

개발환경 구축

개발 환경

- **Anaconda 설치**
- **Pycharm 설치 및 anaconda base와 연동**
- Anaconda: 수학, 과학 분야에서 사용되는 여러 패키지를 기본적으로 포함하고 있는 Python 배포판 (데이터 분석, 머신러닝에 필요한 라이브러리 포함)
- Pycharm: 파이썬 프로그램을 쉽게 개발할 수 있도록 하는 IDE

Anaconda 설치

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Anaconda Installers

Windows 

Python 3.8

64-Bit Graphical Installer (457 MB)

32-Bit Graphical Installer (403 MB)

MacOS 

Python 3.8

64-Bit Graphical Installer (435 MB)

64-Bit Command Line Installer (428 MB)

Linux 

Python 3.8

64-Bit (x86) Installer (529 MB)

64-Bit (Power8 and Power9) Installer (279 MB)

Window키 + Pause 키
검색->시스템

프로세서:

Intel(R) Xeon(R) Silver 4215R CPU @ 3.20GHz 3.19 GHz (2개 프로세서)

설치된 메모리(RAM):

64.0GB(63.6GB 사용 가능)

시스템 종류:

64비트 운영 체제, x64 기반 프로세서

펜 및 터치:

이 디스플레이에 사용할 수 있는 펜 또는 터치식 입력이 없습니다.

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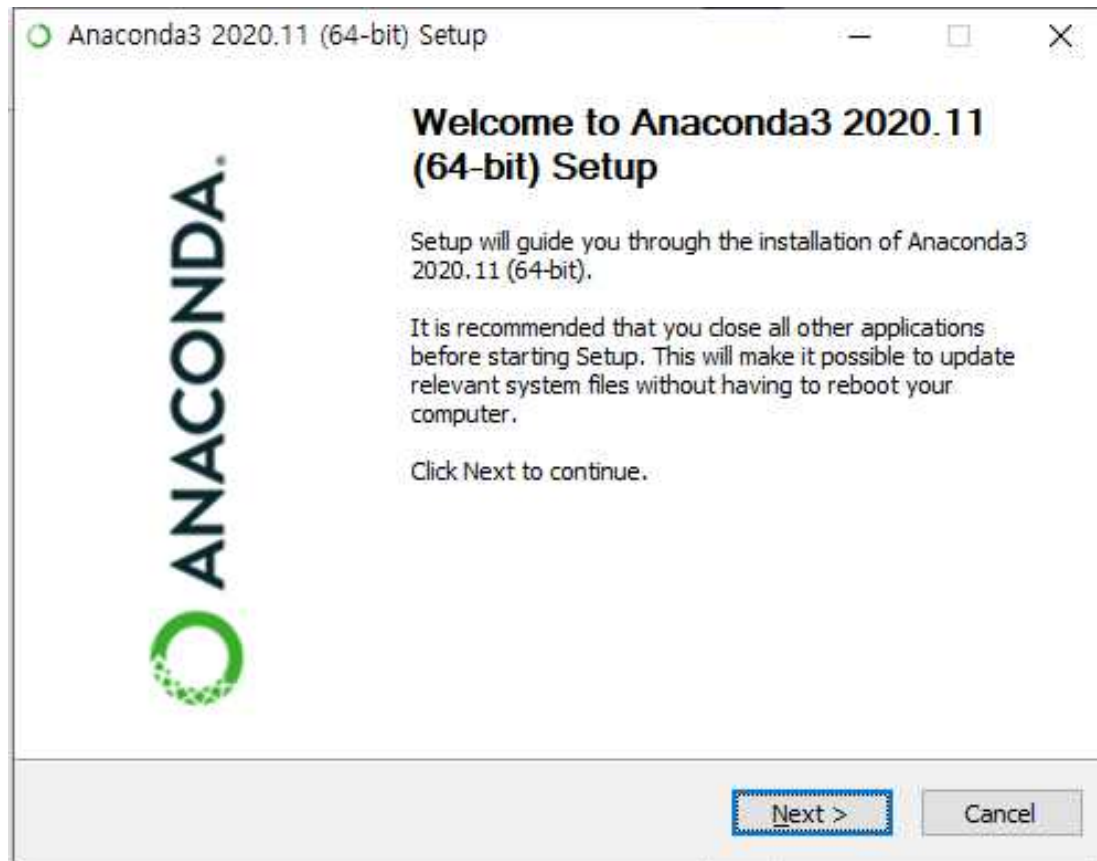
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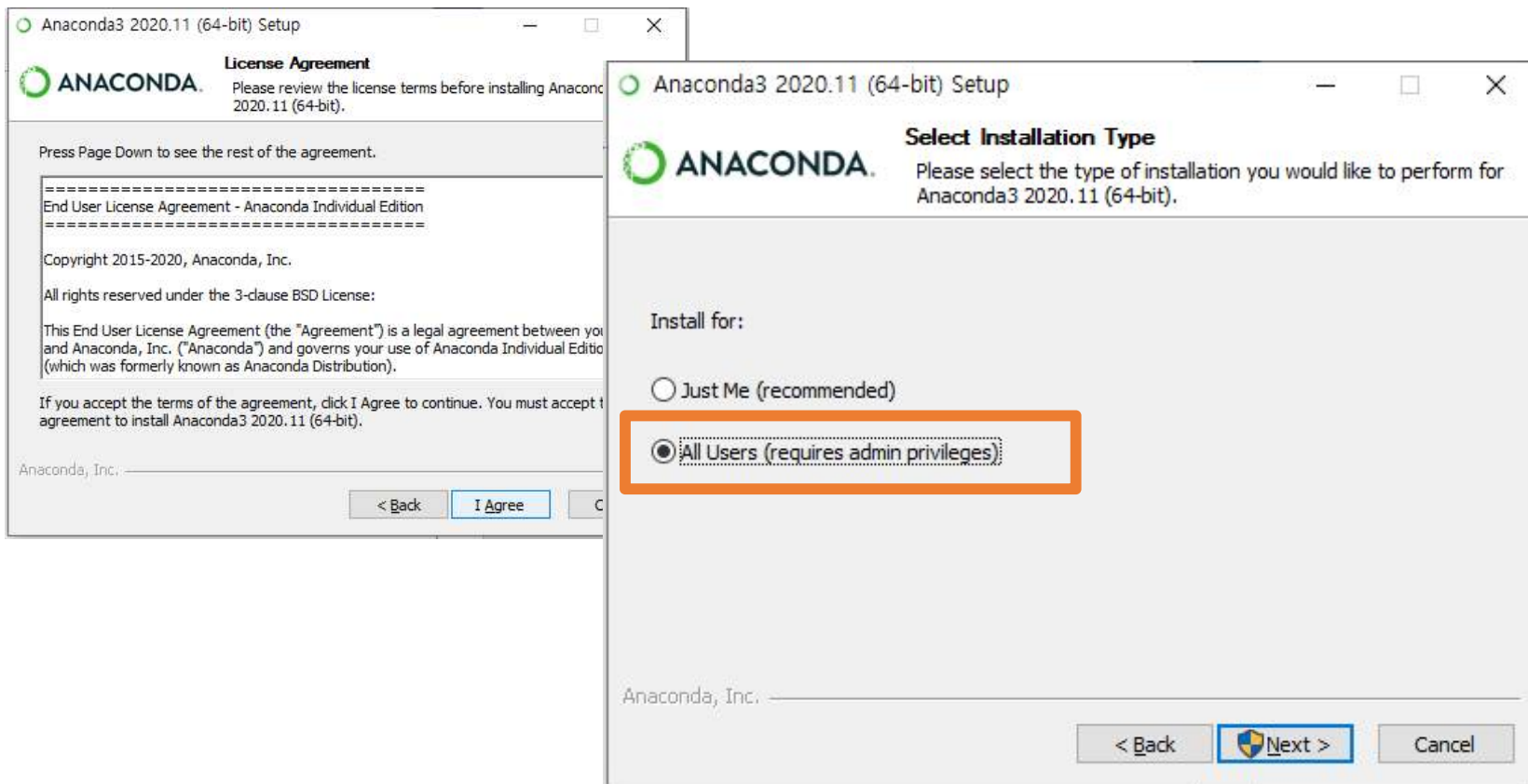
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Anaconda3-2020.....exe



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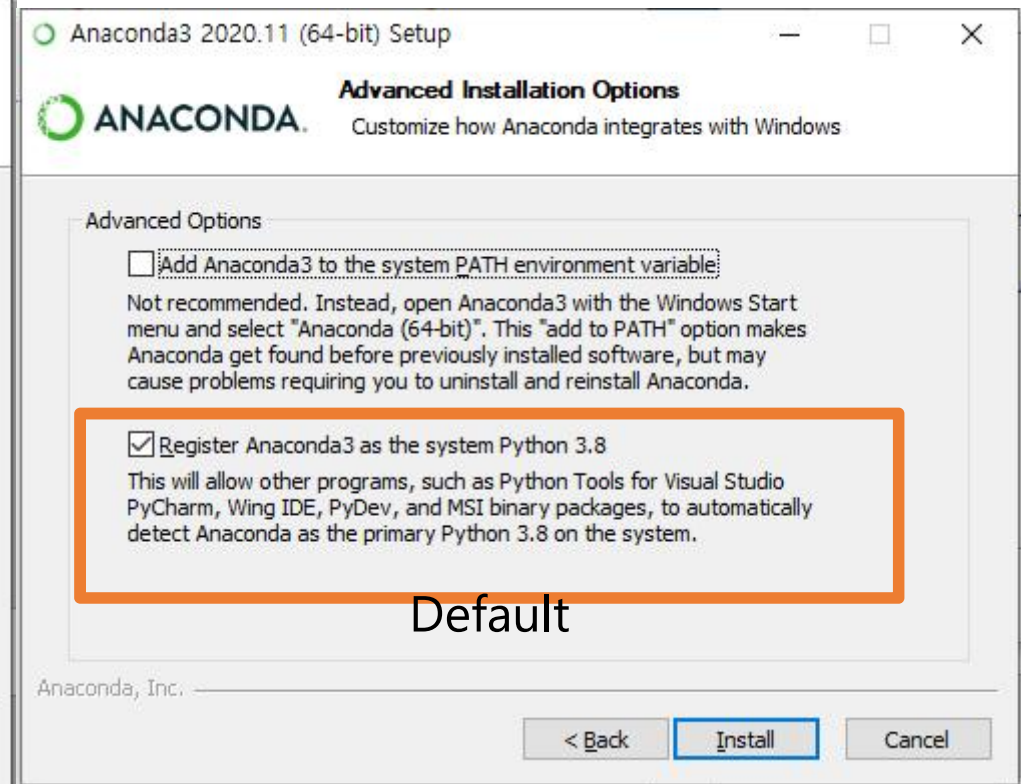
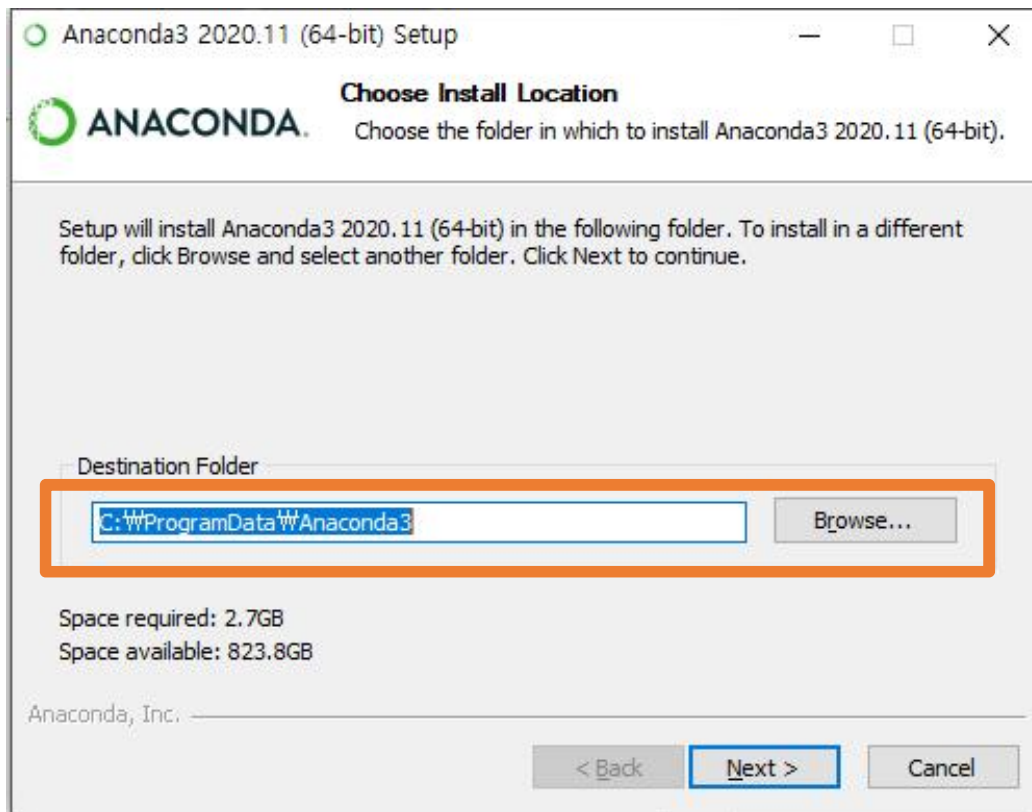
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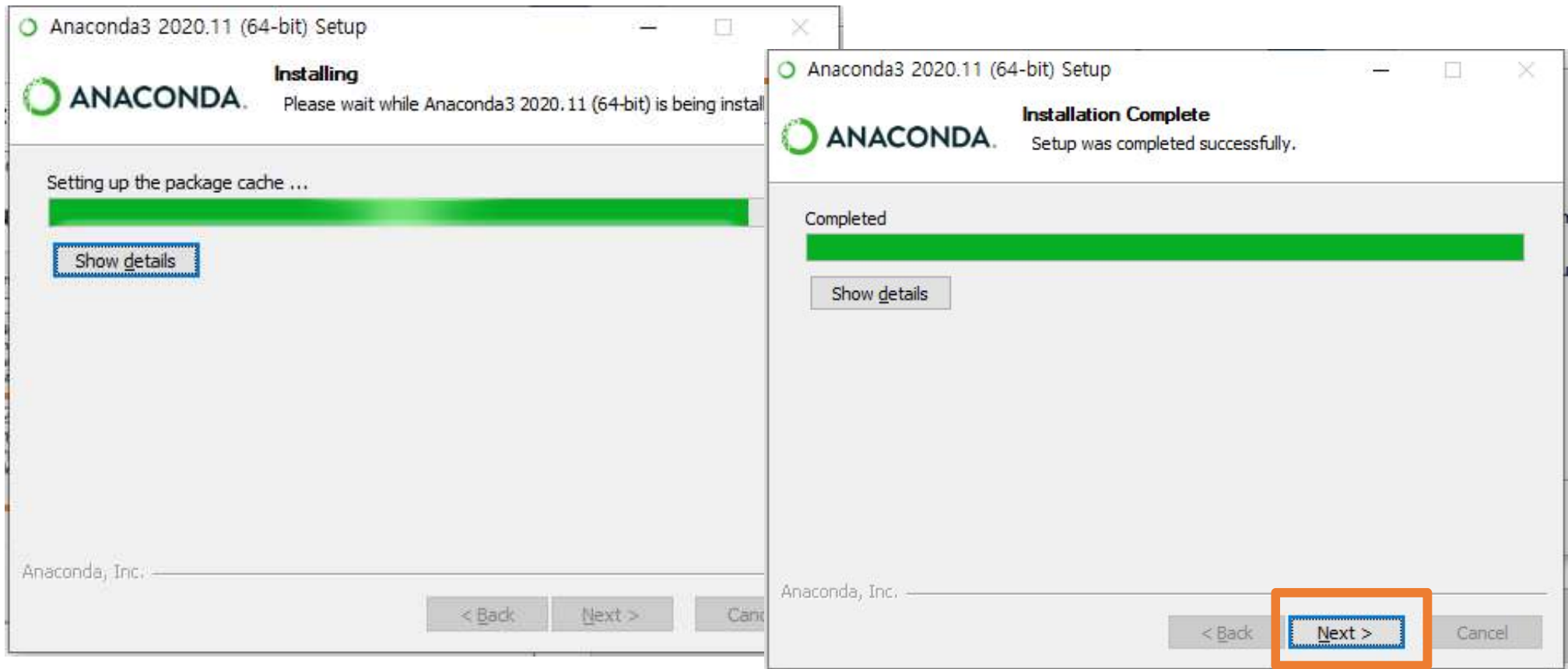
c:\programData\Anaconda3 ← 기억하기



Default

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Anaconda3 2020.11 (64-bit) Setup

ANACONDA Anaconda3 2020.11 (64-bit) Anaconda + JetBrains English

Working with Python and Jupyter notebooks is a breeze. You can be used with Anaconda. Download now and have the best tools at your fingertips.

<https://www.anaconda.com/pycharm>

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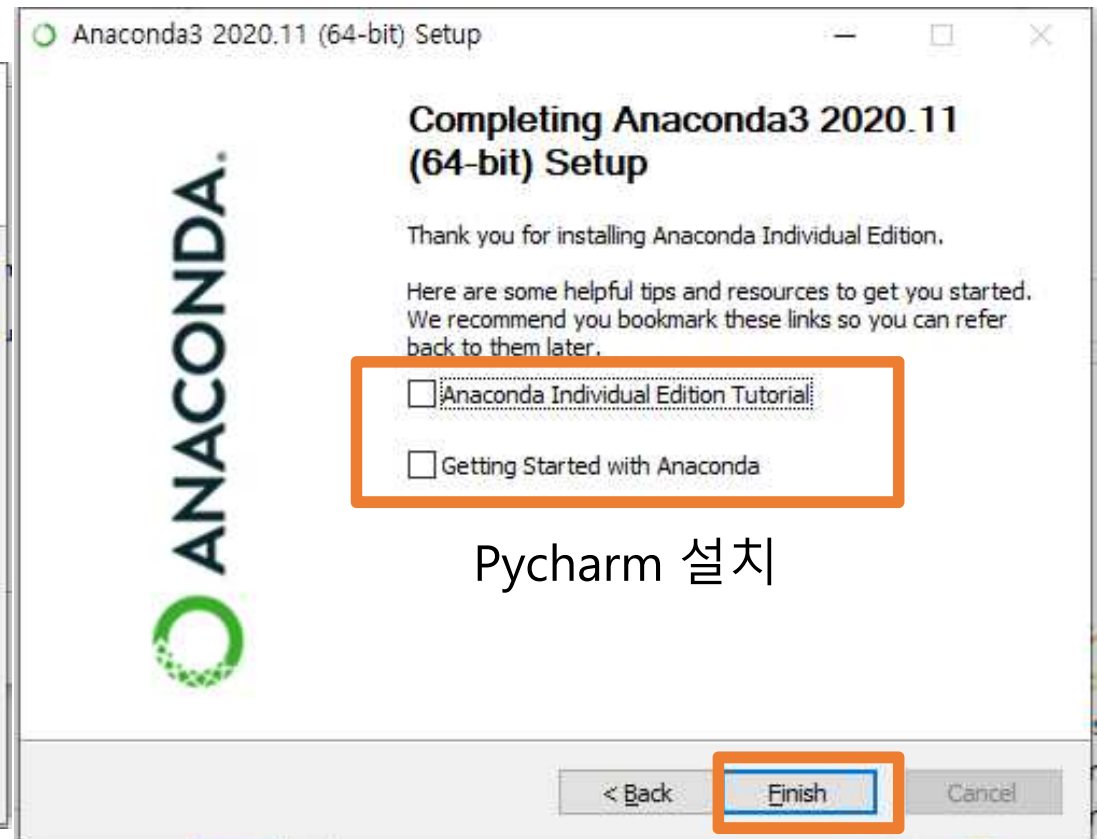
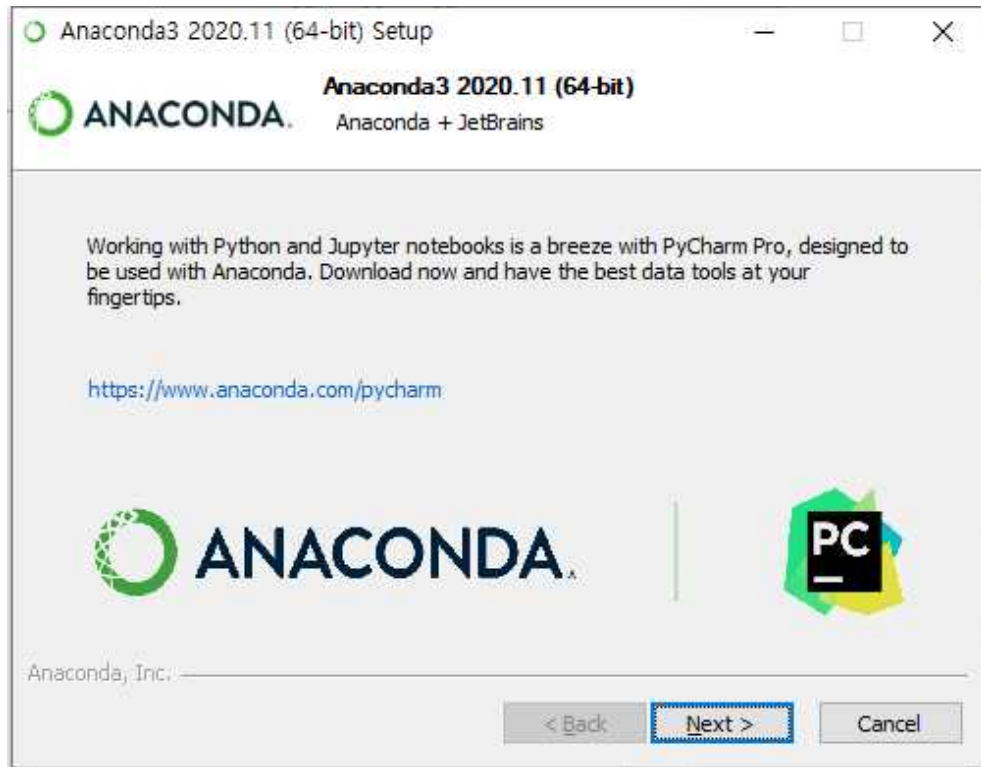
ANACONDA

PC PyCharm

ANACONDA

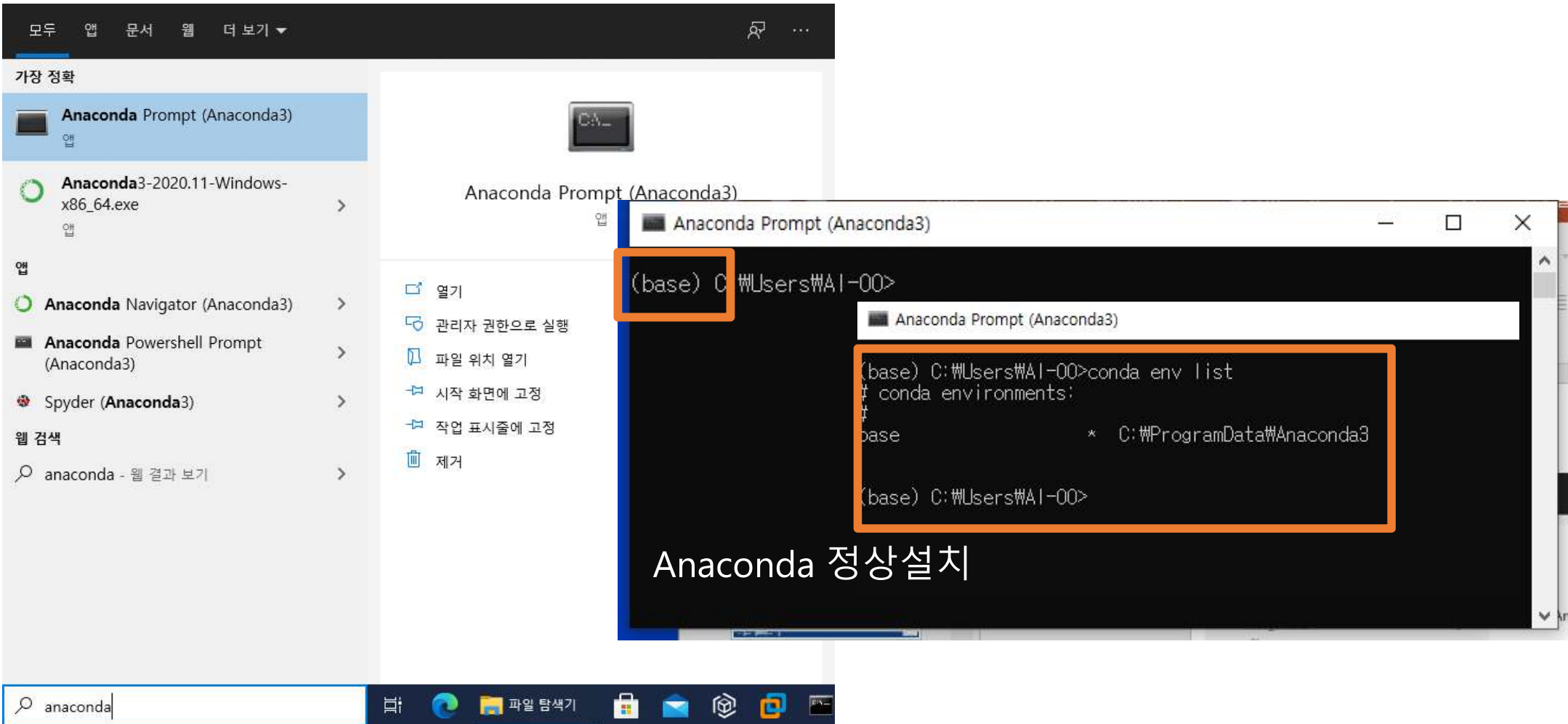
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Pycharm 설치

Anaconda 실행 및 확인

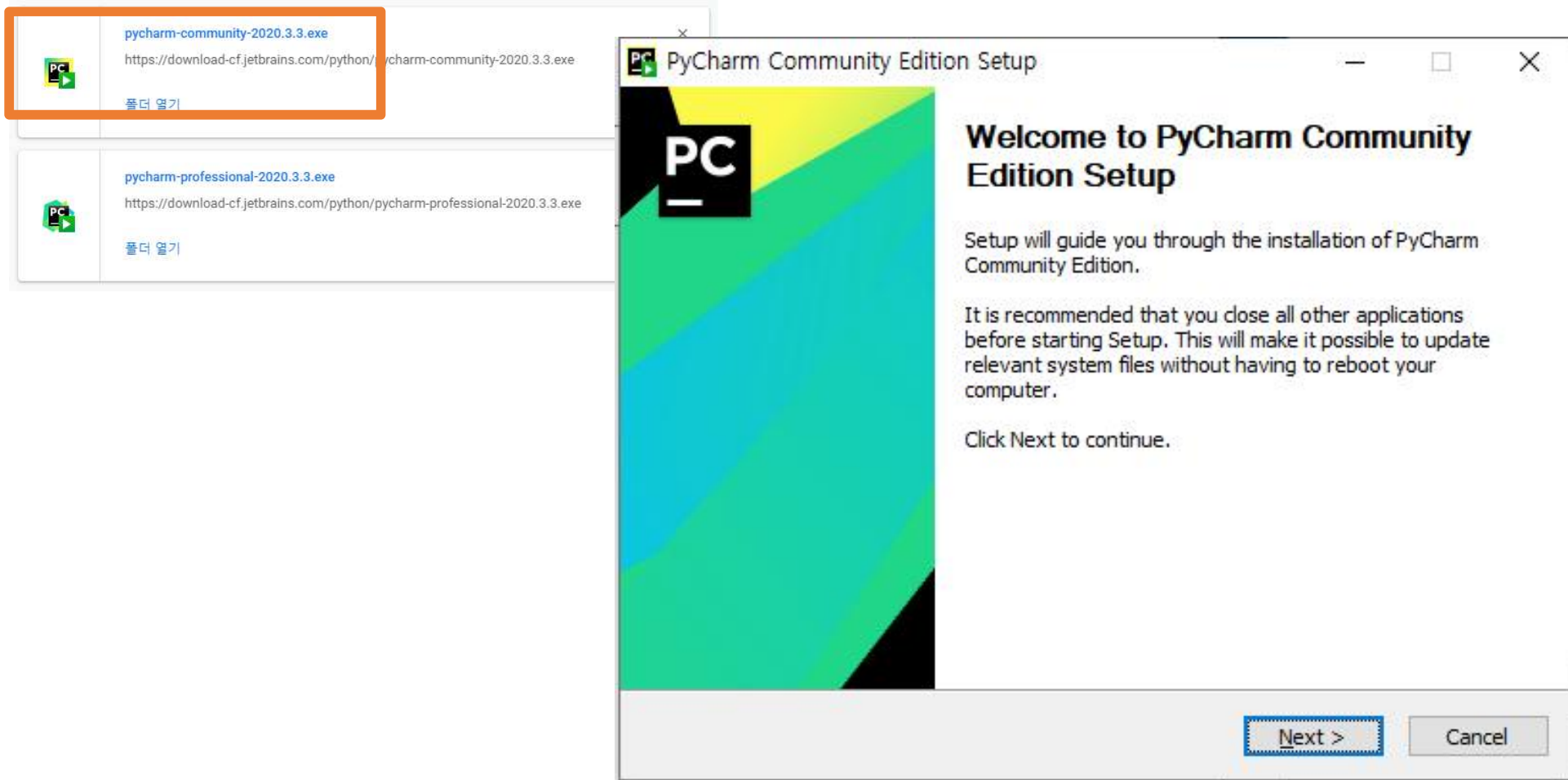


Anaconda 정상설치

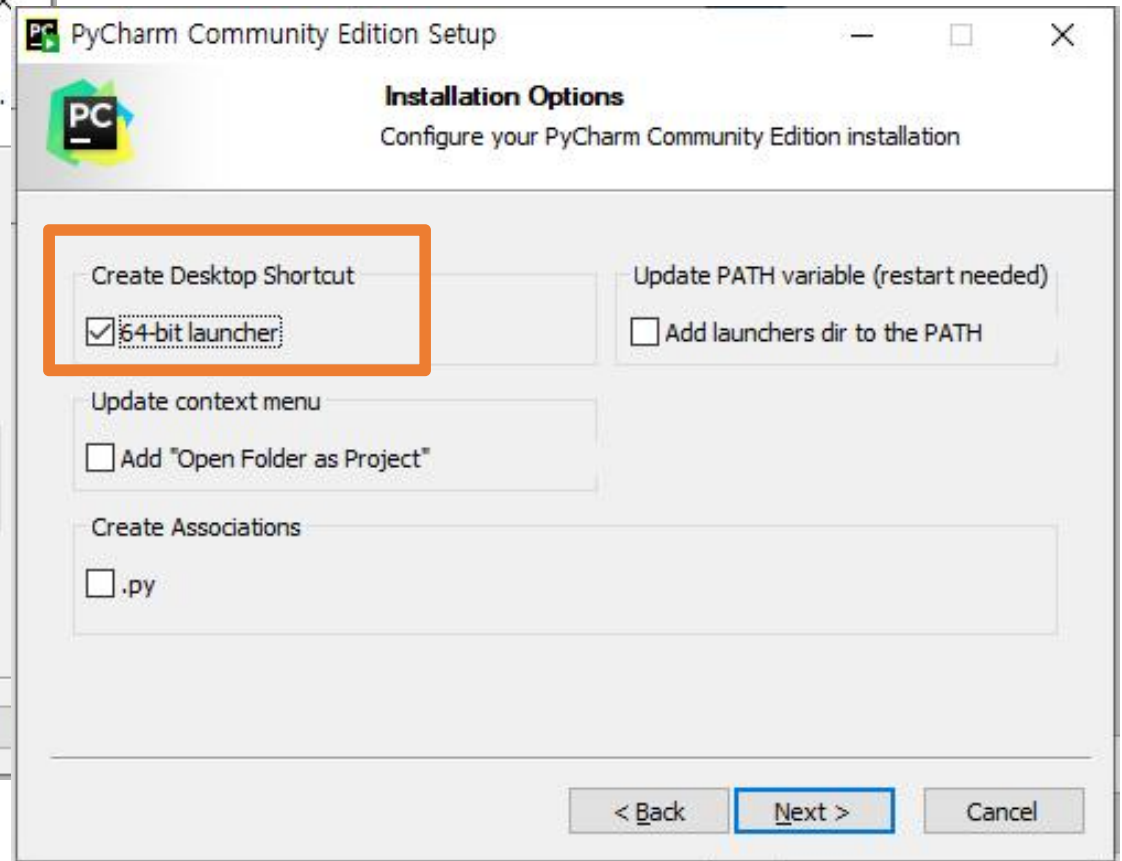
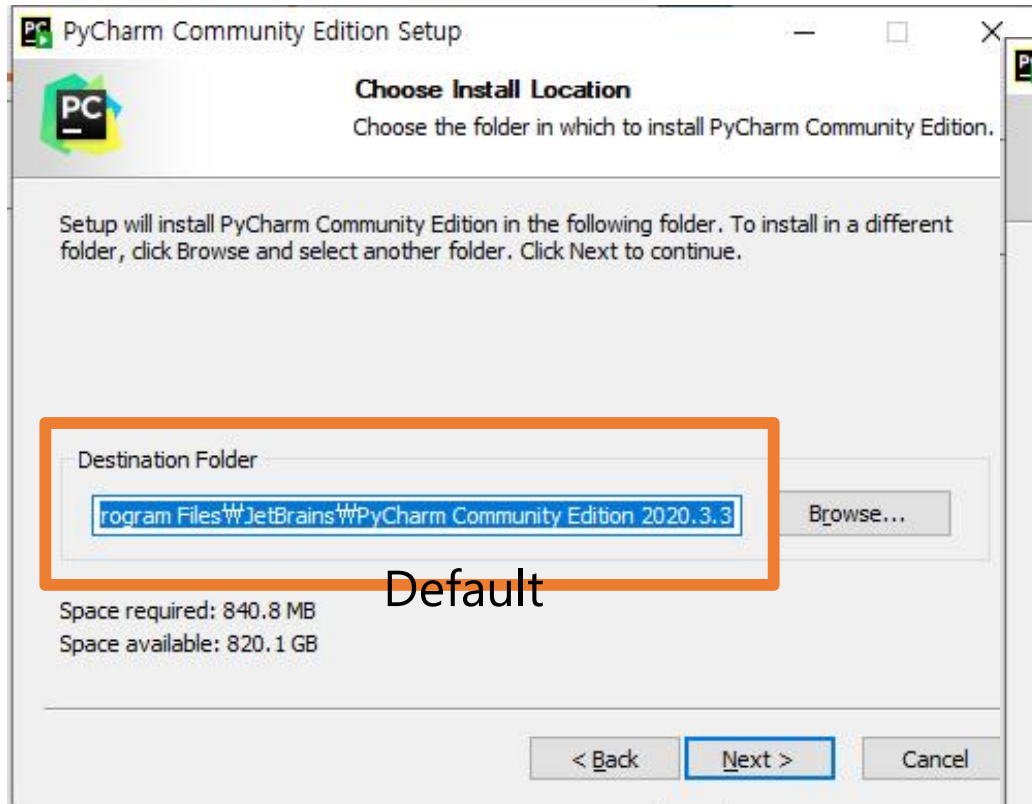
100%



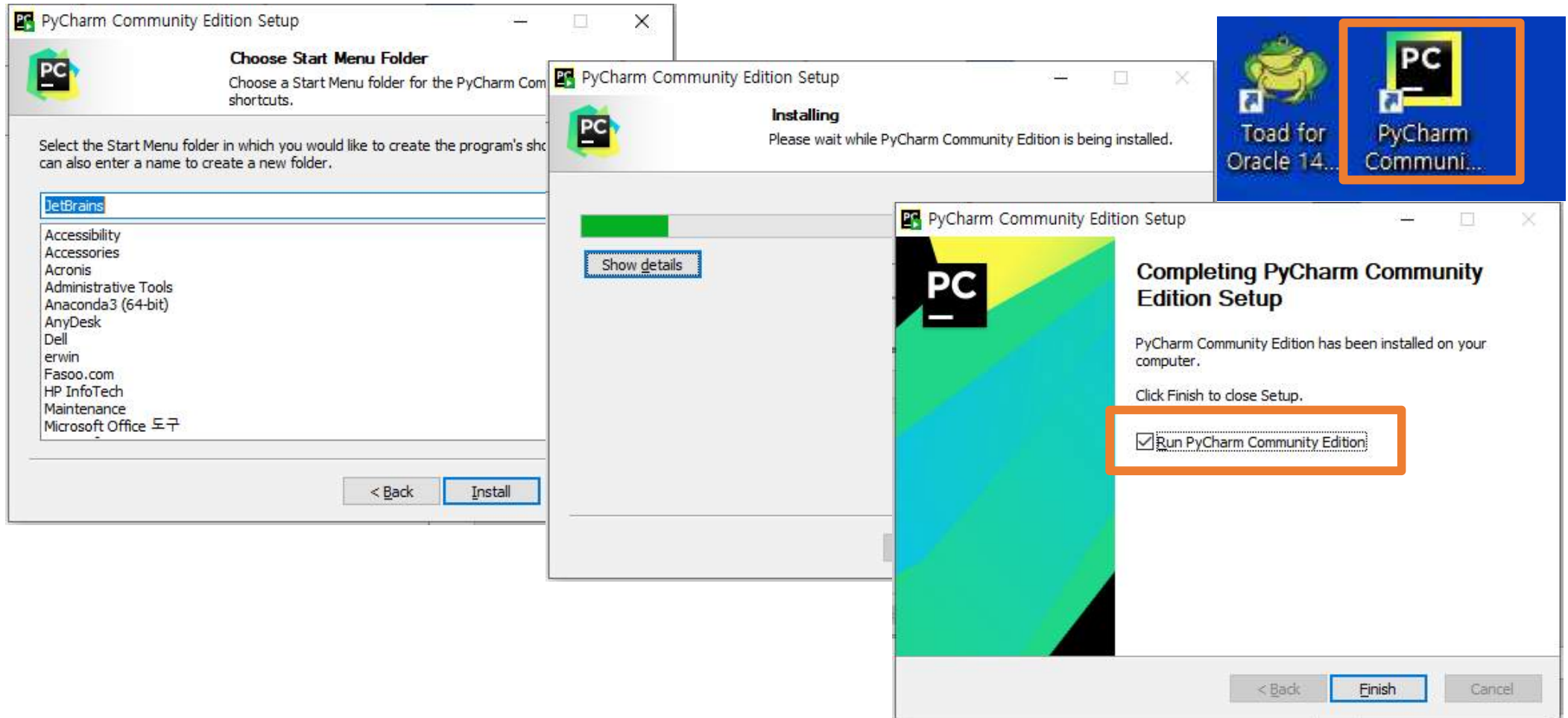
Pycharm 설치



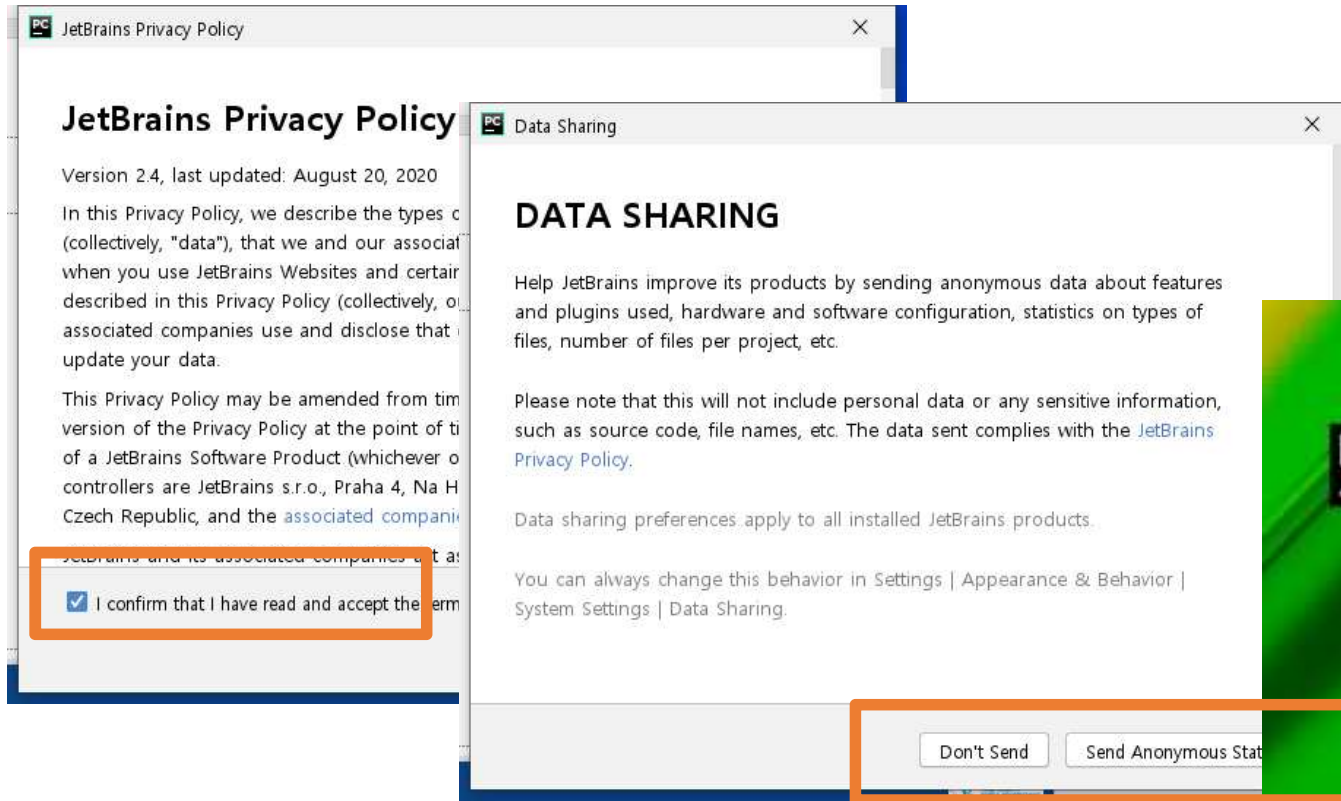
Pycharm 설치



Pycharm 설치



Pycharm 설치

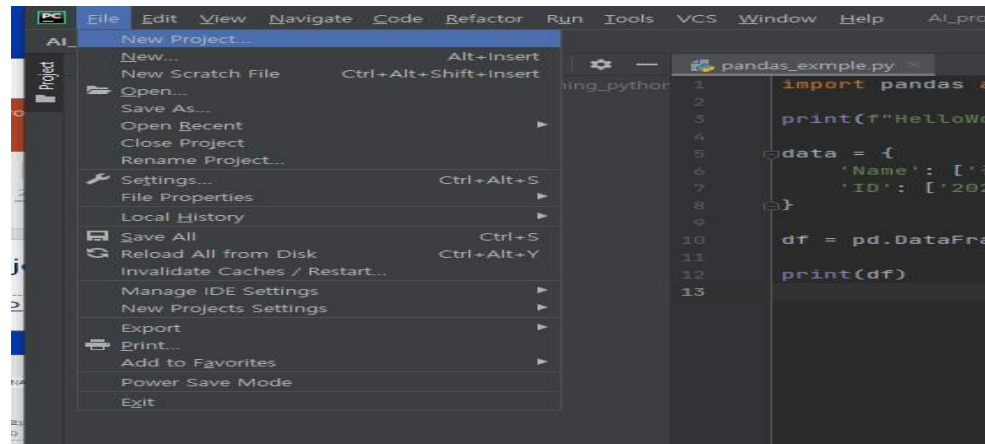


Pycharm – Project 생성 – Anaconda Base 연동

1. 관리자 권한으로 Pycharm 실행

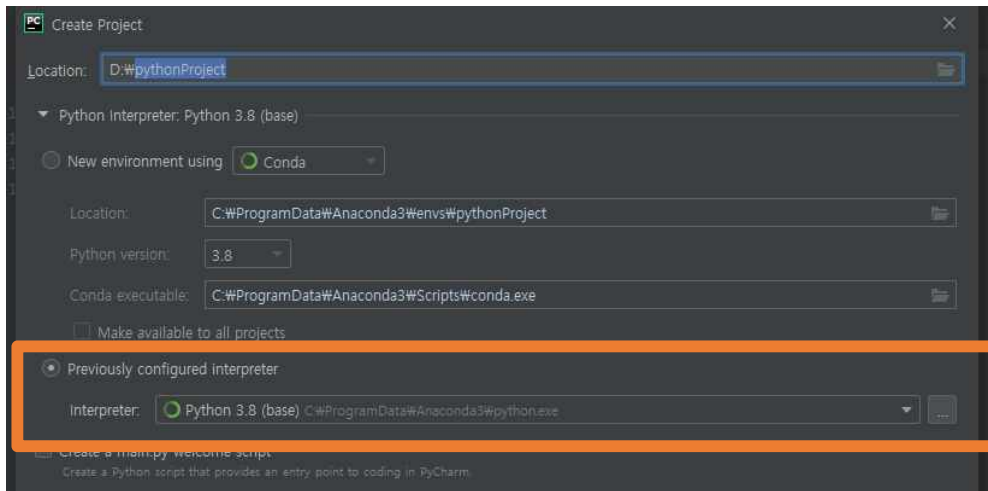


2. File->New Project

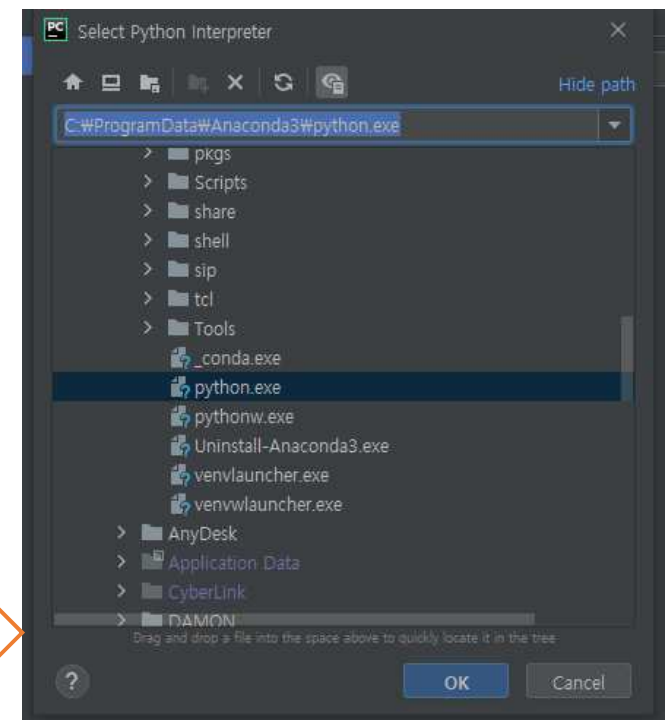
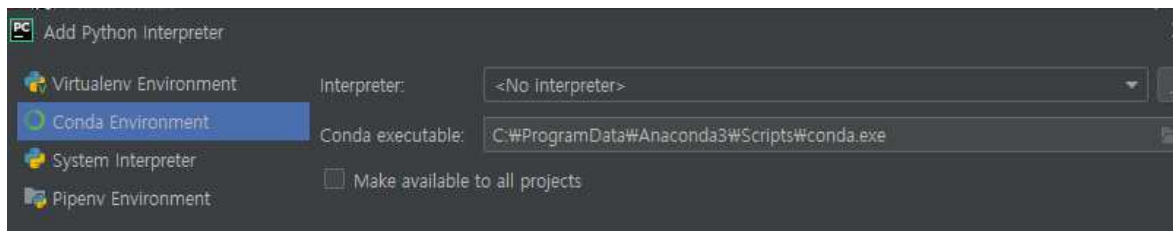


Pycharm – Project 생성 – Anaconda Base 연동

3. Anaconda (Base) 연동



4. Previously Interpreter->선택버튼->Conda Environment 선택 Anaconda 기본 위치 지정\Python.exe 지정



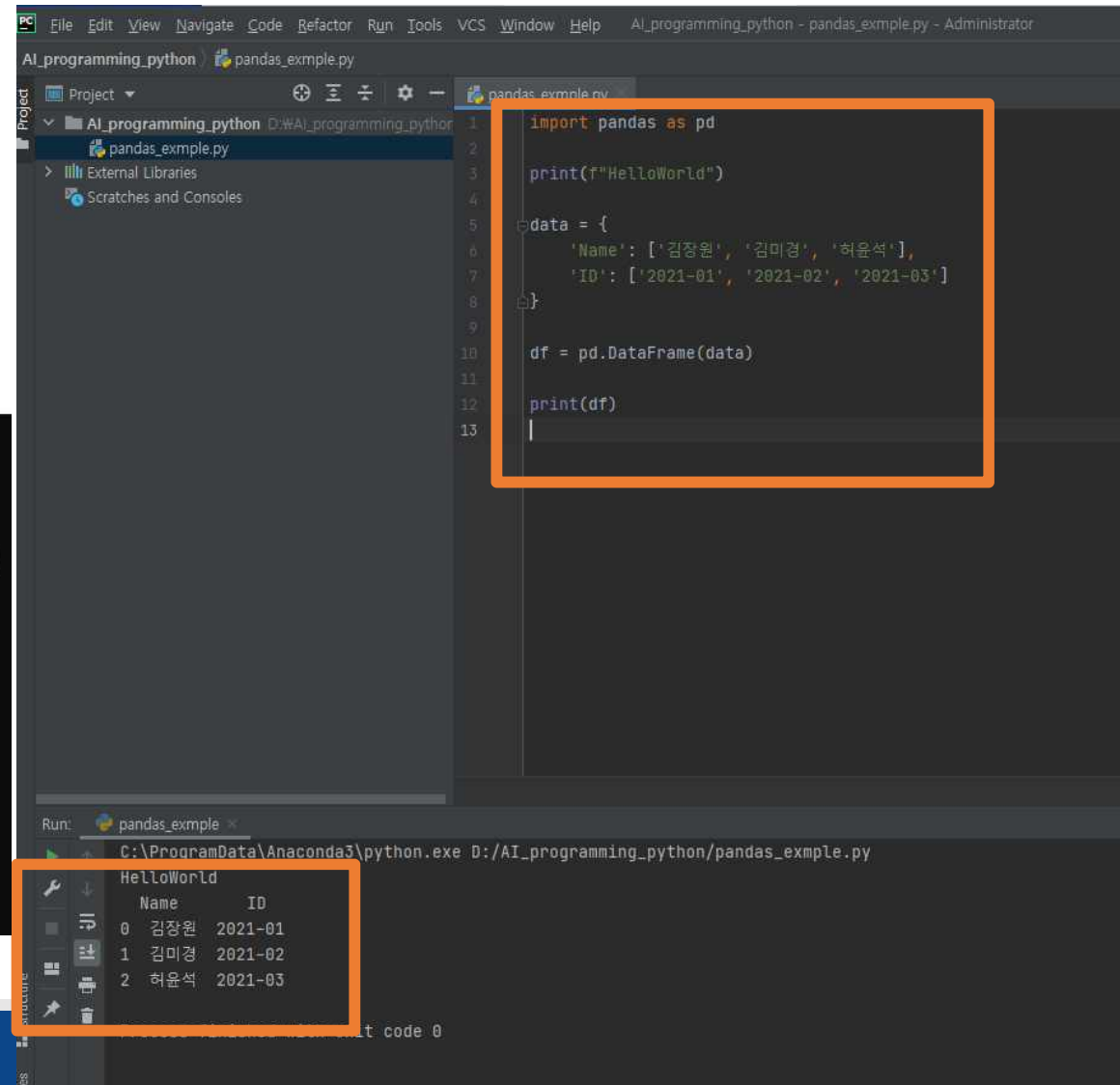
Pycharm – Project 생성 – Anaconda (Base) 연동

Pandas 기본 예제 실행

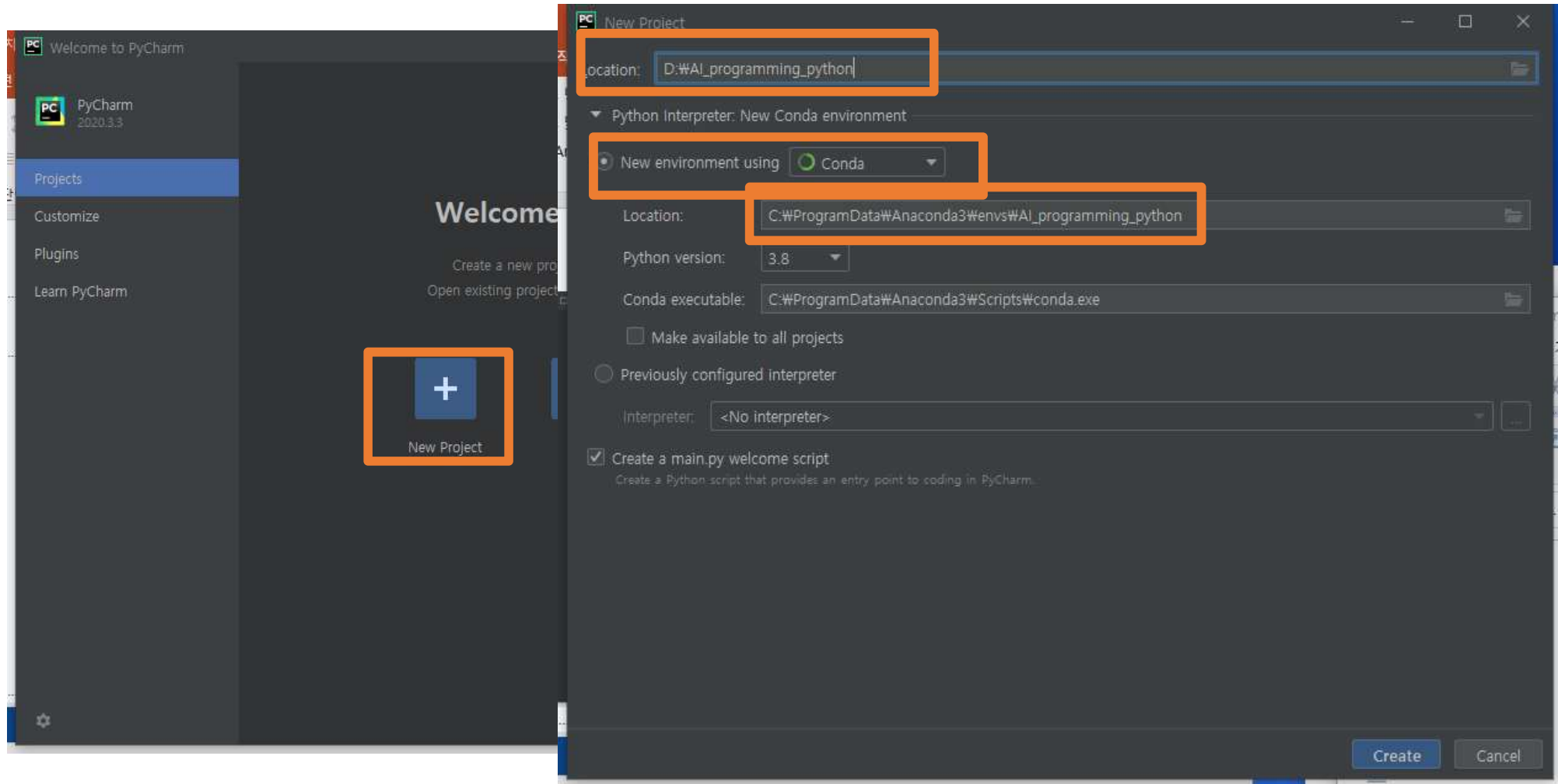
- Anaconda 설치 시 기본 셋팅으로 포함된 Pandas 패키지 사용 가능 (별도 pip install 하지 않아도 됨)

```
Anaconda Prompt (Anaconda3)
zstd 1.4.5 h04227a9_0

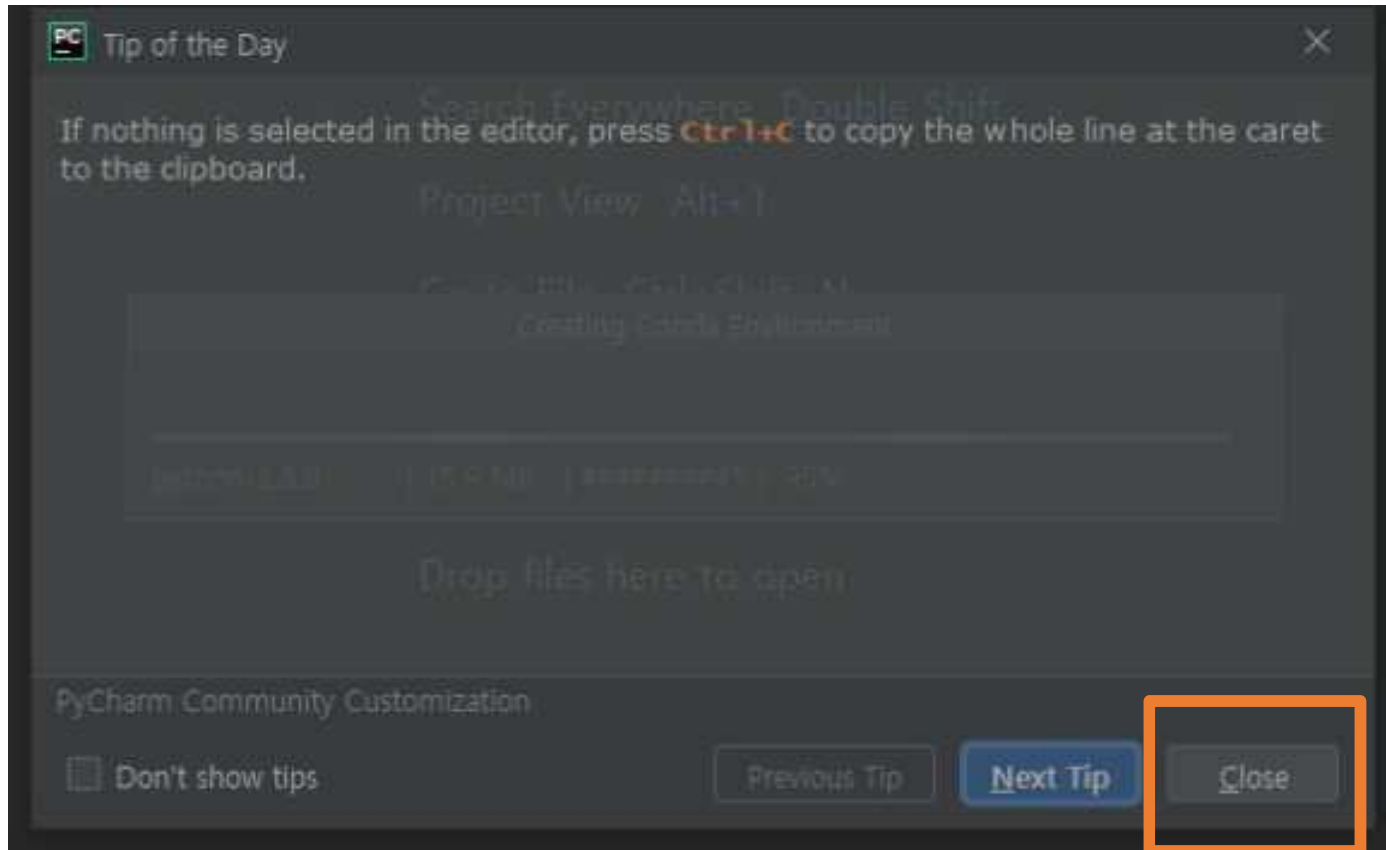
(base) C:\Users\AI-00>
(base) C:\Users\AI-00>conda list pan*
# packages in environment at C:\ProgramData\Anaconda3:
#
# Name                        Version      Build                Channel
conda-package-handling       1.7.2        py38h76e460a_0      conda-forge
diff-match-patch              20200713     py_0                 conda-forge
libspatialindex               1.9.3        h33f27b4_0           conda-forge
msgpack-python                1.0.0        py38h74a9793_1      conda-forge
multipledispatch              0.6.0        py38_0               conda-forge
pandas                         1.1.3        py38ha925a31_0      conda-forge
pandoc                         2.11         h9490d1a_0           conda-forge
pandocfilters                 1.4.3        py38haa95532_1      conda-forge
paramiko                      2.7.2        py_0                 conda-forge
parso                         0.7.0        py_0                 conda-forge
partd                         1.1.0        py_0                 conda-forge
path                          15.0.0       py38_0               conda-forge
path.py                       12.5.0       py_0                 conda-forge
pathlib2                      2.3.5        py38_0               conda-forge
pathtools                     0.1.2        py_1                 conda-forge
```



Pycharm 실행/프로젝트 생성/New Environment



Pycharm 실행/프로젝트 생성



Pycharm 실행/프로젝트 생성/실행

The image shows two overlapping windows. The left window is an Anaconda Prompt terminal with the following text:

```
(base) C:\Users\AI-00>conda env list
# conda environments:
#
base                * C:\ProgramData\Anaconda3
AI_programming_python C:\ProgramData\Anaconda3\envs\AI_

(base) C:\Users\AI-00>
```

The text "Anaconda Env" is overlaid on the terminal window.

The right window is the PyCharm IDE. The top toolbar shows the Run button (a green play icon). The bottom status bar shows the command: `C:\ProgramData\Anaconda3\envs\AI_programming_python\python.exe D:/AI_programming_python/main.py`. The output console shows "Hi, PyCharm" and "Process finished with exit code 0".

2개 이상 파일
Ctrl+Shift+F10키

또는 Shift+F10키

Appendix: conda 가상환경 생성/삭제 (Command line 환경)

```
smg-research 0.4.0 py_0
testpath      0.4.4 py_0

(base) C:\Users\WAI-00>conda create -n tmp anaconda
Collecting package metadata (current_repodata.json): done
Solving environment: failed with repodata from current_repodata.json, will retry with next repodata source.
Collecting package metadata (repodata.json): done
Solving environment: -
```

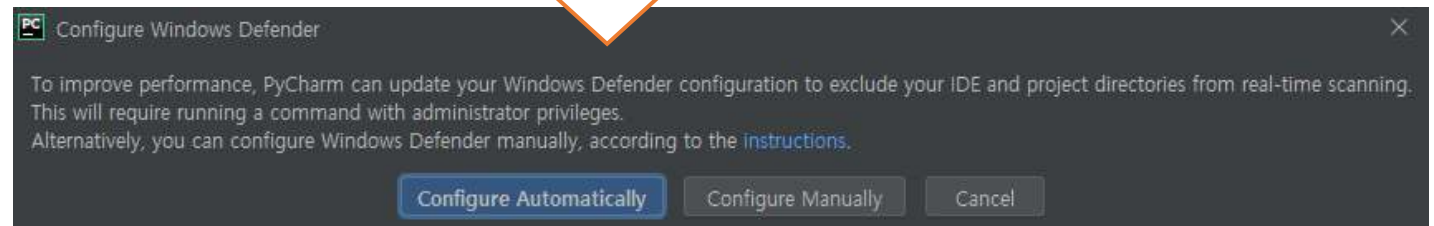
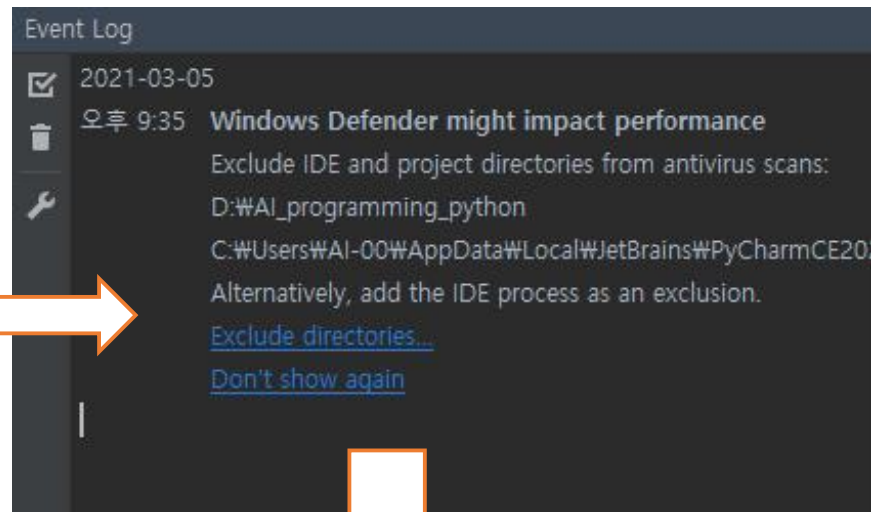
가상환경 생성

```
conda env list # 가상환경 목록 확인
conda create -n 가상환경이름 python # 파이썬 가상환경 만들기
conda create -n 가상환경이름 python=3.7 # 파이썬 특정 버전 가상환경 만들기
conda create -n 가상환경이름 python anaconda # 기본 라이브러리 함께 설치
```

가상환경 삭제

```
conda remove --name tensorflow35 --all
```

Appendix: Pycharm 관리자 권한으로 Window Defend

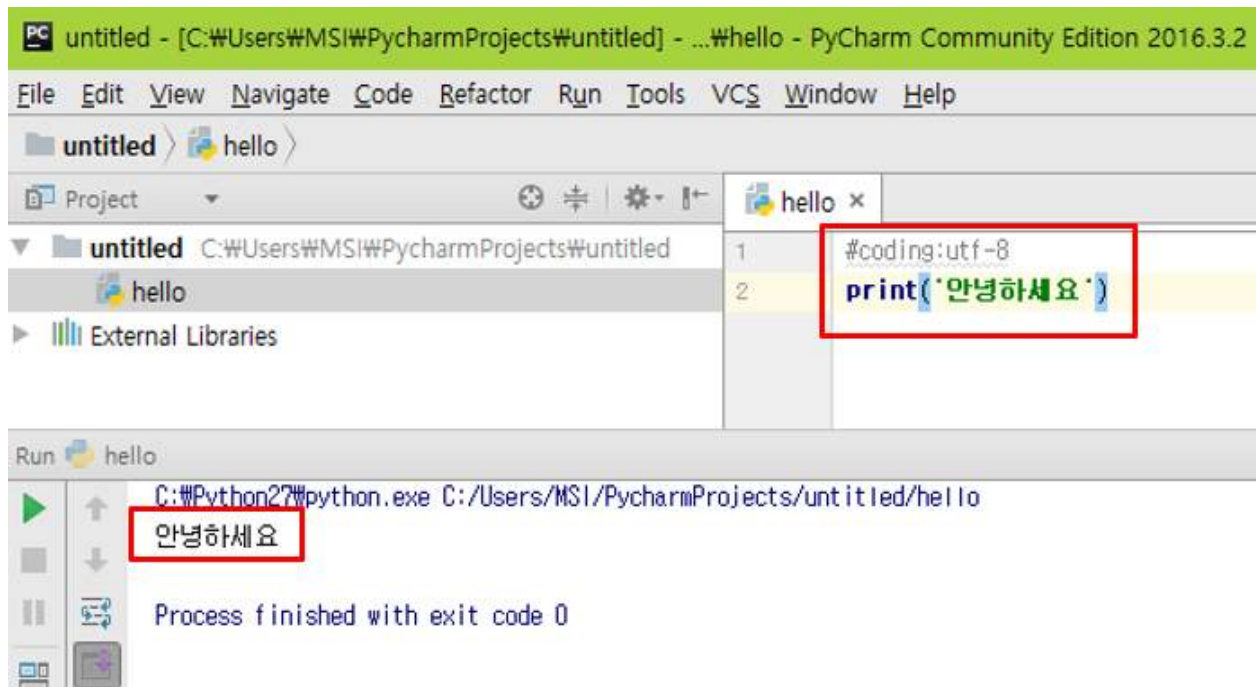


Appendix: 한글깨짐

.py의 한글 처리 해결

코드의 최상단에 다음의 코드 삽입

#coding:utf-8



Thank you

Q&A

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