Introduction / Java Installation

2020 Spring: AP Computer Science A

December 26th, 2019

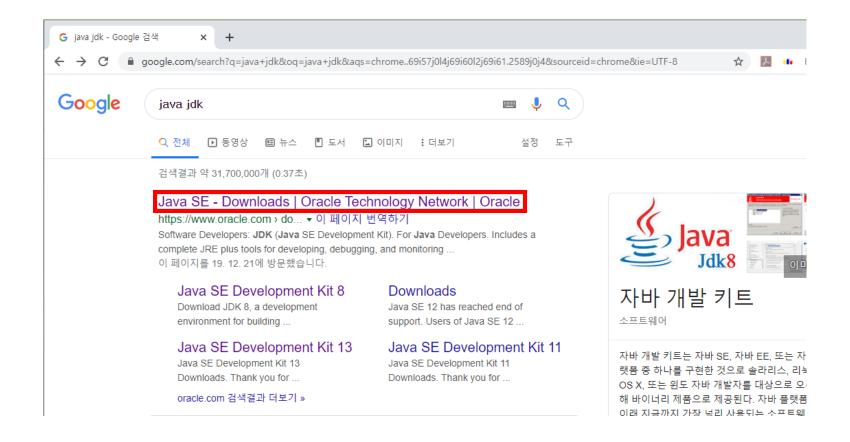
Today

- Introduction
- Java 환경 설치
- Hello, Java!

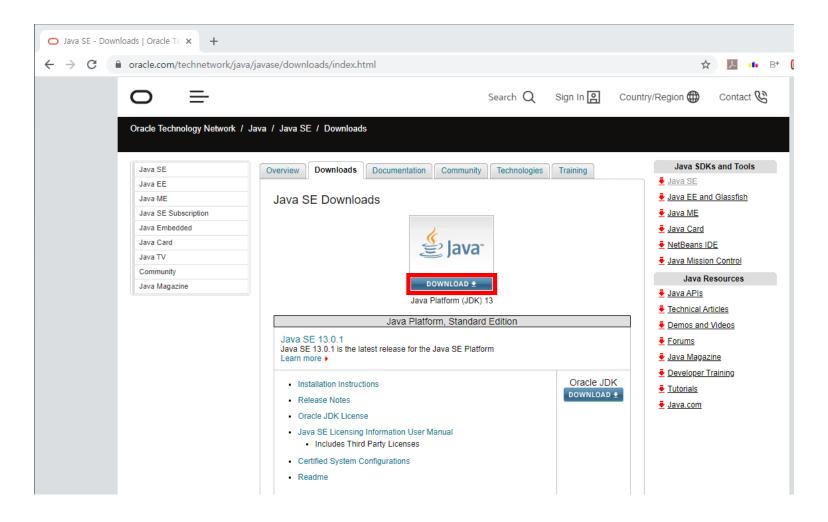
Introduction

■ 강의 계획서 참조!

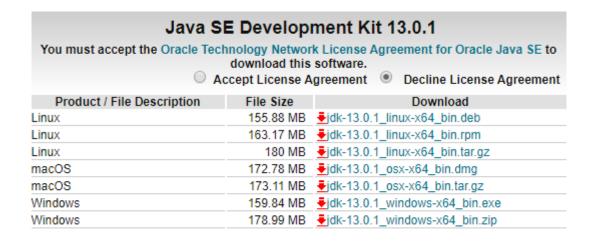
■ Google 검색: "java jdk"



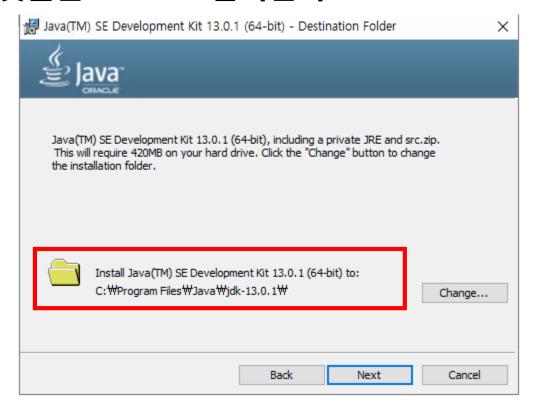
Click Download on Java Platform (JDK)



- Accept License Agreement
- 운영체제에 알맞게 선택하여 다운로드 후 실행



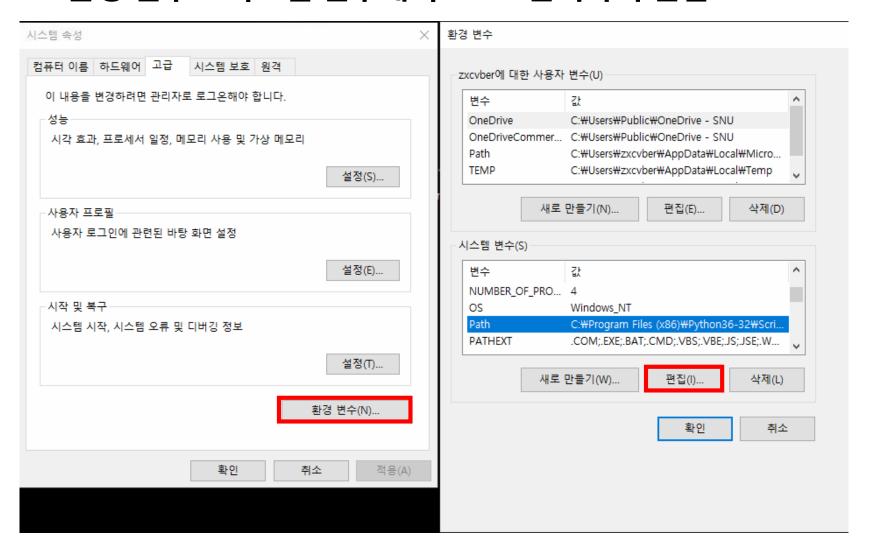
- Java 설치 경로 기억 (중요!!)
 - C:\Program Files\Java\jdk-13.0.1
- 이외의 것들은 Next 로 넘어간다



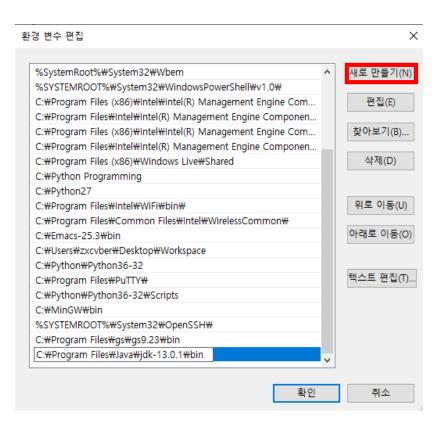
- 시스템 환경 변수 편집 (Environment Variables)
 - 제어판에서 검색



■ 환경 변수 > 시스템 변수에서 Path 선택하여 편집

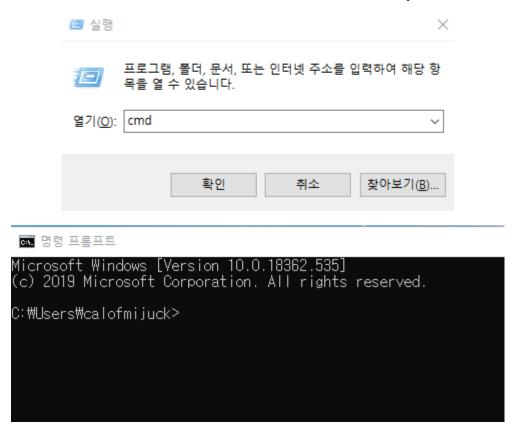


- 새로 만들기 클릭
- Java 설치 경로에 "\bin"을 붙여 넣은 경로 입력 후 확인
 - C:\Program Files\Java\jdk-13.0.1\bin



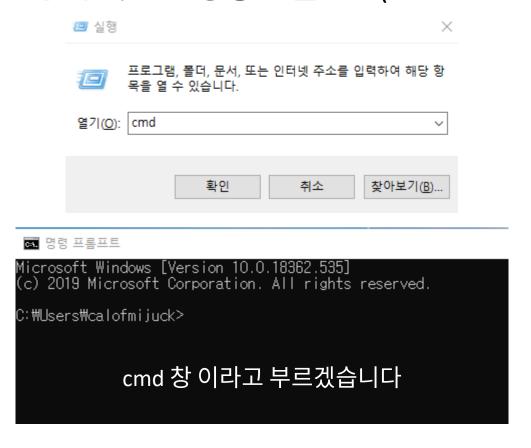
중간 점검

- 모두 "확인" 버튼을 눌러 종료
- Win + R 를 눌러 실행 창을 열고 cmd 입력 후 엔터
 - 이 검은 창의 이름은 **명령 프롬프트**(Command Prompt)



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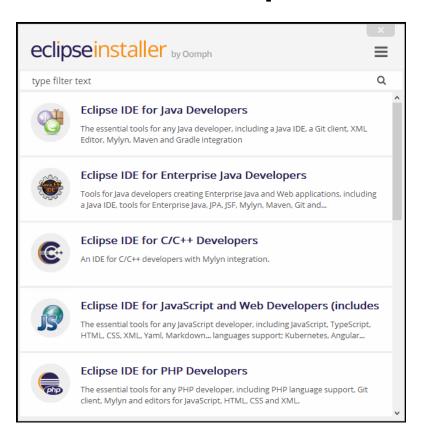
중간 점검

- cmd 창에 java 를 입력하고 엔터
 - 다음과 같은 메시지가 출력되어야 합니다

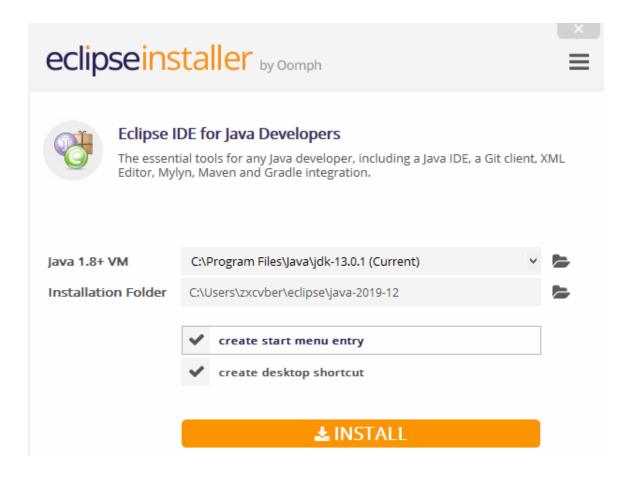
```
C:\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Users\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Under\Und
```

(후략)

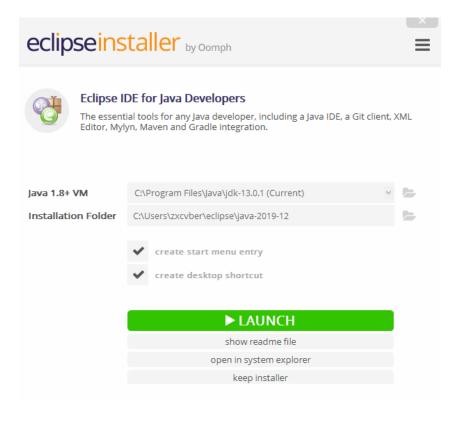
- https://www.eclipse.org 에서 설치파일 다운로드
- 설치 파일 실행
- Eclipse IDE for Java Developers 선택 후 Install



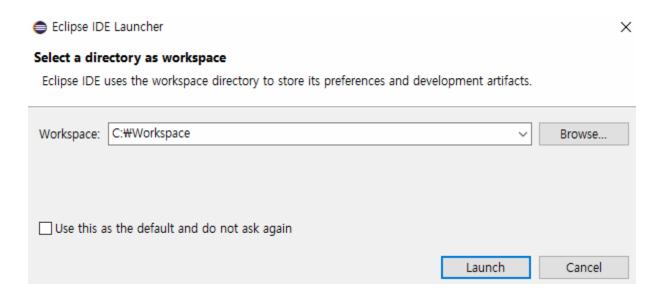
- Java 1.8+ VM 경로가 맞는지 확인하고 설치
 - 약관은 동의하고 넘어갑시다



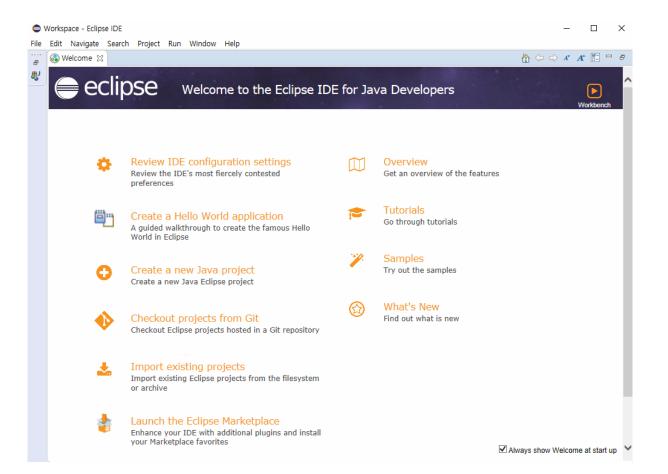
- 설치 완료
 - 바탕화면에 Eclipse IDE 아이콘 생성 확인
 - LAUNCH 로 실행



- Workspace 폴더 설정
 - 작업 내역을 모아둘 폴더를 적당히 지정
 - Browse 로 폴더 선택 가능
 - Launch!

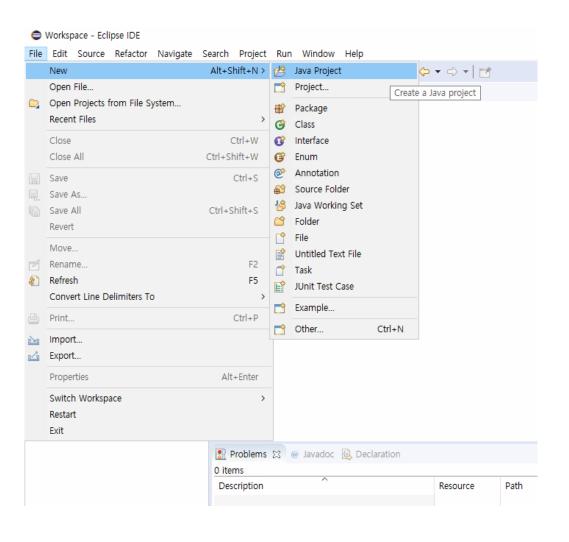


- 다음과 같은 화면이 나오면 설치 성공!
 - Welcome 옆의 x 를 눌러 꺼줍시다!



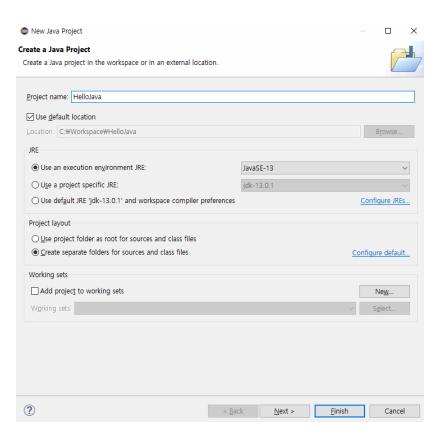
New Java Project

■ File > New > Java Project 선택



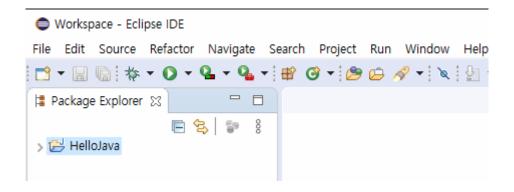
New Java Project

- 프로젝트 이름: HelloJava 로 입력 후 Finish
 - 주의! 앞으로 대소문자는 **반드시** 구분해 주세요
 - module-info.java 는 생성하지 않습니다



New Java Project

- 현재 IDE 모습
 - 폴더 아이콘 옆의 ">" 를 누르면 하위 폴더가 나옵니다

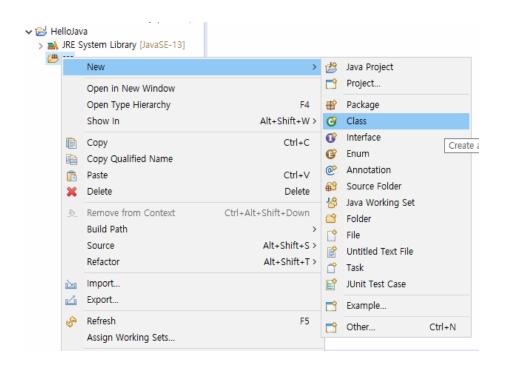


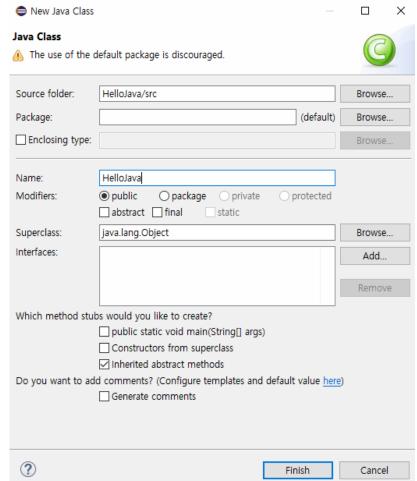


> 클릭 시 모습

■ src 를 오른쪽 마우스 클릭

- New > Class 선택
- 이름: HelloJava
- Finish





■ 현재 IDE 모습

■ HelloJava.java 를 다음 코드로 채워줍니다

```
public class HelloJava {
    public static void main(String[] args) {
        System.out.println("Hello, Java!");
    }
}
```

```
Workspace - HelloJava/src/HelloJava.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

□ Package Explorer 
□
                           1 public class HelloJava {
                                 public static void main(String[] args) {

→ I HelloJava

                                     System.out.println("Hello, Java!");
  > M JRE System Library [JavaSE-13]
                             4
  5
                             6
   > J HelloJava.java
```

- 왼쪽 위의 실행 버튼으로 코드를 실행하고
- Console 에 "Hello, Java!" 가 출력되는지 확인!

