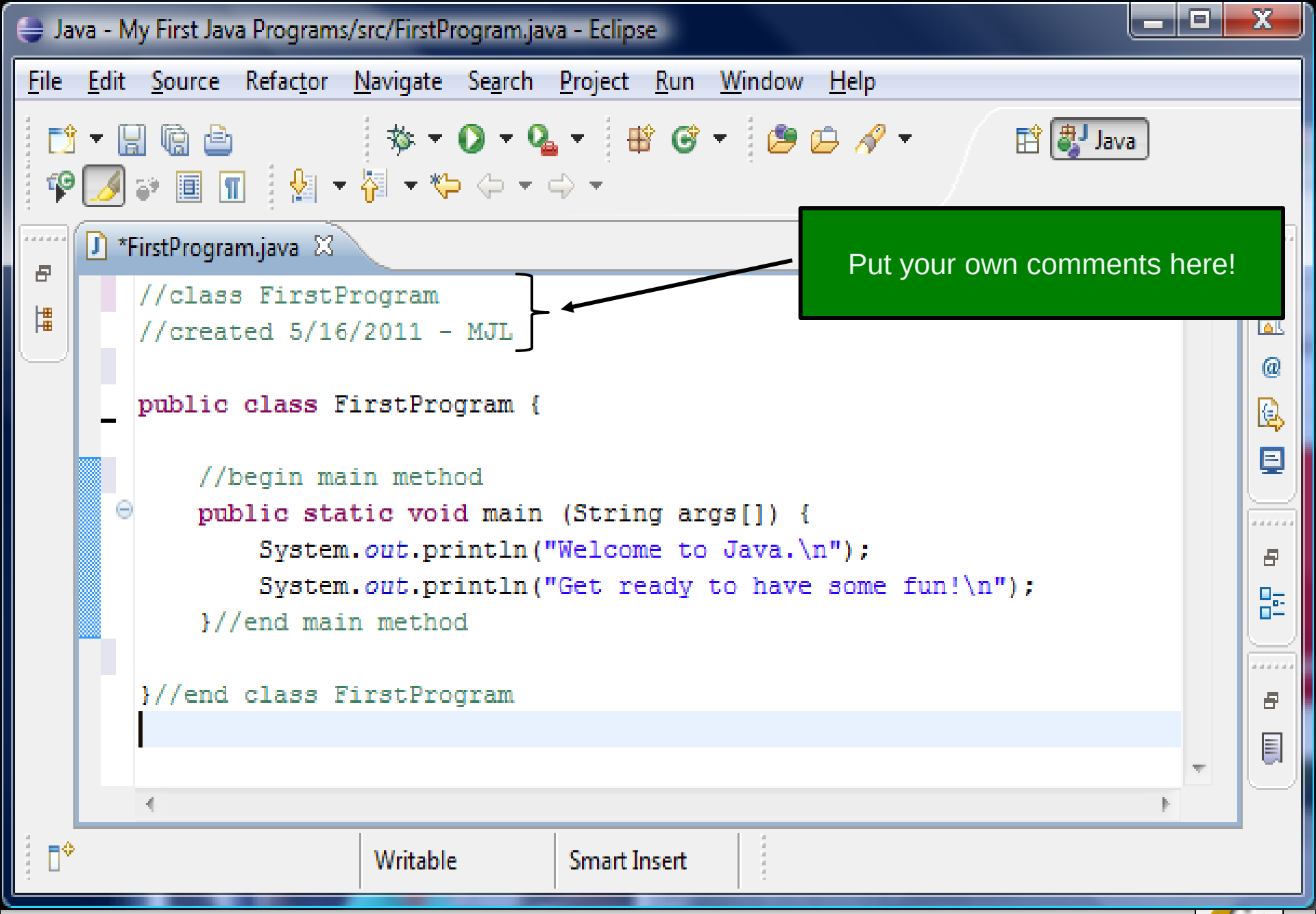
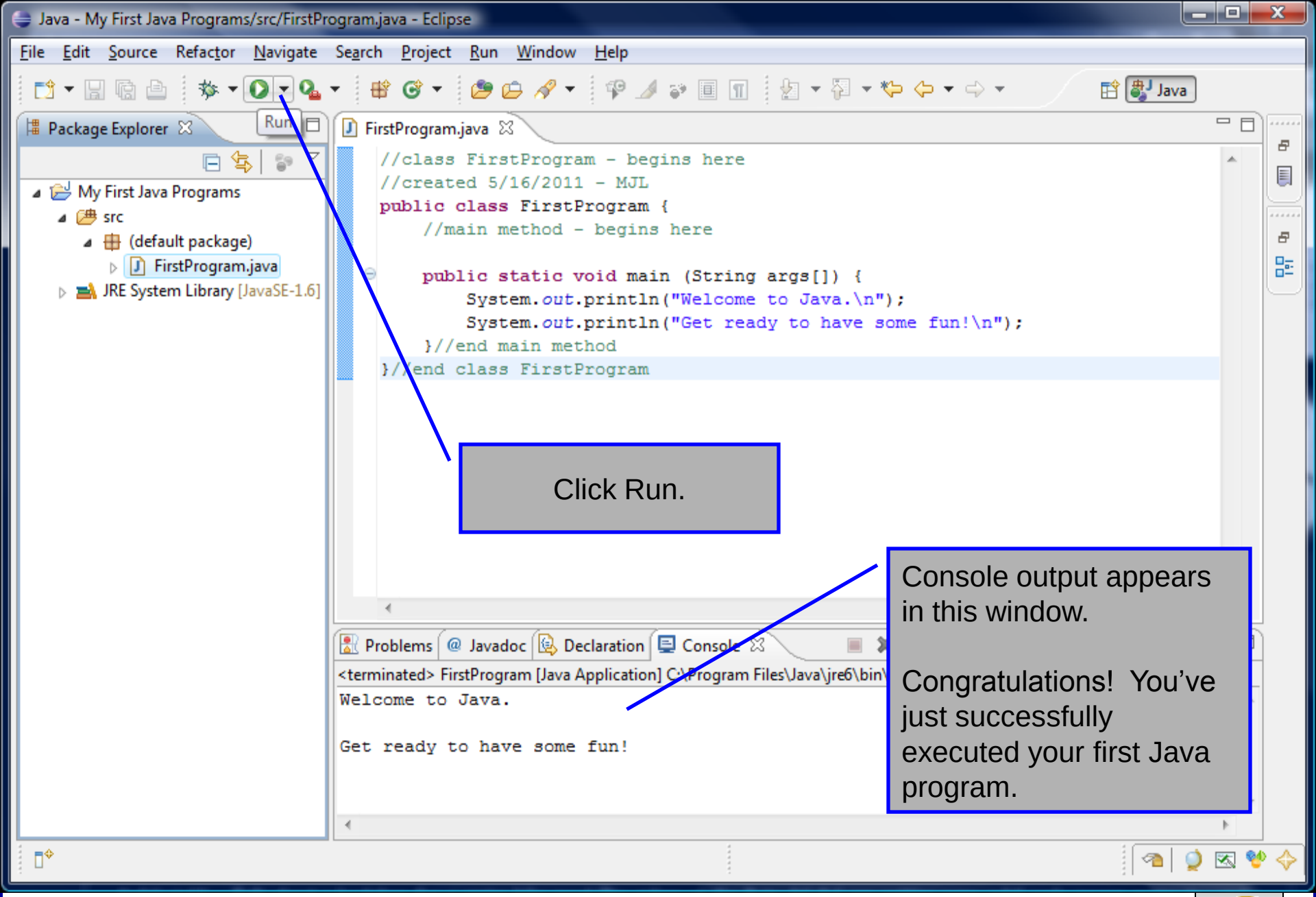
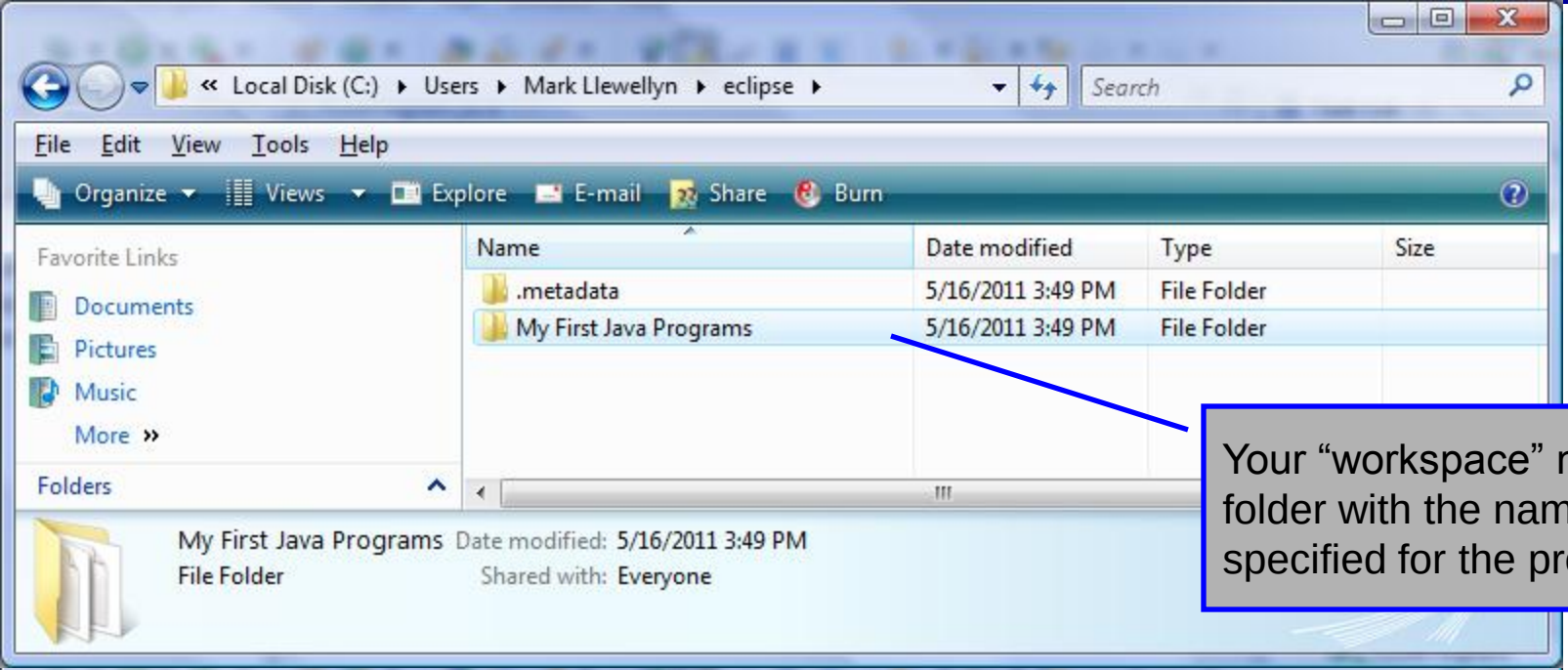
1 : 1
This is the editor window where you enter your Java source code. Note that the class header has already been created along with its enclosing brackets. You are now ready to code the Java source.
The class named FirstProgram has been added to the src (source code directory) of the project named My First Java Programs

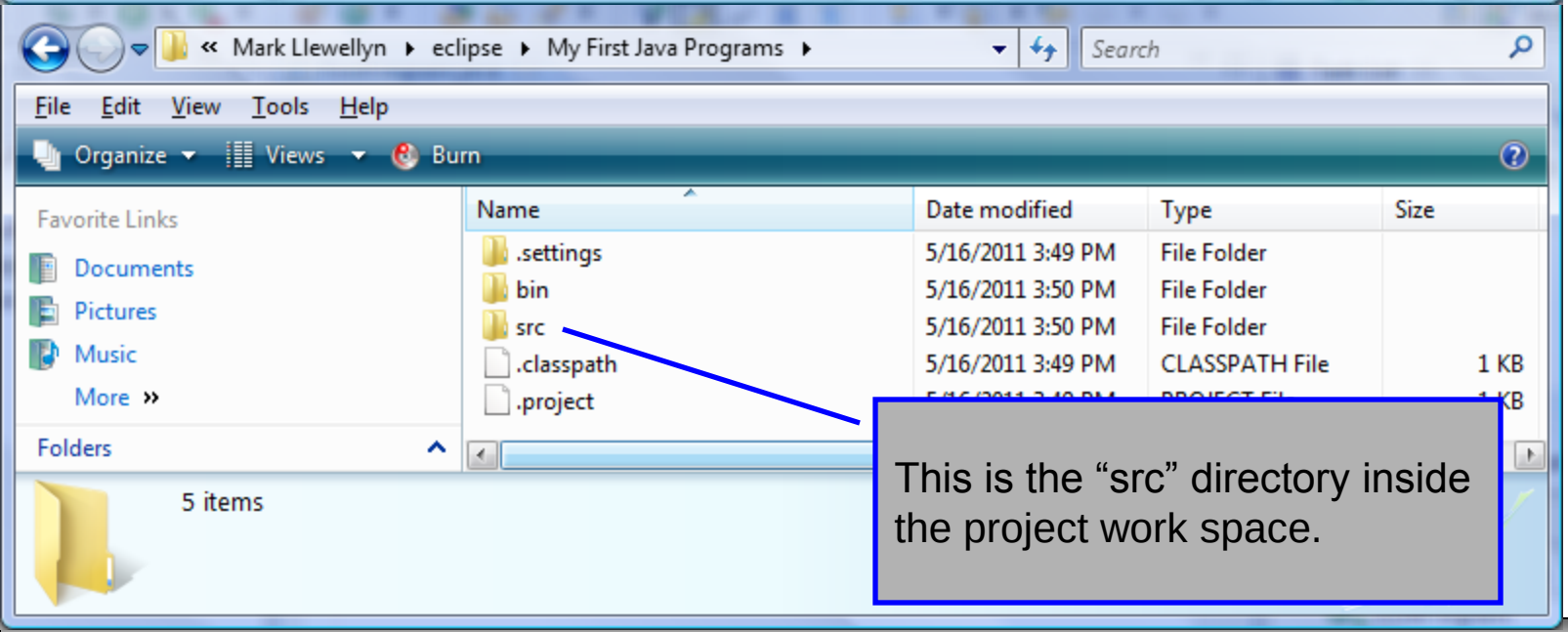

Java - My First Java Programs/src/FirstProgram.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Java
Package Explorer
My First Java Programs
src
(default package)
FirstProgram.java
JRE System Library [JavaSE-1.6]
*FirstProgram.java
//class FirstProgram - begins here
//created 5/16/2011 - MJL
public class FirstProgram {
//main method - begins here
public static void main (String args[]) {
System.out.println("Welcome to Java.\n");
System.out.println("Get ready to have some fun!\n");
}//end main method
}//end class FirstProgram
Problems
Javadoc
Declaration
Type
Smart Insert
10 : 26
Enter your Java source code in the editing window.
Then click the Save icon
Enter this example yourself, then save and execute this program. The code is also shown in larger format on the next page.


Java - My First Java Programs/src/FirstProgram.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Java
*FirstProgram.java
//class FirstProgram
//created 5/16/2011 - MJL
public class FirstProgram {
//begin main method
public static void main (String args[]) {
System.out.println("Welcome to Java.\n");
System.out.println("Get ready to have some fun!\n");
}//end main method
}//end class FirstProgram
Put your own comments here!
Writable
Smart Insert

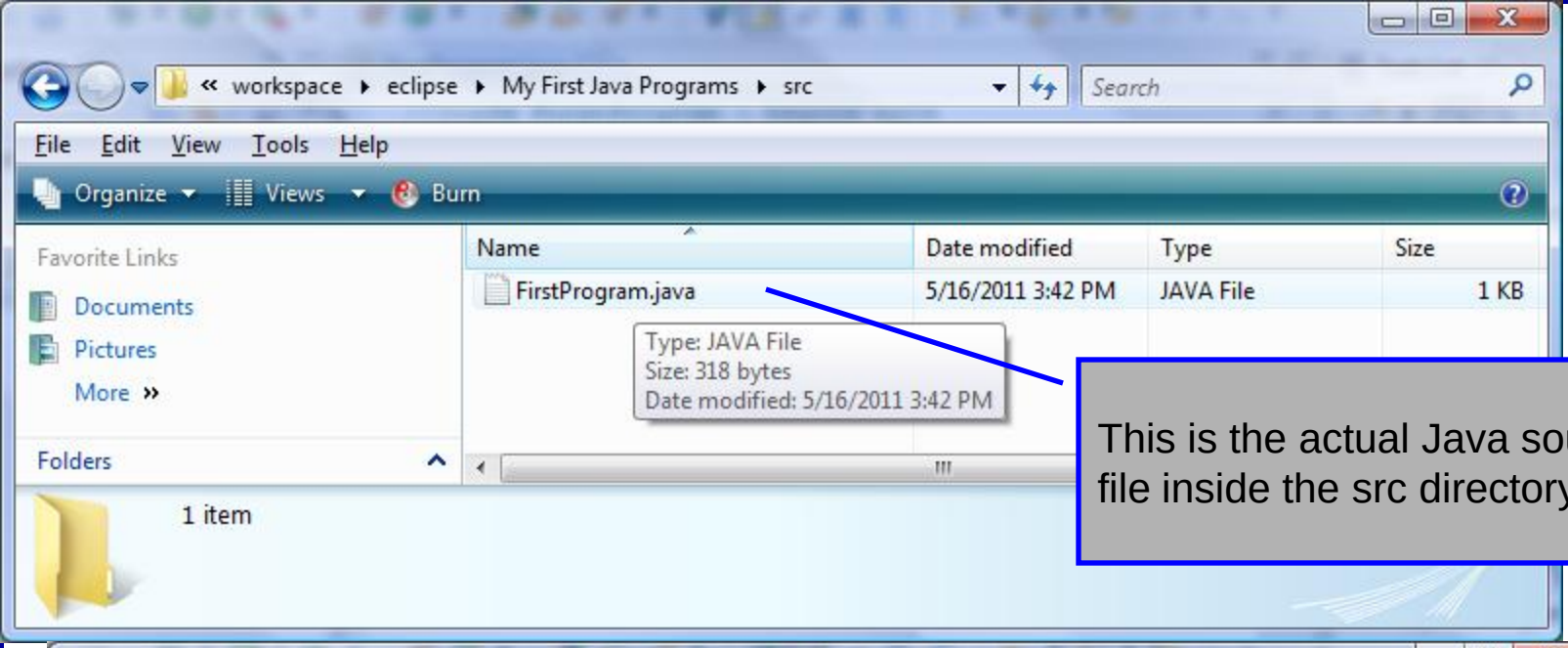

Java - My First Java Programs/src/FirstProgram.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Java
Package Explorer
Run
My First Java Programs
src
(default package)
FirstProgram.java
JRE System Library [JavaSE-1.6]
FirstProgram.java
//class FirstProgram - begins here
//created 5/16/2011 - MJL
public class FirstProgram {
//main method - begins here
public static void main (String args[]) {
System.out.println("Welcome to Java.\n");
System.out.println("Get ready to have some fun!\n");
}//end main method
}//end class FirstProgram
Click Run.
Problems Javadoc Declaration Console
<terminated> FirstProgram [Java Application] C:\Program Files\Java\jre6\bin\
Welcome to Java.
Get ready to have some fun!
Console output appears in this window.
Congratulations! You've just successfully executed your first Java program.



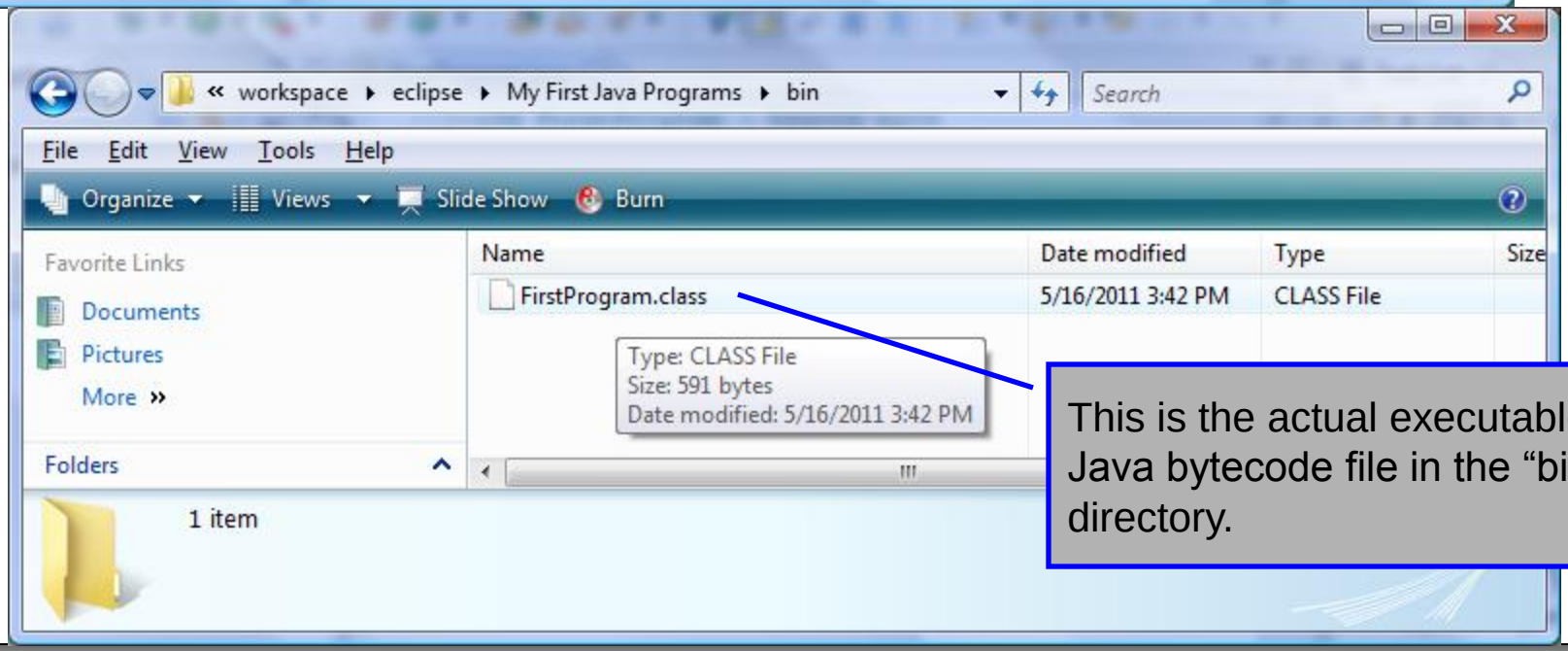
Your "workspace" now has a folder with the name you specified for the project.



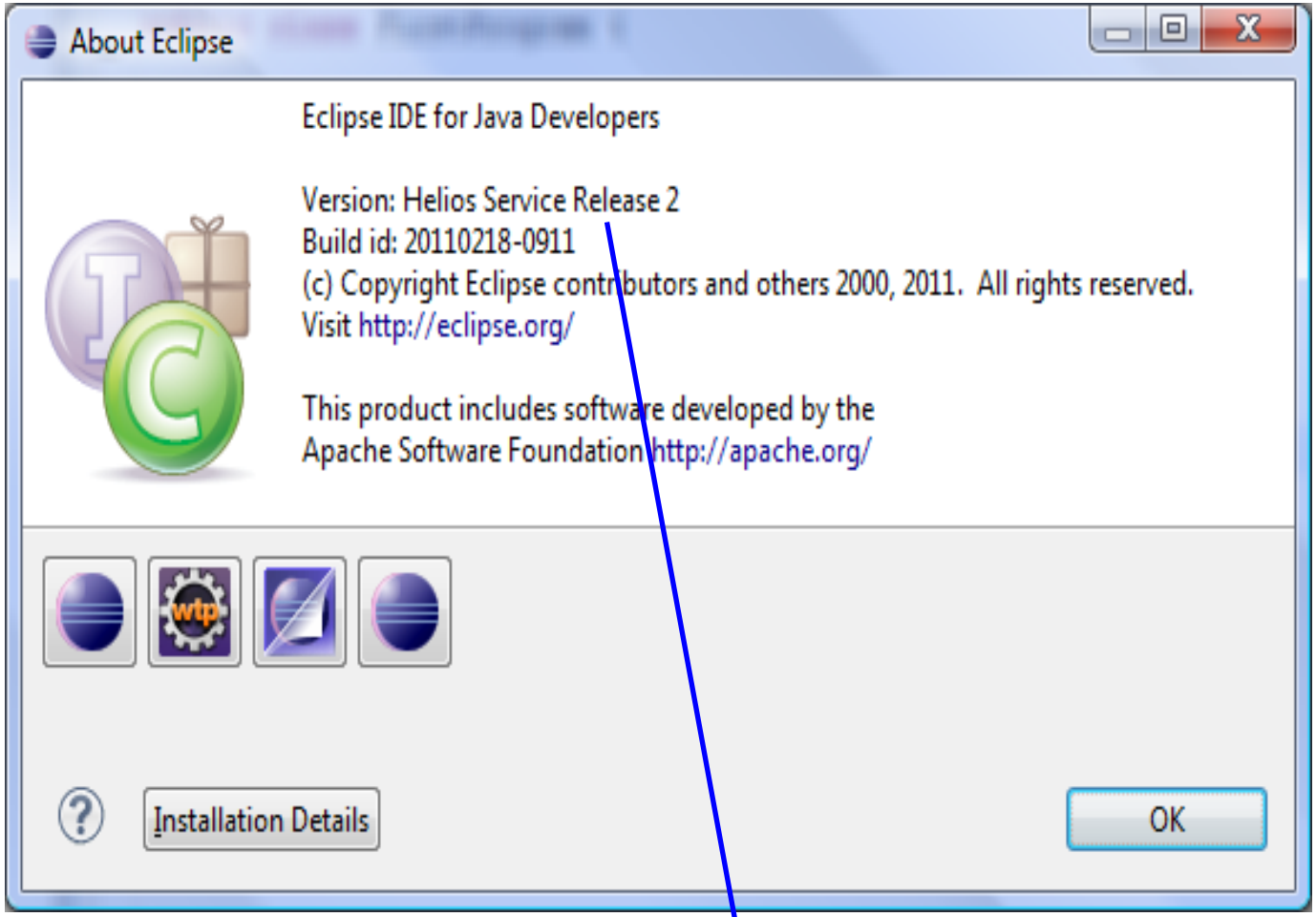
This is the "src" directory inside the project work space.



This is the actual Java source file inside the src directory.



This is the actual executable Java bytecode file in the “bin” directory.



The current version of Eclipse is Helios. You can verify that this is what you downloaded and setup by clicking the Help button in the workbench window and selecting “About Eclipse” from the menu.

Getting JGrasp

Go to www.jgrasp.org

Click on download link

jGRASP Home Page - Windows Internet Explorer

http://www.jgrasp.org/

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jGRASP

An Integrated Development Environment with Visualizations for Improving Software Comprehensibility

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Current jGRASP release is version 1.8.8_10 (April 18, 2011).

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on Teachi isualizations

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On-line Papers
Tips
FAQ
Known Bugs
Version History
Future Plans
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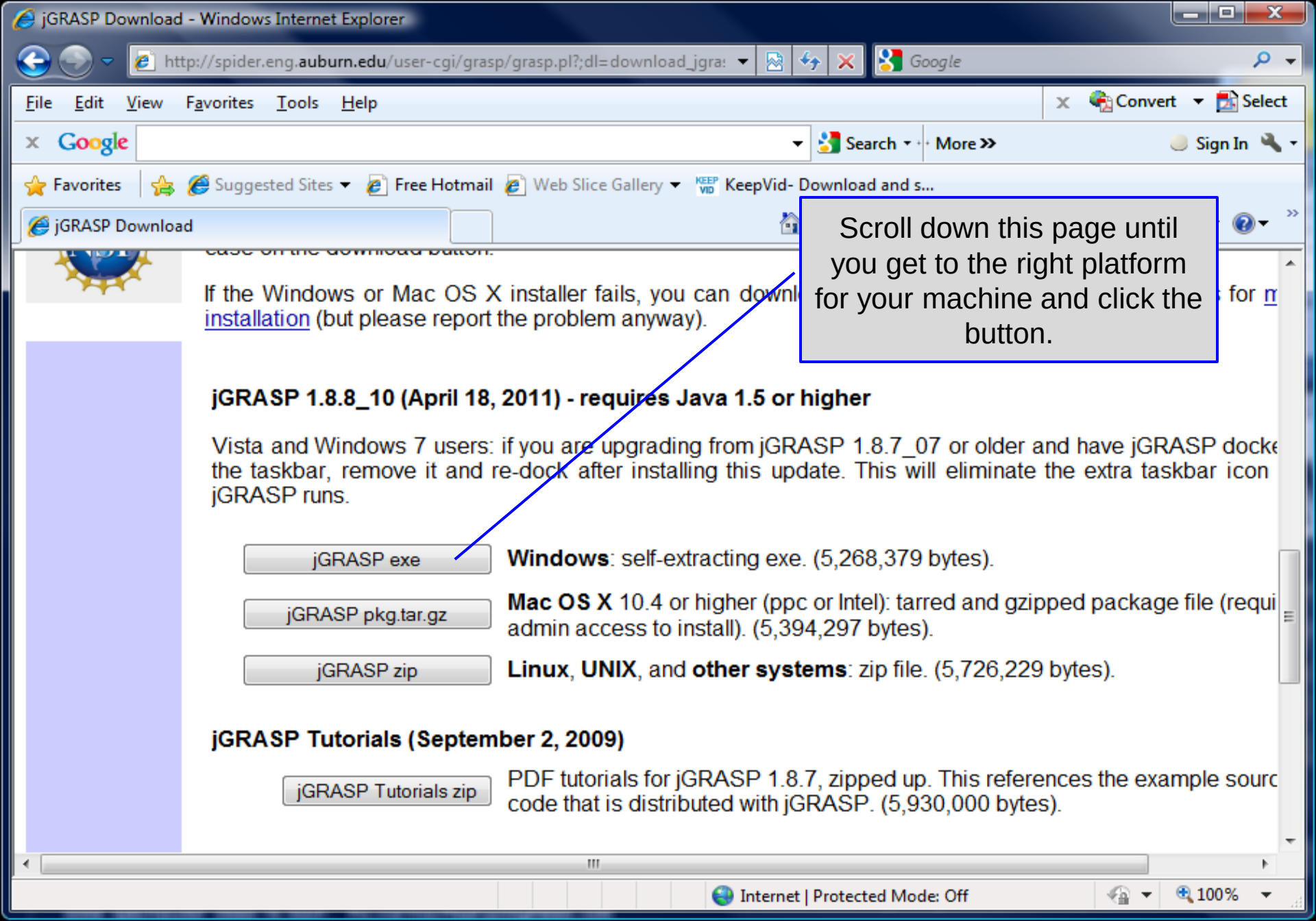
About jGRASP

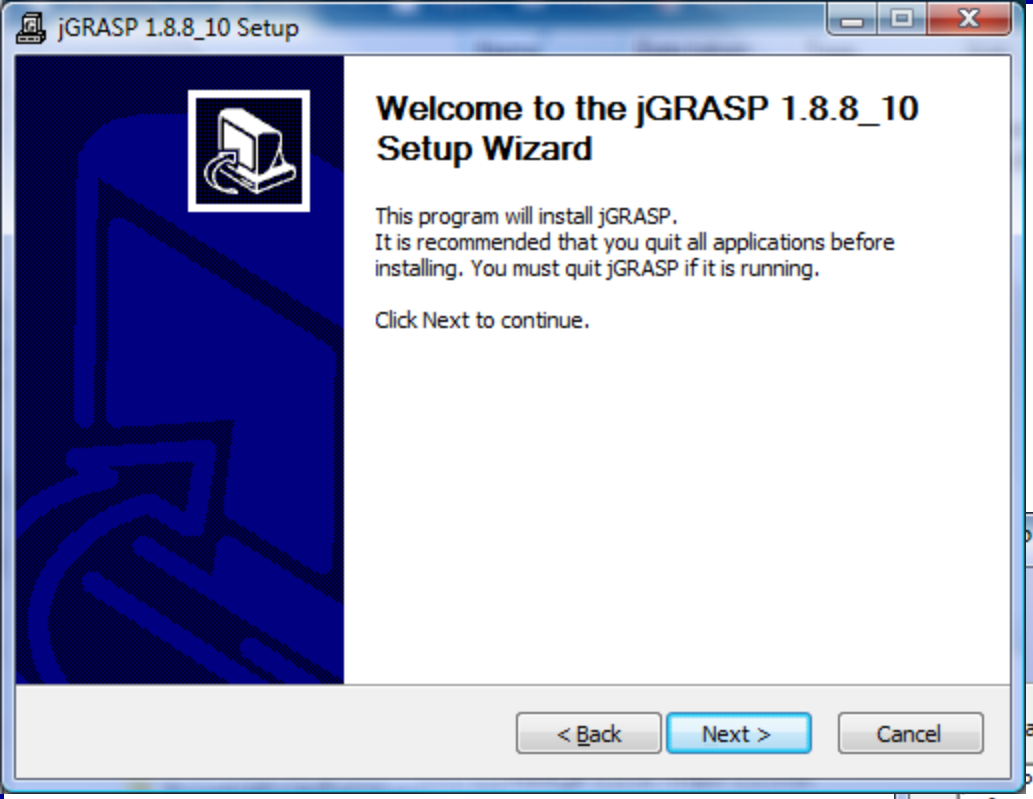
jGRASP is a lightweight development environment, created specifically to provide automatic generation of software visualizations to improve the comprehensibility of software. jGRASP is implemented in Java, and runs on all platforms with a Java Virtual Machine (Java version 1.5 or higher). jGRASP produces Control Structure Diagrams (CSDs) for Java, C, C++, Objective-C, Ada, and VHDL; Complexity Profile Graphs (CPGs) for Java and Ada; UML class diagrams for Java; and has dynamic object viewers that work in conjunction with an integrated debugger and workbench for

Control Structure Diagram (CSD)

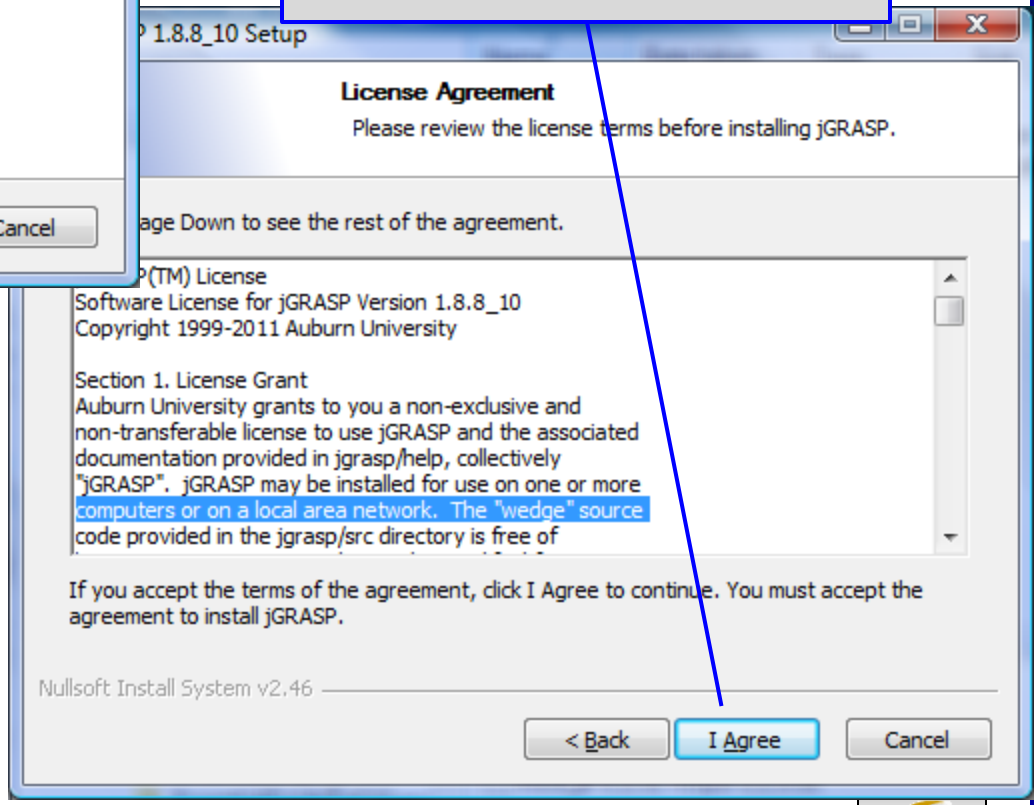
```
String href;
while((e = i.next())
  if(e.isLeaf()) {
```

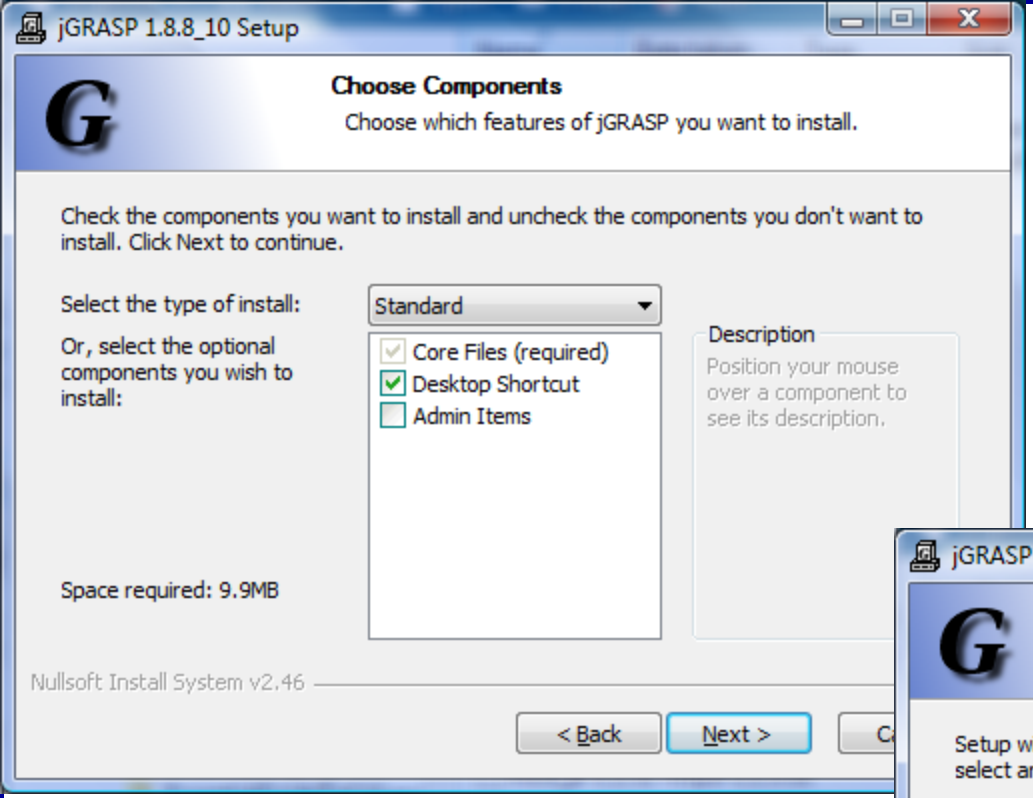
Done Internet | Protected Mode: Off 100%

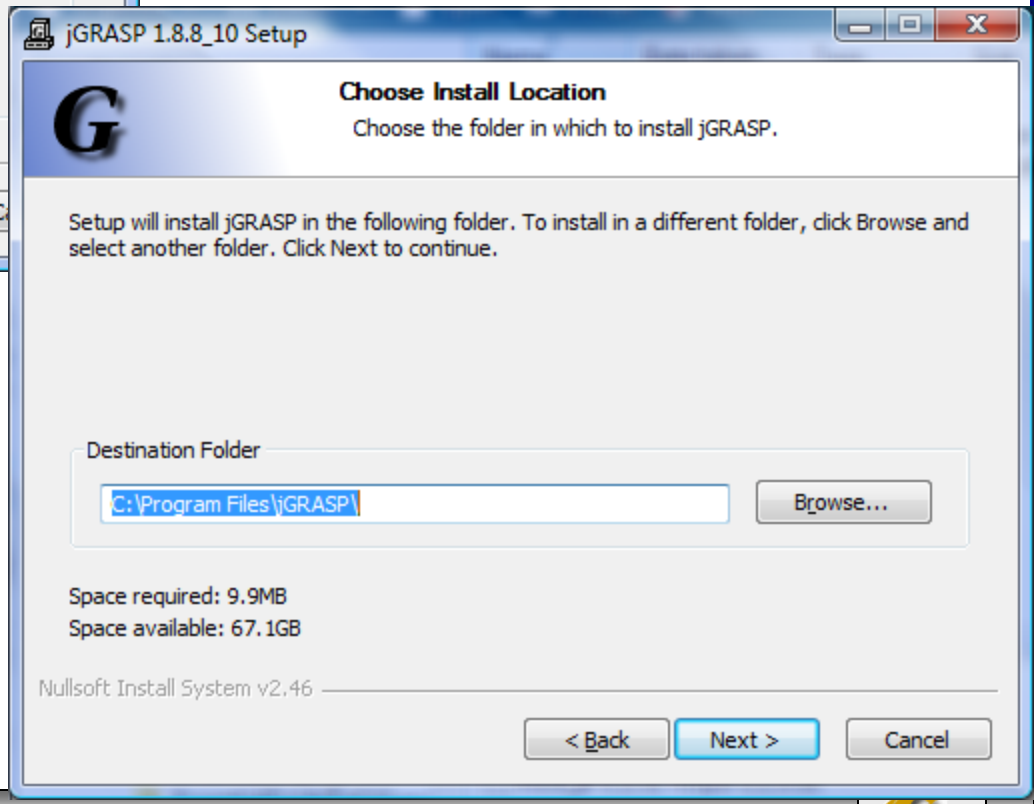

jGRASP Download - Windows Internet Explorer
http://spider.eng.auburn.edu/user-cgi/grasp/grasp.pl?;dl=download_jgra
Google
File Edit View Favorites Tools Help
Convert Select
Search More
Sign In
Favorites Suggested Sites Free Hotmail Web Slice Gallery KeepVid- Download and s...
jGRASP Download
Scroll down this page until you get to the right platform for your machine and click the button.
If the Windows or Mac OS X installer fails, you can
installation (but please report the problem anyway).
jGRASP 1.8.8_10 (April 18, 2011) - requires Java 1.5 or higher
Vista and Windows 7 users: if you are upgrading from jGRASP 1.8.7_07 or older and have jGRASP
the taskbar, remove it and re-dock after installing this update. This will eliminate the extra taskbar icon
jGRASP runs.
jGRASP exe
Windows: self-extracting exe. (5,268,379 bytes).
jGRASP pkg.tar.gz
Mac OS X 10.4 or higher (ppc or Intel): tarred and gzipped package file
admin access to install). (5,394,297 bytes).
jGRASP zip
Linux, UNIX, and other systems: zip file. (5,726,229 bytes).
jGRASP Tutorials (September 2, 2009)
jGRASP Tutorials zip
PDF tutorials for jGRASP 1.8.7, zipped up. This references the example
code that is distributed with jGRASP. (5,930,000 bytes).
Internet | Protected Mode: Off
100%

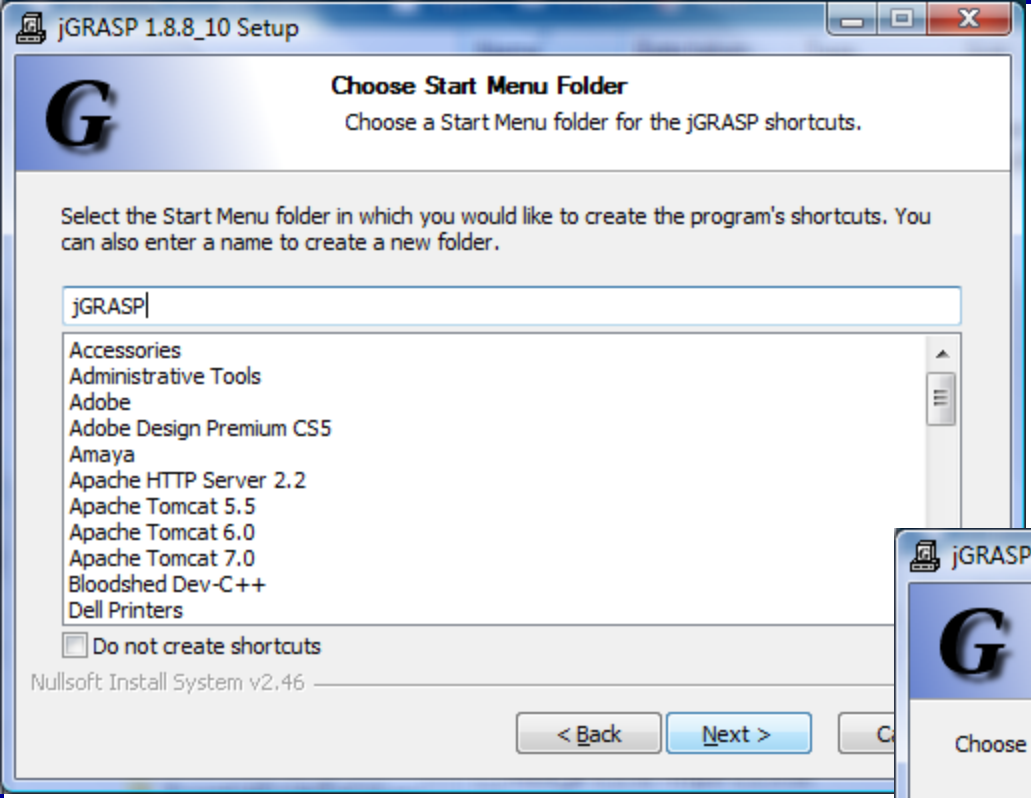


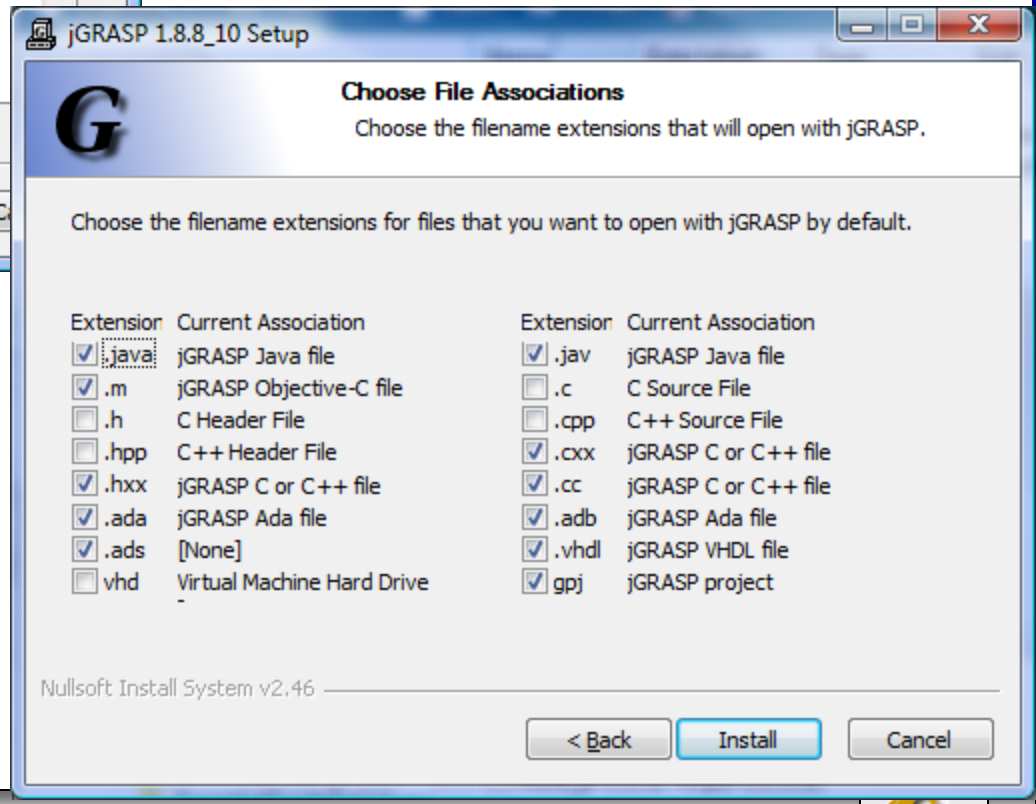
Click “I agree”

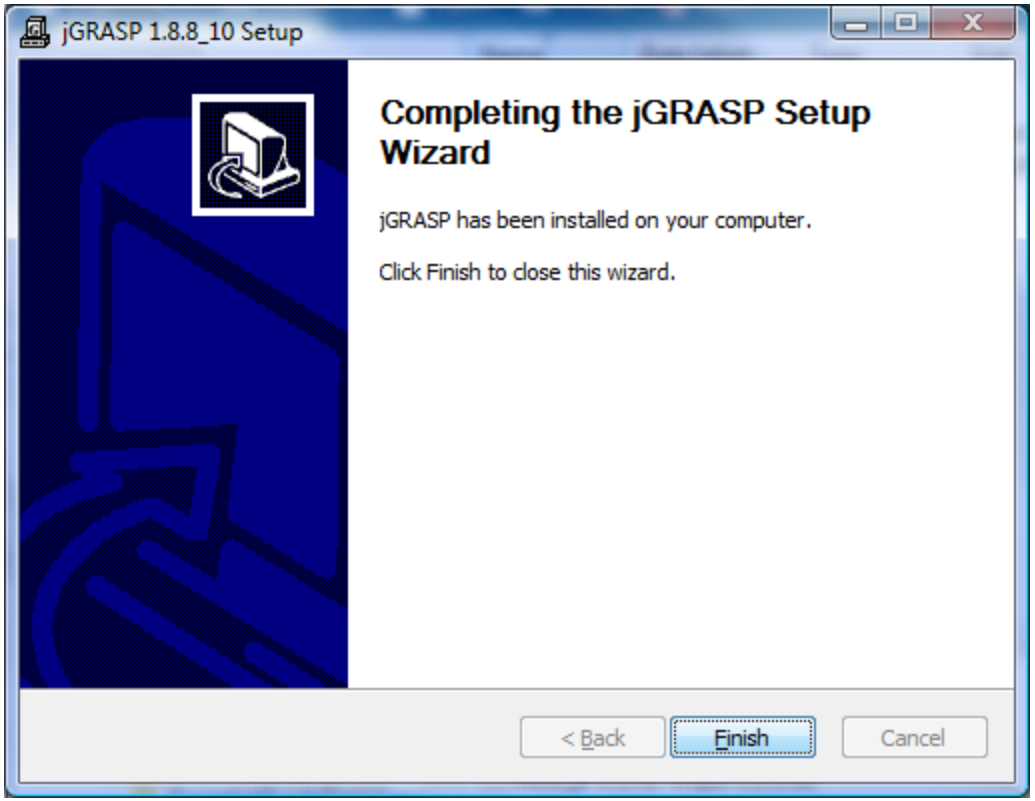


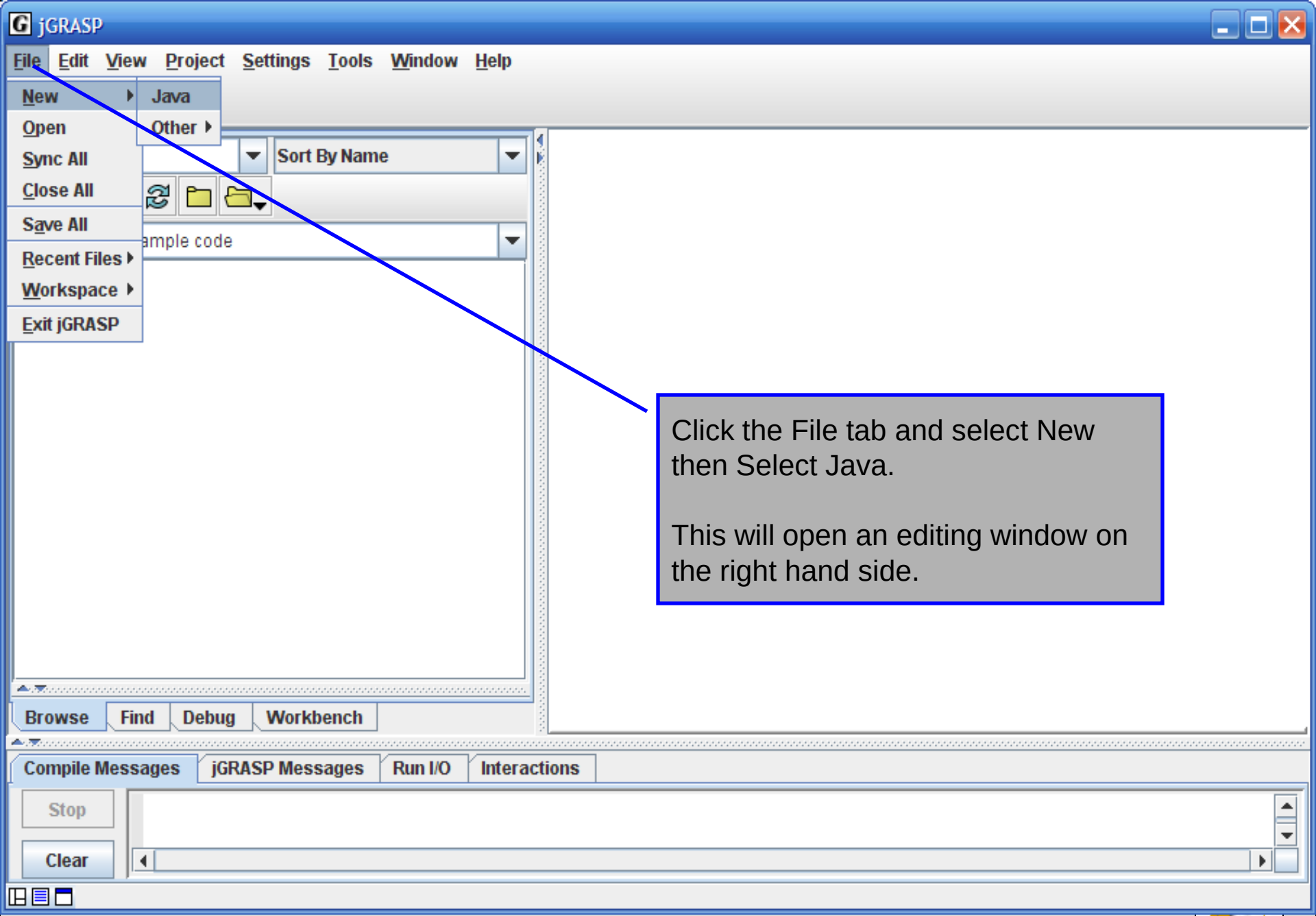

jGRASP 1.8.8_10 Setup
Choose Components
Choose which features of jGRASP you want to install.
Check the components you want to install and uncheck the components you don't want to install. Click Next to continue.
Select the type of install:
Standard
Or, select the optional components you wish to install:
Core Files (required)
Desktop Shortcut
Admin Items
Description
Position your mouse over a component to see its description.
Space required: 9.9MB
Nullsoft Install System v2.46
< Back
Next >

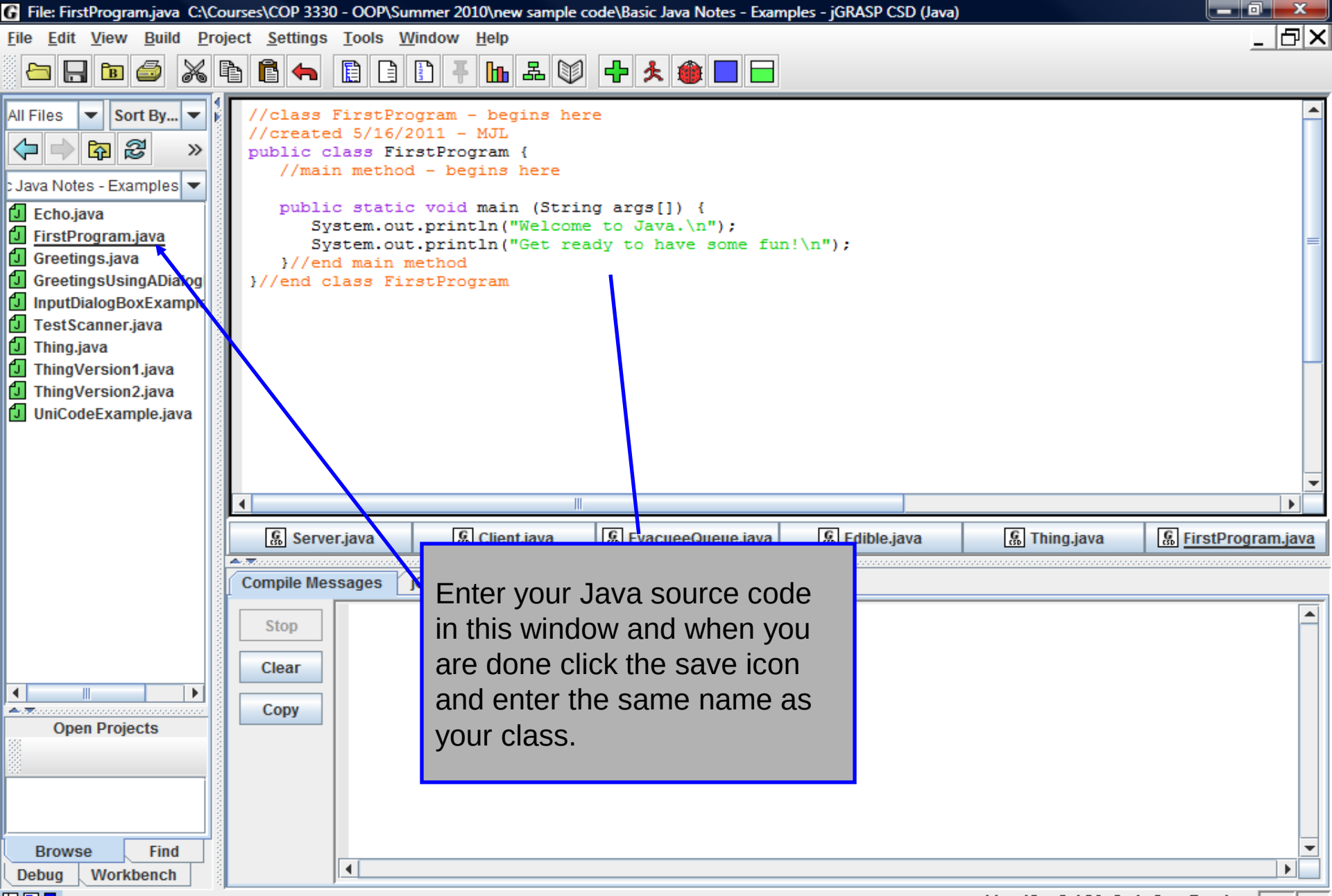

jGRASP 1.8.8_10 Setup
Choose Install Location
Choose the folder in which to install jGRASP.
Setup will install jGRASP in the following folder. To install in a different folder, click Browse and select another folder. Click Next to continue.
Destination Folder
C:\Program Files\jGRASP\
Browse...
Space required: 9.9MB
Space available: 67.1GB
Nullsoft Install System v2.46
< Back
Next >
Cancel

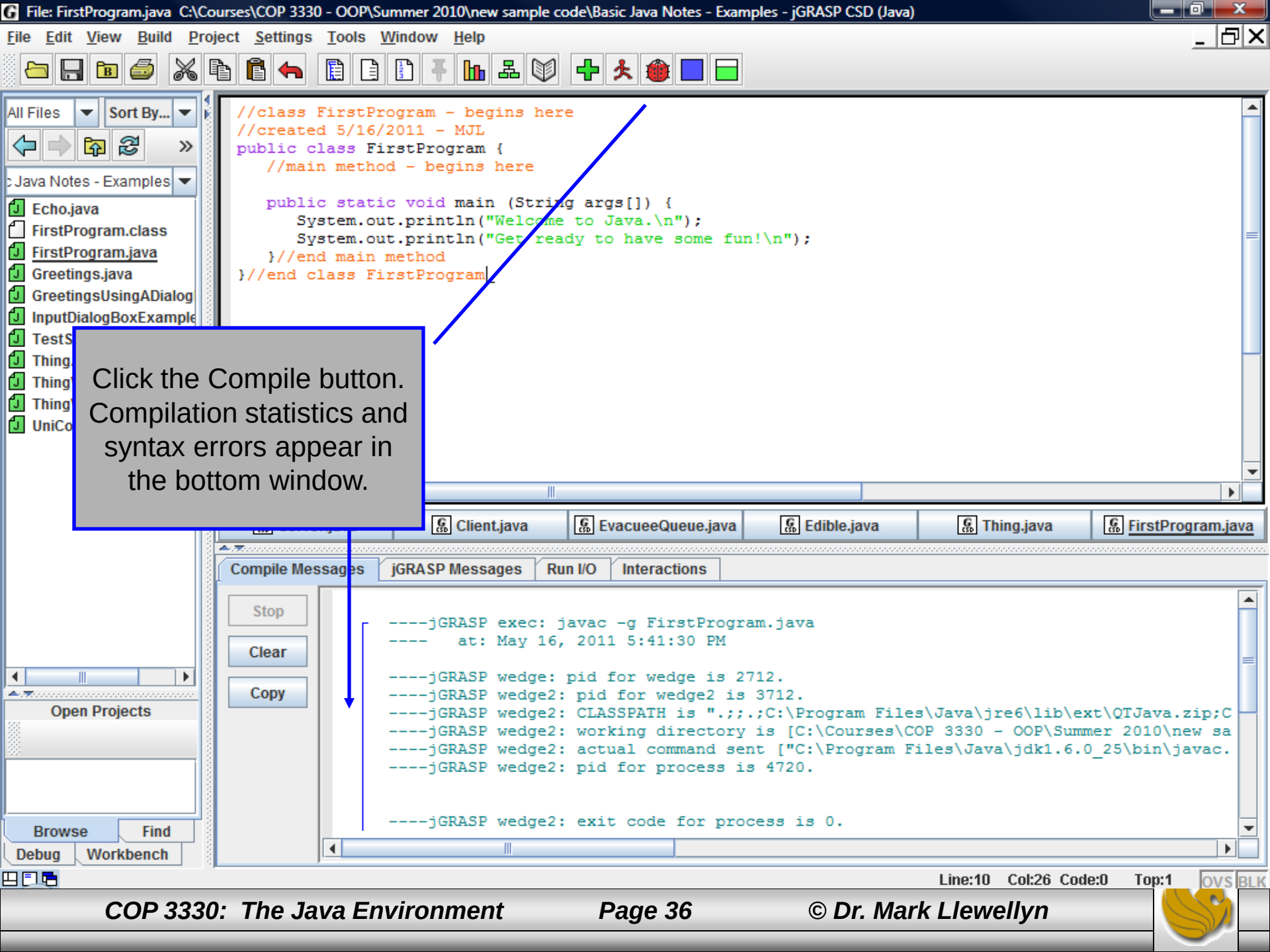

jGRASP 1.8.8_10 Setup
Choose Start Menu Folder
Choose a Start Menu folder for the jGRASP shortcuts.
Select the Start Menu folder in which you would like to create the program's shortcuts. You can also enter a name to create a new folder.
jGRASP
Accessories
Administrative Tools
Adobe
Adobe Design Premium CS5
Amaya
Apache HTTP Server 2.2
Apache Tomcat 5.5
Apache Tomcat 6.0
Apache Tomcat 7.0
Bloodshed Dev-C++
Dell Printers
Do not create shortcuts
Nullsoft Install System v2.46
< Back
Next >

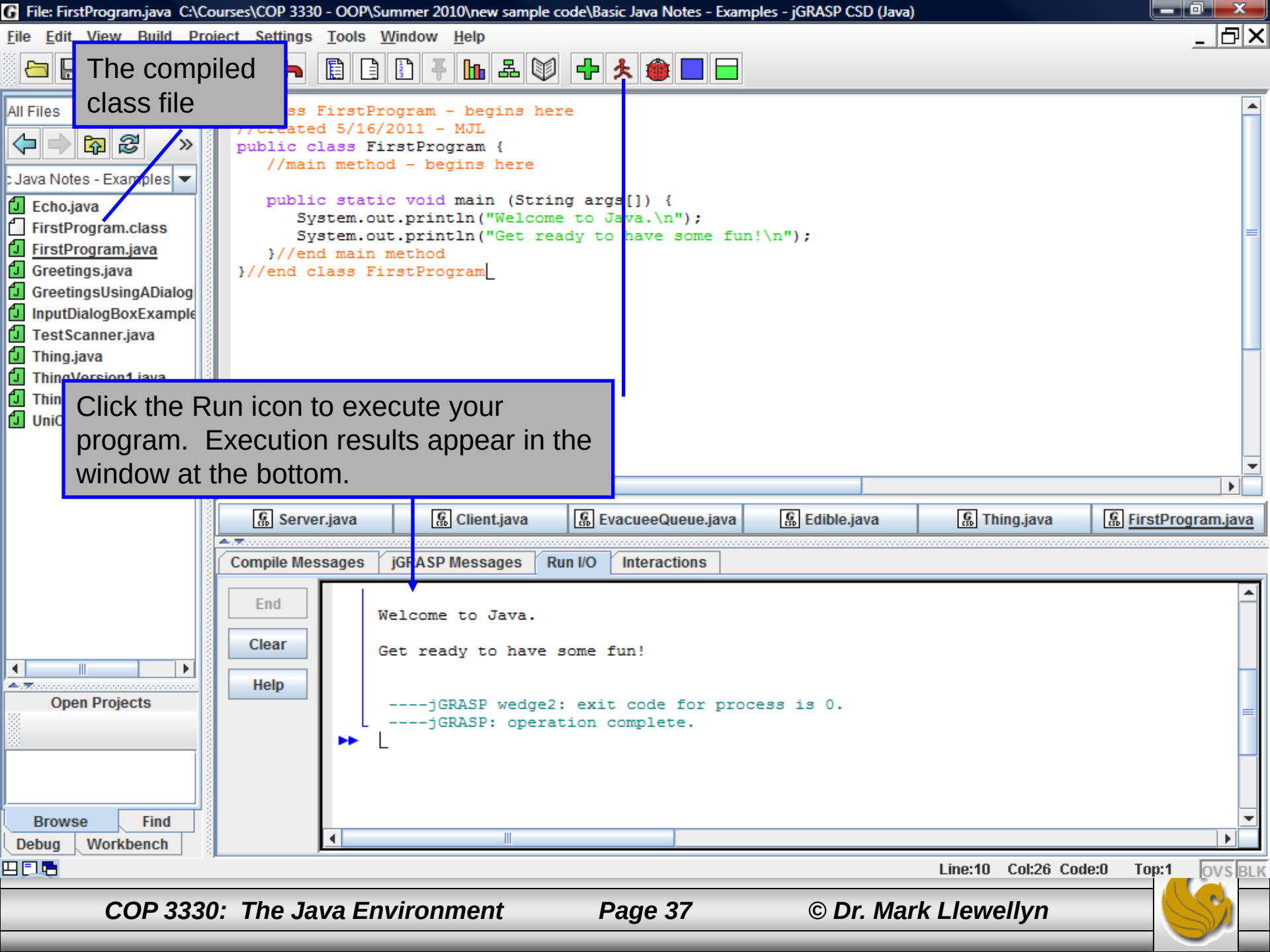

jGRASP 1.8.8_10 Setup
Choose File Associations
Choose the filename extensions that will open with jGRASP.
Choose the filename extensions for files that you want to open with jGRASP by default.
Extension Current Association
.java jGRASP Java file
.m jGRASP Objective-C file
.h C Header File
.hpp C++ Header File
.hxx jGRASP C or C++ file
.ada jGRASP Ada file
.ads [None]
vhd Virtual Machine Hard Drive
Extension Current Association
.jav jGRASP Java file
.c C Source File
.cpp C++ Source File
.cxx jGRASP C or C++ file
.cc jGRASP C or C++ file
.adb jGRASP Ada file
.vhdl jGRASP VHDL file
gpj jGRASP project
Nullsoft Install System v2.46
< Back
Install
Cancel


jGRASP 1.8.8_10 Setup
Completing the jGRASP Setup Wizard
jGRASP has been installed on your computer.
Click Finish to close this wizard.
< Back
Finish
Cancel


jGRASP
File
Edit
View
Project
Settings
Tools
Window
Help
New
Open
Sync All
Close All
Save All
Recent Files
Workspace
Exit jGRASP
Java
Other
Sort By Name
ample code
Browse
Find
Debug
Workbench
Compile Messages
jGRASP Messages
Run I/O
Interactions
Stop
Clear
Click the File tab and select New then Select Java.
This will open an editing window on the right hand side.


File: FirstProgram.java C:\Courses\COP 3330 - OOP\Summer 2010\new sample code\Basic Java Notes - Examples - jGRASP CSD (Java)
File Edit View Build Project Settings Tools Window Help
All Files
Sort By...
Java Notes - Examples
Echo.java
FirstProgram.java
Greetings.java
GreetingsUsingADialog
InputDialogBoxExampl
TestScanner.java
Thing.java
ThingVersion1.java
ThingVersion2.java
UniCodeExample.java
Open Projects
Browse
Find
Debug
Workbench
//class FirstProgram - begins here
//created 5/16/2011 - MJL
public class FirstProgram {
//main method - begins here
public static void main (String args[]) {
System.out.println("Welcome to Java.\n");
System.out.println("Get ready to have some fun!\n");
}//end main method
}//end class FirstProgram
Server.java
Client.java
EvacueeQueue.java
Edible.java
Thing.java
FirstProgram.java
Compile Messages
Stop
Clear
Copy
Enter your Java source code in this window and when you are done click the save icon and enter the same name as your class.
Line:10 Col:26 Code:0 Top:1
OVS BLK

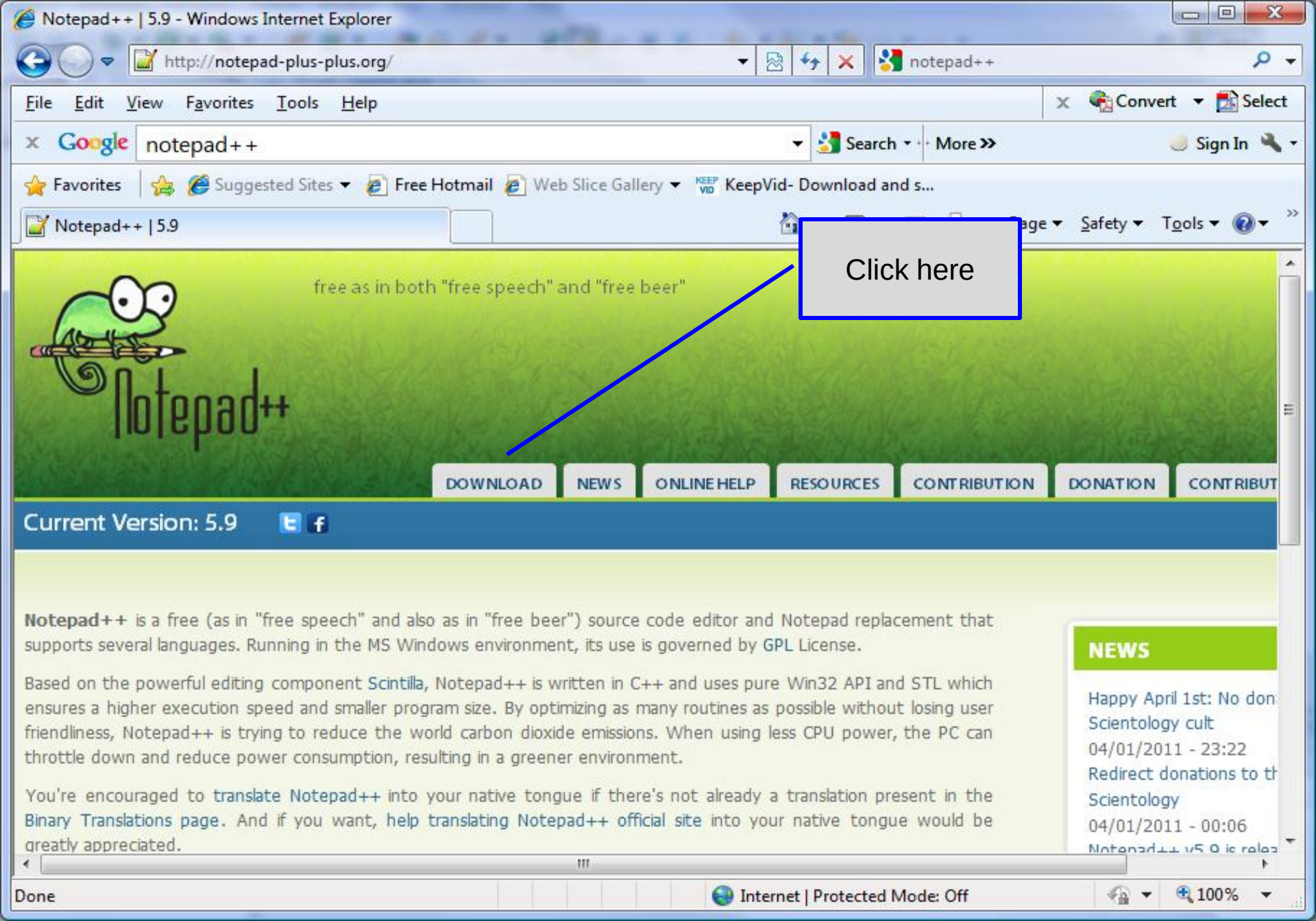

File: FirstProgram.java C:\Courses\COP 3330 - OOP\Summer 2010\new sample code\Basic Java Notes - Examples - jGRASP CSD (Java)
File Edit View Build Project Settings Tools Window Help
All Files
Sort By...
Java Notes - Examples
Echo.java
FirstProgram.class
FirstProgram.java
Greetings.java
GreetingsUsingADialog
InputDialogBoxExample
//class FirstProgram - begins here
//created 5/16/2011 - MJL
public class FirstProgram {
//main method - begins here
public static void main (String args[]) {
System.out.println("Welcome to Java.\n");
System.out.println("Get ready to have some fun!\n");
}//end main method
}//end class FirstProgram
Click the Compile button. Compilation statistics and syntax errors appear in the bottom window.
Client.java
EvacueeQueue.java
Edible.java
Thing.java
FirstProgram.java
Compile Messages
jGRASP Messages
Run I/O
Interactions
Stop
Clear
Copy
----jGRASP exec: javac -g FirstProgram.java
---- at: May 16, 2011 5:41:30 PM
----jGRASP wedge: pid for wedge is 2712.
----jGRASP wedge2: pid for wedge2 is 3712.
----jGRASP wedge2: CLASSPATH is ".;;.;C:\Program Files\Java\jre6\lib\ext\QTJava.zip;C
----jGRASP wedge2: working directory is [C:\Courses\COP 3330 - OOP\Summer 2010\new sa
----jGRASP wedge2: actual command sent ["C:\Program Files\Java\jdk1.6.0_25\bin\javac.
----jGRASP wedge2: pid for process is 4720.
----jGRASP wedge2: exit code for process is 0.
Open Projects
Browse
Find
Debug
Workbench
Line:10 Col:26 Code:0 Top:1
OVS BLK


File: FirstProgram.java C:\Courses\COP 3330 - OOP\Summer 2010\new sample code\Basic Java Notes - Examples - jGRASP CSD (Java)
File Edit View Build Project Settings Tools Window Help
The compiled class file
All Files
Java Notes - Examples
Echo.java
FirstProgram.class
FirstProgram.java
Greetings.java
GreetingsUsingADialog
InputDialogBoxExample
TestScanner.java
Thing.java
ss FirstProgram - begins here
//Created 5/16/2011 - MJL
public class FirstProgram {
//main method - begins here
public static void main (String args[]) {
System.out.println("Welcome to Java.\n");
System.out.println("Get ready to have some fun!\n");
}//end main method
}//end class FirstProgram
Click the Run icon to execute your program. Execution results appear in the window at the bottom.
Server.java
Client.java
EvacueeQueue.java
Edible.java
Thing.java
FirstProgram.java
Compile Messages
jGRASP Messages
Run I/O
Interactions
End
Clear
Help
Welcome to Java.
Get ready to have some fun!
----jGRASP wedge2: exit code for process is 0.
----jGRASP: operation complete.
Open Projects
Browse
Find
Debug
Workbench
Line:10 Col:26 Code:0 Top:1
OVS BLK

Working From The Command Prompt

Using The Command Prompt

- If you use the command prompt to compile and execute your Java programs, you'll still need an editor in which to create the source code files. I would recommend Notepad++. Notepad++ is available free for download from http://notepad-plus-plus.org.
- The current version is Notepad++ 5.9.
- The remainder of these notes show you how to install Notepad++ and run your Java program from the command prompt.


Notepad++ | 5.9 - Windows Internet Explorer
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notepad++
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Convert Select
Google notepad++
Search More
Sign In
Favorites
Suggested Sites
Free Hotmail
Web Slice Gallery
KeepVid- Download and s...
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Safety Tools
Click here
free as in both "free speech" and "free beer"
Notepad++
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CONTRIBUTION
DONATION
CONTRIBUT
Current Version: 5.9
Notepad++ is a free (as in "free speech" and also as in "free beer") source code editor and Notepad replacement that supports several languages. Running in the MS Windows environment, its use is governed by GPL License.
Based on the powerful editing component Scintilla, Notepad++ is written in C++ and uses pure Win32 API and STL which ensures a higher execution speed and smaller program size. By optimizing as many routines as possible without losing user friendliness, Notepad++ is trying to reduce the world carbon dioxide emissions. When using less CPU power, the PC can throttle down and reduce power consumption, resulting in a greener environment.
You're encouraged to translate Notepad++ into your native tongue if there's not already a translation present in the Binary Translations page. And if you want, help translating Notepad++ official site into your native tongue would be greatly appreciated.
NEWS
Happy April 1st: No don
Scientology cult
04/01/2011 - 23:22
Redirect donations to th
Scientology
04/01/2011 - 00:06
Done
Internet | Protected Mode: Off
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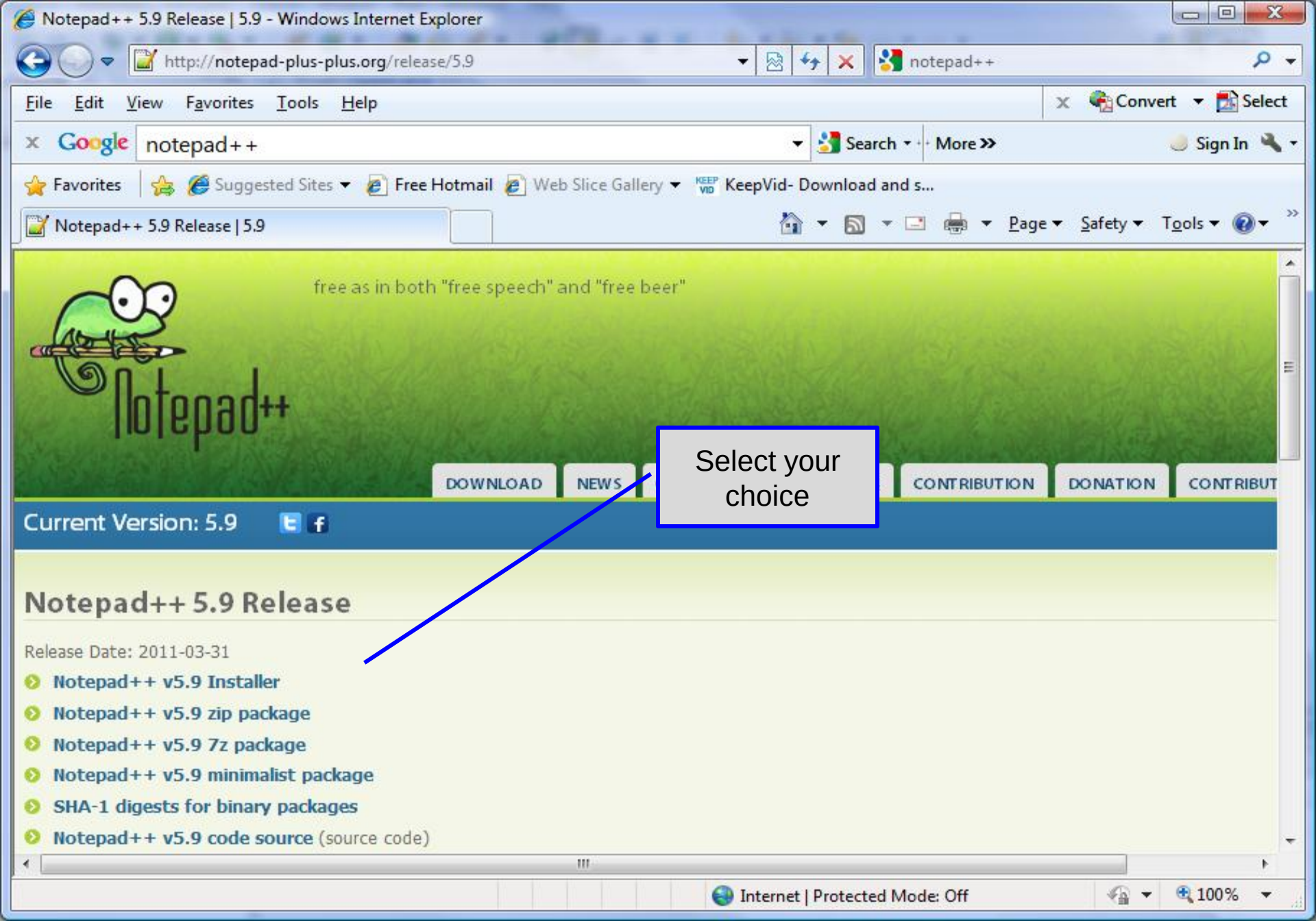
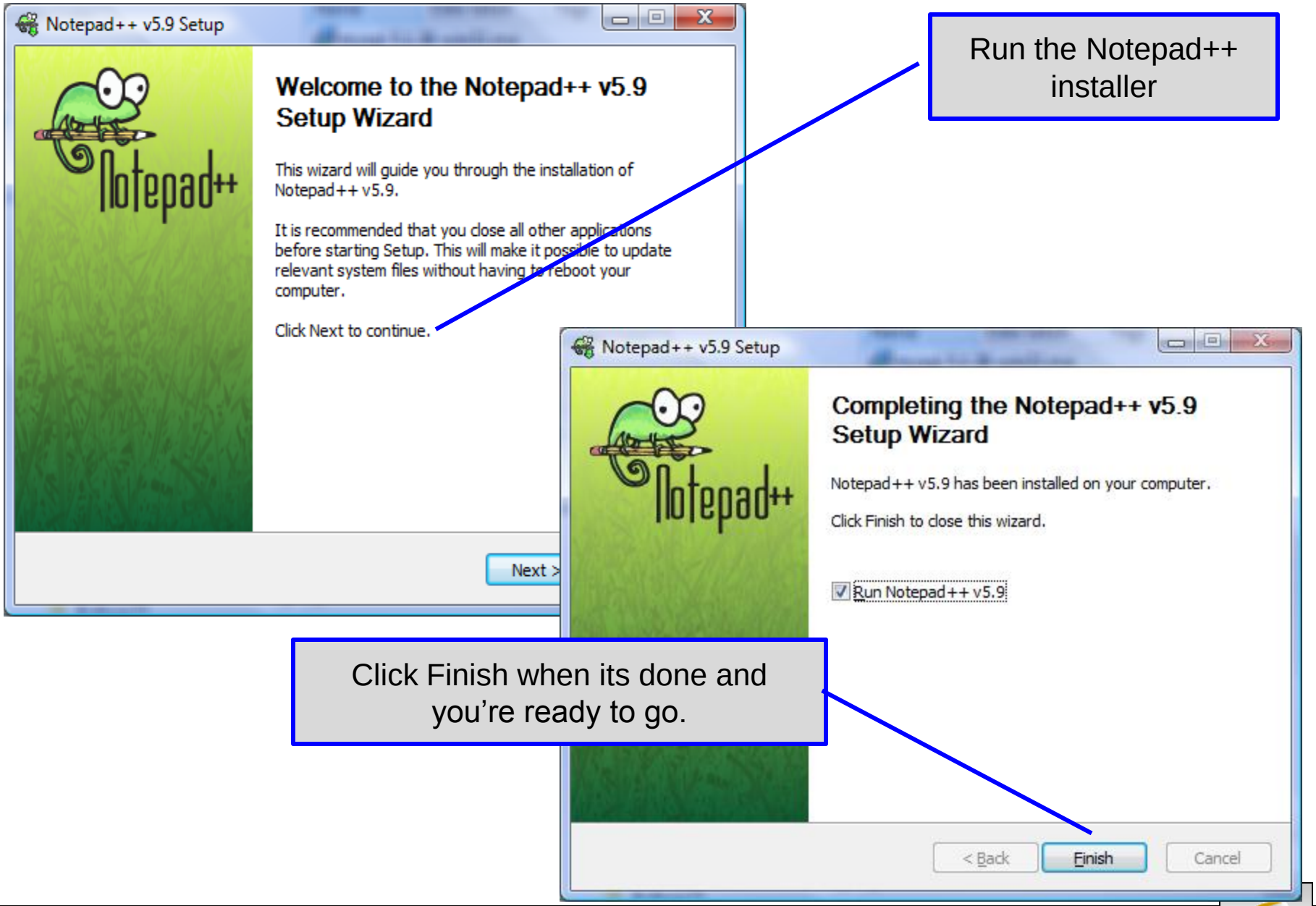
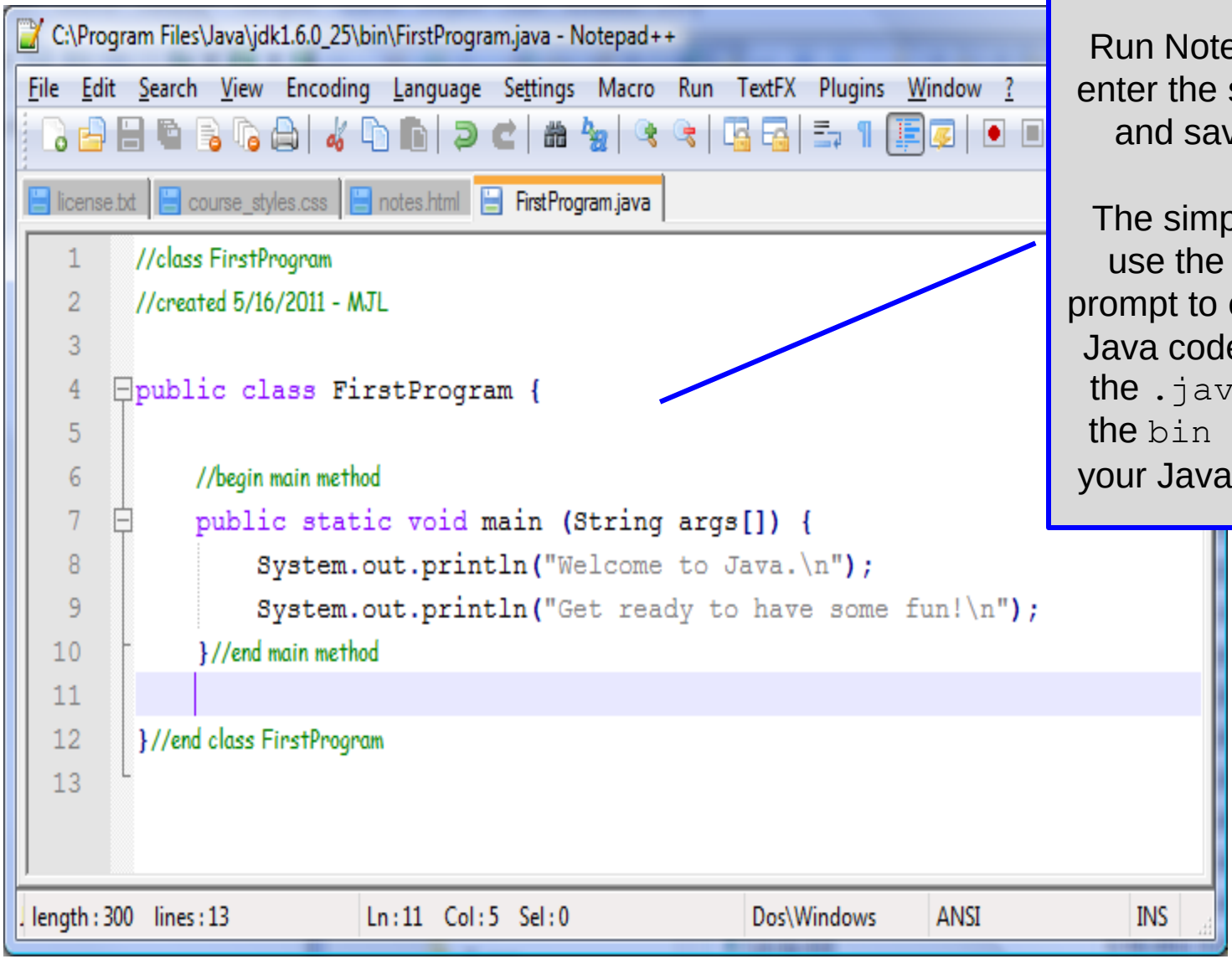
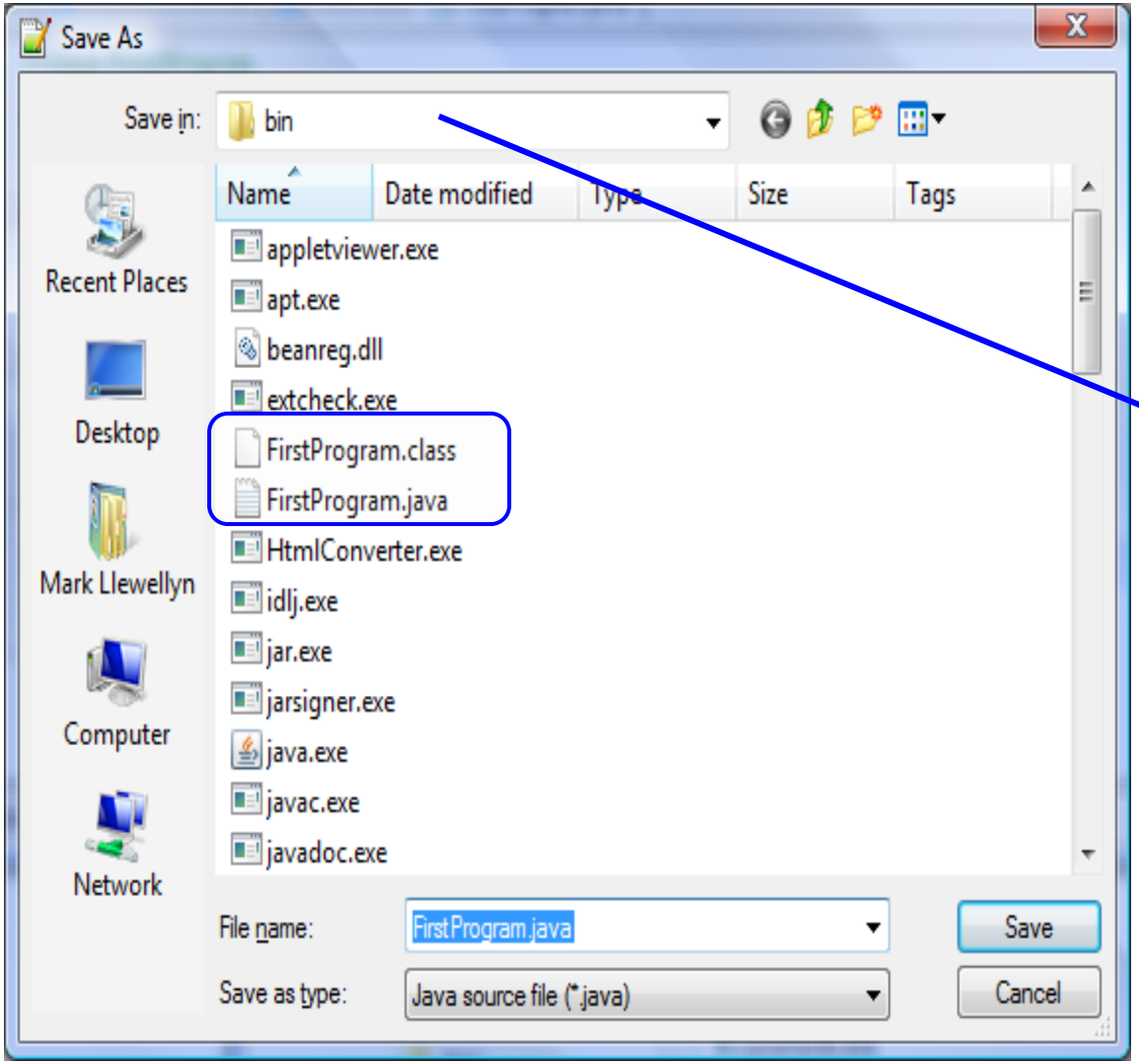

Notepad++ 5.9 Release | 5.9 - Windows Internet Explorer
http://notepad-plus-plus.org/release/5.9
notepad++
File Edit View Favorites Tools Help
Convert Select
Google notepad++
Search More
Sign In
Favorites Suggested Sites Free Hotmail Web Slice Gallery KeepVid- Download and s...
Notepad++ 5.9 Release | 5.9
Page Safety Tools
free as in both "free speech" and "free beer"
Notepad++
DOWNLOAD NEWS CONTRIBUTION DONATION CONTRIBUT
Select your choice
Current Version: 5.9
Notepad++ 5.9 Release
Release Date: 2011-03-31
Notepad++ v5.9 Installer
Notepad++ v5.9 zip package
Notepad++ v5.9 7z package
Notepad++ v5.9 minimalist package
SHA-1 digests for binary packages
Notepad++ v5.9 code source (source code)
Internet | Protected Mode: Off
100%


Notepad++ v5.9 Setup
Welcome to the Notepad++ v5.9 Setup Wizard
This wizard will guide you through the installation of Notepad++ v5.9.
It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
Click Next to continue.
Next >
Run the Notepad++ installer
Notepad++ v5.9 Setup
Completing the Notepad++ v5.9 Setup Wizard
Notepad++ v5.9 has been installed on your computer.
Click Finish to close this wizard.
Run Notepad++ v5.9
< Back
Finish
Cancel
Click Finish when its done and you're ready to go.



Run Notepad++ and enter the source code and save the file.

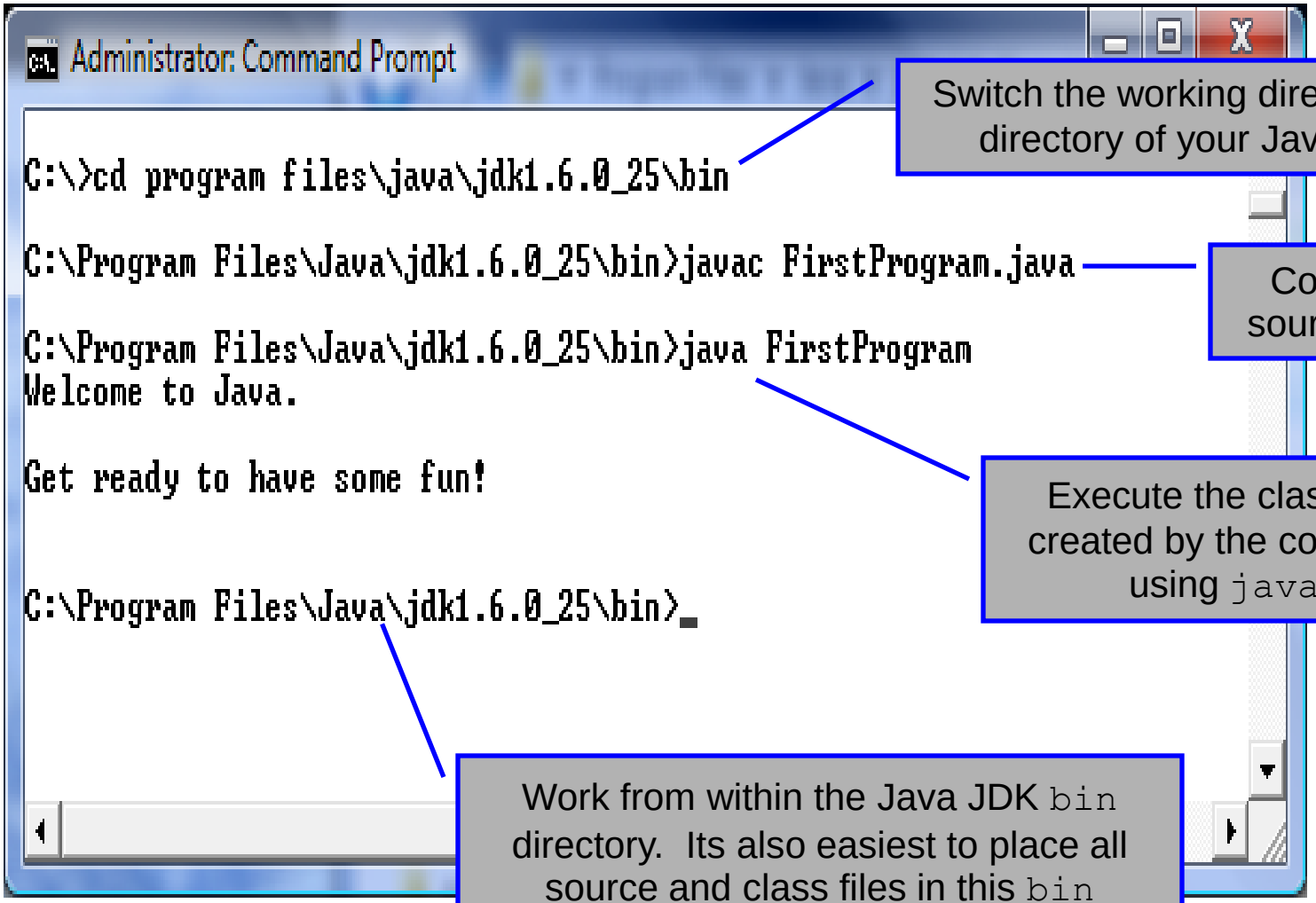
The simplest way to use the command prompt to execute your Java code is to place the `.java` files into the `bin` directory of your Java installation.



The simplest way to use the command prompt to execute your Java code is to place the `.java` files into the `bin` directory of your Java installation.

Once you've done this, start the command prompt and switch the working directory to the `bin` directory of your Java installation (see next page).

Running Java from the Command Prompt



Switch the working directory to the `bin` directory of your Java installation.

Compile the Java source using `javac`

Execute the class file created by the compiler using `java`

Work from within the Java JDK `bin` directory. Its also easiest to place all source and class files in this `bin` directory.