

Espresso

개발환경구축 가이드

필수 프로그램 목록

1. VS CODE - 최신버전
2. PYTHON - 3.10.2
3. MySQL - 8.0.17
4. Microsoft C++ Build Tools - 최신버전
5. Java - 1.8.0_321-b07
6. Java SE Development Kit - 18
7. 데이터 임포트
8. 프로젝트 폴더 열기

① 프로젝트 구조 정의

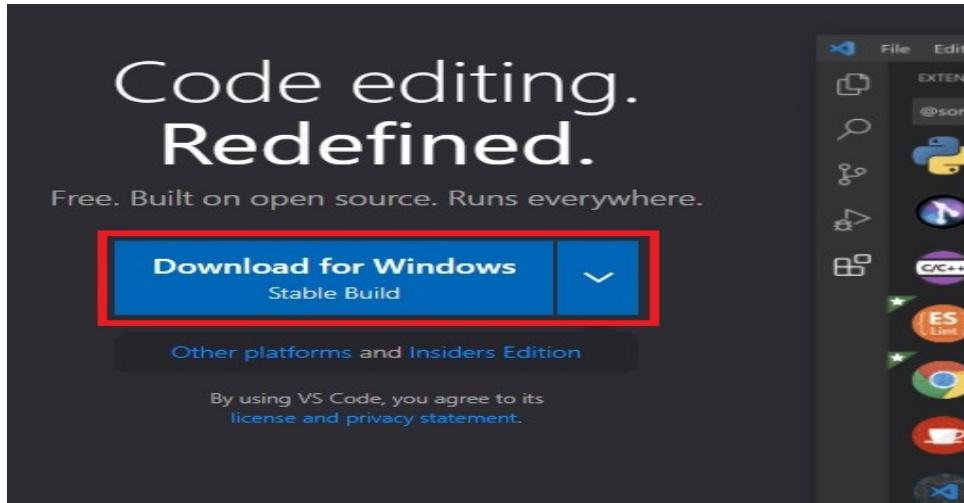
modules	images: 아이콘 등 프로젝트에 사용한 이미지 폴더
> __pycache__	control_password.py: 비밀번호 암호화 및 복호화 모듈
control_password.py	crawl_progress.py: 크롤링 스레드 모듈
crawl_progress.py	dtail.py: 로컬 검색결과의 상세정보를 보여주는 화면
detail.py	local_search.py: 로컬 검색 모듈
local_search.py	login.py: 프로그램 최초 실행 시 로그인 화면
login.py	patent_db.py: 데이터베이스 모듈
patent_db.py	path_gatter.py: 이미지 경로 획득 모듈(exe 빌드시 임시경로 획득)
path_gatter.py	visualization.py: 시각화 모듈(워드클라우드, 파이그래프)
visualization.py	write_json.py: JSON 파일 저장 모듈
write_json.py	patent_data: export한 데이터베이스 sql 폴더
> patent_data	setting: JPype1 패키지 설치 파일(whl) 및 간략한 세팅 가이드 폴더
> setting	espresso.py: 메인 화면, exe 빌드시 대상 파일
espresso.py	espresso.spec: exe 빌드에 사용하는 스펙
launcher.py	launcher.py: 패키지 설치 모듈
version.rc	version.rc: exe 버전 정의(exe파일 우클릭->속성->자세히)

② 데이터베이스 구조 정의

▼ patents	patents - application_number: 출원번호
▼ Columns	
◆ application_number	
◆ applicant	
◆ summary	
◆ title	
▼ cpc	patents - summary: 요약
▼ Columns	
◆ cpc	
◆ application_number	
▼ keywords	patents - title: 제목
▼ Columns	
◆ keyword	
◆ application_number	
cpc	cpc: CPC 분류(Cooperative Patent Classification)
keywords	keywords: 크롤링에 사용된 검색어

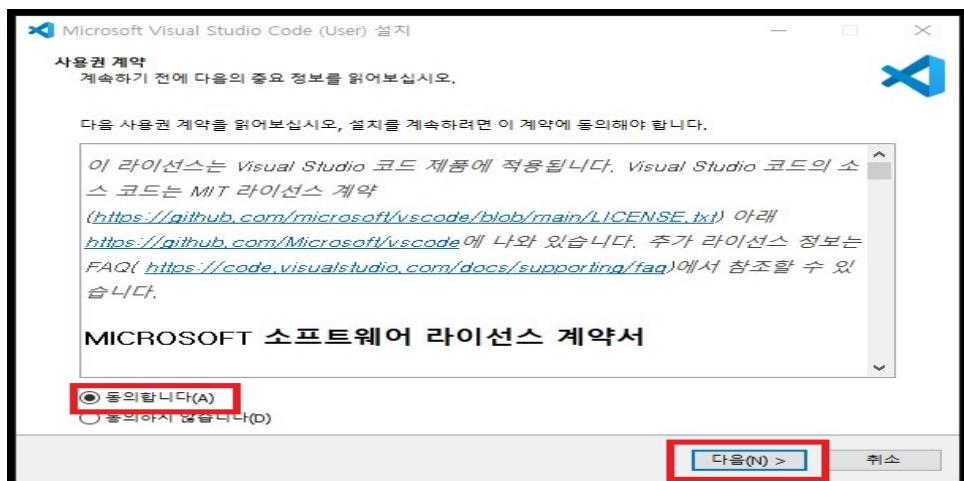
③ 설치 가이드

1) Visual Studio Code

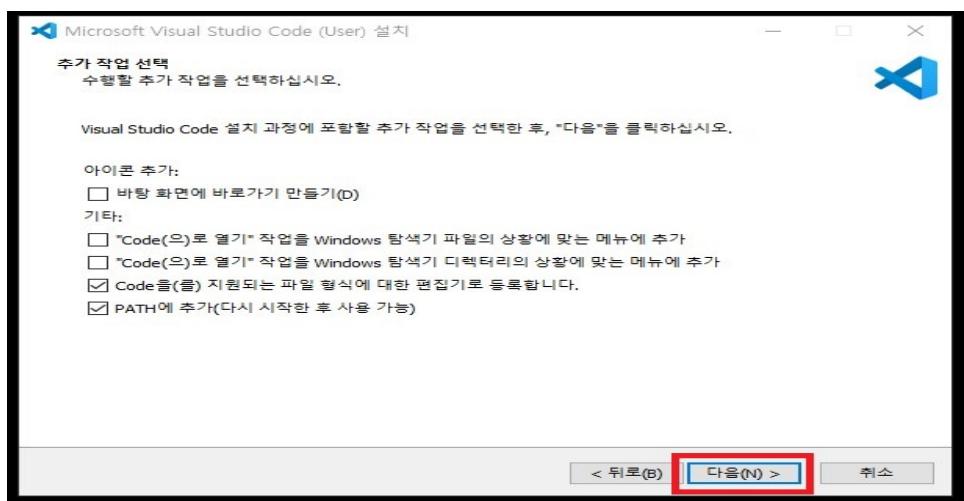


<https://code.visualstudio.com/>

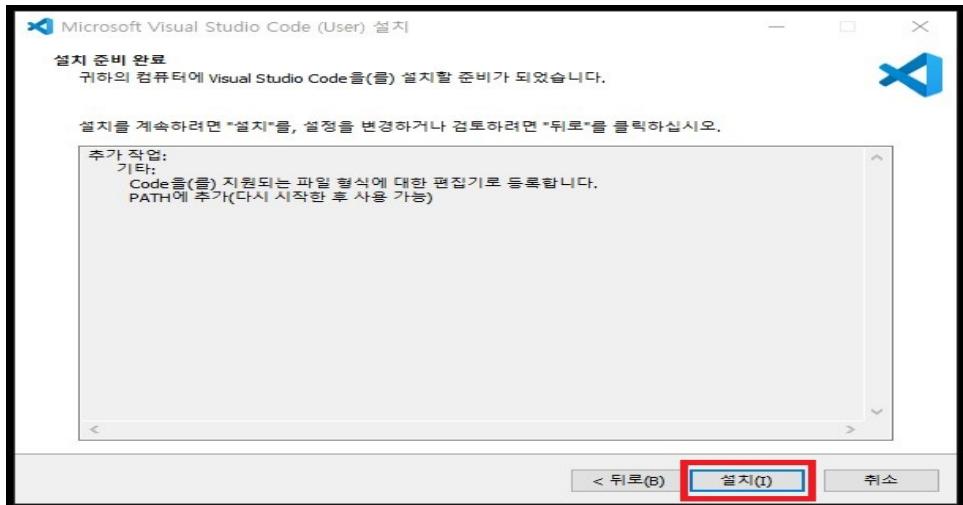
접속 후 자신의 os에 맞게
다운로드



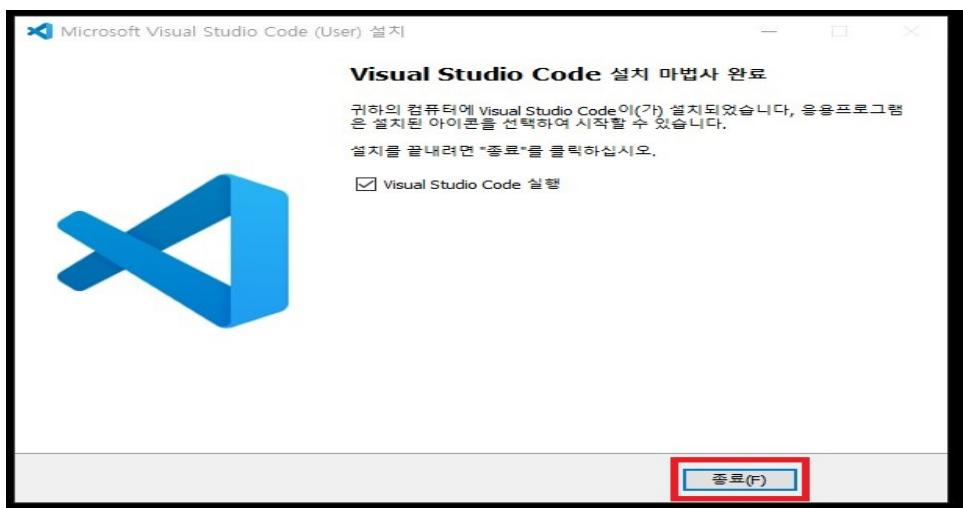
동의합니다 -> 다음 클릭



다음 클릭



설치 클릭



설치 완료

2) PYTHON

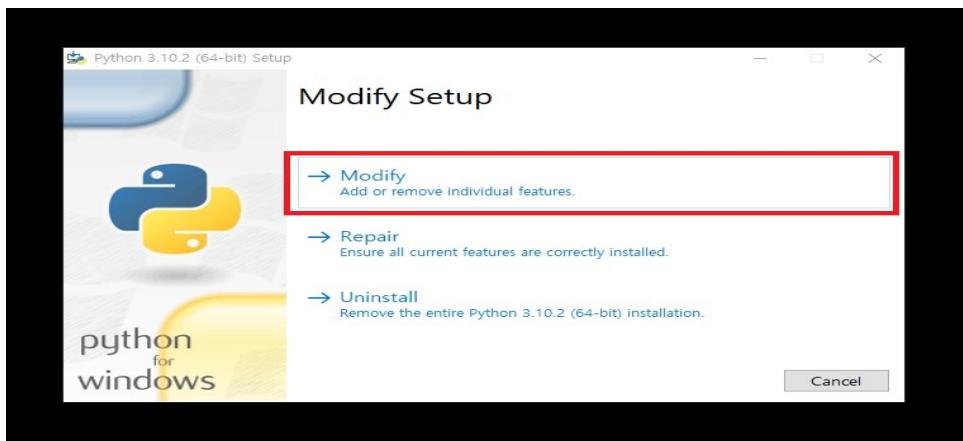
The screenshot shows the Python.org website's download section. A red box highlights the "All releases" link in the sidebar menu. The main content area displays "Download for Windows" for Python 3.10.4, with a note that it cannot be used on Windows 7 or earlier. Below this, there's a note about Python being compatible with many operating systems and environments.

<https://www.python.org/downloads/>

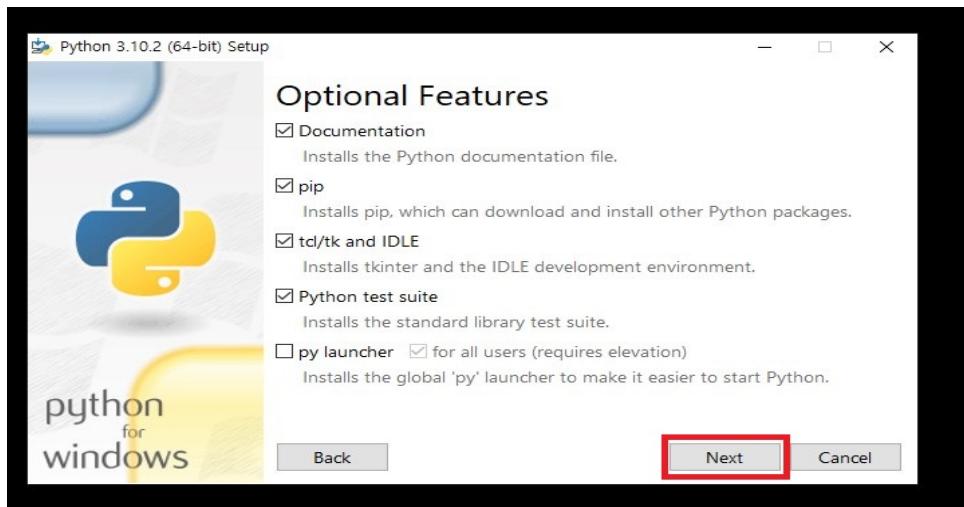
접속 후 3.10.2 다운로드

Release version	Release date	Click for more
Python 3.7.13	March 16, 2022	Download Release Notes
Python 3.9.10	Jan. 14, 2022	Download Release Notes
Python 3.10.2	Jan. 14, 2022	Download Release Notes
Python 3.10.1	Dec. 6, 2021	Download Release Notes
Python 3.9.9	Nov. 15, 2021	Download Release Notes
Python 3.9.8	Nov. 5, 2021	Download Release Notes
Python 3.10.0	Oct. 4, 2021	Download Release Notes
Python 3.7.12	Sept. 4, 2021	Download Release Notes

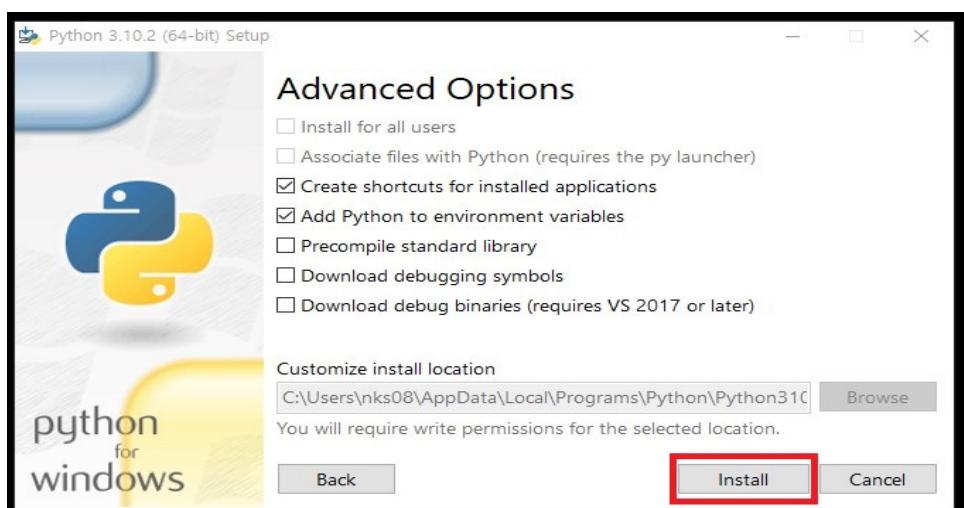
자신의 OS에 맞게 설치



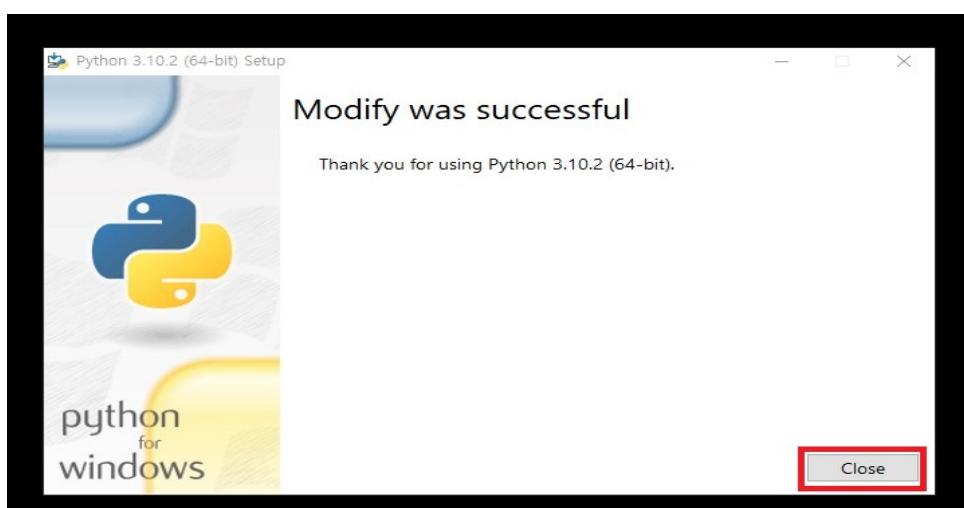
Modify 클릭



Next 클릭



install 클릭



설치 완료

3) MySQL

General Availability (GA) Releases Archives

MySQL Community Server 8.0.28

Select Operating System: Microsoft Windows

Recommended Download:

MySQL Installer for Windows

All MySQL Products. For All Windows Platforms. In One Package.

Starting with MySQL 5.6 the MySQL Installer package replaces the standalone MSI packages.

Windows (x86, 32 & 64-bit), MySQL Installer MSI

Go to Download Page >

Other Downloads:

Windows (x86, 64-bit), ZIP Archive 8.0.28 211.7M Download

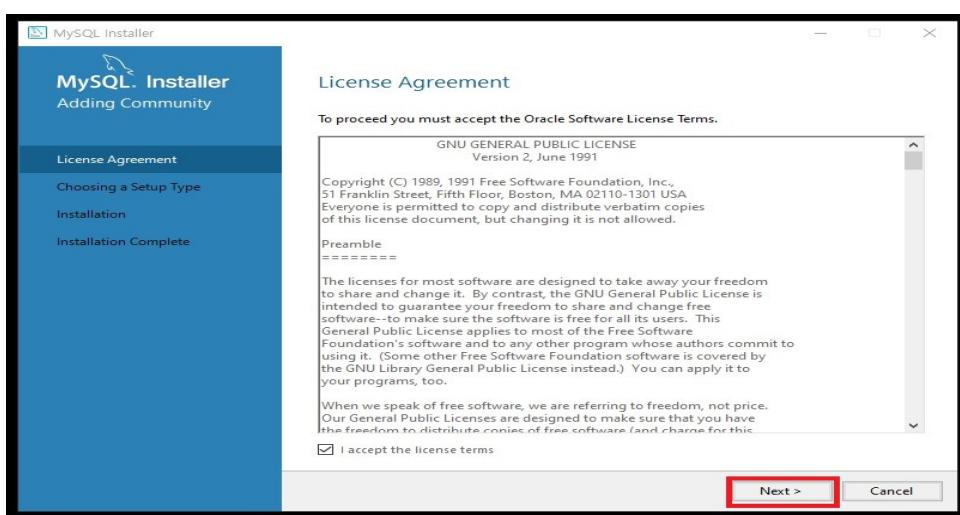
(mysql-8.0.28-winx64.zip) MD5: f1a0cfb0086256a56c81ef e75e138c | Signature

Windows (x86, 64-bit), ZIP Archive 8.0.28 506.3M Download

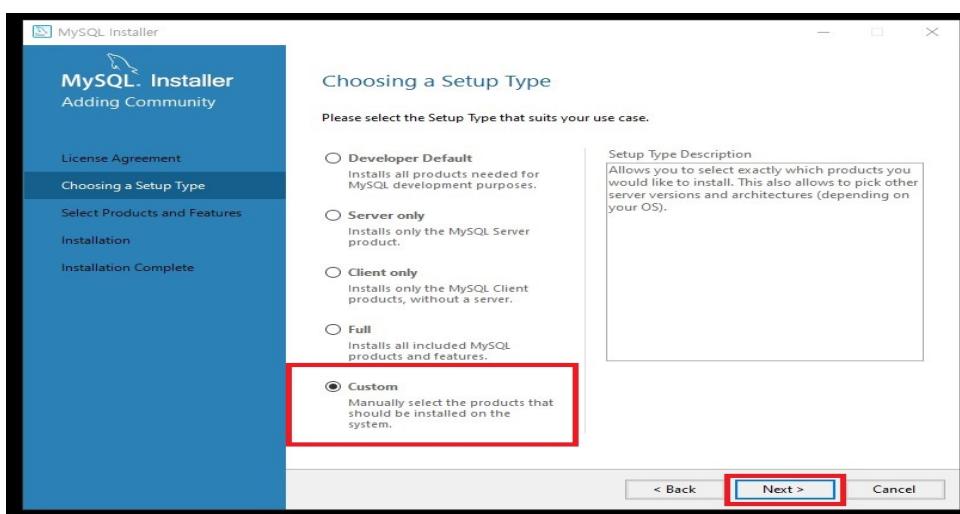
(mysql-8.0.28-winx64-debug-test.zip) MD5: b8d45945da1d823bec37e3016847c54f | Signature

<https://www.python.org/downloads/>

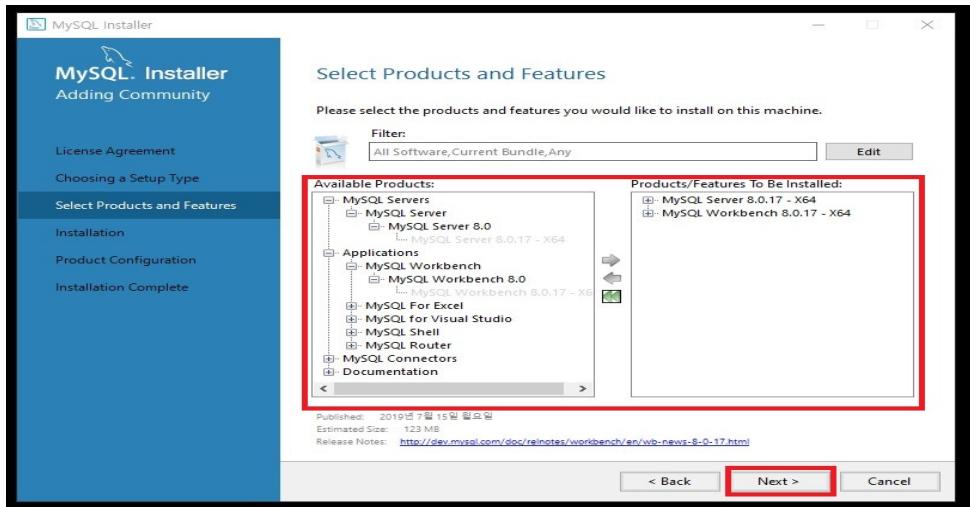
접속 후 자신의 os에 맞게
다운로드



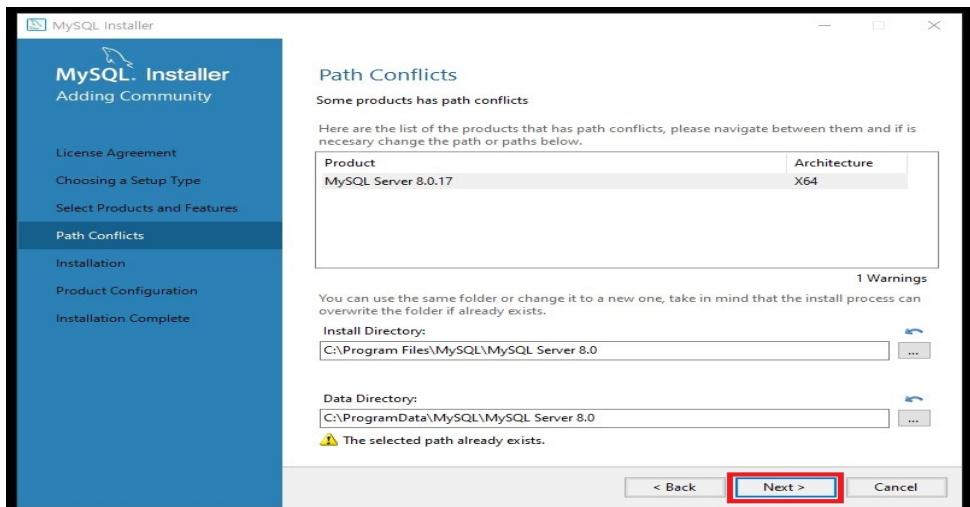
동의 후 Next 클릭



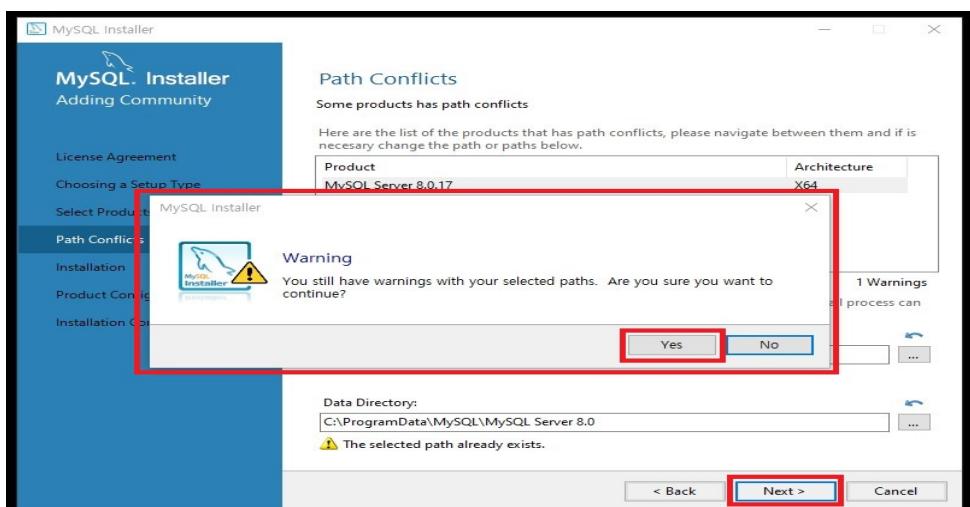
Custom 체크 후 Next 클릭



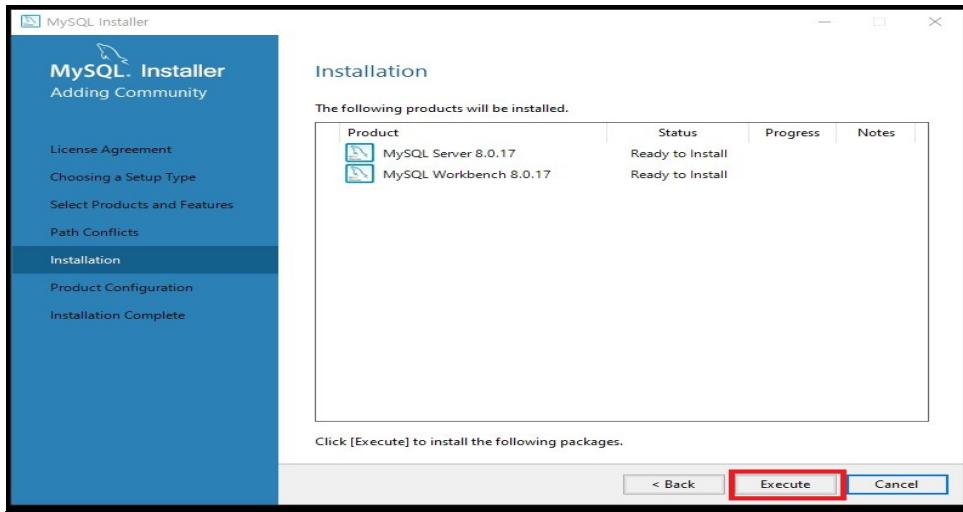
왼쪽의 그림과 같이 세팅 후
Next 클릭



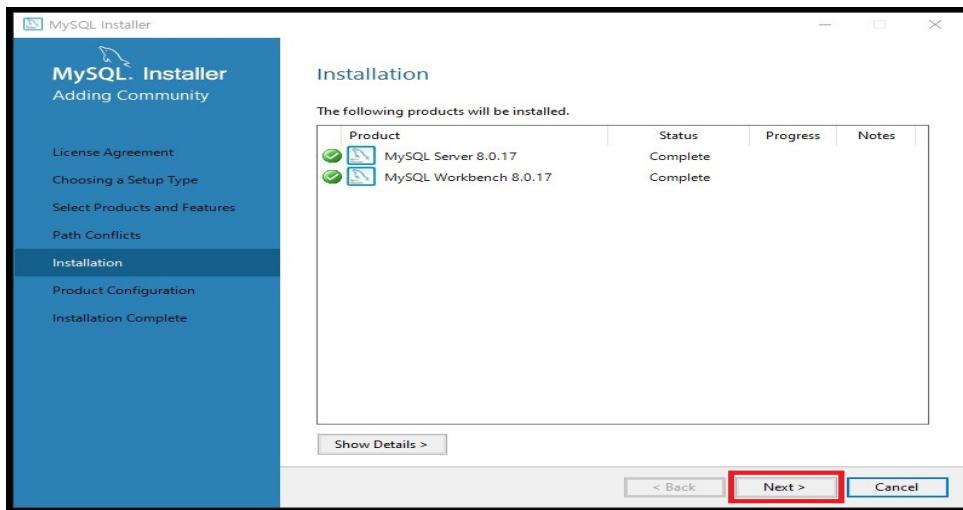
Next 클릭



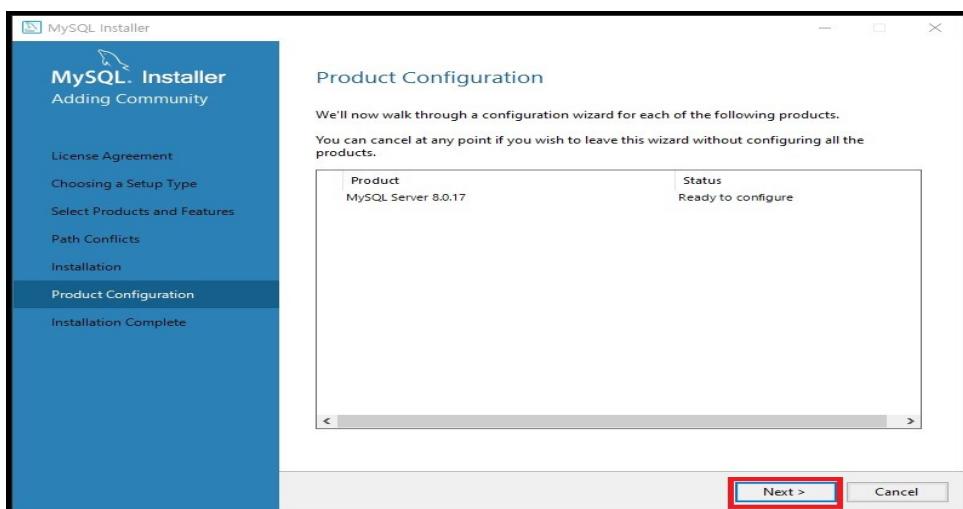
메시지가 출력되면 Yes 클릭 후
Next 클릭



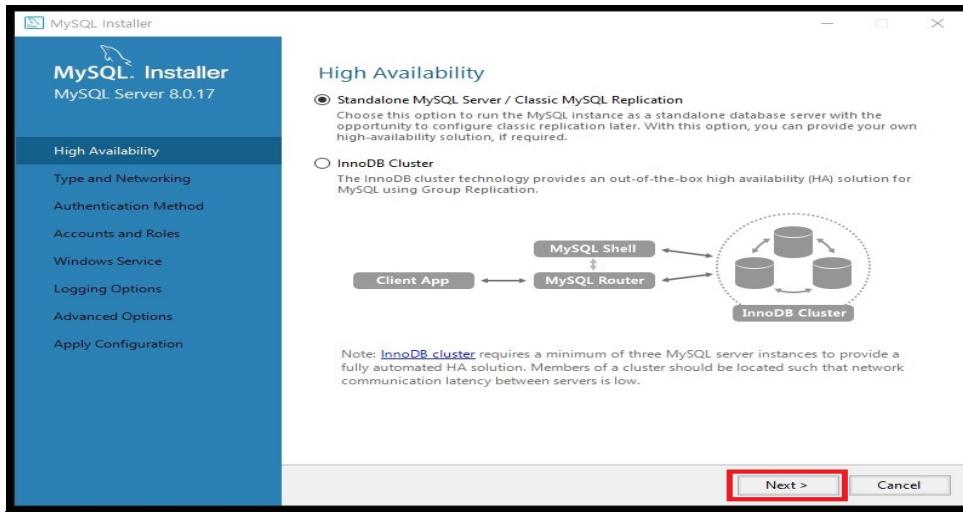
Excute 클릭



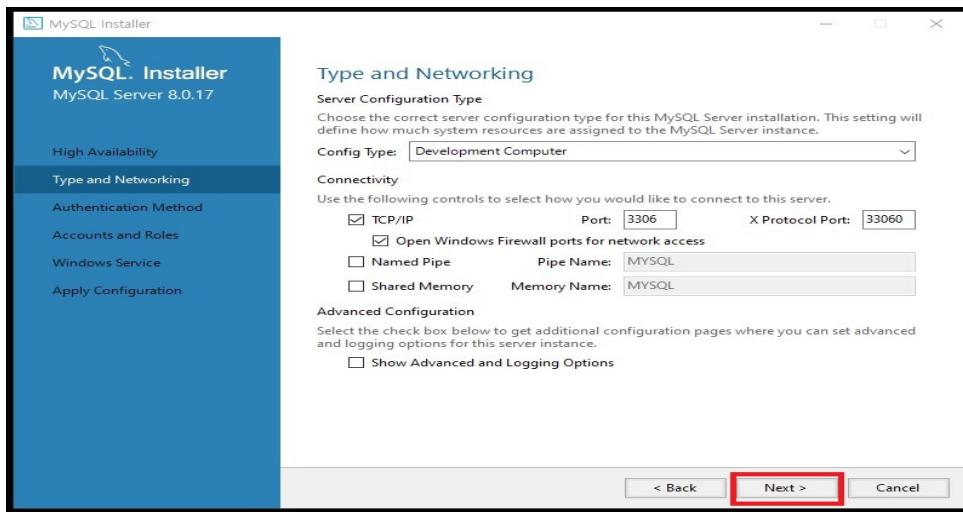
Next 클릭



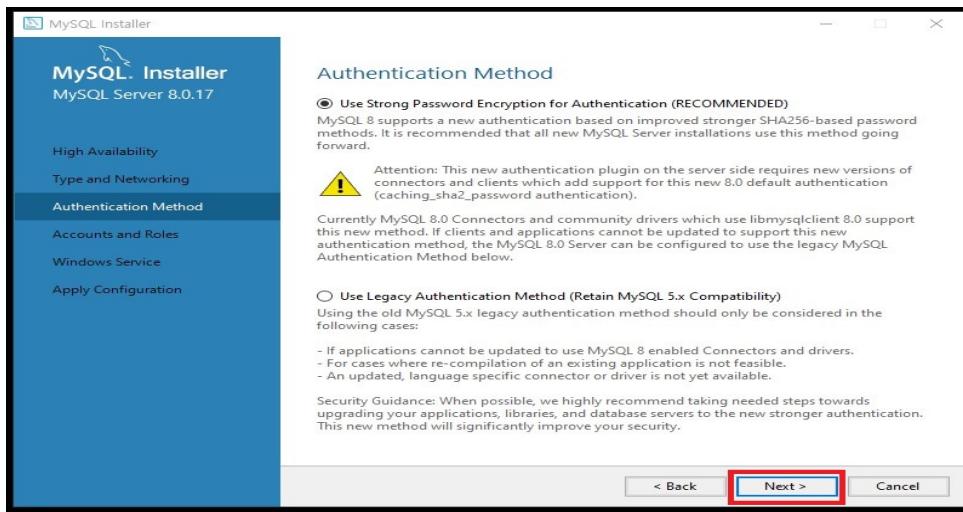
Next 클릭



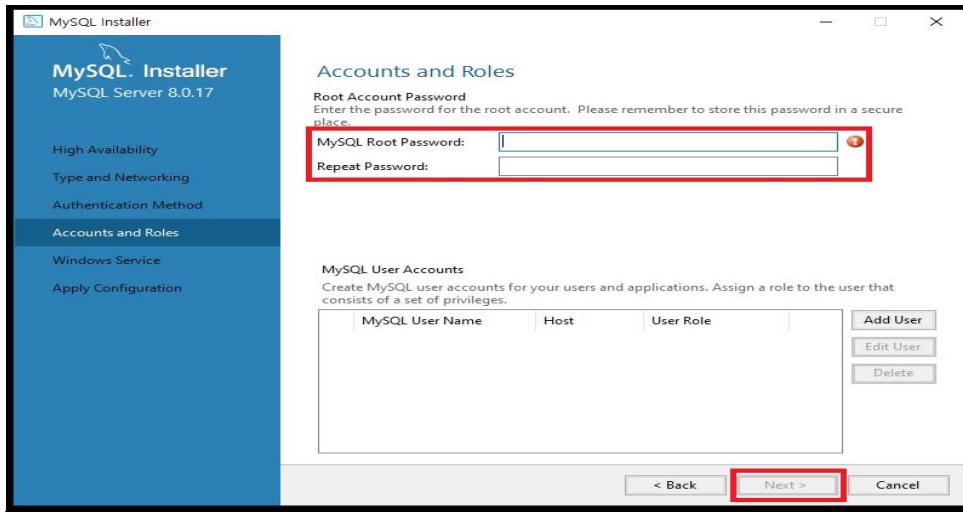
왼쪽의 그림과 같이 체크 후
Next 클릭



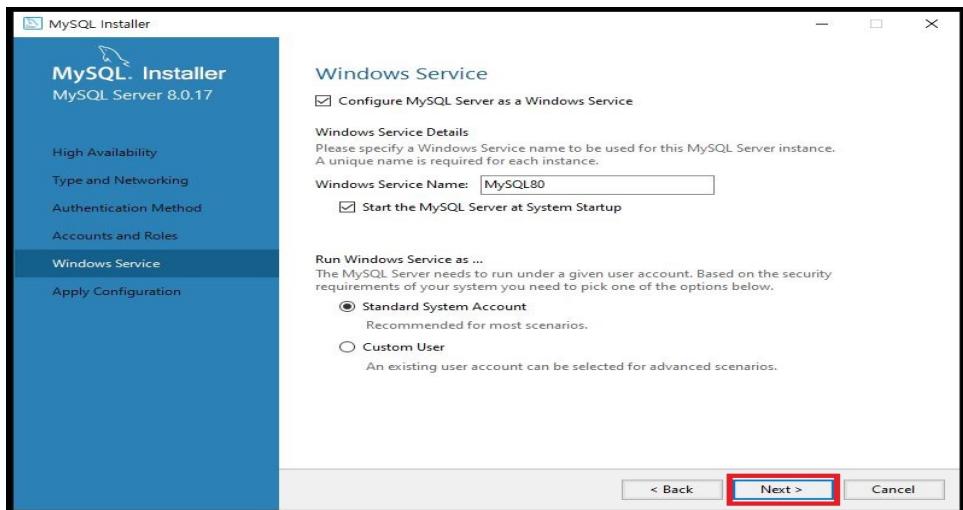
왼쪽의 그림과 같이 세팅 후
Next 클릭



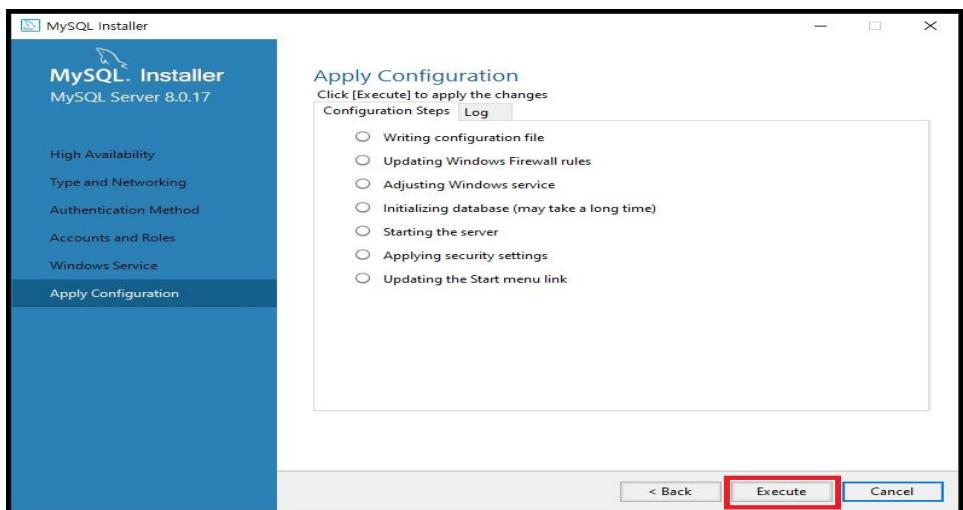
왼쪽의 그림과 같이 체크 후
Next 클릭



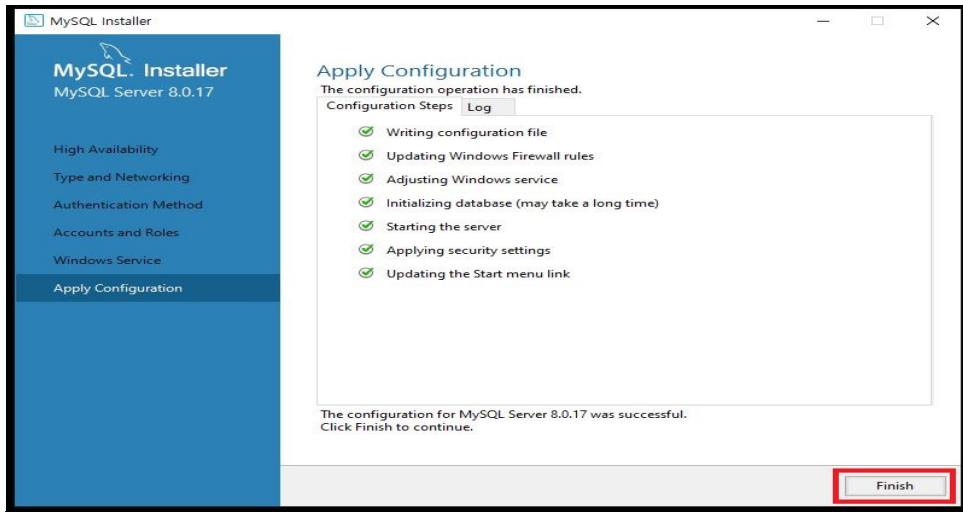
사용할 비밀번호 입력
한번 더 입력 후 Next 클릭



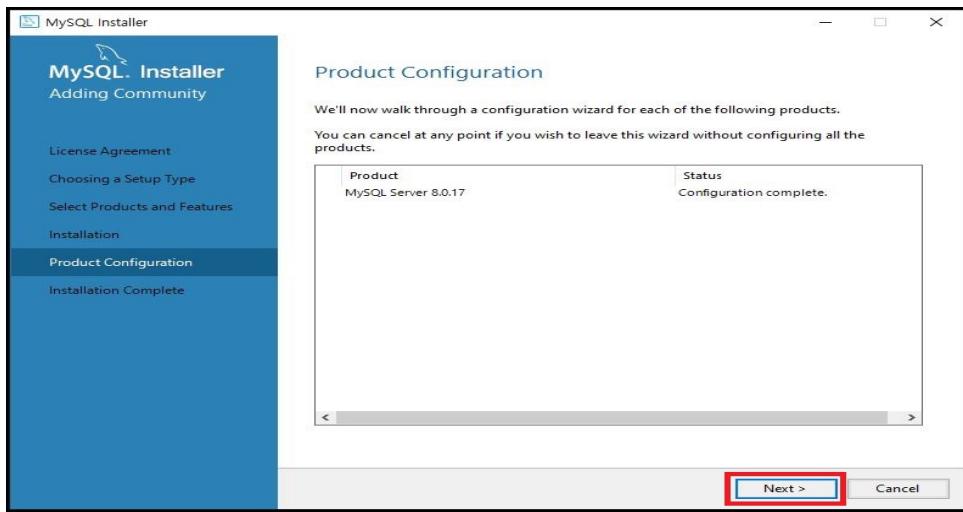
왼쪽의 그림과 같이 세팅 후
Next 클릭



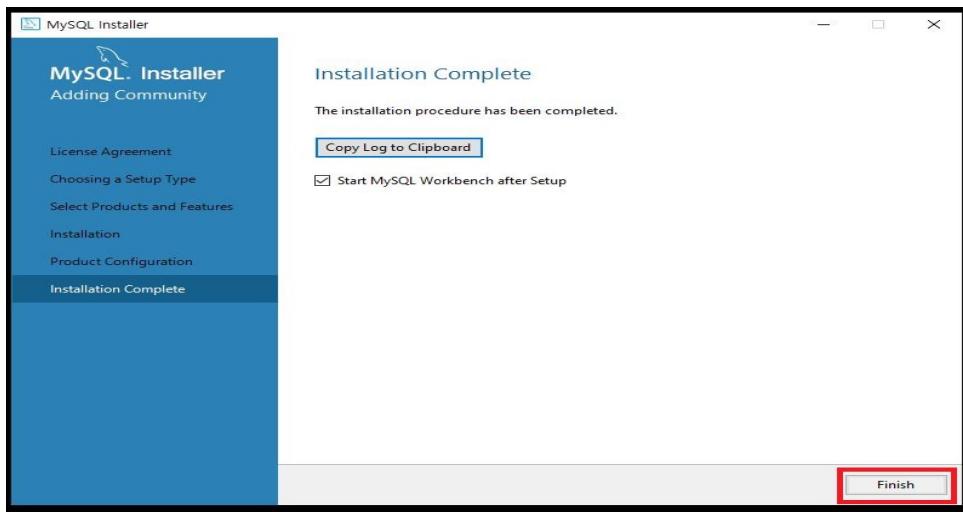
Excute 클릭



설치 완료 후 Finish 클릭

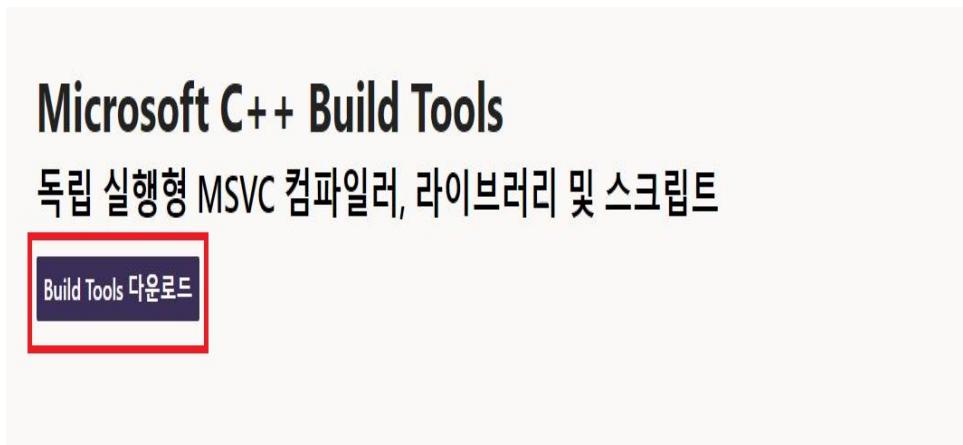


Next 클릭

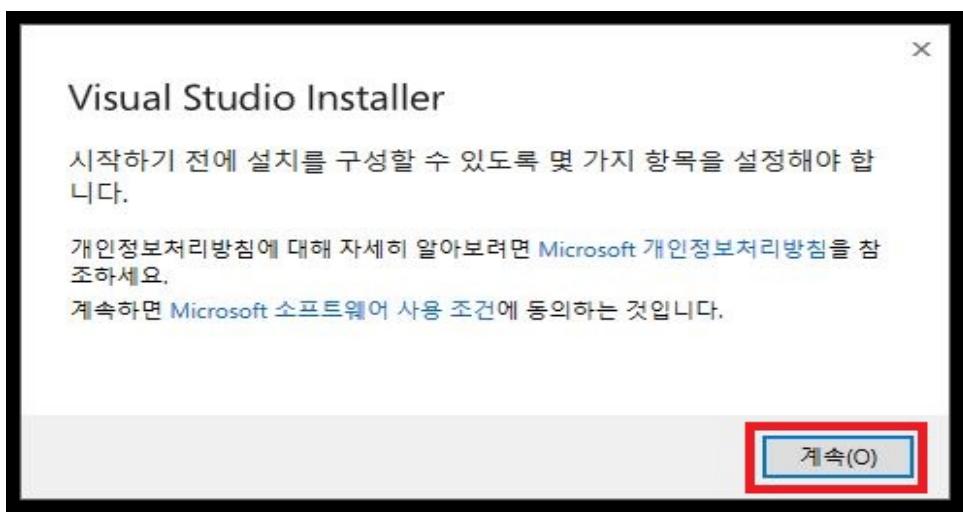


Finish 클릭

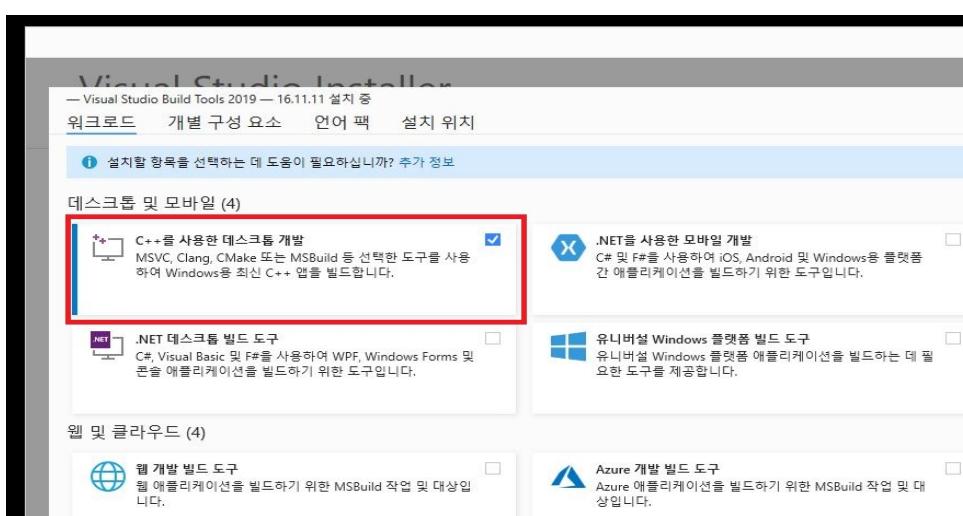
4) Microsoft C++ Build Tools



<https://visualstudio.microsoft.com/ko/visual-cpp-build-tools/>
접속 후 다운로드



계속 클릭



C++을 체크한 후 install 클릭

Visual Studio Installer

설치됨 사용 가능

Visual Studio Build Tools 2019

16.11.11

⚠️ 다시 시작이 필요합니다. 필요한 경우 나머지 설정은 다시 시작한 후 자동으로 다시 시작됩니다.

다시 시작(R)

다시 시작해야 함

성공! 한 단계만 수행하면 됩니다. Visual Studio를 시작하기 전에 컴퓨터를 다시 시작하세요.

다시 시작(R)

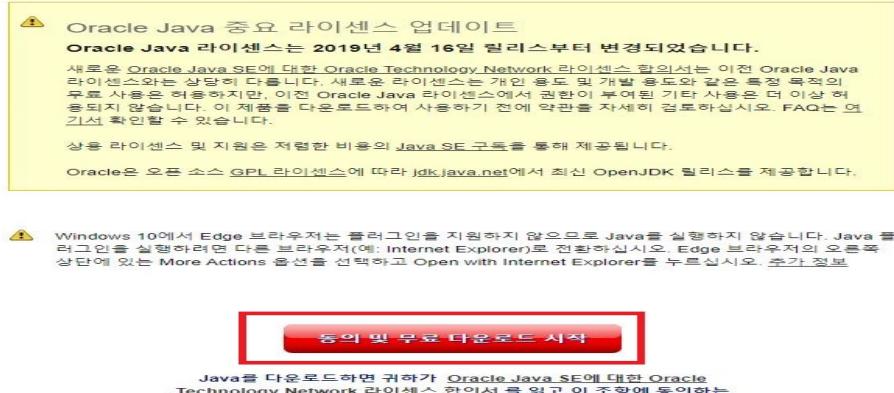
취소(A)

설치 완료 후 다시시작 클릭

5) Java

Windows용 Java 다운로드

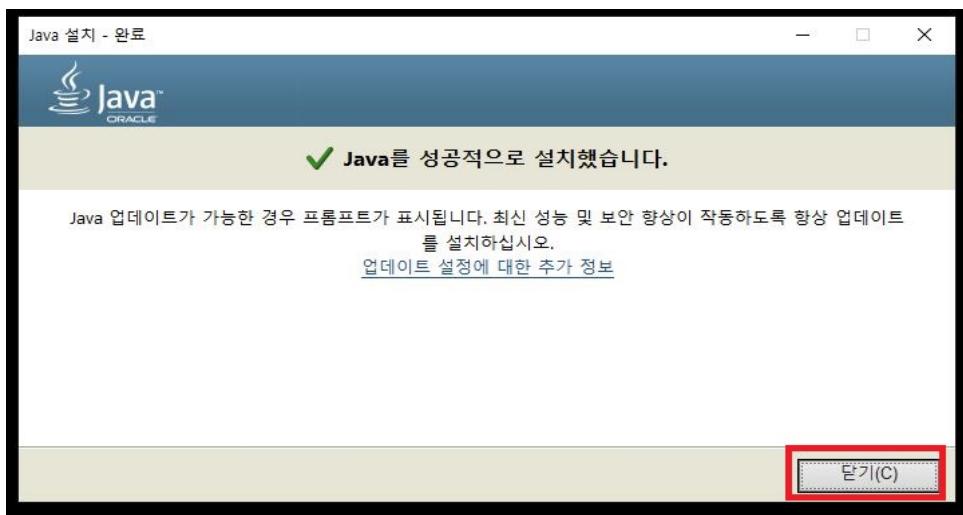
권장 사항 Version 8 Update 321 (파일 크기: 2.15 MB)
릴리스 날짜: 2022년 1월 18일



<https://www.java.com/ko/download/>
동의 후 다운로드



설치 클릭



설치완료

6) Java SE Development Kit

JDK 18 will receive updates under these terms, until October 2024.

Java 18 Java 17

Java SE Development Kit 18 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 for developing and testing programs written in the Java programming language and running on the Java platform.

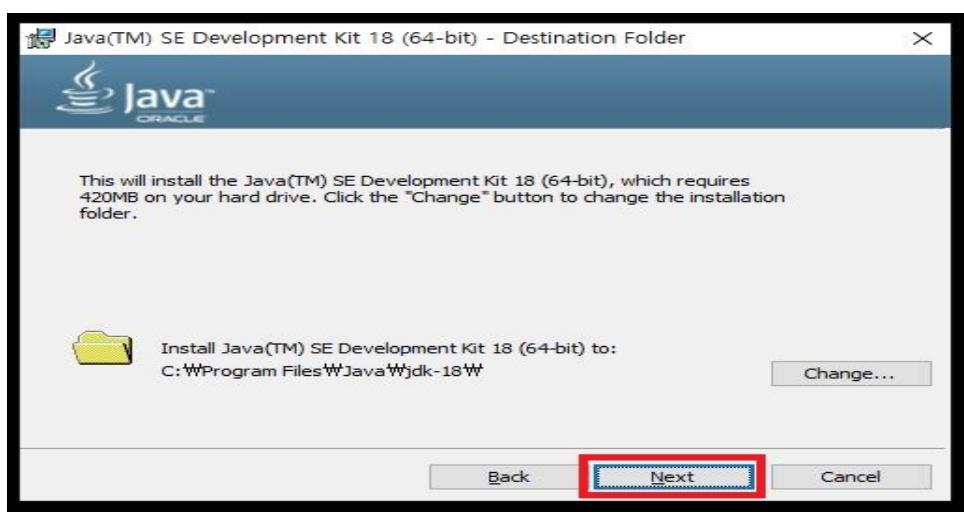
Product/file description	File size	Download
x64 Compressed Archive	172.54 MB	https://download.oracle.com/java/18/latest/jdk-18_windows-x64_bin.zip (sha256)
x64 Installer	153.2 MB	https://download.oracle.com/java/18/latest/jdk-18_windows-x64_bin.exe (sha256)
x64 MSI Installer	152.08 MB	https://download.oracle.com/java/18/latest/jdk-18_windows-x64_bin.msi (sha256)

<https://www.oracle.com/java/technologies/downloads/>

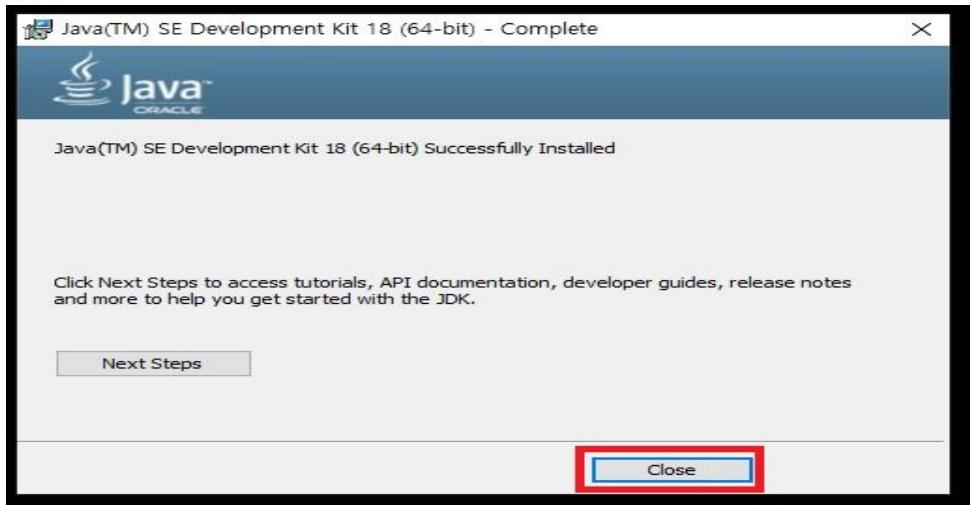
접속 후 자신의 os에 맞게
다운로드



Next 클릭



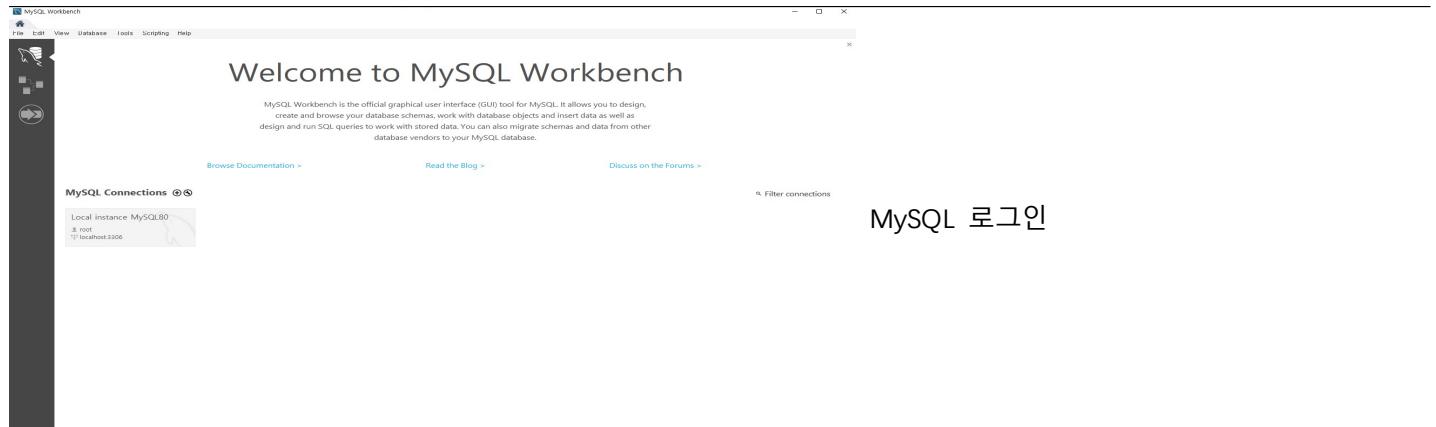
Next 클릭



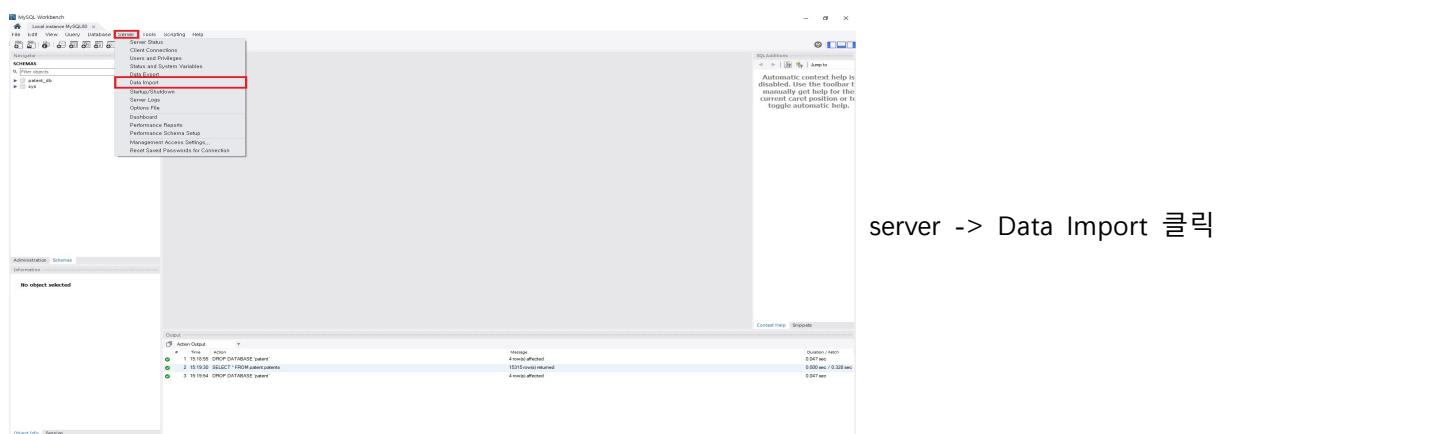
설치 완료

④ 프로젝트 실행 가이드

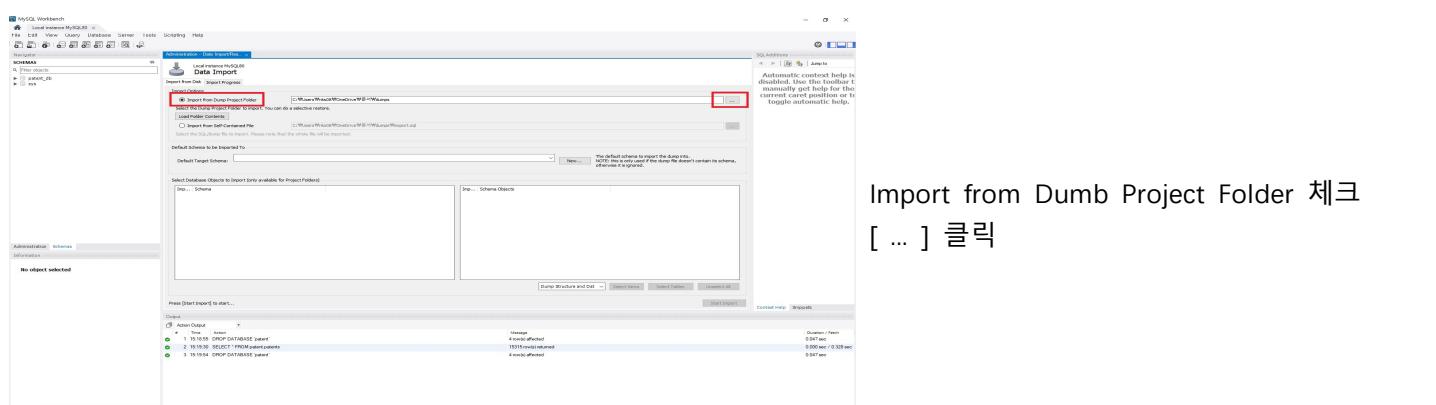
1) Data Import



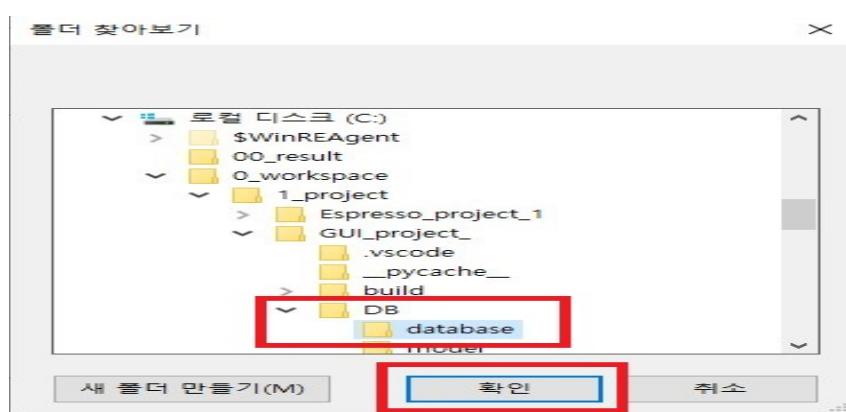
MySQL 로그인



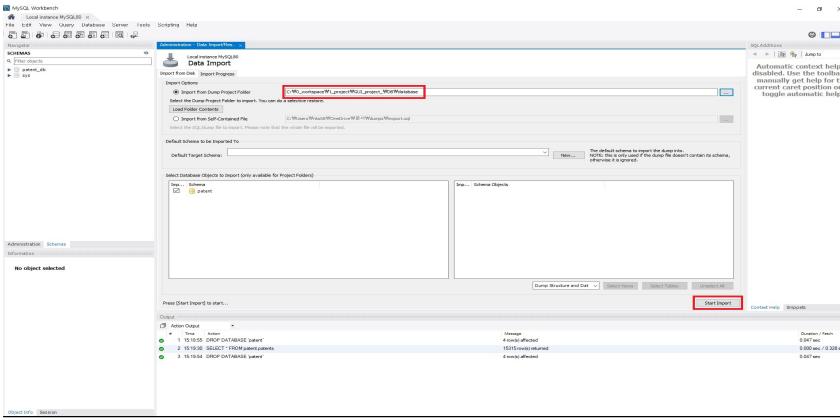
server -> Data Import 클릭



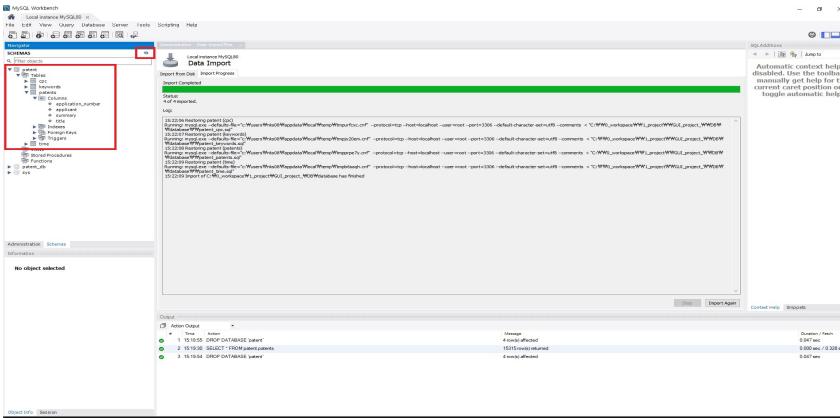
Import from Dumb Project Folder 체크
[...] 클릭



보유한 sql파일 경로 선택

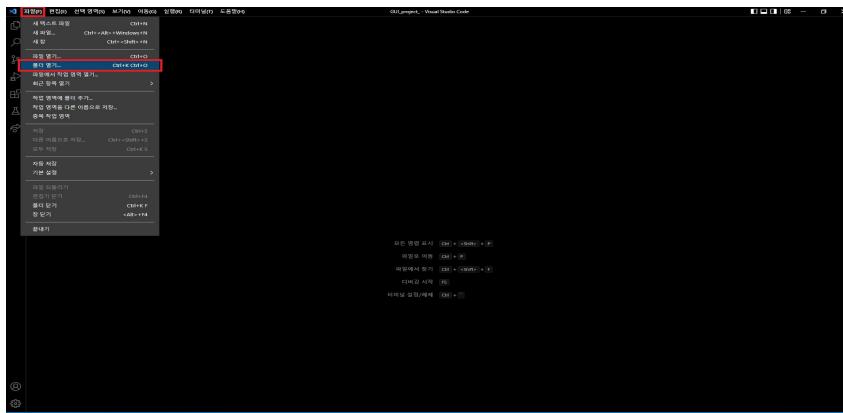


경로 확인 후 Start Import 클릭

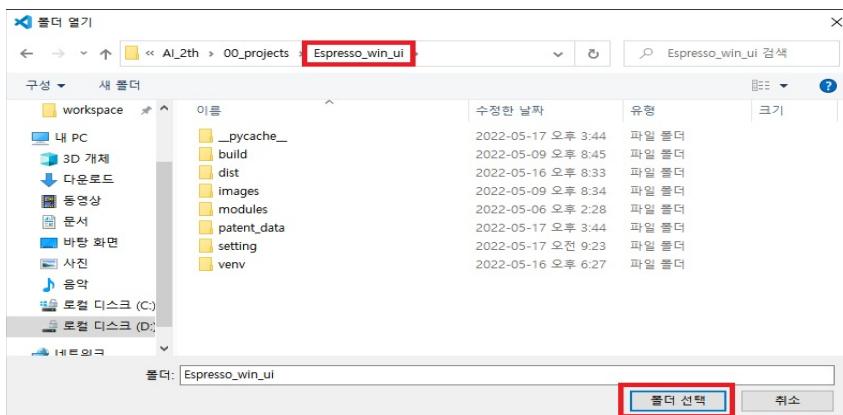


Import 완료 후 새로고침 버튼 클릭
데이터베이스 및 테이블 생성여부 확인

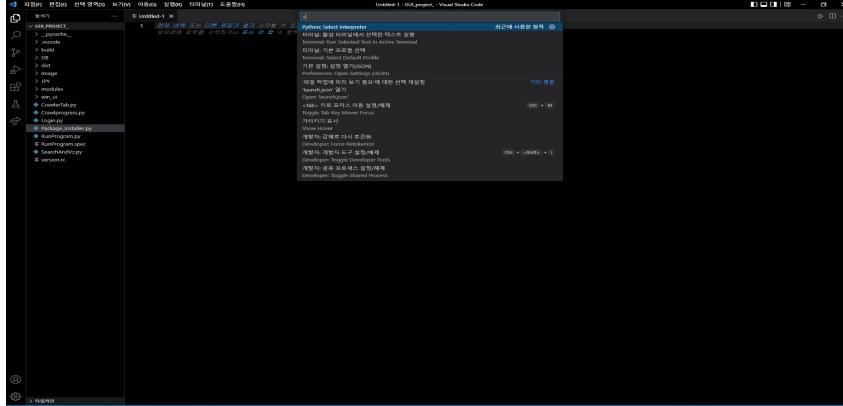
2) 프로젝트 폴더 열기



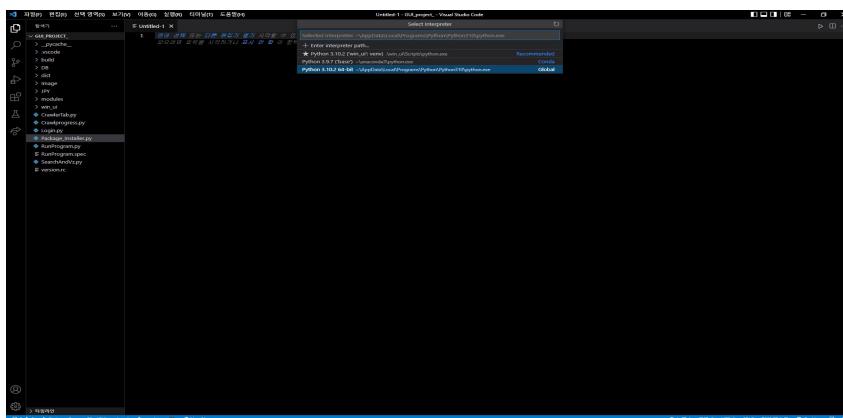
파일 -> 폴더 열기 클릭



Espresso_win_ui 폴더 선택



Ctrl + Shift + P를 누르고
Select Interpreter를 선택



파이썬 3.10.2를 선택

파일(F) 편집(E) ... launcher.py ... □ □ □ | 08 - □ ×

탐색기 ...

ESPRES... □ □ □ □ □

> __pycache__
> build
> dist
> images
> modules
> patent_data
> setting
> venv
launcher.py
= espresso.py
= espresso.spec

launcher.py x

launcher.py > ... □ > □ ...

```
1  from pkg_resources import Distribution
2  import sys
3  import subprocess
4
5
6  # 함수명: install_pkg
7  # 기능 : 패키지 설치
8  # 입력값: pkg=패키지명 | ver=패키지 버전
9  def install_pkg(pkg:str, ver:str):
10     package = f'{pkg}=={ver}' if pkg != ''
11     subprocess.check_call([sys.executable, '-m', 'pip', 'install', package])
12
13
14  # 함수명: check_pkgs
```

launcher.py -> ▶ 버튼 또는 F5키 눌러서
프로그램 실행