

프로그래밍 언어 활용

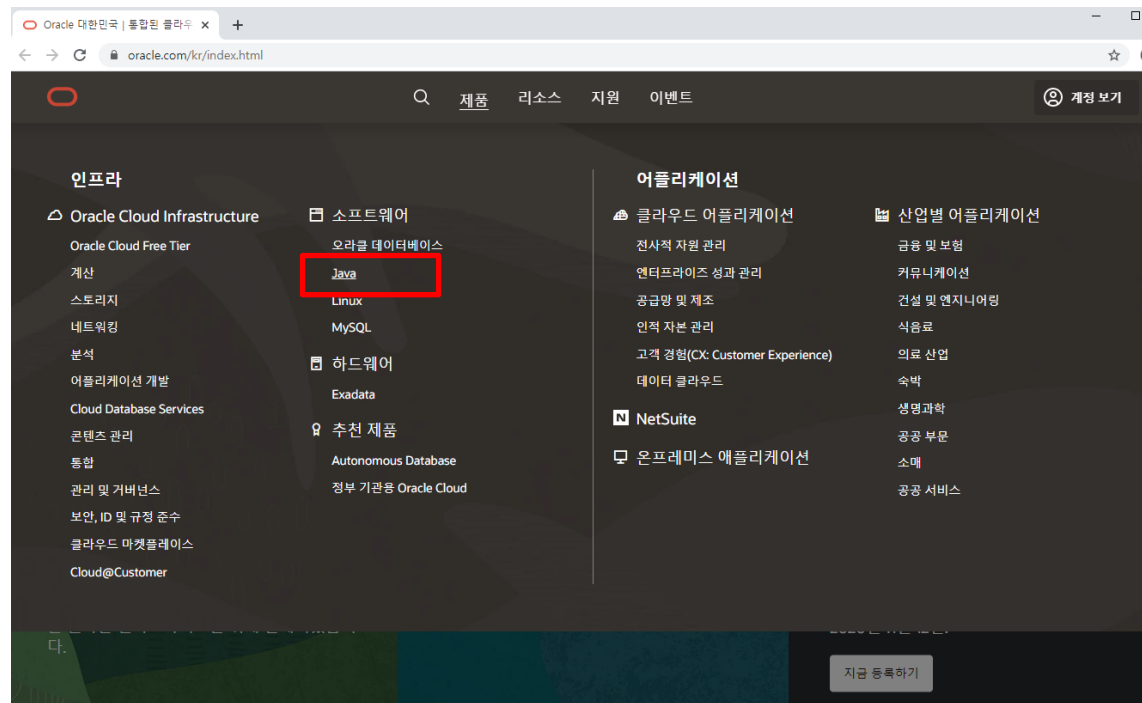
자바 프로그래밍을 위한 개발환경

수행 순서

1. JDK 설치
2. Eclipse 다운로드/설치 및 Workspace 설정
3. "HelloWorld" 출력

1) JDK 설치

1. Oracle 웹사이트 (<https://www.oracle.com>)에 접속 후, 상단 제품 메뉴를 클릭하여 Java를 클릭한다.



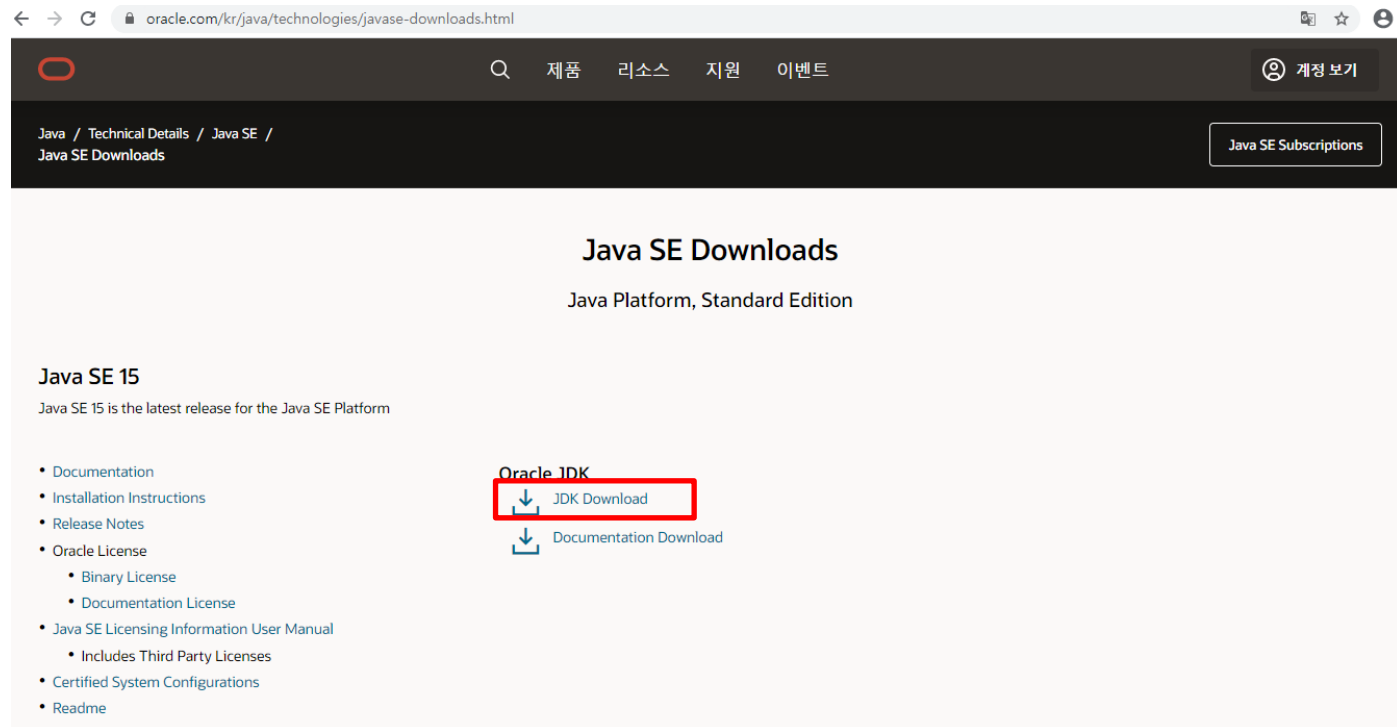
1) JDK 설치

2. Java 다운로드 버튼을 클릭한다.



1) JDK 설치

3. 현재 시점으로 최신 버전인 Java SE 15 버전으로 자바 개발을 위한 프로그램인 JDK Download를 클릭한다.



1) JDK 설치

4. OS 별로 다운받을 수 있는 링크들이 나오는데 환경에 맞는 OS를 선택해서 다운받는다.

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Product / File Description	File Size	Download
Linux ARM 64 RPM Package	141.81 MB	jdk-15.0.1_linux-aarch64_bin.rpm
Linux ARM 64 Compressed Archive	157.01 MB	jdk-15.0.1_linux-aarch64_bin.tar.gz
Linux x64 Debian Package	154.79 MB	jdk-15.0.1_linux-x64_bin.deb
Linux x64 RPM Package	162.02 MB	jdk-15.0.1_linux-x64_bin.rpm
Linux x64 Compressed Archive	179.33 MB	jdk-15.0.1_linux-x64_bin.tar.gz
macOS Installer	175.94 MB	jdk-15.0.1_osx-x64_bin.dmg
macOS Compressed Archive	176.53 MB	jdk-15.0.1_osx-x64_bin.tar.gz
Windows x64 Installer	159.69 MB	jdk-15.0.1_windows-x64_bin.exe
Windows x64 Compressed Archive	179.27 MB	jdk-15.0.1_windows-x64_bin.zip

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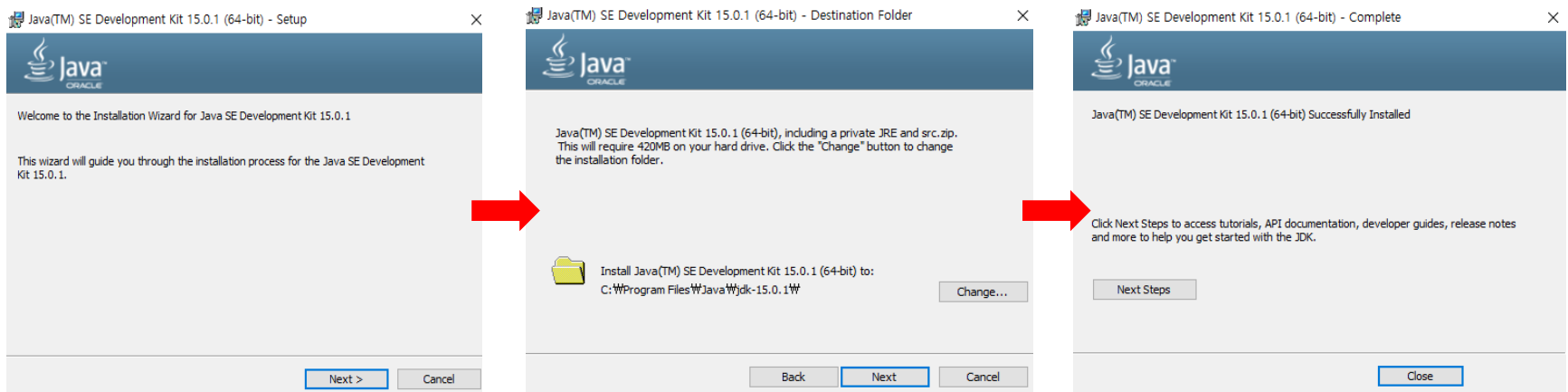
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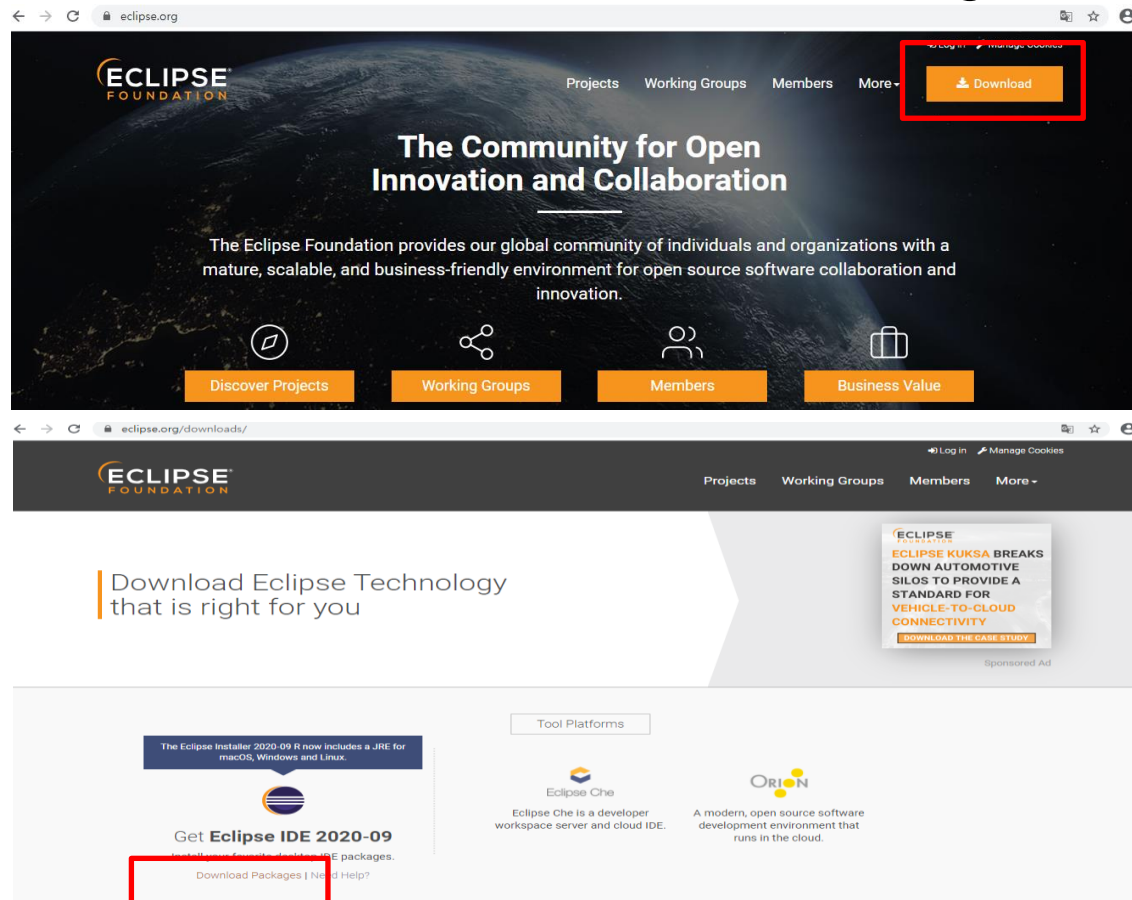
1) JDK 설치

5. 다운로드가 완료되면 파일을 실행하면 실행창이 나오고 별다른 변경 없이 Next버튼을 누른다. 설치가 완료되면 Close버튼을 눌러 종료한다.



2) Eclipse 다운로드/설치

1. Eclipse 웹사이트 (<https://www.eclipse.org/>)에 접속 후, 오른쪽 상단에 있는 Download 버튼을 클릭 후 Download Packages를 클릭한다.



2) Eclipse 다운로드/설치

2. Enterprise Java Developers 아래 현재 운영체제에 맞는 실행파일을 다운로드를 한다.

The Eclipse Installer 2020-09 R now includes a JRE for macOS, Windows and Linux.

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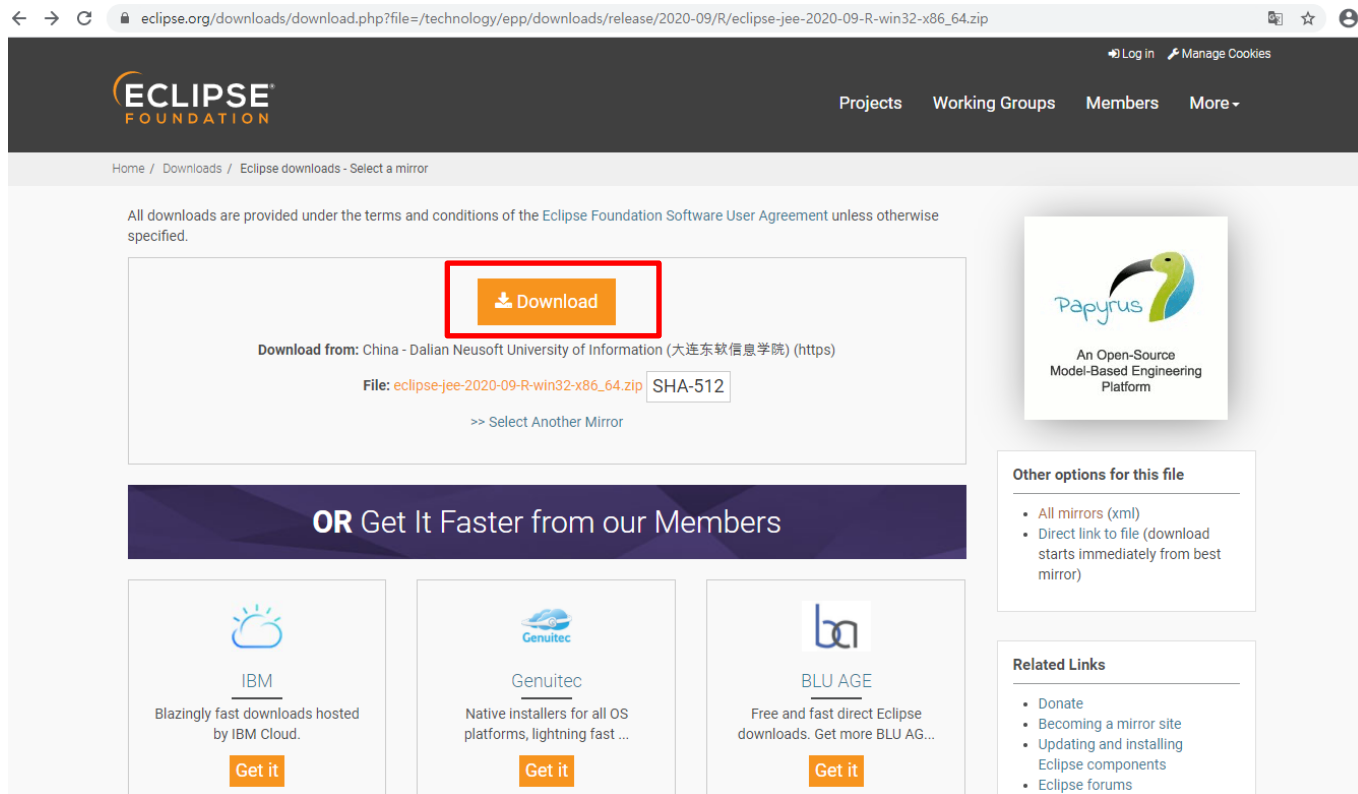
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2) Eclipse 다운로드/설치

3. Download버튼을 클릭한다. Select Another Mirror를 클릭하면 원하는 국가의 서버를 다운받을 수 있다.



The screenshot shows the Eclipse Foundation website's download page. The browser address bar displays the URL: `eclipse.org/downloads/download.php?file=/technology/epp/downloads/release/2020-09/R/eclipse-jee-2020-09-R-win32-x86_64.zip`. The page header includes the Eclipse Foundation logo and navigation links: Projects, Working Groups, Members, and More. Below the header, a breadcrumb trail reads: Home / Downloads / Eclipse downloads - Select a mirror. A disclaimer states: "All downloads are provided under the terms and conditions of the Eclipse Foundation Software User Agreement unless otherwise specified." The main content area features a large orange "Download" button with a download icon, which is highlighted by a red rectangle. Below this button, the text reads: "Download from: China - Dalian Neusoft University of Information (大连东软信息学院) (https)". The file name "eclipse-jee-2020-09-R-win32-x86_64.zip" and the SHA-512 hash "SHA-512" are displayed. A link ">> Select Another Mirror" is provided. To the right of the main content, there is a section for "Papyrus" (An Open-Source Model-Based Engineering Platform) and a section titled "Other options for this file" with links to "All mirrors (xml)" and "Direct link to file (download starts immediately from best mirror)". At the bottom, a dark blue banner reads "OR Get It Faster from our Members". Below this banner, three member logos are shown: IBM (Blazingly fast downloads hosted by IBM Cloud), Genuitec (Native installers for all OS platforms, lightning fast ...), and BLU AGE (Free and fast direct Eclipse downloads. Get more BLU AG...). Each member section has a "Get it" button. A "Related Links" section at the bottom right includes links to "Donate", "Becoming a mirror site", "Updating and installing Eclipse components", and "Eclipse forums".

eclipse.org/downloads/download.php?file=/technology/epp/downloads/release/2020-09/R/eclipse-jee-2020-09-R-win32-x86_64.zip

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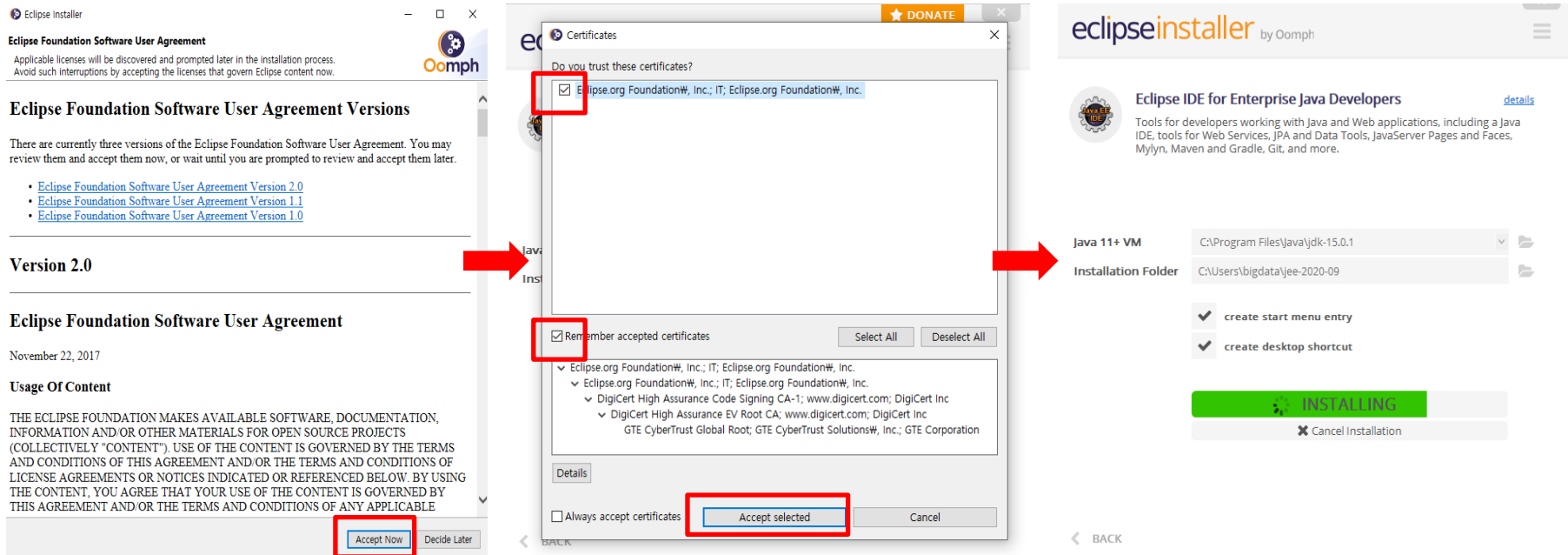
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Related Links

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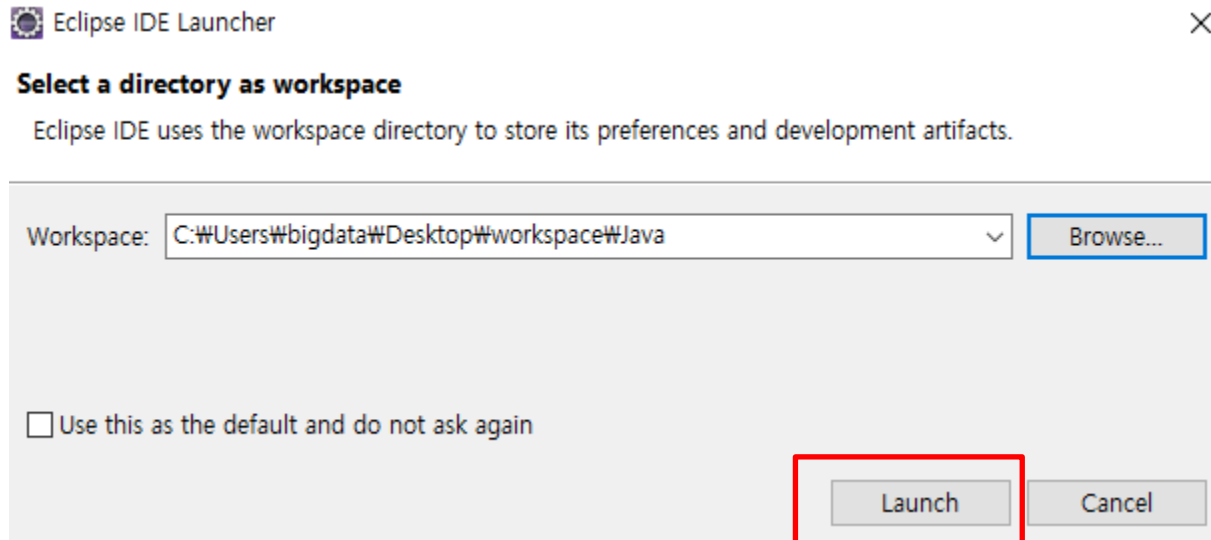
2) Eclipse 다운로드/설치

4. 다운로드가 완료 되면 Eclipse 압축 파일을 풀고 설치파일을 실행하면 Accept Now를 클릭한다. 설치가 진행되는 동안 동의여부를 물어보는데, 동의에 체크하고 계속 진행한다.



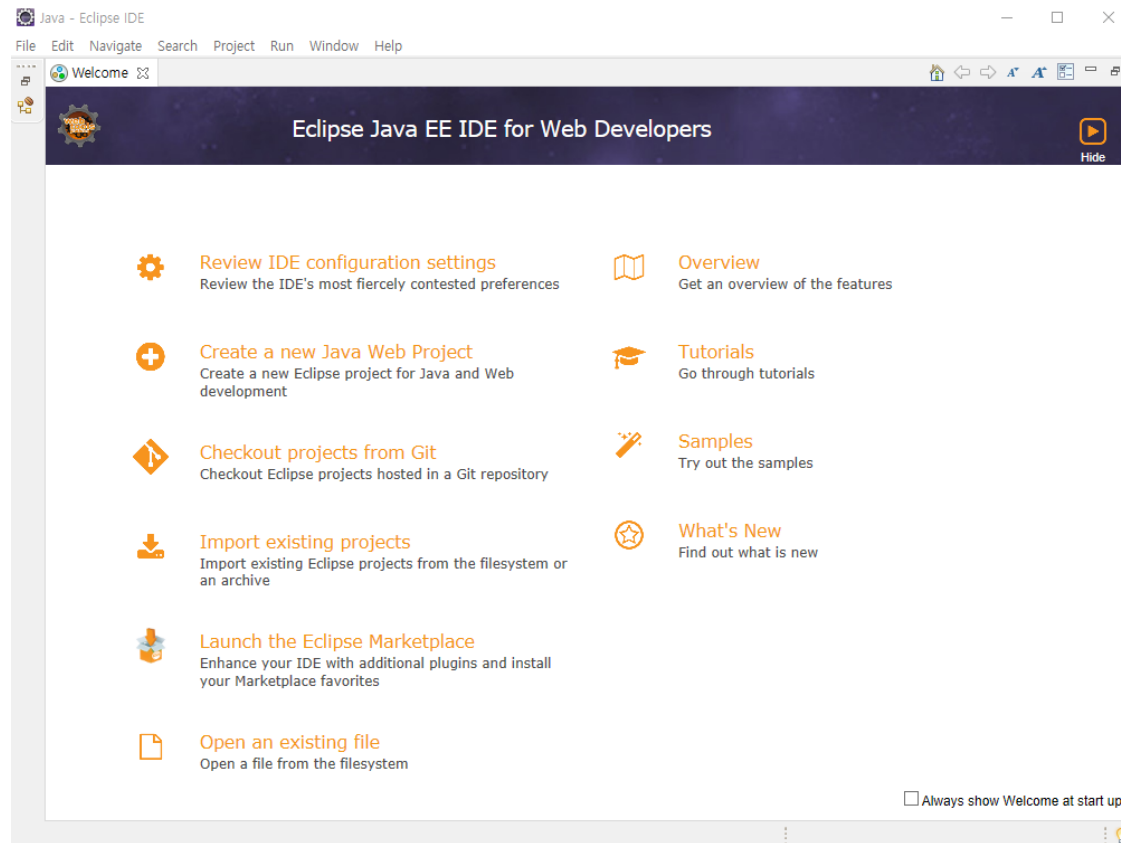
2) Workspace 설정

5. 설치가 완료된 후 Launch버튼을 클릭해 이클립스를 실행한다. 이클립스를 실행되면 아래와 같이 workspace 디렉토리를 선택하라는 창이 나오는데, 파일경로를 설정 후 Launch버튼을 클릭한다.



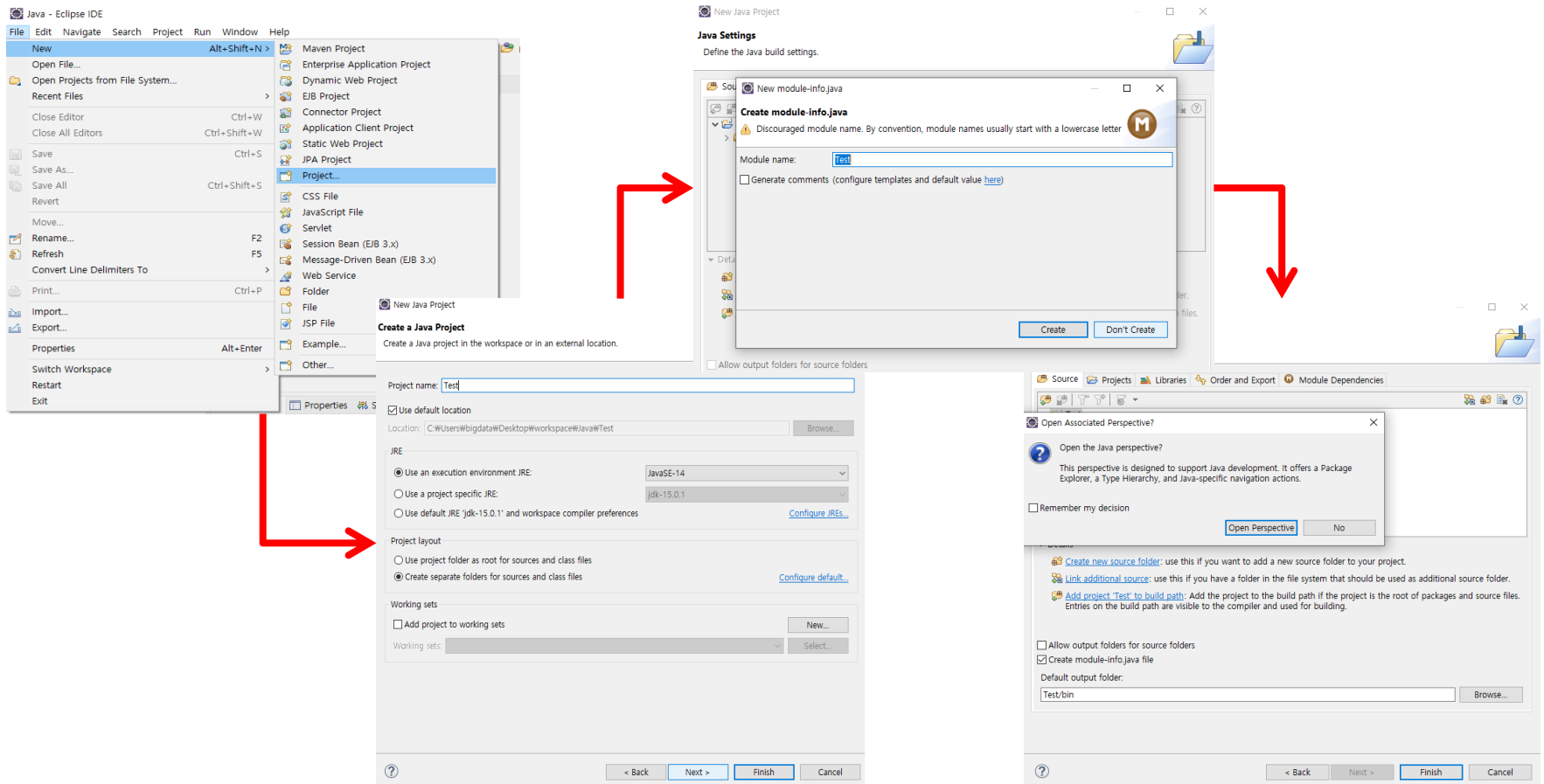
2) Workspace 설정

6. 이클립스가 정상적으로 실행되면 다음과 같은 화면이 나온다.



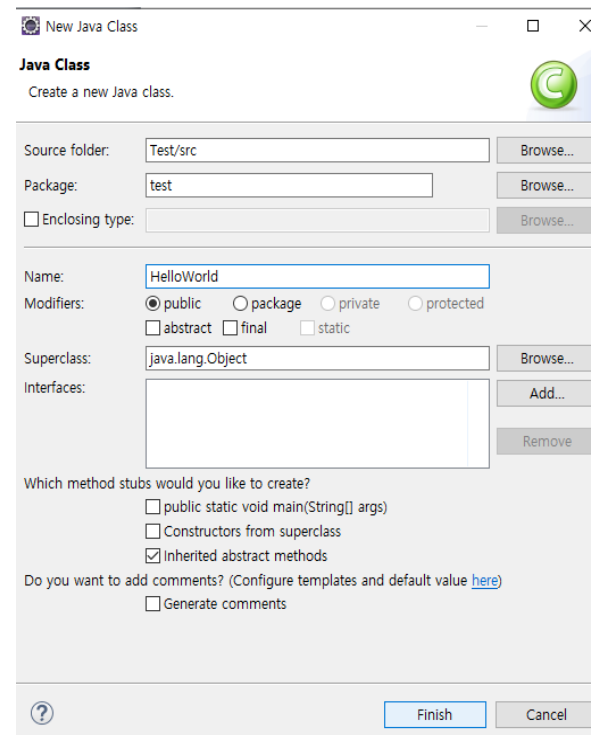
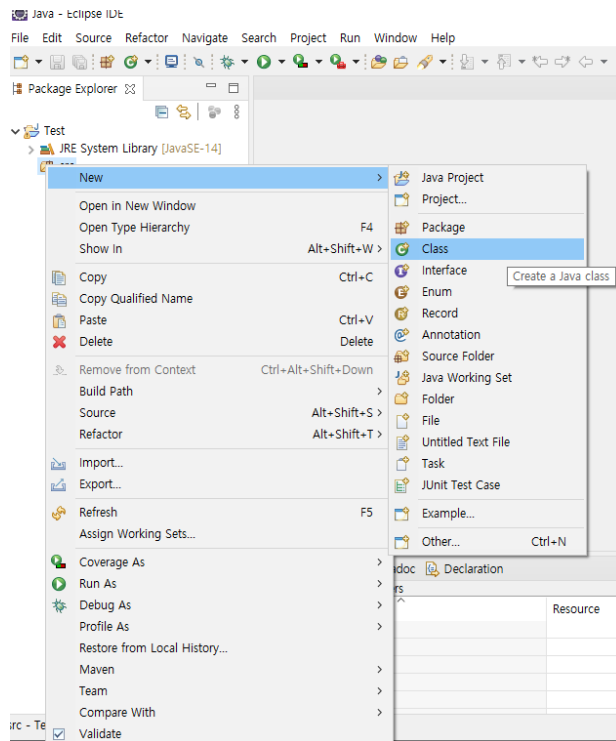
3) "HelloWord" 출력

1. 메뉴에서 File > New > Project를 선택 후 Java Project를 선택하고 Next를 누른다. Project name 입력란에 프로젝트명을 Test라고 입력한다. Create module-info.java 창이 나오면 Don't Create를 누르고 Java Perspective를 열겠냐고 물어보면 Open Perspective버튼을 누른다.



3) “HelloWord” 출력

2. Src 폴더를 선택하고 마우스 오른쪽 클릭, Class를 선택한 후 Package와 Name을 입력 후 Finish를 누른다.



3) "HelloWord" 출력

2. 코드 입력 후 실행한다.

