

Installing JDE and Eclipse

Setting up JDE

1) Set up the JDE

- JDE (Java Development Environment)
- Click the link below and you will see the following site:

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

- Click the "Download" button below the JDK section.



*Mac users can follow the link below to see how to set up the JDE in a Mac system.

<http://ishappy.tistory.com/entry/MAC-OS-X-%EC%97%90-JDK-%EC%84%A4%EC%B9%98%ED%95%98%EB%8A%94-%EB%B0%A9%EB%B2%95>



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Java Platform, Standard Edition

Java SE 9.0.4
Java SE 9.0.4 includes important bug fixes. Oracle strongly recommends that all Java SE 9 users upgrade to this release.
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JRE
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Which Java package do I need?

- **Software Developers: JDK** (Java SE Development Kit). For Java Developers. Includes a complete JRE plus tools for developing, debugging, and monitoring Java applications.
- **Administrators running applications on a server: Server JRE** (Server Java Runtime Environment) For deploying Java applications on servers. Includes tools for JVM monitoring and tools commonly required for server applications, but does not include browser integration (the Java plug-in), auto-update, nor an installer. [Learn more](#) 
- **End user running Java on a desktop: JRE**: (Java Runtime Environment). Covers most end-users needs. Contains everything required to run Java applications on your system.

Java SE 8u161/ 8u162

Java SDKs and Tools

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1) Setting up JDE

- Check your computer's OS version and download the corresponding package.
- For Windows, click on "windows-x64_bin"
- MacOS can click on "osx-x64_bin"
- Downloading the package will take roughly about 3 to 4 minutes. (depending on the internet connection)

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Java SE Development Kit 9 Downloads

Thank you for downloading this release of the Java™ Platform, Standard Edition Development Kit (JDK™). The JDK is a development environment for building applications, and components using the Java programming language.

The JDK includes tools useful for developing and testing programs written in the Java programming language and running on the Java platform.

See also:

- [Java Developer Newsletter](#): From your Oracle account, select **Subscriptions**, expand **Technology**, and subscribe to **Java**.
- [Java Developer Day hands-on workshops \(free\) and other events](#)
- [Java Magazine](#)

[JDK 9.0.4 checksum](#)

Java SE Development Kit 9.0.4

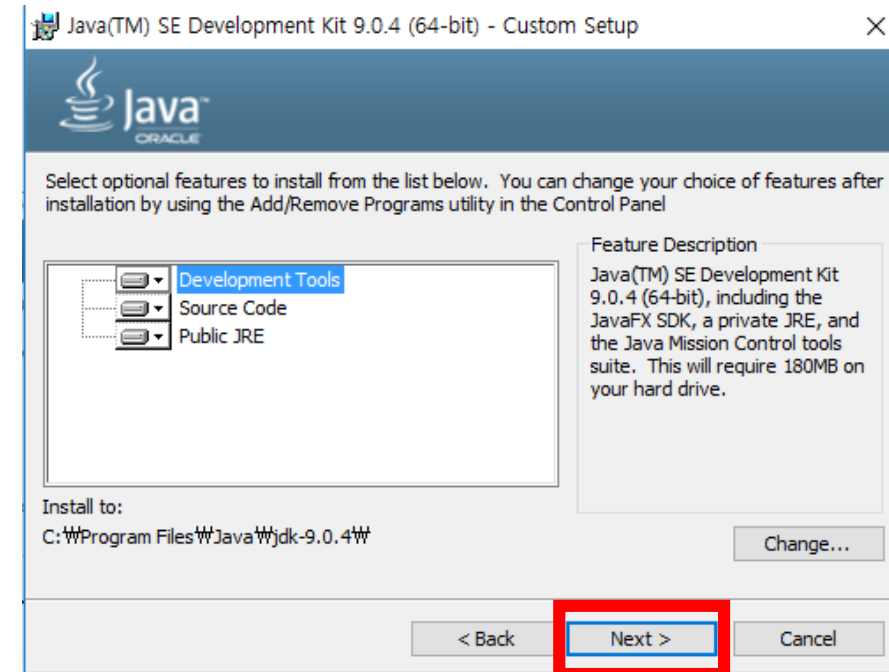
You must accept the [Oracle Binary Code License Agreement for Java SE](#) to download this software.

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Product / File Description	File Size	Download
Linux	305.07 MB	jdk-9.0.4_linux-x64_bin.rpm
Linux	338.21 MB	jdk-9.0.4_linux-x64_bin.tar.gz
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Windows	375.56 MB	jdk-9.0.4_windows-x64_bin.exe
Solaris SPARC	206.97 MB	jdk-9.0.4_solaris-sparcv9_bin.tar.gz

1) Setting up JDE

- Click "Next"
- And you can just keep on clicking "Next". Easy.



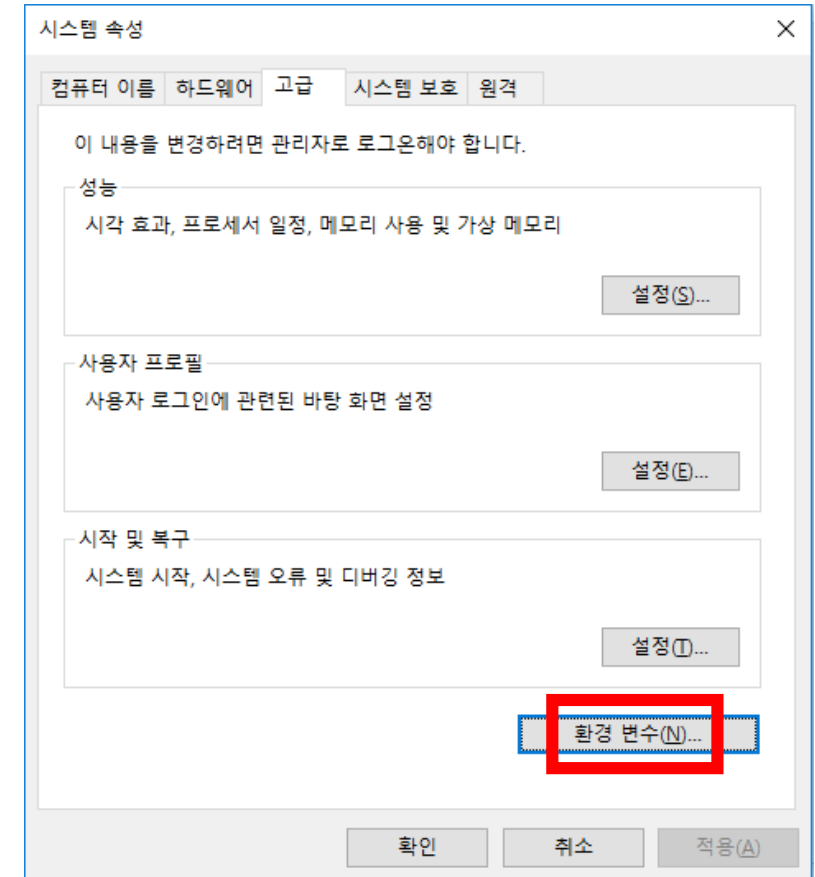
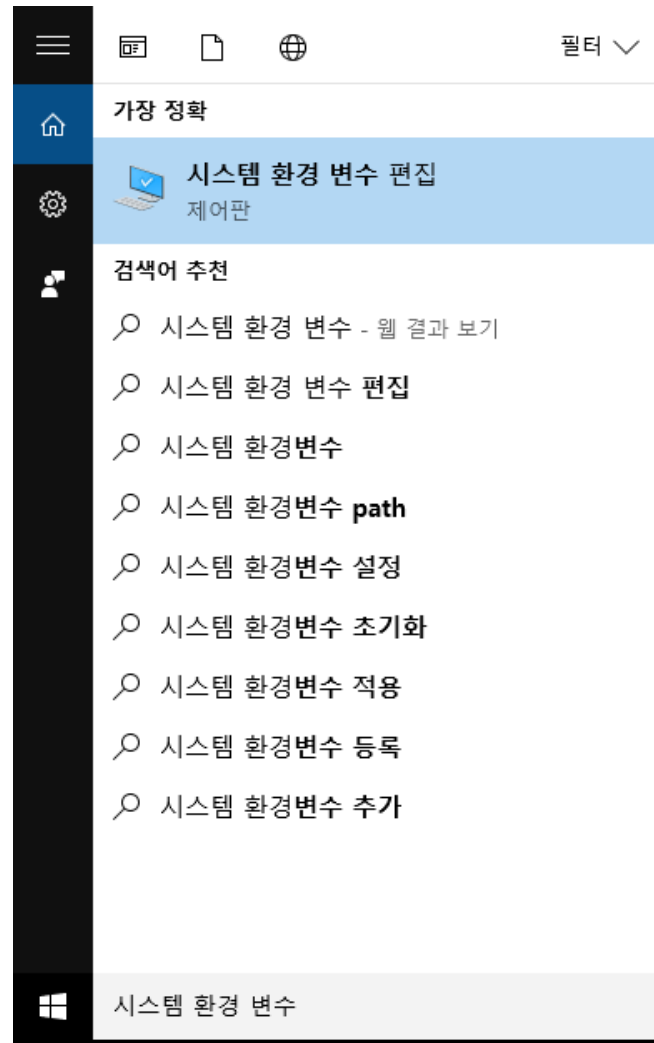
1) Setting up JDE

- Let's uncheck the "Use Java contents on your browser"
- Click "Next" to complete the installation.



1) Setting up JDE

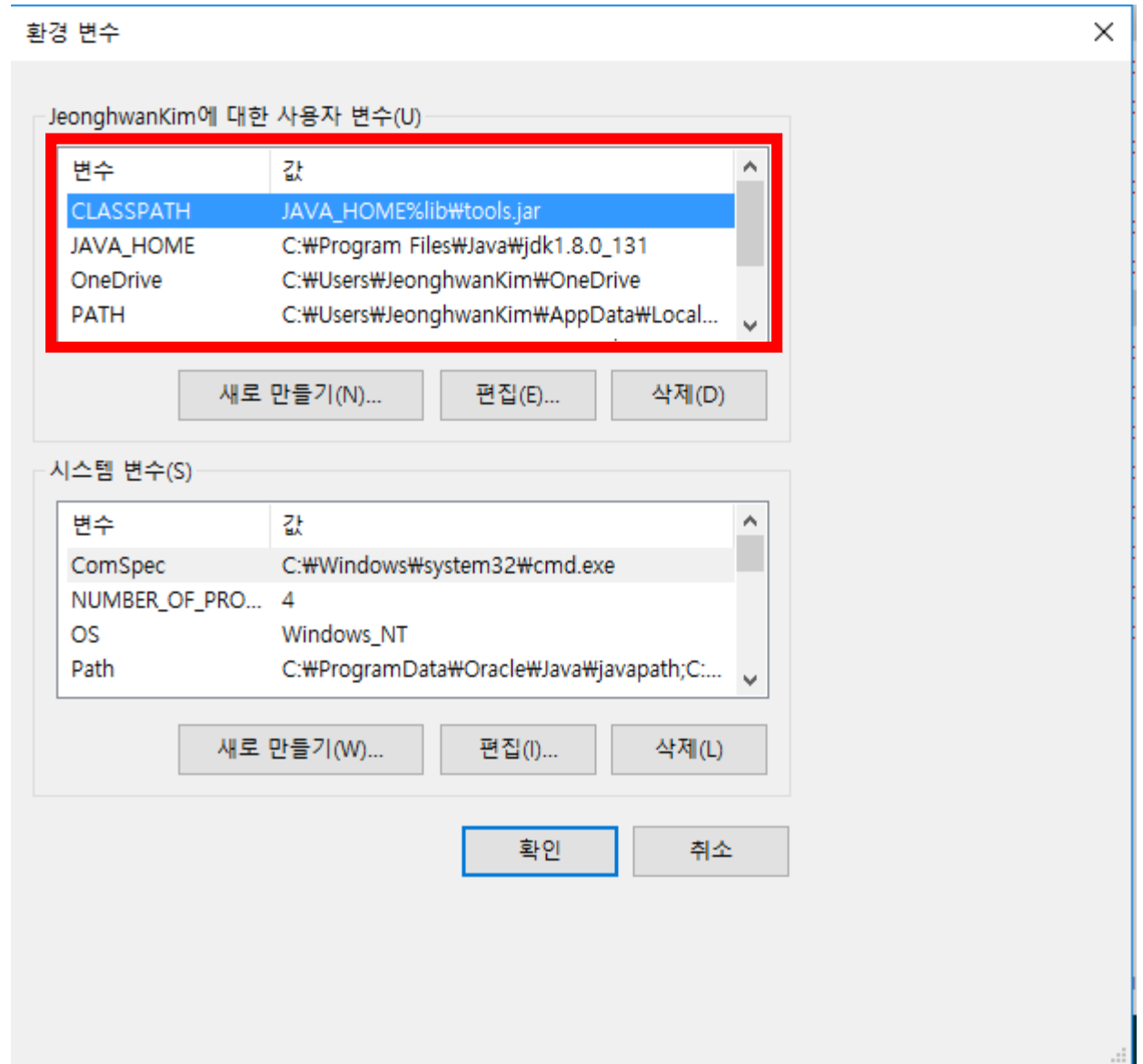
- Type "System Environment Variables" (시스템 환경 변수 편집) in the search bar of your Windows system
- Then you'll see "Properties"
- Click "Environment Variables" under the "Advanced System Settings" column



1) Setting up JDE

- "Environment Variables" will give you the following screen
- Now we add a new environment variable
- CLASSPATH:
 JAVA_HOME%lib\tools.jar
- JAVA_HOME:
 C:\Program Files\Java\jdk-9.0.4

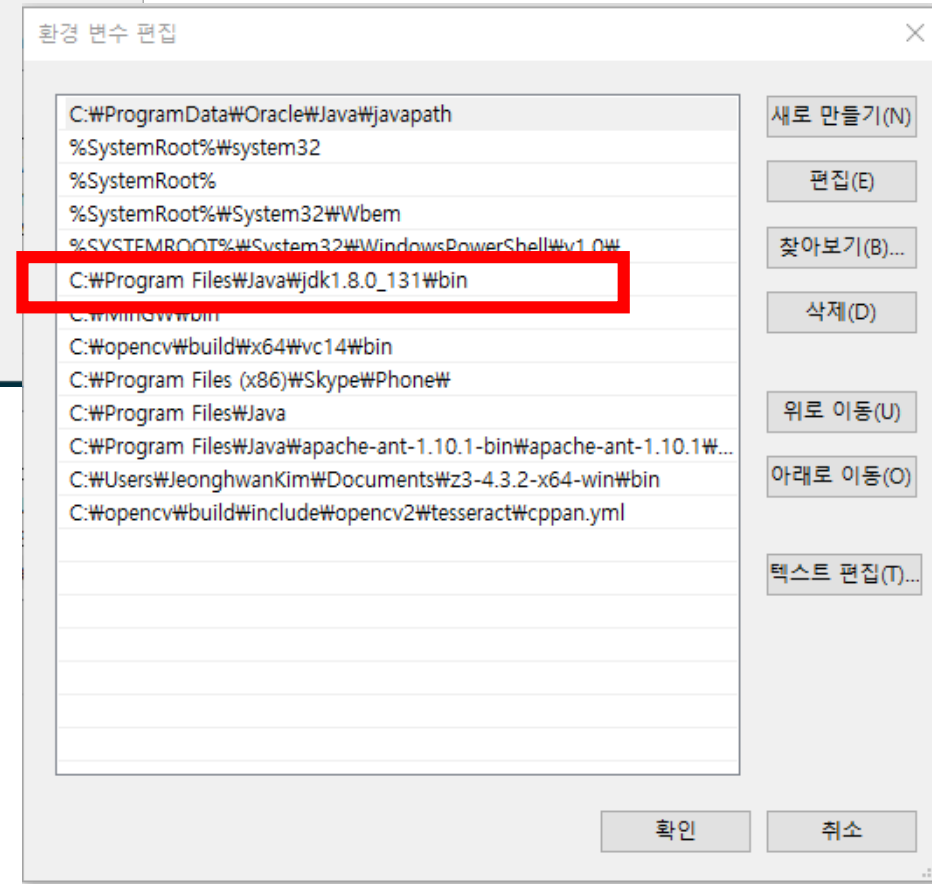
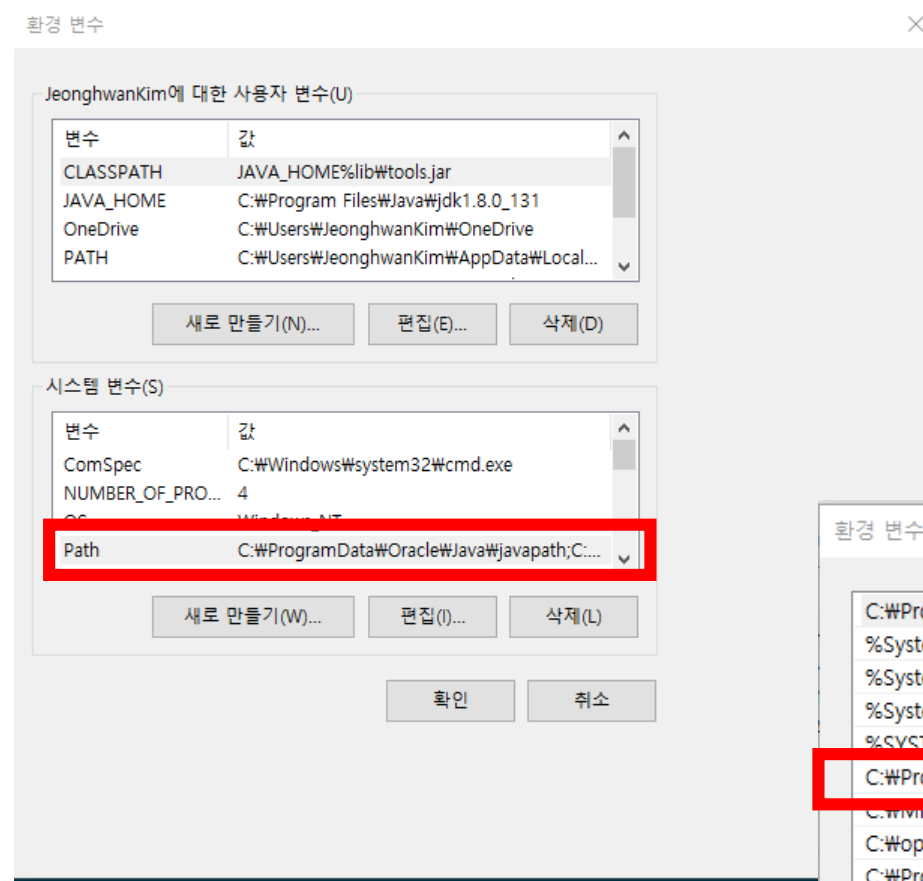
*The newest version of JDK is jdk-9.0.4. The versions may vary depending on what you have installed on your computer.



1) Setting up JDE

- For "Path" in the "System Variables", we give the following value:

C:Program Files\Java\jdk-9.0.4\bin



2) Check if it works

- Type "**java -version**" and "**javac -version**" in the "Command Prompt (cmd)".
- If you see the following screen you are good to go with your JDE.

C:\> 명령 프롬프트

Microsoft Windows [Version 10.0.10586]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\Users\JeonghwanKim>javac -version
javac 9.0.4

C:\Users\JeonghwanKim>java -version
java version "9.0.4"
Java(TM) SE Runtime Environment (build 9.0.4+11)
Java HotSpot(TM) 64-Bit Server VM (build 9.0.4+11, mixed mode)

C:\Users\JeonghwanKim>

Setting up Eclipse

1) Setting up Eclipse

- Eclipse IDE(Integrated Development Env.)
- Follow the link below and you'll see the following screen:

<https://eclipse.org/downloads/eclipse-packages/>

- Download a 64-bit or 32-bit Eclipse IDE depending on the version of your Windows OS

*Mac users can follow the link below to see how to install Eclipse on Mac:

<http://mirwebma.tistory.com/3>

Eclipse Oxygen.2 (4.7.2) Release for Windows

Try the Eclipse **Installer**
The easiest way to install and update your Eclipse Development Environment.
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Eclipse IDE for Java EE Developers
331 MB 300,040 DOWNLOADS
Tools for Java developers creating Java EE and Web applications, including a Java IDE, tools for Java EE, JPA, JSF, Mylyn...
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JRebel for Eclipse IDE
See Java Code Changes Instantly. Save Time. Reduce Stress. Finish Projects Faster!
Promoted Download

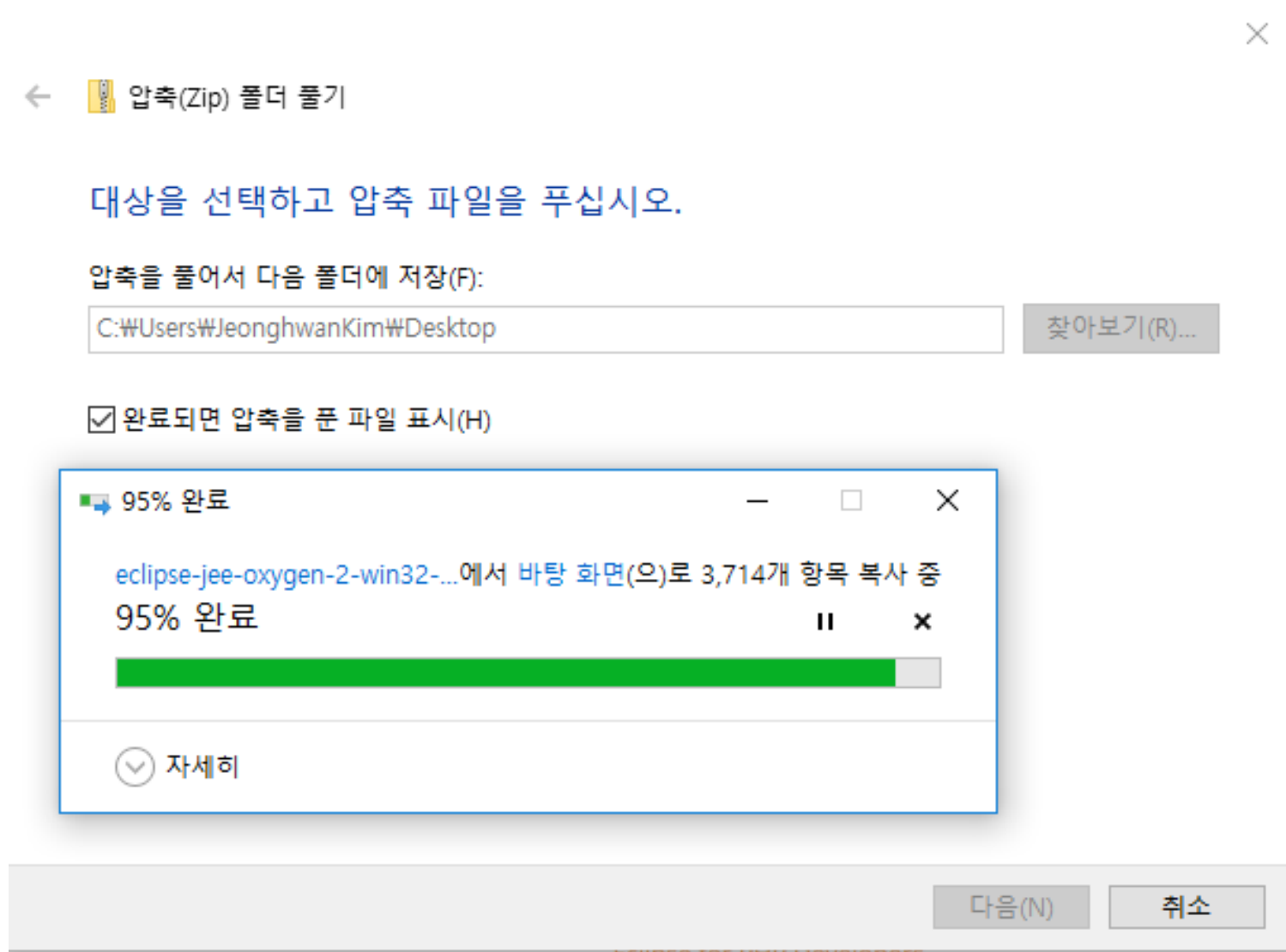
Eclipse IDE for Java Developers
181 MB 155,368 DOWNLOADS
The essential tools for any Java developer, including a Java IDE, a Git client, XML Editor, Mylyn, Maven and Gradle integration...
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32 bit | 64 bit

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204 MB 46,625 DOWNLOADS
An IDE for C/C++ developers with Mylyn integration.
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Eclipse for PHP Developers
197 MB 22,235 DOWNLOADS
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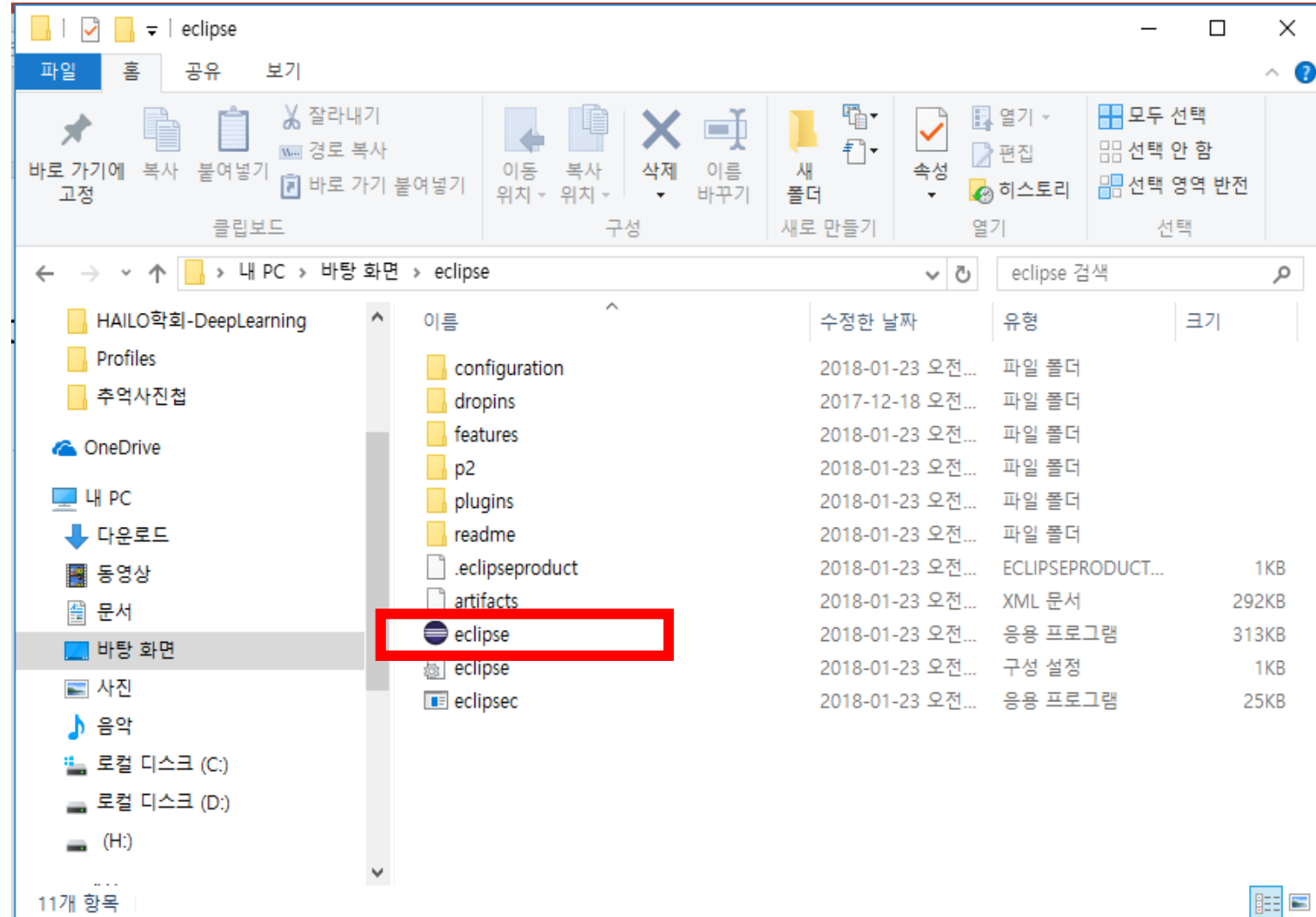
1) Setting up Eclipse

- Unzip the downloaded Eclipse file in a desired directory.
- I recommend you unzip the directory to the Background or an **easily accessible directory**.



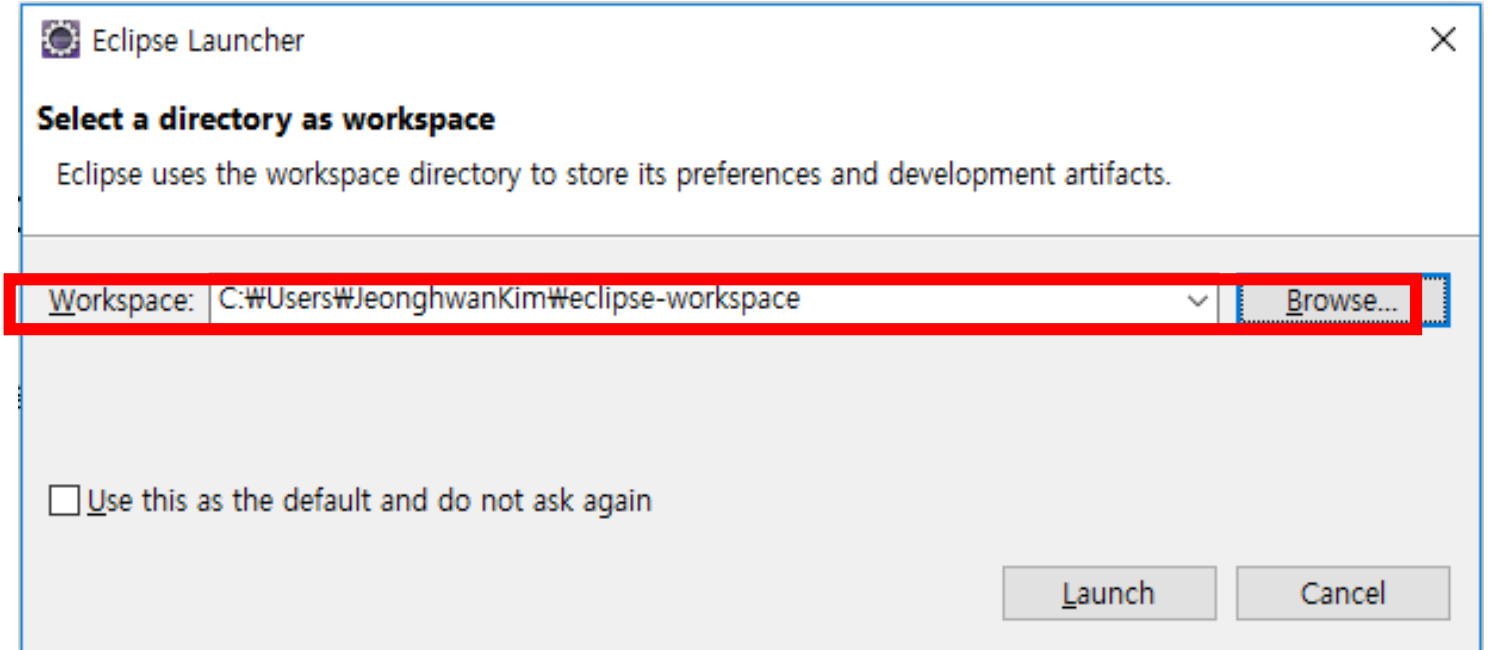
1) Setting up Eclipse

- Click on the "Eclipse" folder and the purple "eclipse" icon to execute the program.
- If you see the following screen below, "Eclipse" is good to go on your system.



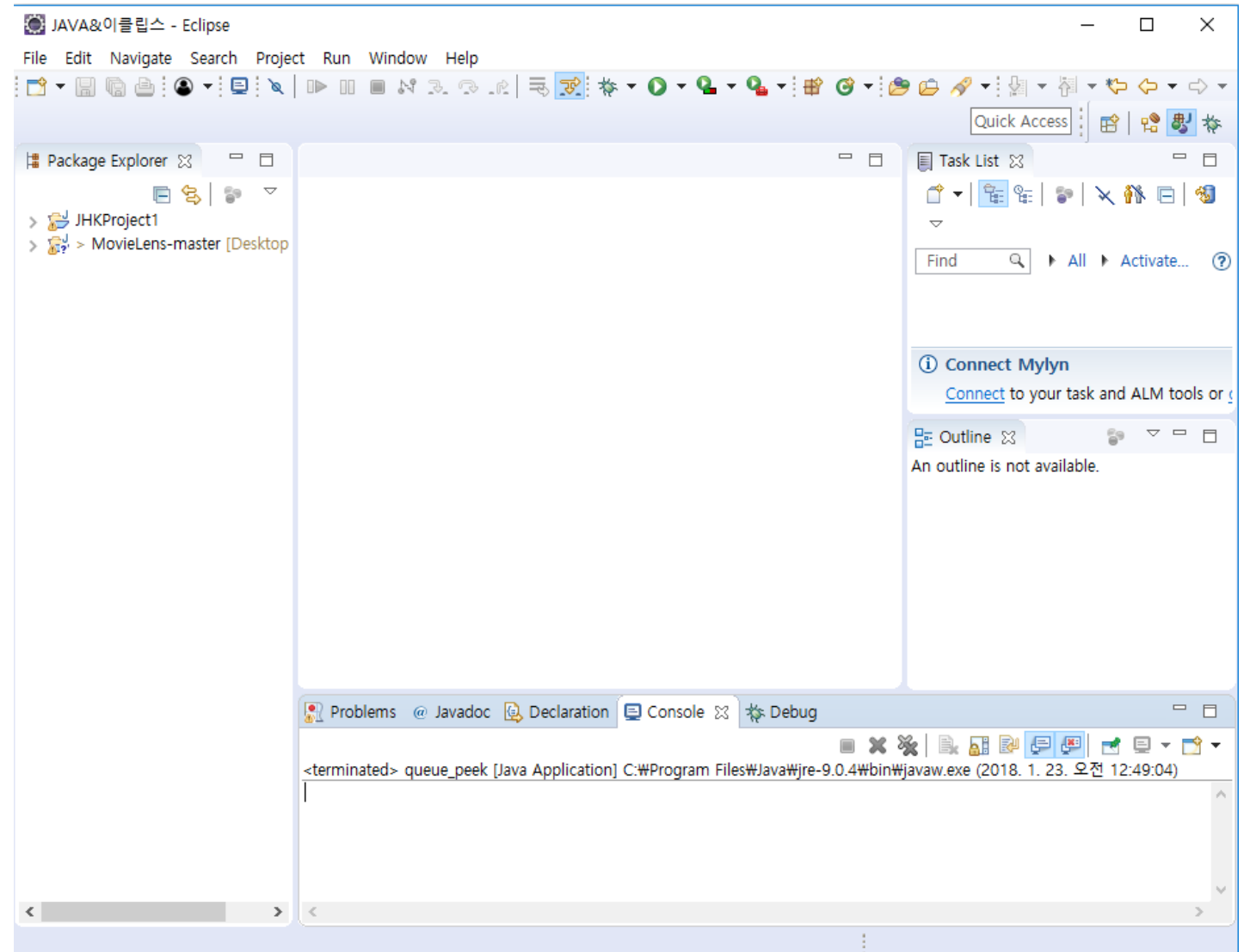
1) Setting up Eclipse

- "Workspace" is where your source codes and related files are stored.
- You can either put it in a folder in the Background or an easily accessible folder of your own.



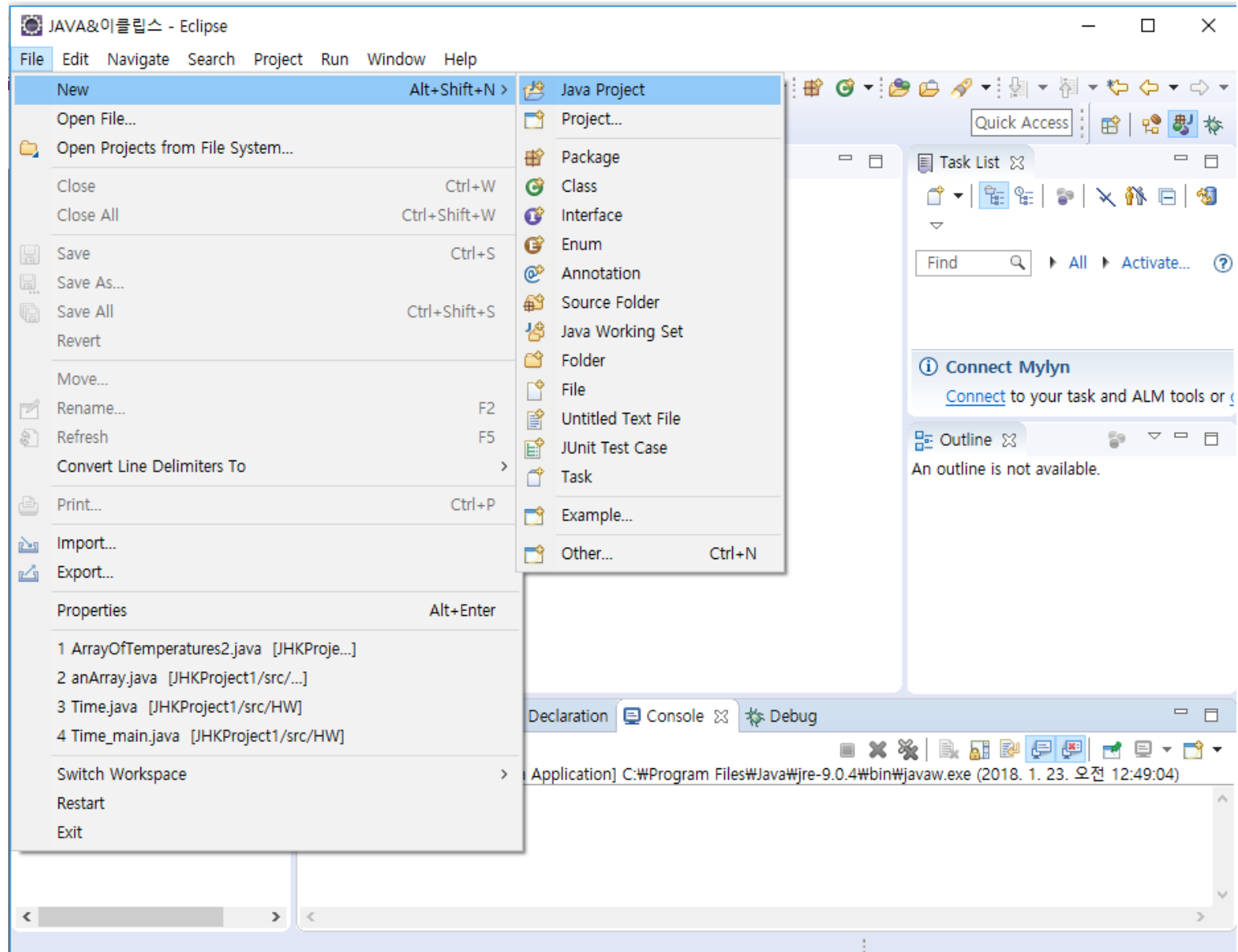
1) Setting up Eclipse

- If you see the following screen, then **you can now start coding in Java.**



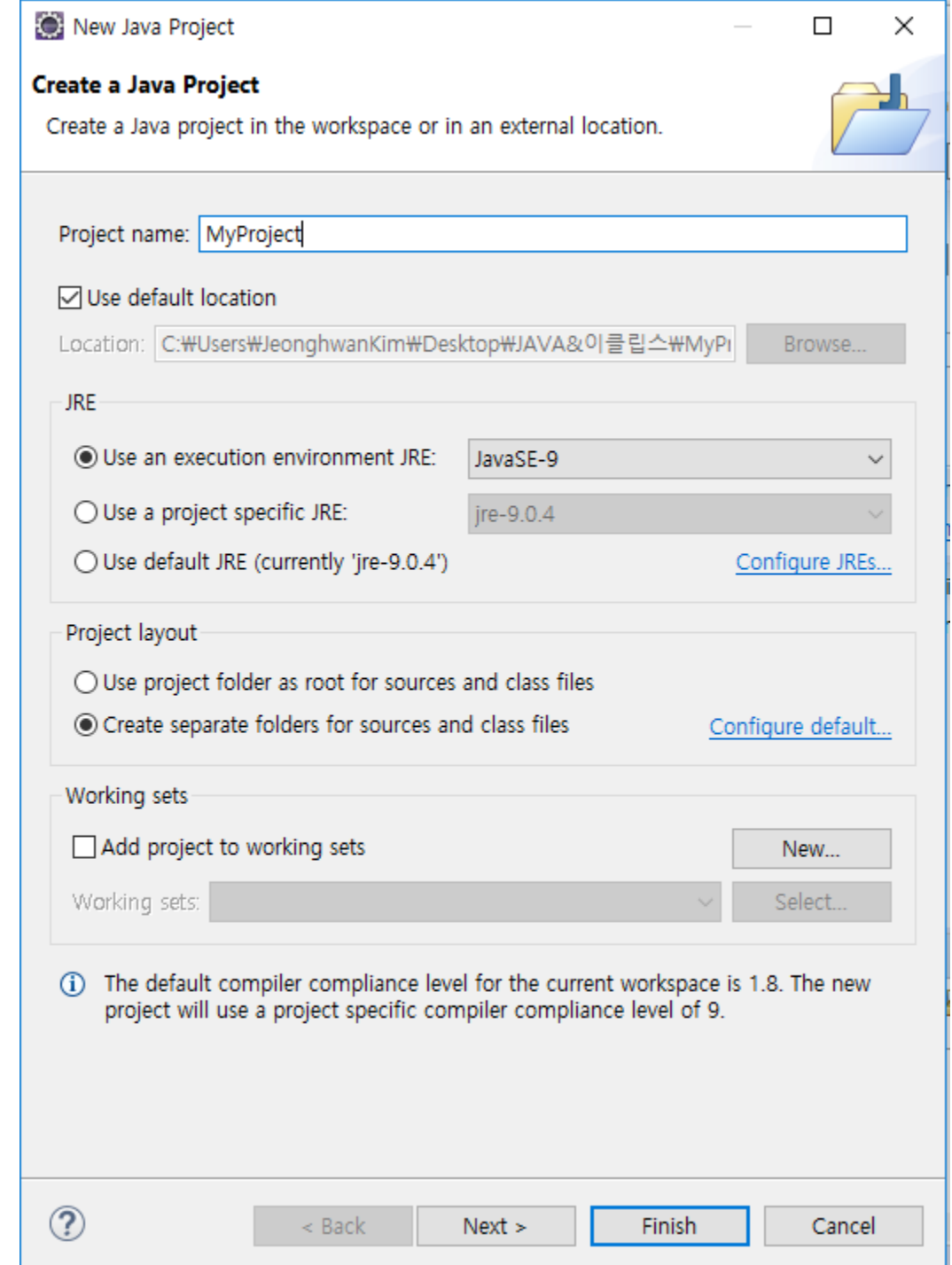
2) "Hello, eclipse!"

- This is a very simple example
- Putting "Hello, eclipse!" on your console
- First, create a **new project** as you see on the following screen.



2) "Hello, eclipse!"

- Enter your own project name to "Project name" (i.e. MyProject)
- Click "Finish" to create your own project.



The screenshot shows the 'New Java Project' dialog box in the Eclipse IDE. The title bar reads 'New Java Project'. The main heading is 'Create a Java Project', followed by the instruction 'Create a Java project in the workspace or in an external location.' and a folder icon.

The 'Project name' field contains 'MyProject'.

The 'Use default location' checkbox is checked. The 'Location' field shows the path 'C:\Users\JeonghwanKim\Desktop\JAVA&이클립스\MyPi', with a 'Browse...' button to its right.

The 'JRE' section has three radio buttons: 'Use an execution environment JRE:' (selected), 'Use a project specific JRE:', and 'Use default JRE (currently 'jre-9.0.4')'. The first option has a dropdown menu showing 'JavaSE-9'. The second option has a dropdown menu showing 'jre-9.0.4'. A 'Configure JREs...' link is to the right of the third option.

The 'Project layout' section has two radio buttons: 'Use project folder as root for sources and class files' and 'Create separate folders for sources and class files' (selected). A 'Configure default...' link is to the right of the second option.

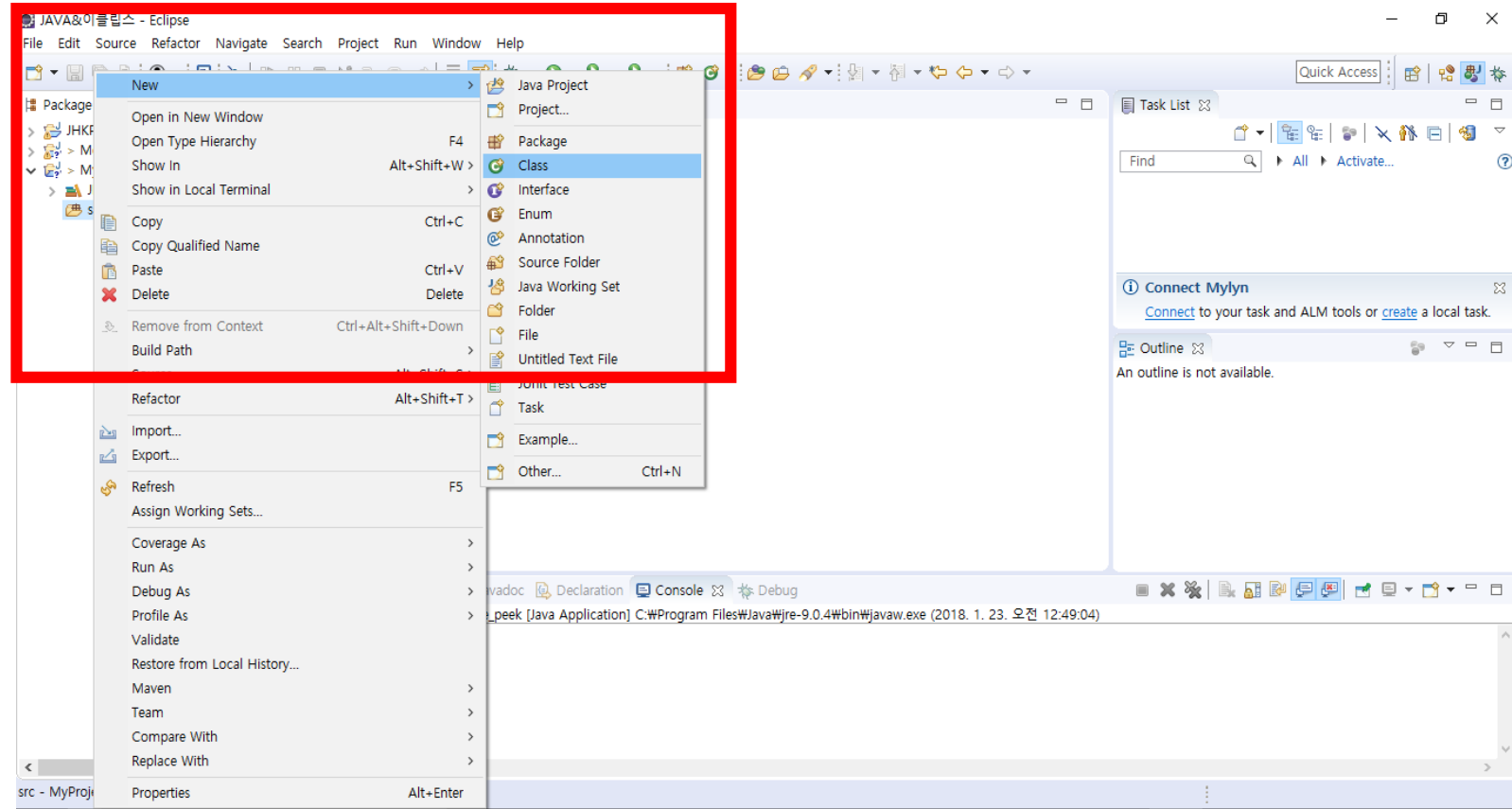
The 'Working sets' section has a checkbox 'Add project to working sets' (unchecked) and a 'New...' button. Below it, the 'Working sets:' label is followed by a dropdown menu and a 'Select...' button.

An information icon (i) is followed by the text: 'The default compiler compliance level for the current workspace is 1.8. The new project will use a project specific compiler compliance level of 9.'

The bottom of the dialog has a help icon (?), and four buttons: '< Back', 'Next >', 'Finish' (highlighted with a blue border), and 'Cancel'.

2) "Hello, eclipse!"

- Below "MyProject", click the "src" folder with a right mouse click.
- Create a new class by selecting the "Class" section.



2) "Hello, eclipse!"

- Type in "HelloEclipse" in "Name", and this will be the class name.
- Check the "Public static void main(String[] args)" box.
- Then you'll see an automatically created "main function".

New Java Class

Java Class

⚠ The use of the default package is discouraged.

Source folder: MyProject/src Browse...

Package: (default) Browse...

☐ Enclosing type: Browse...

Name: HelloEclipse

Modifiers: ☒ public ☐ package ☐ private ☐ protected
☐ abstract ☐ final ☐ static

Superclass: java.lang.Object Browse...

Interfaces: Add... Remove

Which method styles would you like to create?

☒ public static void main(String[] args)

☐ Constructors from superclass

☒ Inherited abstract methods

Do you want to add comments? (Configure templates and default value [here](#))

☐ Generate comments

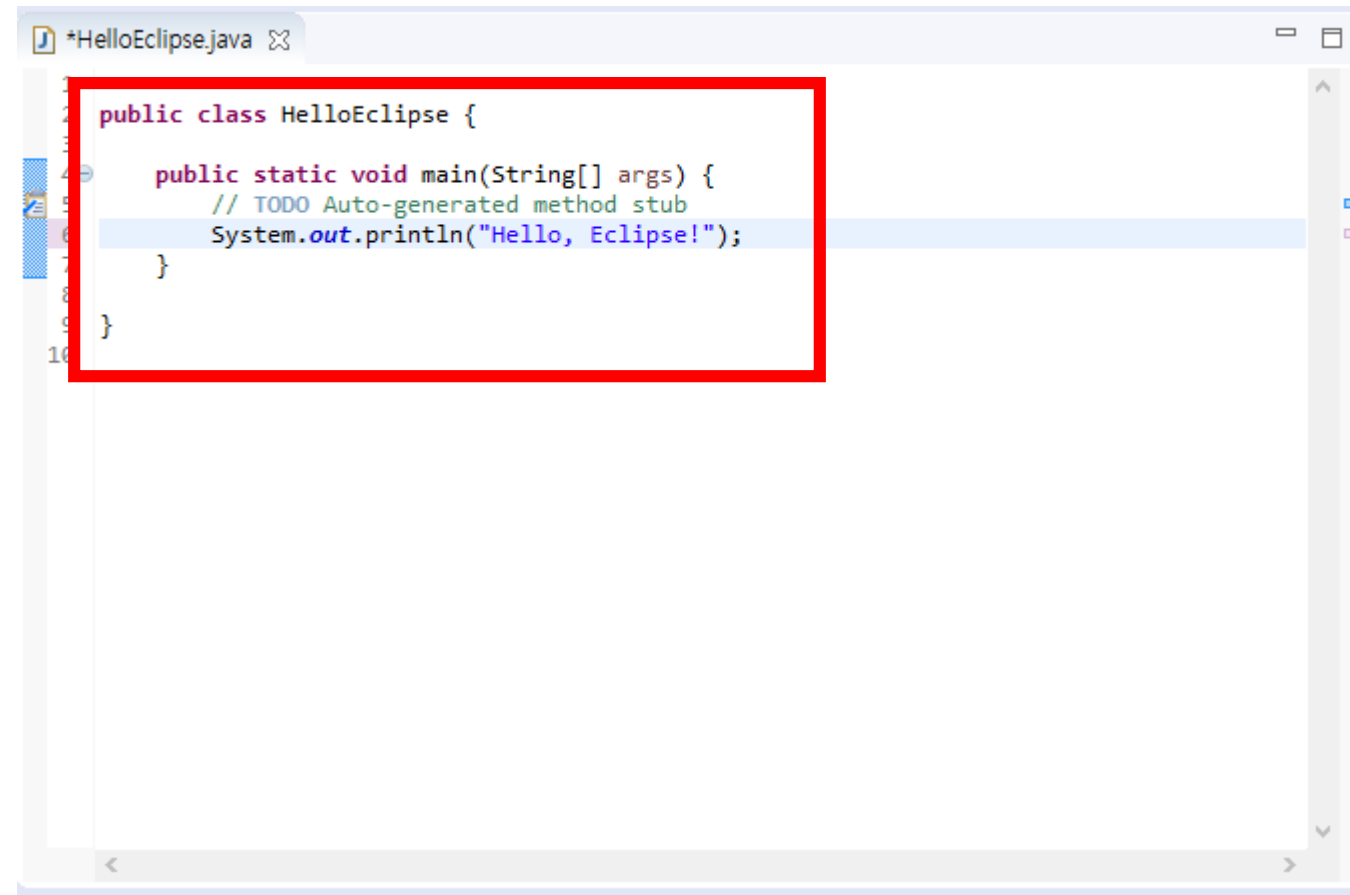
? Finish Cancel

2) "Hello, eclipse!"

- Enter the following line within the main function:

`System.out.println("Hello, Eclipse!");`

*This is the same as "printf()" function in C.

A screenshot of a Java IDE window titled '*HelloEclipse.java'. The code is as follows:

```
1 public class HelloEclipse {  
2  
3     public static void main(String[] args) {  
4         // TODO Auto-generated method stub  
5         System.out.println("Hello, Eclipse!");  
6     }  
7  
8 }  
9  
10
```

The line `System.out.println("Hello, Eclipse!");` is highlighted in blue and enclosed in a red rectangular box.

2) "Hello, eclipse!"

- If you click the green "Execute" button below, it will automatically compile and execute the code.
- In the below console, you will see the result saying, "Hello, Eclipse!"; if you did everything right.

