

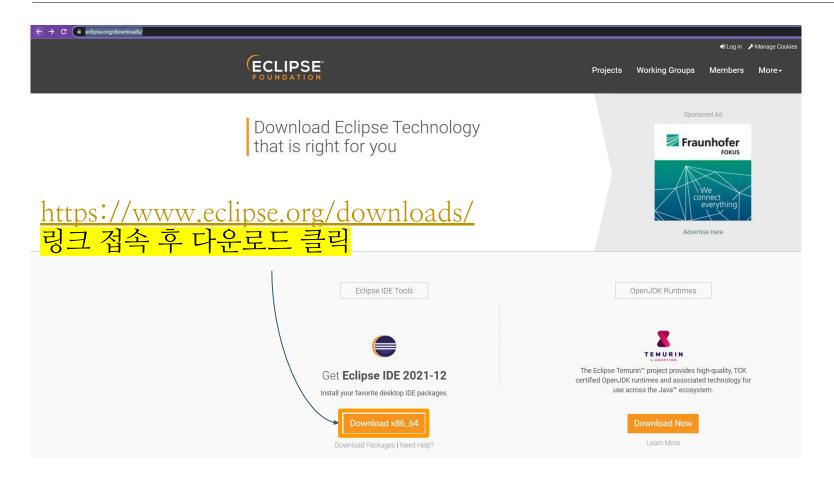
LAB #1. ECLIPSE

Contents

- 1) Introduction
- 2) Install Eclipse
- 3) GitLab

Introduction

- ❖ Assistant : 김재하
- **♦** Lab: IT/BT #402−2
- E-mail: jehakim22oct@hanyang.ac.kr





Projects

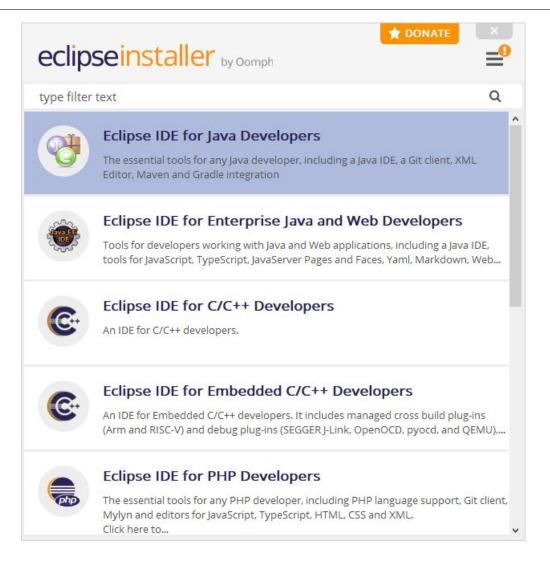
Working

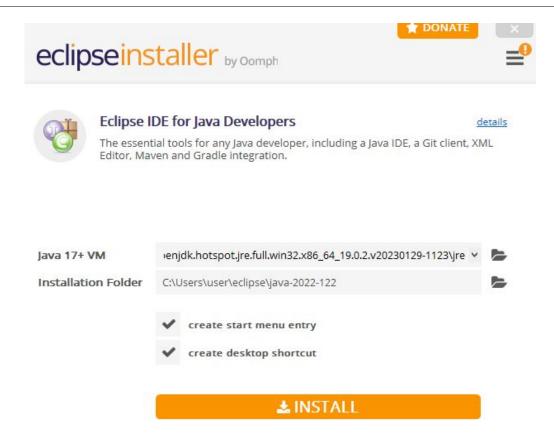
Home / Downloads / Eclipse downloads - Select a mirror

All downloads are provided under the terms and conditions of the Eclipse Foundation Software User Agreement unless otherwise specified.

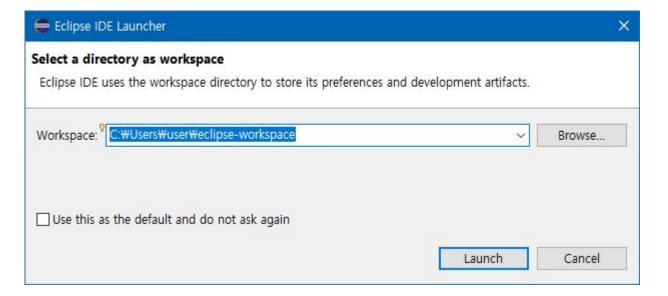


• (참고) 프로그램 해시값 구하기 https://emn178.github.io/online-tools/sha512 file hash.html

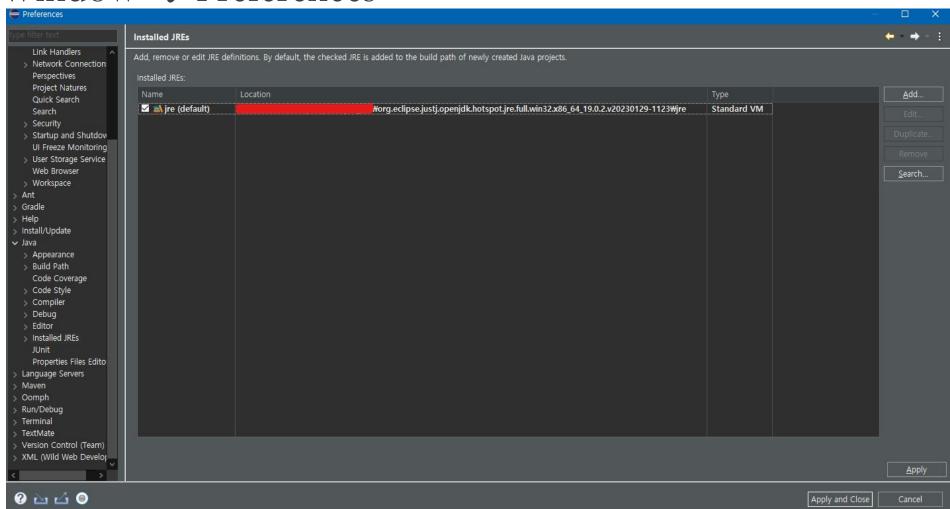


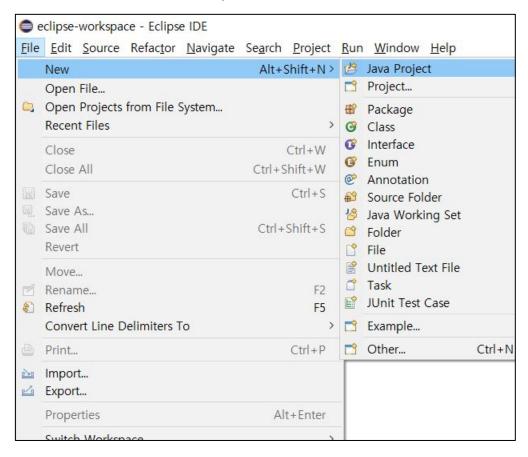


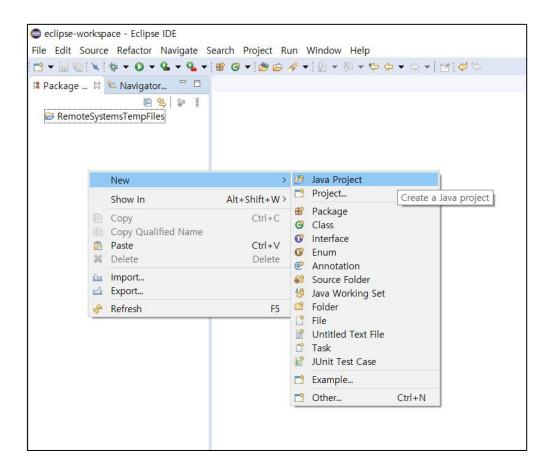
S BACK

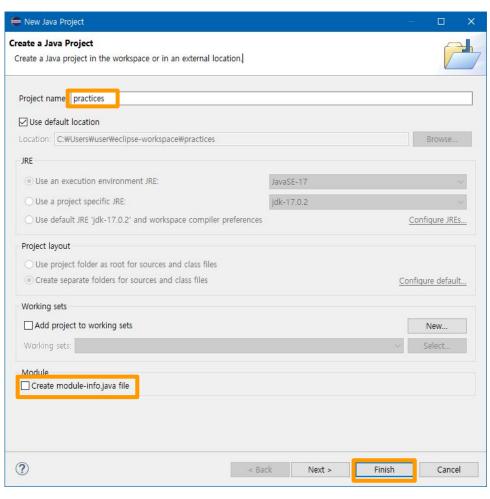


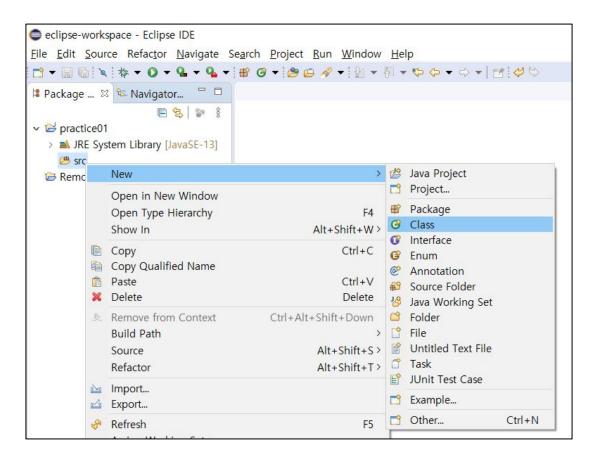
- Window → Preferences

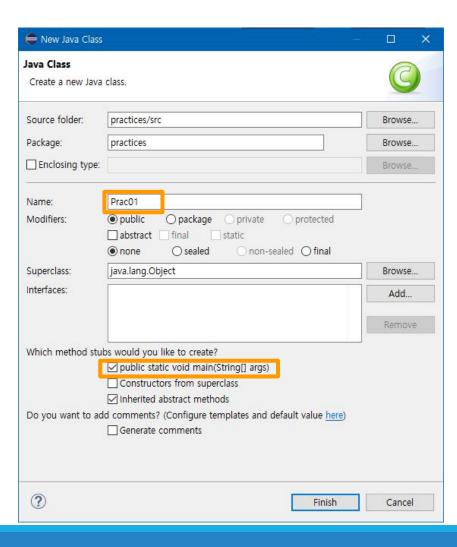


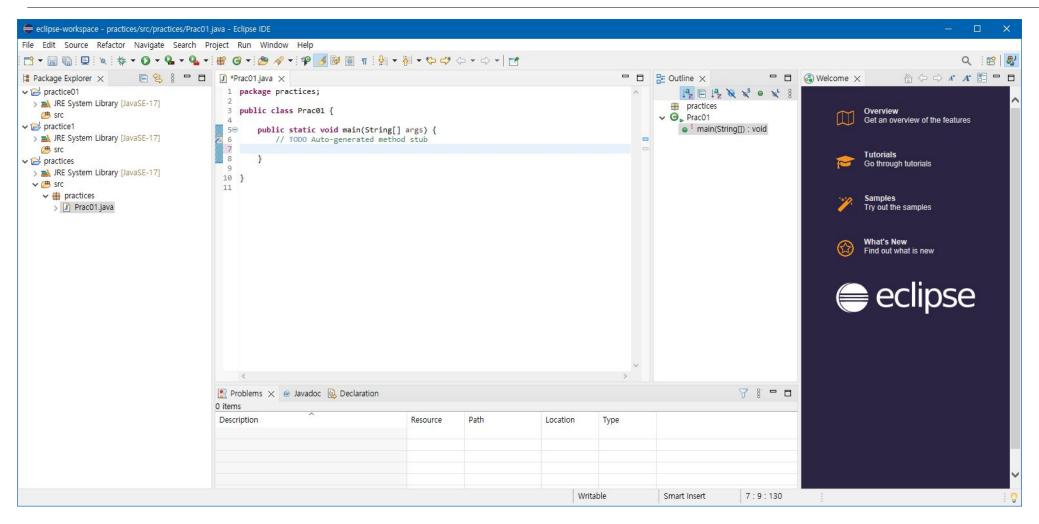


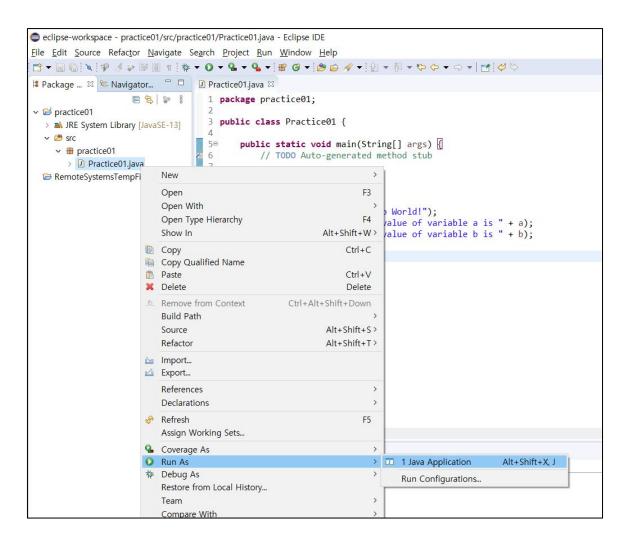












```
eclipse-workspace - practice01/src/practice01/Practice01.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
📮 Package ... 🖾 🞏 Navigator... 📅 🗖
                             ☑ Practice01.java □
                 E & 8
                               1 package practice01;
3 public class Practice01 {
  > March JRE System Library [JavaSE-13]
  public static void main(String[] args) {

→ 

    practice01

                                         // TODO Auto-generated method stub
      Practice01.java

    □ RemoteSystemsTempFiles

                                         int a = 20;
                               9
                                         int b = 30;
                                         System.out.println("Hello World!");
                                         System.out.println("The value of variable a is " + a);
                                         System.out.println("The value of variable b is " + b);
                              13
                              14
                             15
                              16
                              17 }
                              18
```

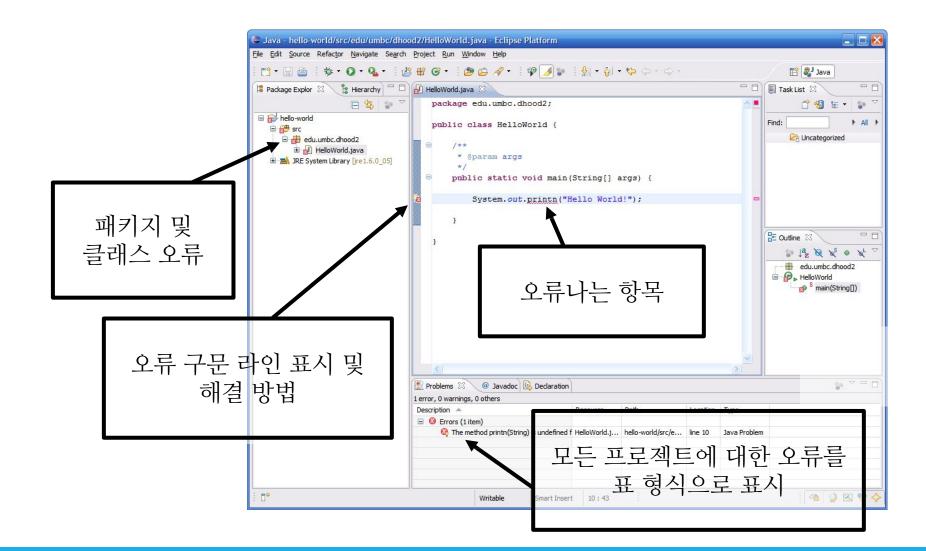
Console Output(System.out.println)

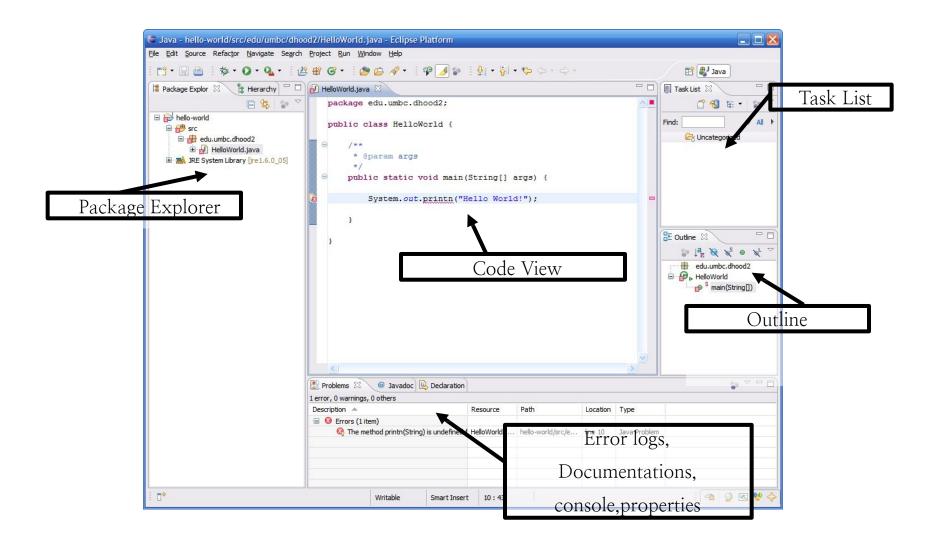
```
int a = 20;
int b = 30;

System.out.println("Hello World!");
System.out.println("The value of variable a is " + a);
System.out.println("The value of variable b is " + b);

Hello World!
The value of variable a is 20
The value of variable b is 30
```

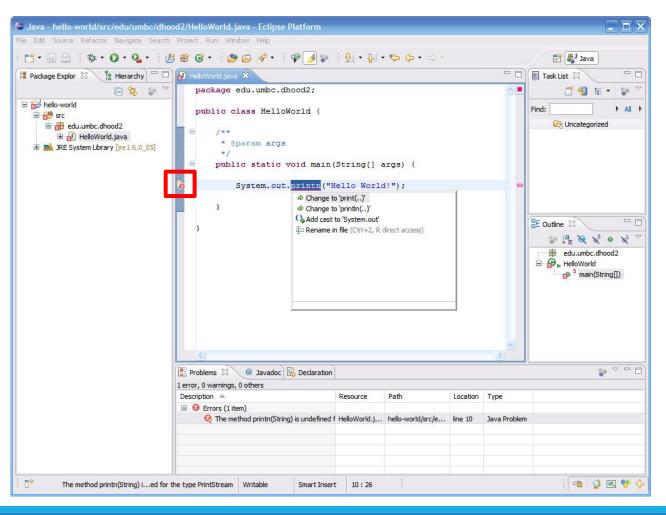
Example Compilation Error





Example Compilation Error

- 전구 버튼을 눌러 해결방법을 확인



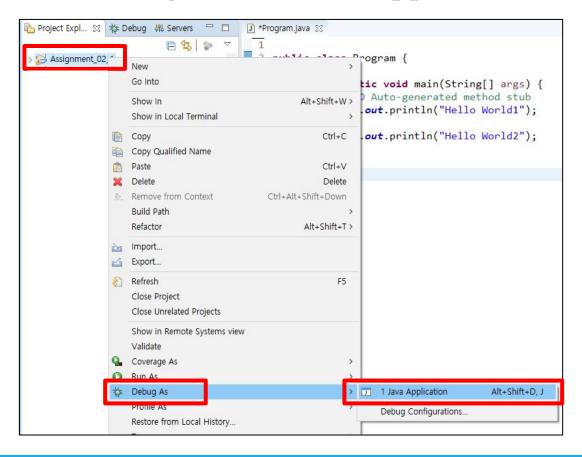
Debugging Code

- 원하는 Line의 왼쪽을 더블 클릭하여 Break Point 생성

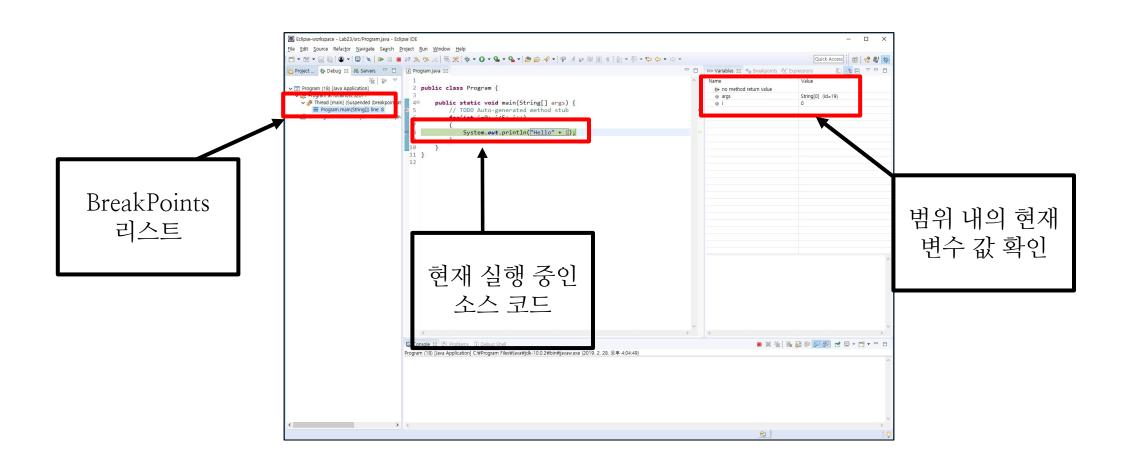
```
Program.java 
public class Program {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        System.out.println("Hello World1");
    }
    System.out.println("Hello World2");
}
```

Debugging Code

- 프로젝트 우클릭 - [Debug As] - [Java Application] 클릭



Debugging Code



GitLab

1. https://hconnect.hanyang.ac.kr 접속 후 Sign in with Hanyang 버튼 클릭



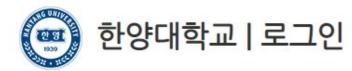
GitLab Community Edition

Open source software to collaborate on code

Manage Git repositories with fine-grained access controls that keep your code secure. Perform code reviews and enhance collaboration with merge requests. Each project can also have an issue tracker and a wiki.

Sign in	Register
Username or email	
1	
Password	
Remember me	Forgot your password?
S	ign in
Sign in with	
Hanyang	
Remember me	

2. 한양인 계정으로 로그인



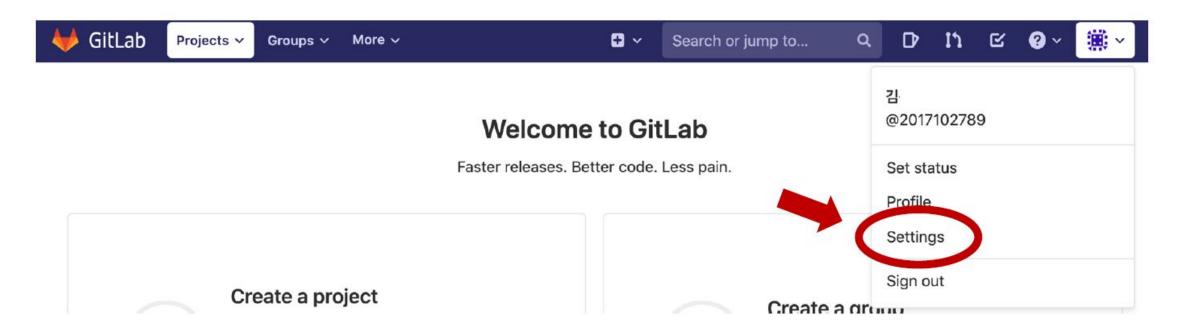
고객님의 정보에 접근하기 위하여 인증이 필요합니다. 한양대학교 포털 한양인(HY-in)계정으로 로그인 하시기 바랍니다.



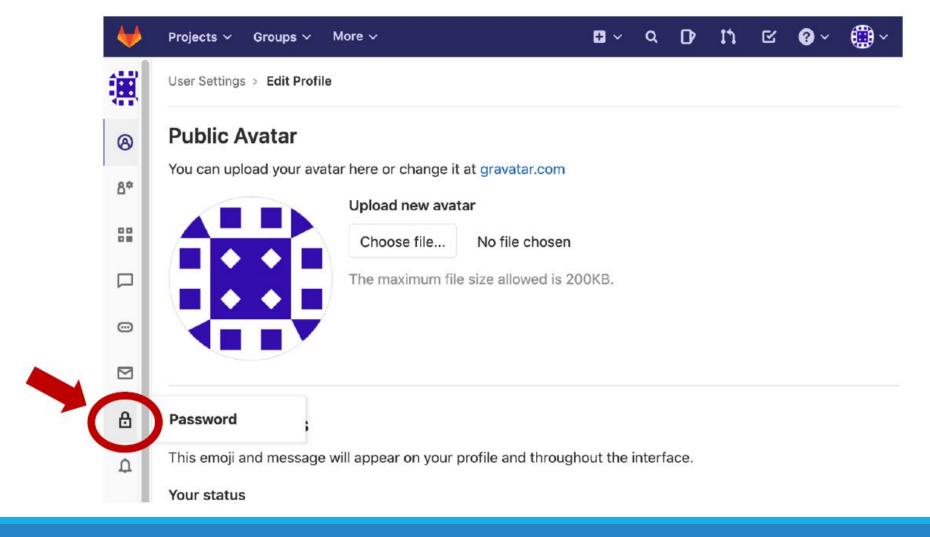
3. 정보 제공 동의



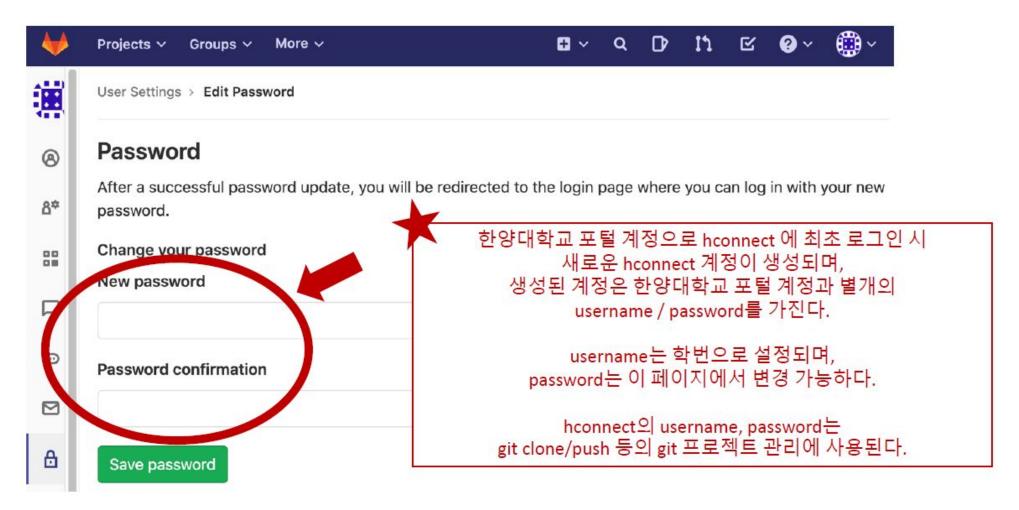
4. Password 설정



4. Password 설정



4. Password 설정

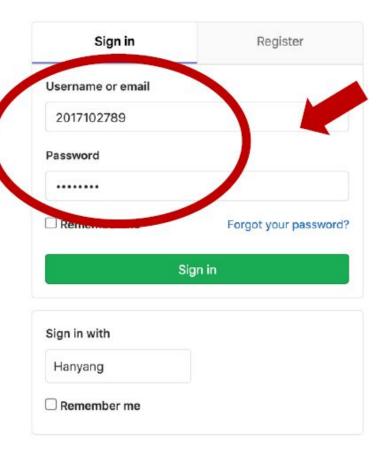


5. 이후, 로그인은 학번과 변경한 password로 가능

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Open source software to collaborate on code

Manage Git repositories with fine-grained access controls that keep your code secure. Perform code reviews and enhance collaboration with merge requests. Each project can also have an issue tracker and a wiki.



과제

1) Eclipse 설치

2) GitLab 가입

Q & A

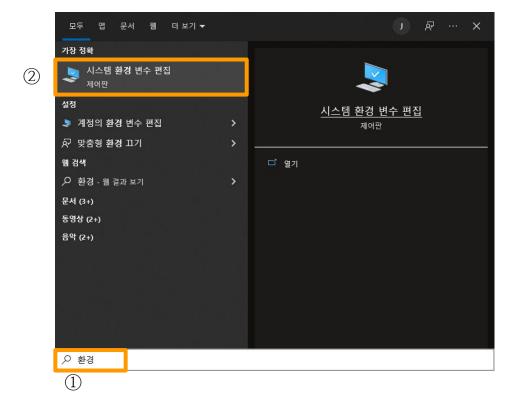
(번외)이클립스 단축키

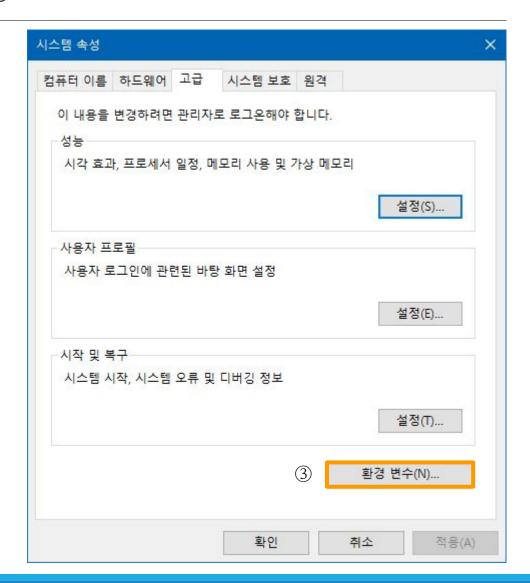
1. Ctrl + 3 메뉴 검색, 실수로 창 닫았으면 Properties, Explorer, Console, Variables 등등 검색해보기

2. Ctrl + Space 자동완성 추천

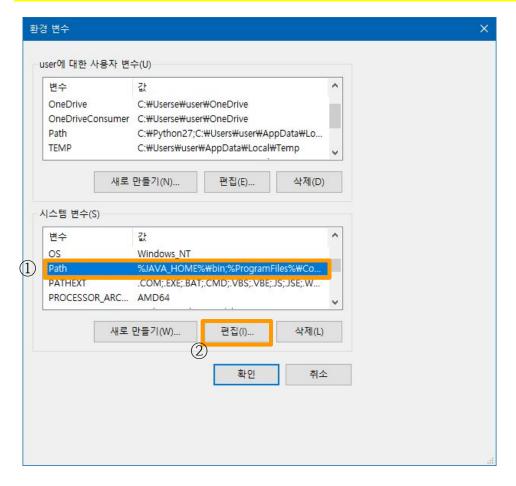
> sysout 쓰고 Ctrl + Space 하면 자동 완성 됩니다. 더 알고 싶다면 메뉴 검색해서 Templates 찾아보세요!

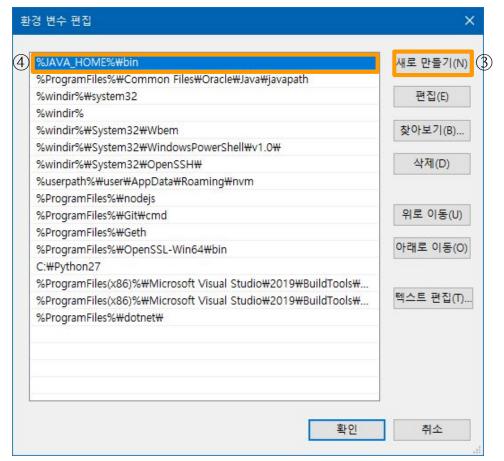
윈도우 검색(⊞키) 〉 "환경" 검색 〉 시스템 환경 변수 편집

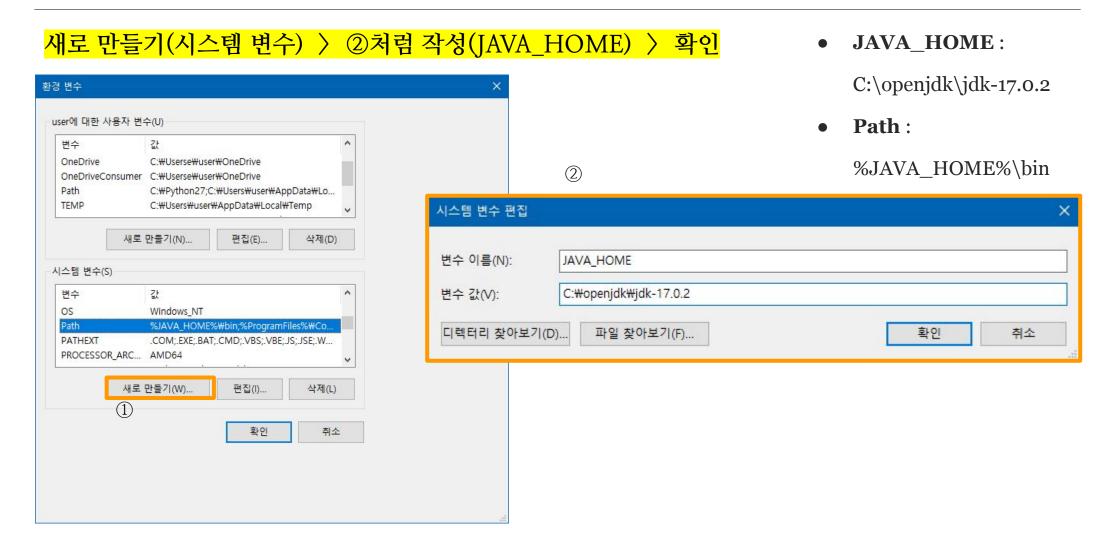




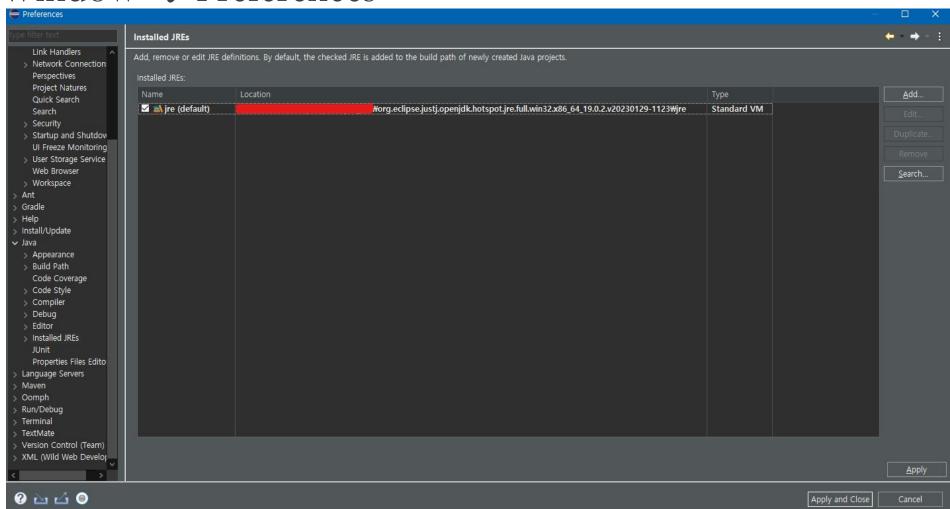
시스템 변수 중에서 Path 찾기 〉 더블 클릭 또는 편집 〉새로 만들기 〉 %JAVA_HOME%₩bin 〉 확인







- Window → Preferences



Windows Powershell 〉 java -version 엔터 〉 아래 그림과 같이 나오면 OK, 안되면 질문!

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Luser@DESKTOP-RCIA5K5] C:\Users\user>
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참고링크

https://medium.com/hgmin/openjdk-설치-603ee649cb1c (윈도우에서 환경 변수 설정)

https://life-of-panda.tistory.com/41 (맥에서 환경 변수 설정)

https://devpouch.tistory.com/125 (리눅스에서 환경 변수 설정)

Install JDK

Install JDK



jdk.java.net GA Releases

JDK 17 JMC 8

IDK 19

Early-Access Releases

JDK 18 Loom Metropolis Panama Valhalla

Reference

Implementations Java SE 17 Java SE 16

Java SE 15 Java SE 14 Java SE 13 Java SE 12

Java SE 11 Java SE 10 Java SE 9 Java SE 8 Java SE 7

Feedback Report a bug

Archive

OpenJDK JDK 17.0.2 General-Availability Release

This page provides production-ready open-source builds of the Java Development Kit, version 17, an implementation of the Java SE 17 Platform under the GNU General Public License, version 2, with the Classpath Exception.

Commercial builds of JDK 17.0.2 from Oracle, under a non-open-source license, can be found at the Oracle Technology Network.

Documentation

Features

Release notes

API Javadoc

<mark>설치 링크!</mark>

https://jdk.java.net/17/ 링크 접속 후 zip 파일 설치

Builds

 Linux/AArch64
 tar.gz (sha256)
 185776417 bytes

 Linux/x64
 tar.gz (sha256)
 187033144

 macOS/AArch64
 tar.gz (sha256)
 182209404

 macOS/x64
 tar.gz (sha256)
 184480668

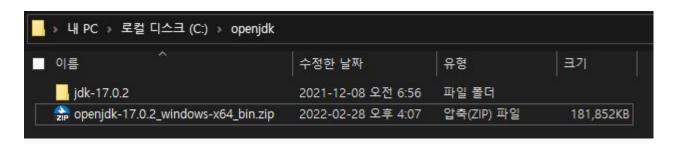
 Windows/x64
 zip
 (sha256)
 186216309

Notes

- The Alpine Linux build previously available on this page was removed as of the first JDK 17 release candidate. It's not production-ready because it hasn't been tested thoroughly enough to be considered a GA build. Please use the early-access JDK 18 Alpine Linux build in its place.
- If you have difficulty downloading any of these files please contact jdkdownload-help_ww@oracle.com.

Install JDK

내PC 〉 C드라이브 〉 새폴더 생성 (이름 아무거나 상관없음 e.g. openjdk)



End