

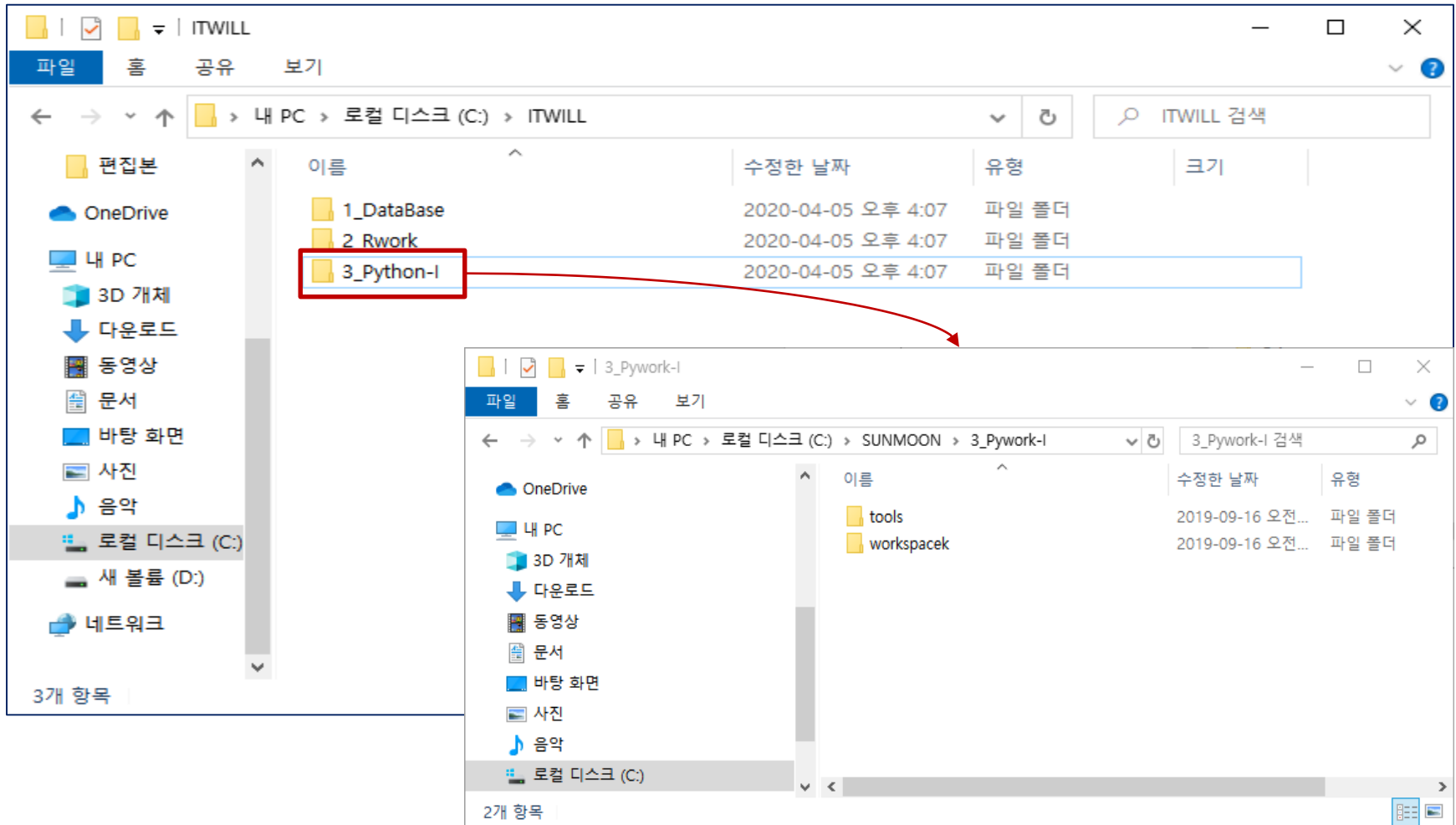
# PYTHON 개발 환경 구축

작성일 : 2020.04.05

# 목차

1. 폴더 생성
2. Python 다운로드/설치
3. Pycharm 다운로드/설치

# 1. 폴더 생성



## 2. PYTHON 다운로드/설치

- 객체지향 + 함수지향 언어
- 현재 국내외 각광받는 프로그래밍언어
- 교육용, application개발, game 개발, 데이터 분석 등

Python Download : <http://www.python.org>

Python Tutorial : <https://docs.python.org/3.7/download.html>

# 파이썬(PYTHON) 설치하기

<http://www.python.org/>에 접속하여 Download 메뉴 -> Windows - Python 3.8.2 선택

The screenshot shows the Python.org homepage. The 'Downloads' menu is open, and the 'Windows' option is highlighted with a red rectangle. The 'Download for Windows' section is visible, showing 'Python 3.8.2' as the selected version. A note states: 'Note that Python 3.5+ cannot be used on Windows XP or earlier. Not the OS you are looking for? Python can be used on many operating systems and environments. View the full list of downloads.'

Python is a programming language that lets you work quickly and integrate systems more effectively. >>> [Learn More](#)

**Get Started**  
Whether you're new to programming or an experienced developer, it's easy to learn and use Python.  
Start with our [Beginner's Guide](#)

**Download**  
Python source code and installers are available for download for all versions!  
Latest: Python 3.8.2

**Docs**  
Documentation for Python's standard library, along with tutorials and guides, are available online.  
[docs.python.org](https://docs.python.org)

**Jobs**  
Looking for work or have a Python related position that you're trying to hire for? Our **relaunched community-run job board** is the place to go.  
[jobs.python.org](https://jobs.python.org)

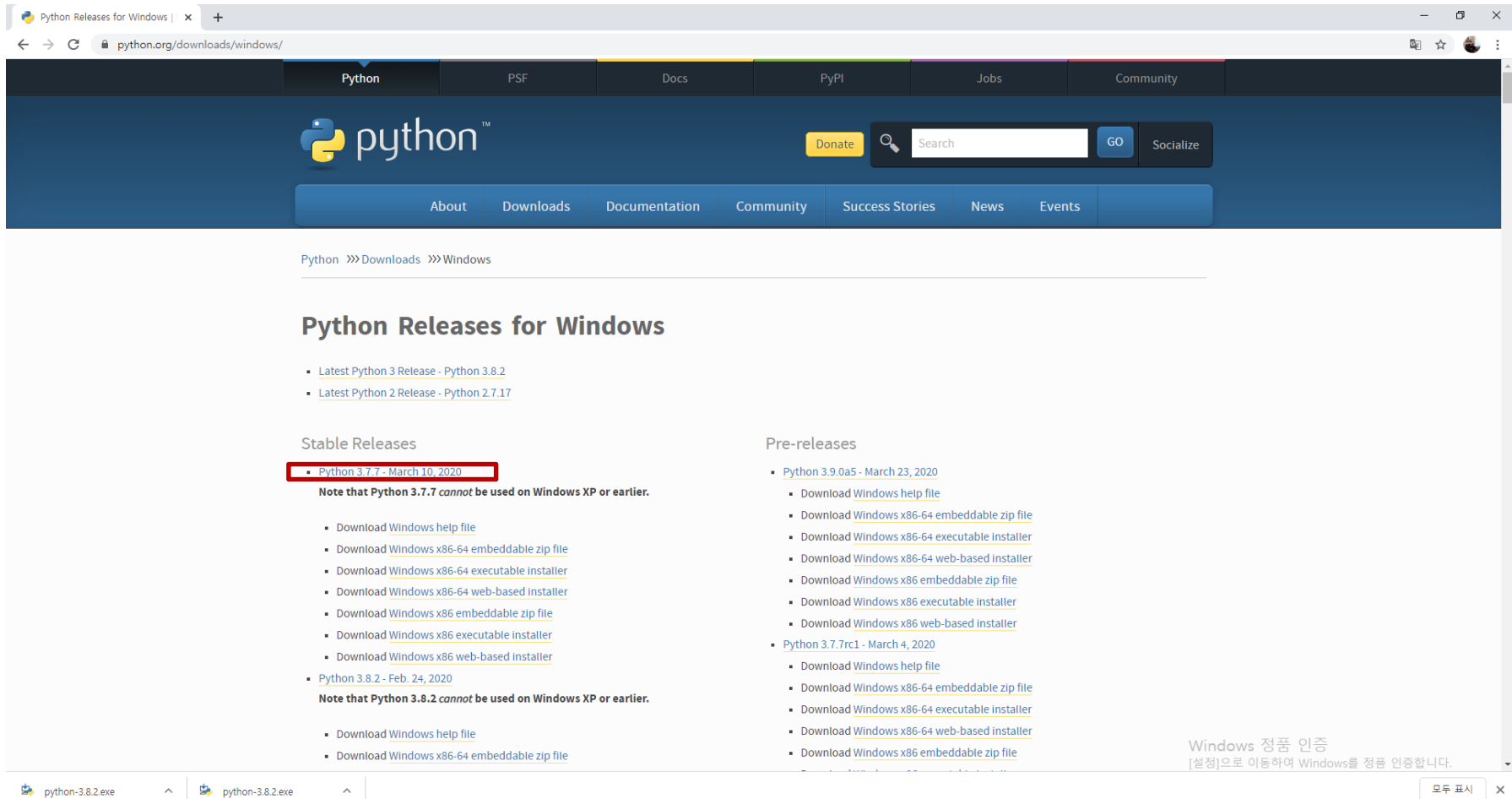
**Latest News** >>> More

**Upcoming Events** >>> More

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<https://www.python.org/ftp/python/3.8.2/python-3.8.2.exe>

# 안정적인 버전 다운로드



Python Releases for Windows | x +

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## Python Releases for Windows

- [Latest Python 3 Release - Python 3.8.2](#)
- [Latest Python 2 Release - Python 2.7.17](#)

### Stable Releases

- **Python 3.7.7 - March 10, 2020**
  - Note that Python 3.7.7 cannot be used on Windows XP or earlier.**
  - Download [Windows help file](#)
  - Download [Windows x86-64 embeddable zip file](#)
  - Download [Windows x86-64 executable installer](#)
  - Download [Windows x86-64 web-based installer](#)
  - Download [Windows x86 embeddable zip file](#)
  - Download [Windows x86 executable installer](#)
  - Download [Windows x86 web-based installer](#)
- **Python 3.8.2 - Feb. 24, 2020**
  - Note that Python 3.8.2 cannot be used on Windows XP or earlier.**
  - Download [Windows help file](#)
  - Download [Windows x86-64 embeddable zip file](#)

### Pre-releases

- **Python 3.9.0a5 - March 23, 2020**
  - Download [Windows help file](#)
  - Download [Windows x86-64 embeddable zip file](#)
  - Download [Windows x86-64 executable installer](#)
  - Download [Windows x86-64 web-based installer](#)
  - Download [Windows x86 embeddable zip file](#)
  - Download [Windows x86 executable installer](#)
  - Download [Windows x86 web-based installer](#)
- **Python 3.7.7rc1 - March 4, 2020**
  - Download [Windows help file](#)
  - Download [Windows x86-64 embeddable zip file](#)
  - Download [Windows x86-64 executable installer](#)
  - Download [Windows x86-64 web-based installer](#)
  - Download [Windows x86 embeddable zip file](#)

python-3.8.2.exe python-3.8.2.exe

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모두 표시 x

# WINDOWS 64비트 다운로드

Python Release Python 3.7.7 | F x +

python.org/downloads/release/python-377/

As of 3.7.7, macOS installer packages are now compatible with the full Gatekeeper notarization requirements of macOS 10.15 Catalina including code signing.

[Full Changelog](#)

## Files

Version	Operating System	Description	MD5 Sum	File Size	GPG
<a href="#">Gzipped source tarball</a>	Source release		d348d978a5387512fbc7d7d52dd3a5ef	23161893	<a href="#">SIG</a>
<a href="#">XZ compressed source tarball</a>	Source release		172c650156f7bea68ce31b2fd01fa766	17268888	<a href="#">SIG</a>
<a href="#">macOS 64-bit installer</a>	macOS		17b06433e242c8eb848e035965a860ac	29163525	<a href="#">SIG</a>
<a href="#">Windows help file</a>	Windows		89bb2ea8c5838bd2612de600bd301d32	8183265	<a href="#">SIG</a>
<a href="#">Windows x86-64 embeddable zip file</a>	Windows	for AMD64/EM64T/x64	6aa3b1c327561bda256f2deebf038dc9	7444654	<a href="#">SIG</a>
<a href="#">Windows x86-64 executable installer</a>	Windows	for AMD64/EM64T/x64	e0c910087459df78d827eb1554489663	26797616	<a href="#">SIG</a>
<a href="#">Windows x86-64 web-based installer</a>	Windows	for AMD64/EM64T/x64	d1d09dad50247738d8ac2479e4cde4af	1348896	<a href="#">SIG</a>
<a href="#">Windows x86 embeddable zip file</a>	Windows		29672b400490ea21995c6dba4c4e1c8	6614968	<a href="#">SIG</a>
<a href="#">Windows x86 executable installer</a>	Windows		e9db9cf43b4f2472d75a055380871045	25747128	<a href="#">SIG</a>
<a href="#">Windows x86 web-based installer</a>	Windows		8b326250252f15e199879701f5e53c76	1319912	<a href="#">SIG</a>

python-3.7.7-amd64.exe

Windows 정품 인증  
[설정]으로 이동하여 Windows를 정품 인증합니다.

모두 표시 X

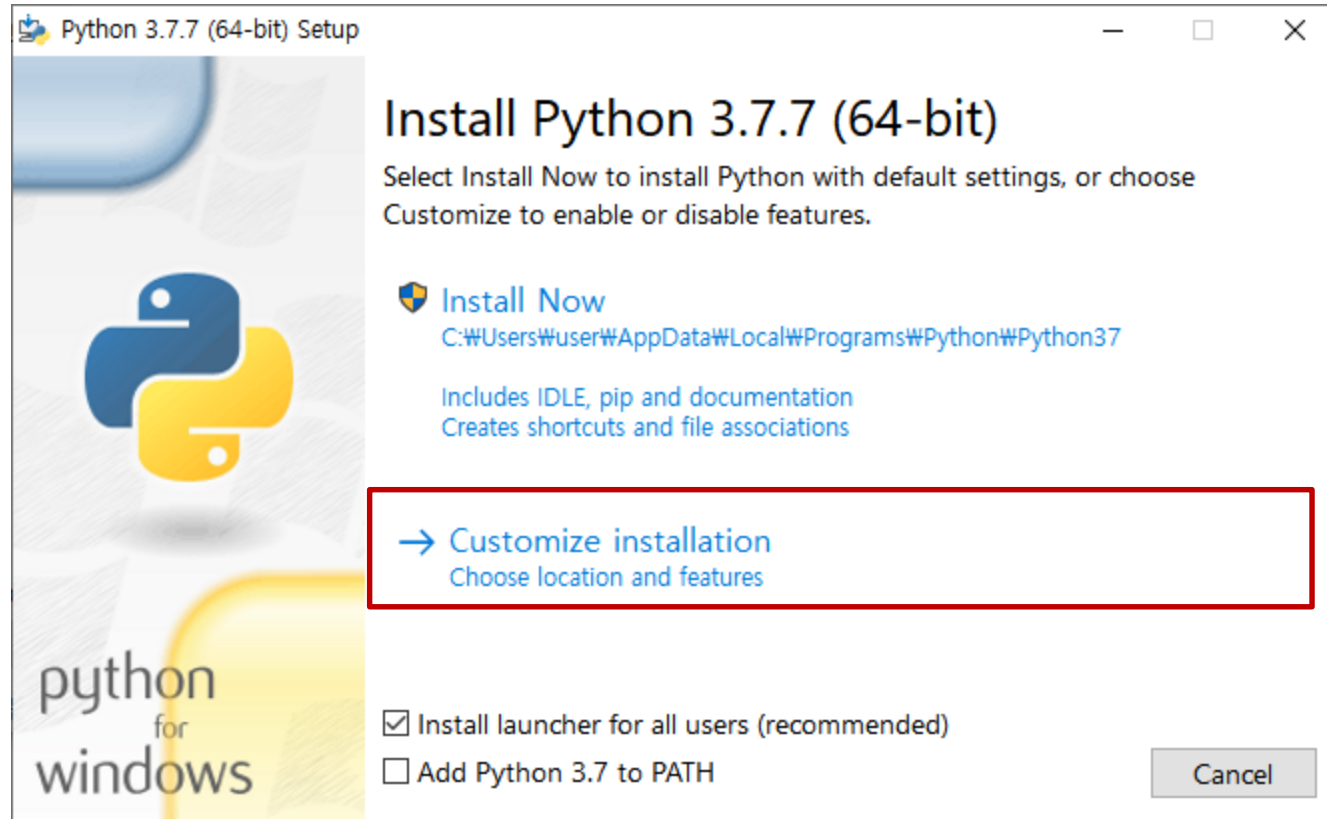
python-3.7.7-amd...exe 25.6/25.6MB, 0% 남음

python-3.8.2.exe

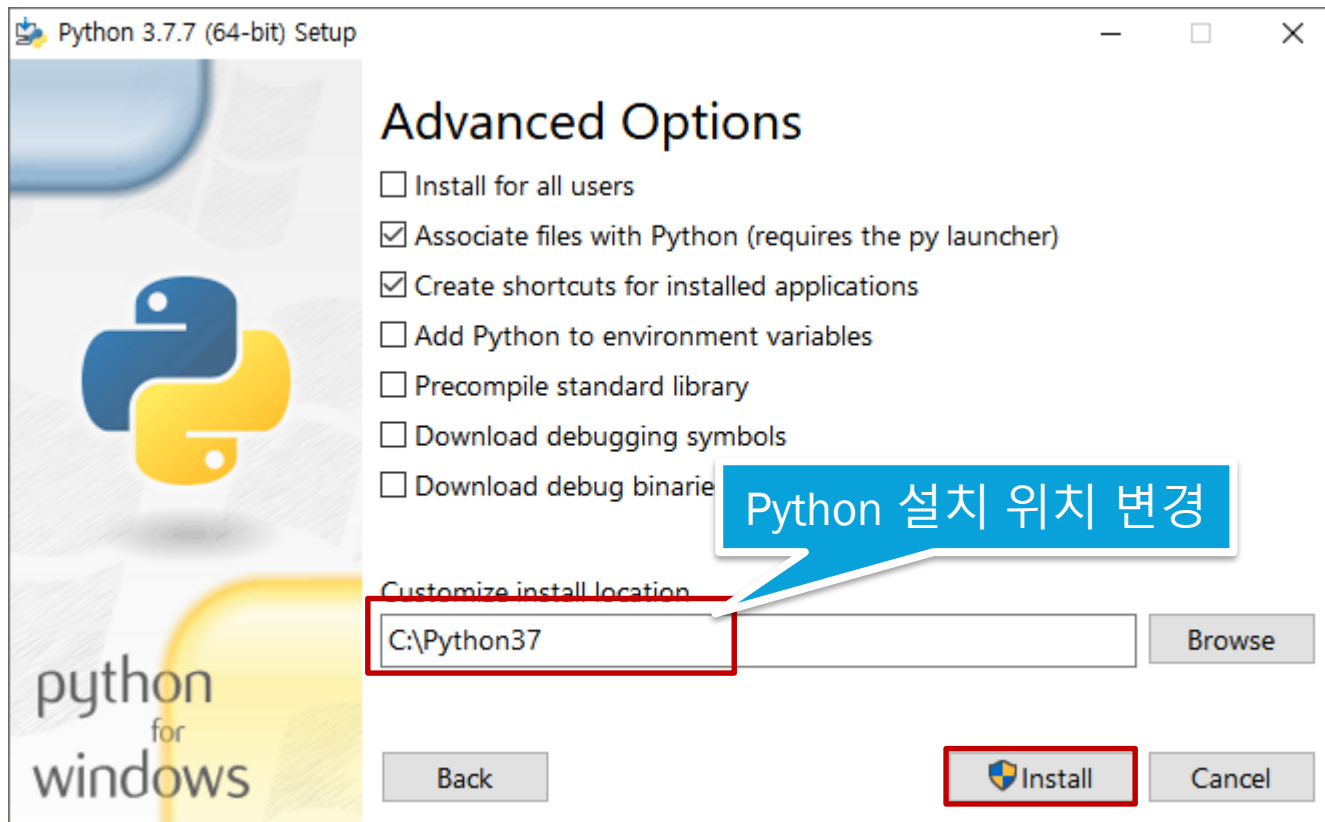
python-3.8.2.exe

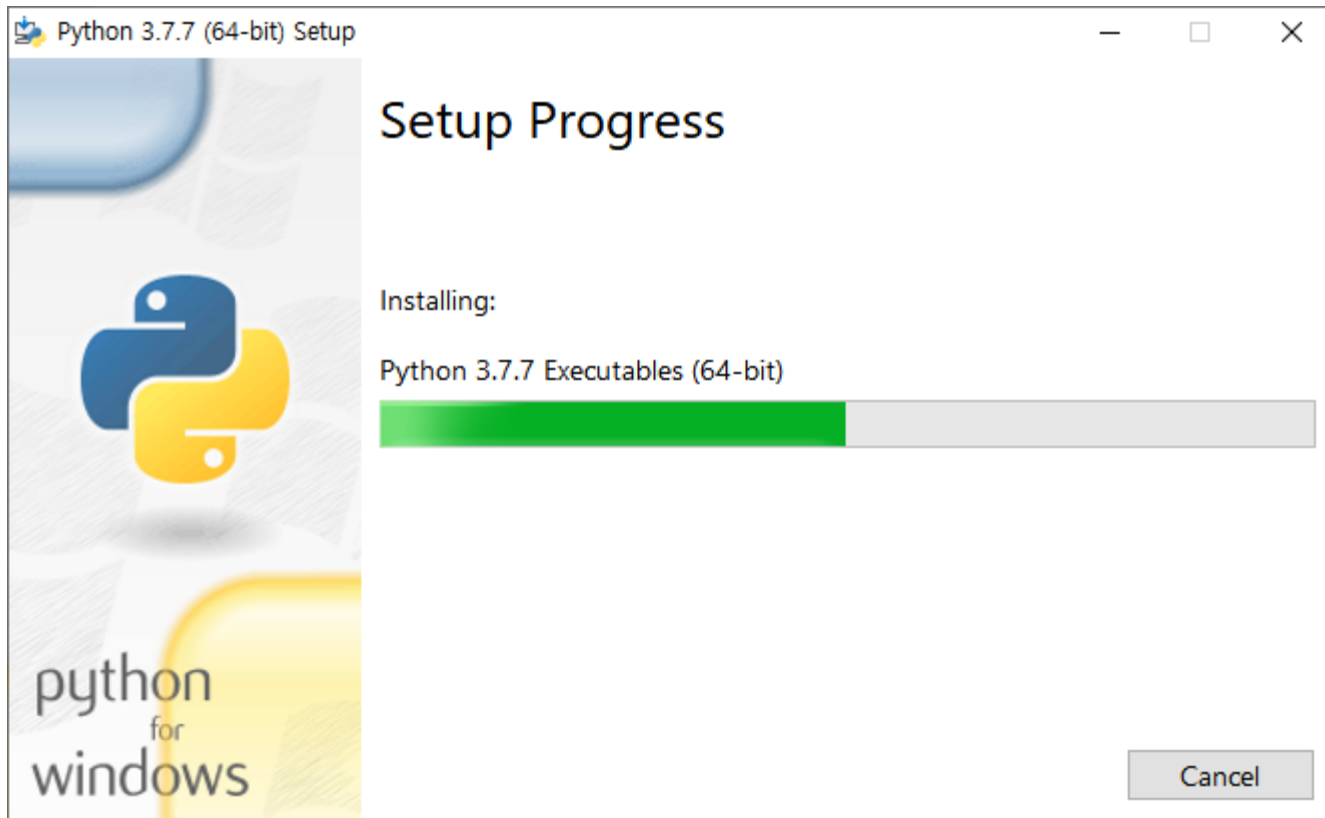
# 파이썬(PYTHON) 설치하기

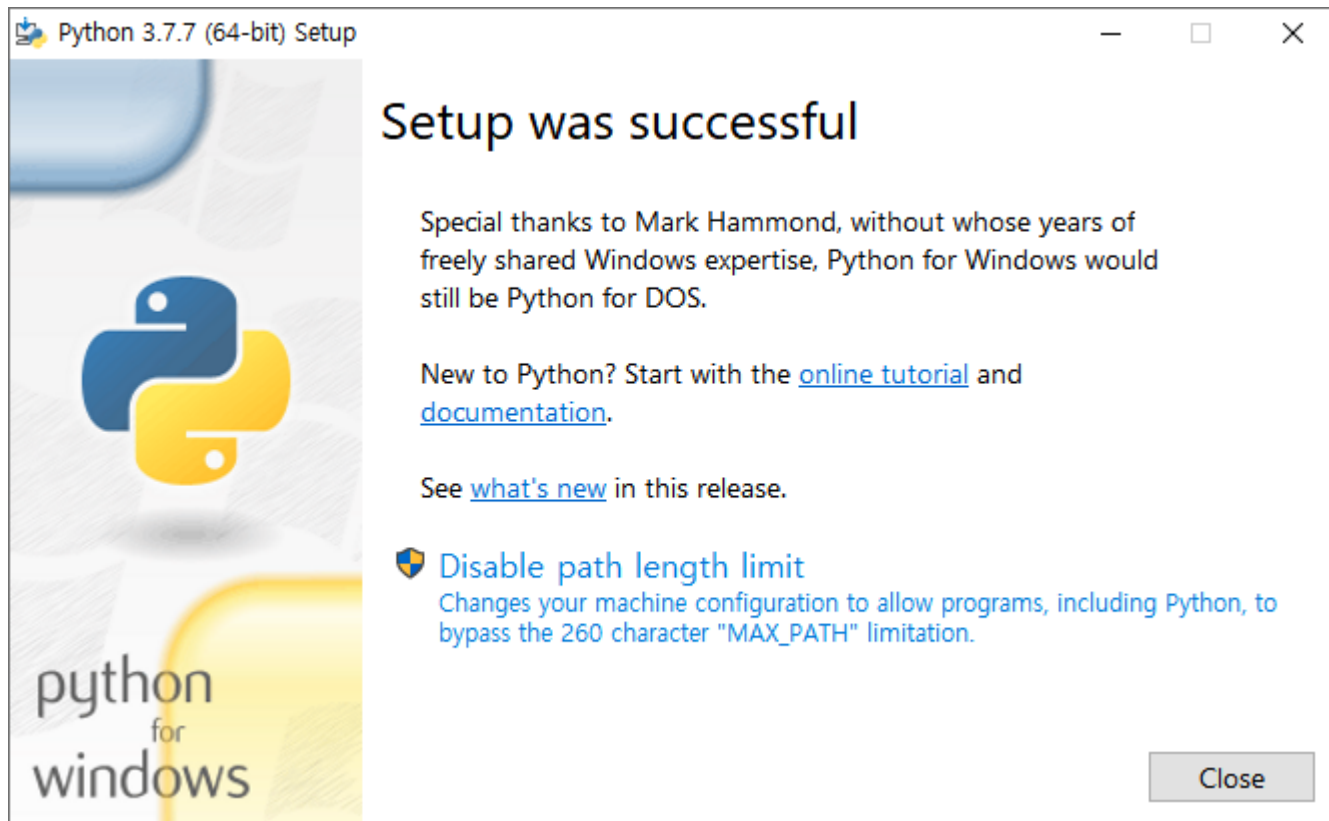
- 사용자 설치



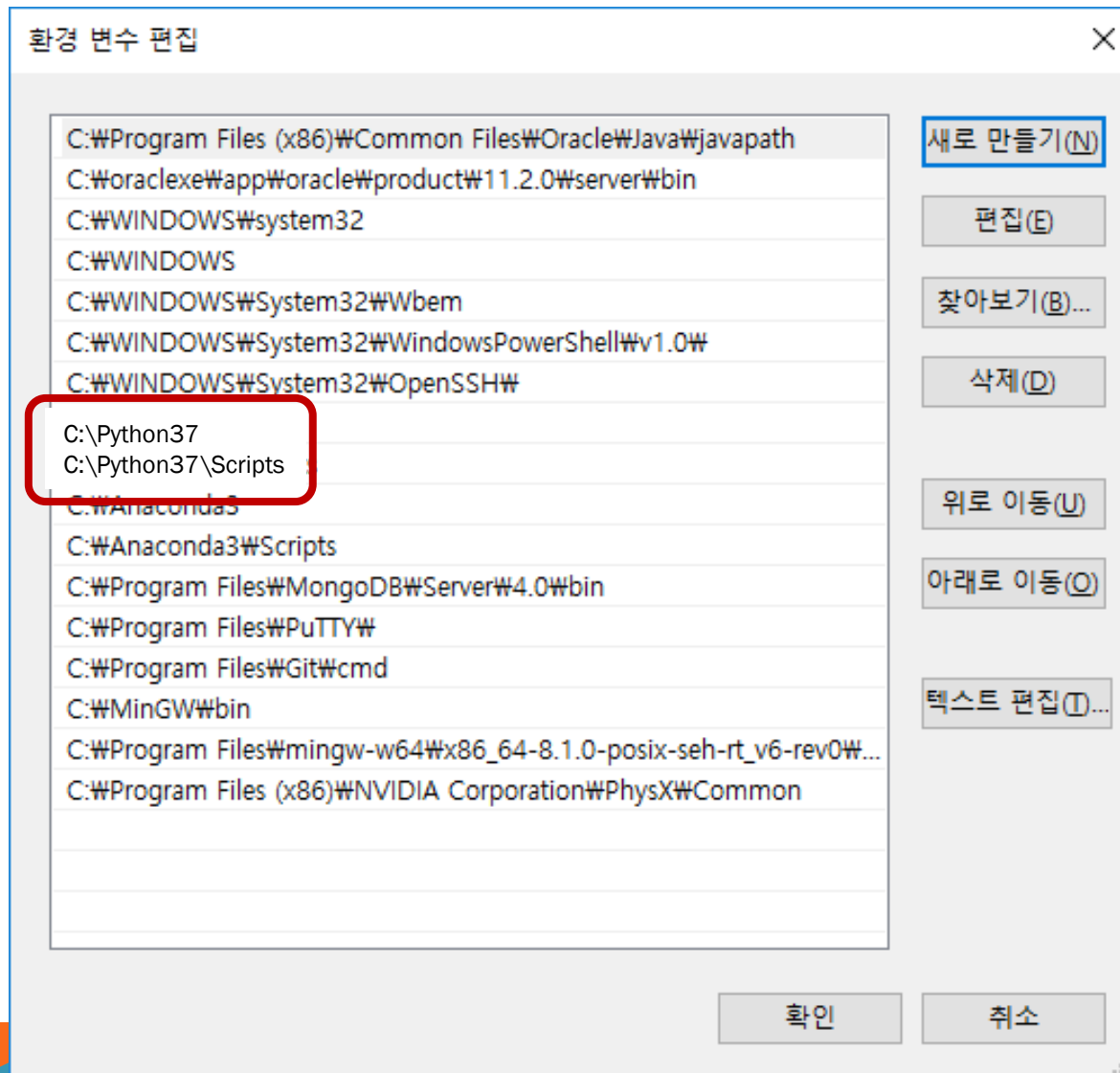




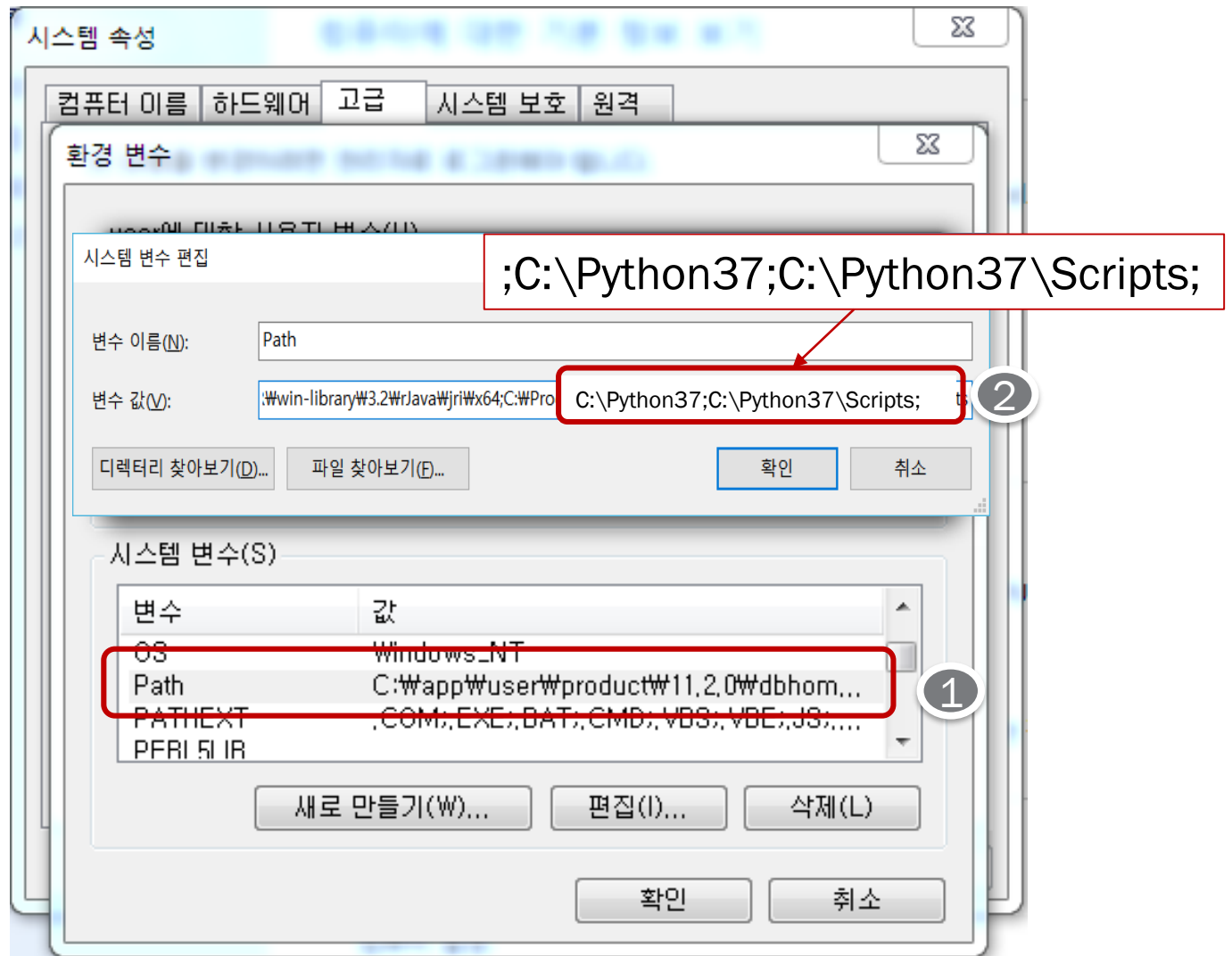




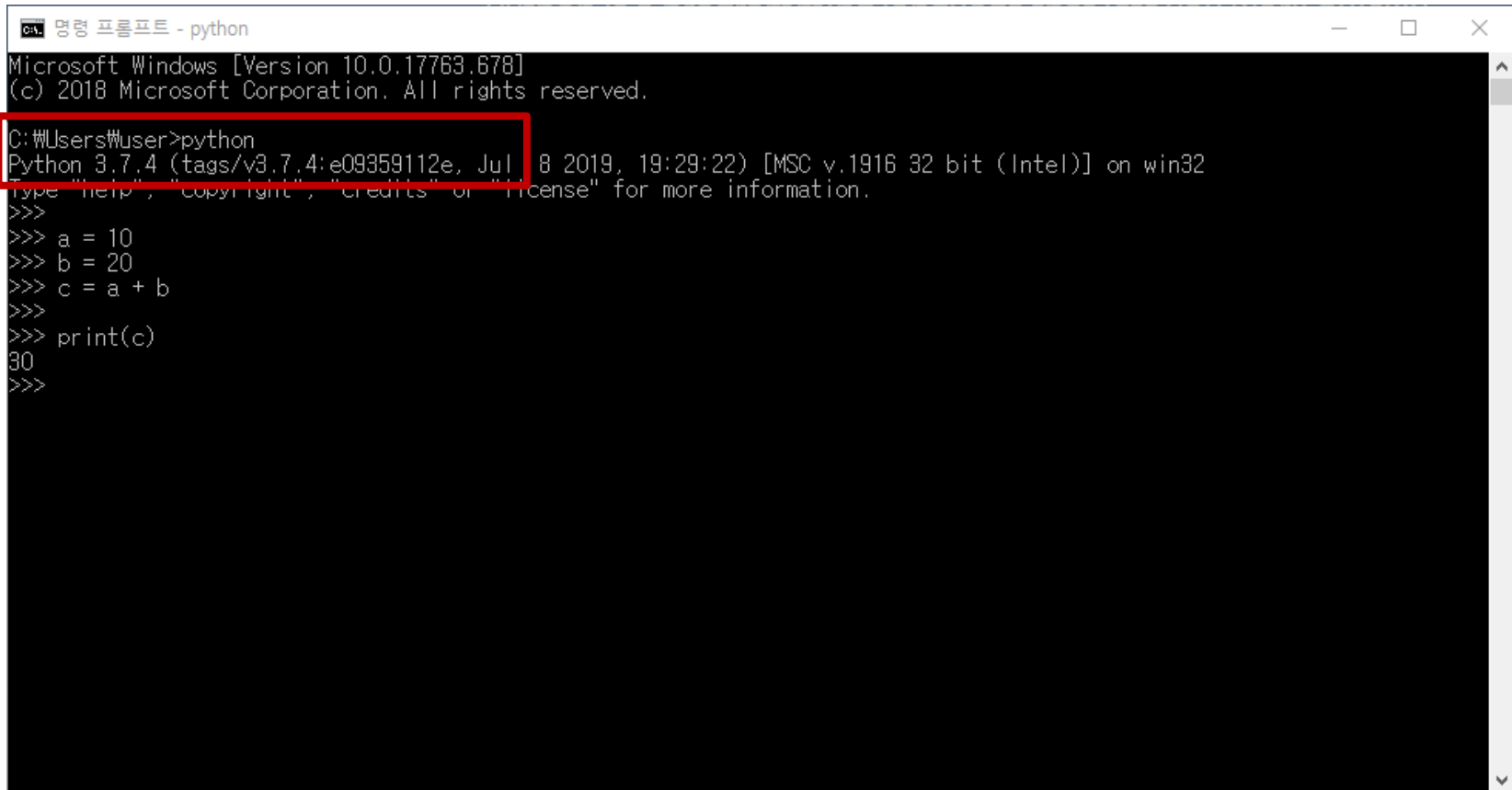
## ● Path 설정 : Windows10 설정



## ● Path 설정 : Windows7 설정



## ● Python 실행 : cmd 창



```
명령 프롬프트 - python
Microsoft Windows [Version 10.0.17763.678]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\User>python
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
>>> a = 10
>>> b = 20
>>> c = a + b
>>>
>>> print(c)
30
>>>
```

### 3. Pycharm 다운로드 및 설치

<https://www.jetbrains.com/pycharm/download>

Download PyCharm: Python IDE x

jetbrains.com/pycharm/download/#section=windows

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**PC**

Version: 2019.2.1  
Build: 192.6262.63  
August 23, 2019

[System requirements](#)  
[Installation Instructions](#)  
[Other versions](#)

**Download PyCharm**

Windows macOS Linux

**Professional**  
For both Scientific and Web Python development. With HTML, JS, and SQL support.  
[DOWNLOAD](#)  
Free trial

**Community**  
For pure Python development  
[DOWNLOAD](#)  
Free, open-source

**무료 사용**

Get the [Toolbox App](#) to download PyCharm and its future updates with ease

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# Thank you for downloading PyCharm!

Your download should start shortly. If it doesn't, please use [direct link](#).

Download and verify the file's [SHA-256 checksum](#).

[Third-party software used by PyCharm Community Edition](#)

## Getting Started

Send me helpful educational materials during my evaluation period

Enter your email address to receive tips and tricks

☐ By submitting this form, I agree that my email address may be used by JetBrains to send me educational materials about the product I use, including commercial communications, and to process my personal data for this purpose. I agree that JetBrains may process said data using [third-party services](#) for this purpose in accordance with the [JetBrains Privacy Policy](#). I understand that I can revoke this consent at any time in [my profile](#). In addition, an unsubscribe link is included in each email.

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## New to PyCharm?

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er developer tools by JetBrains

IntelliJ IDEA



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전체 보기



파일 홈 공유 보기 응용 프로그램 도구 다운로드

내 PC > 다운로드

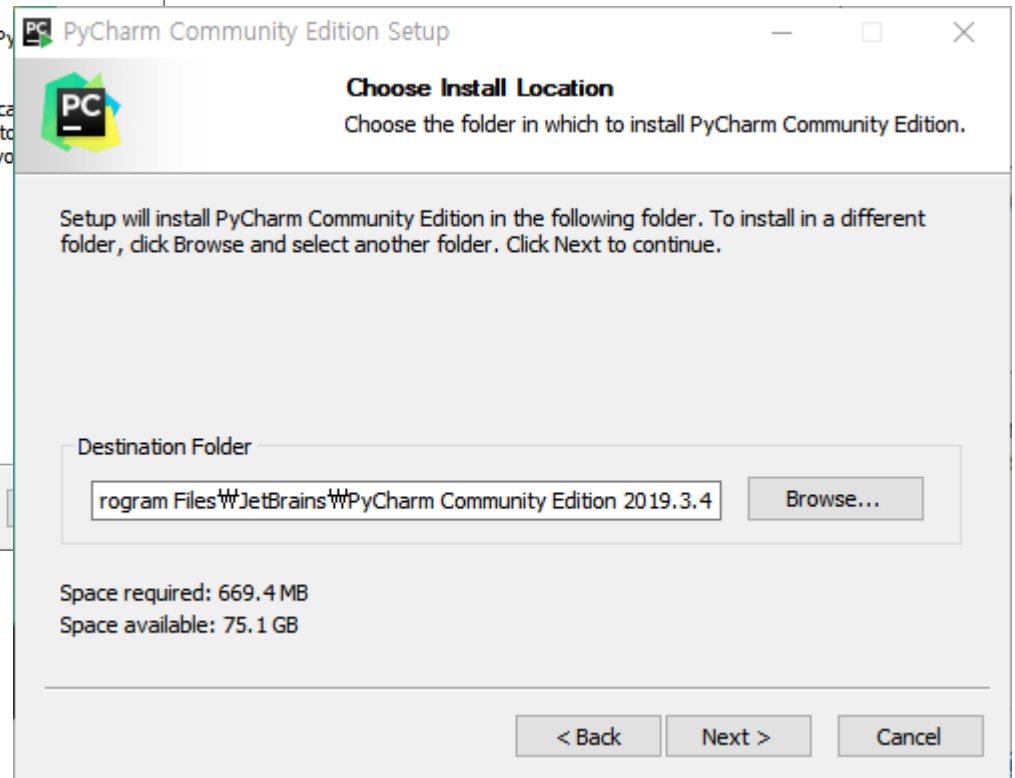
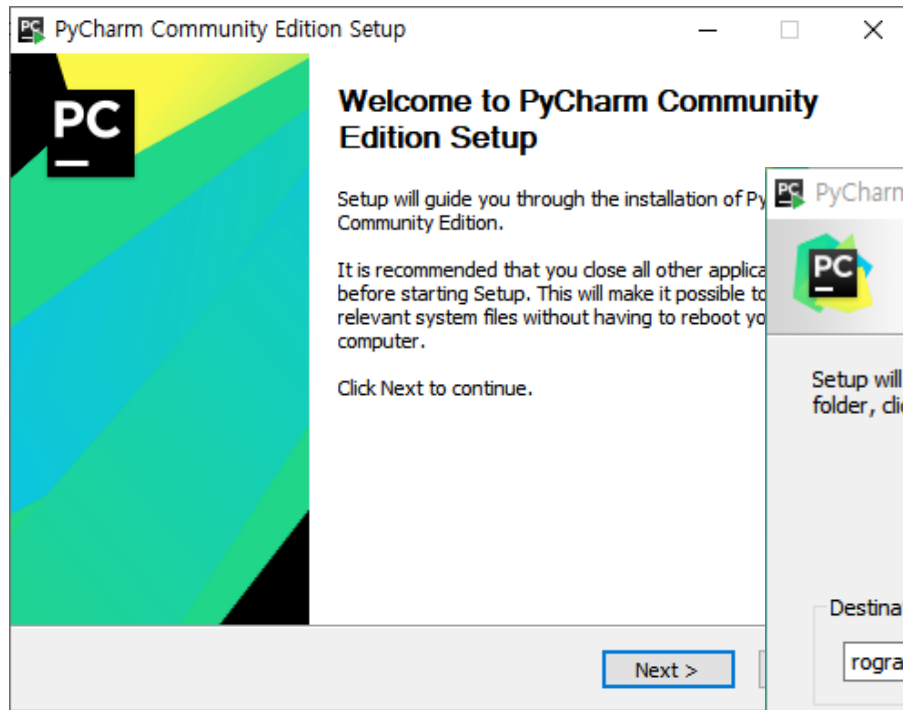
다운로드 검색

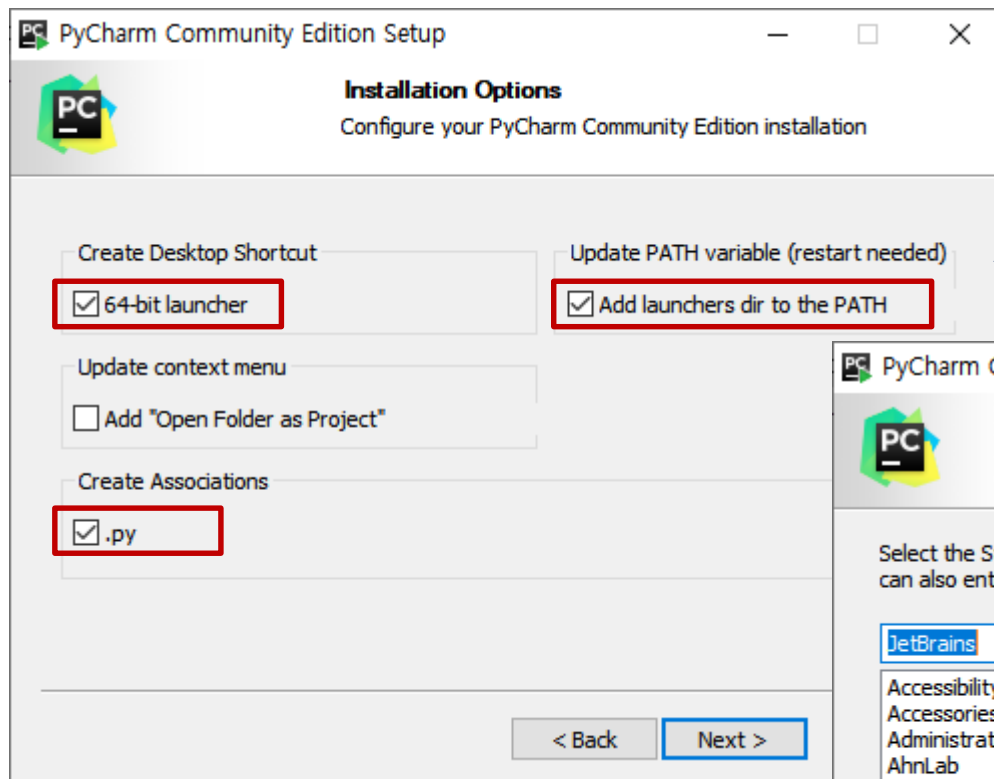
이름	수정한 날짜	유형	크기
오늘 (2)			
python-3.7.7-amd64.exe	2020-04-05 오후 4:34	응용 프로그램	26,170KB
pycharm-community-2019.3.4.exe	2020-04-05 오후 4:48	응용 프로그램	284,779KB

2개 항목 | 1개 항목 선택함 278MB

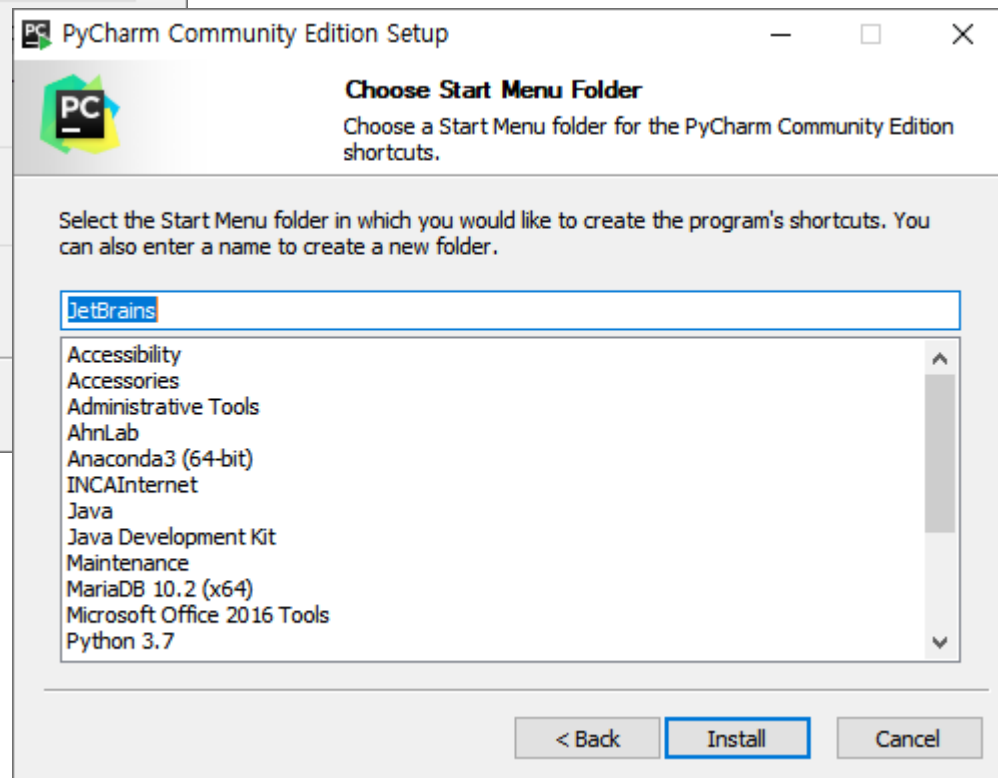
더블클릭

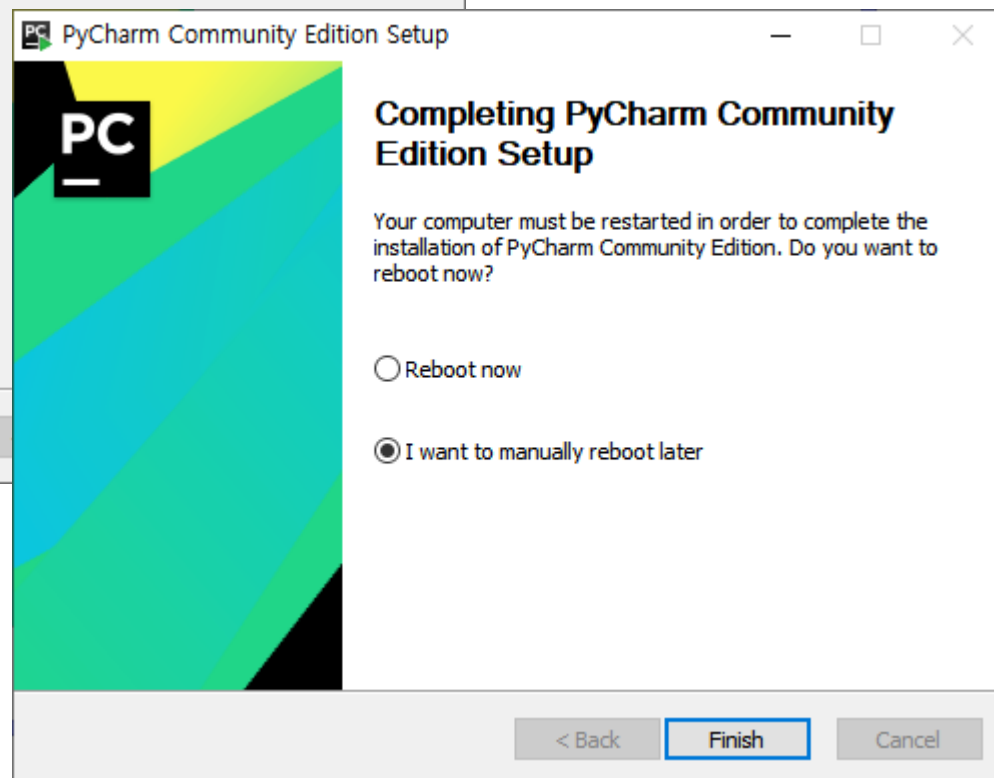
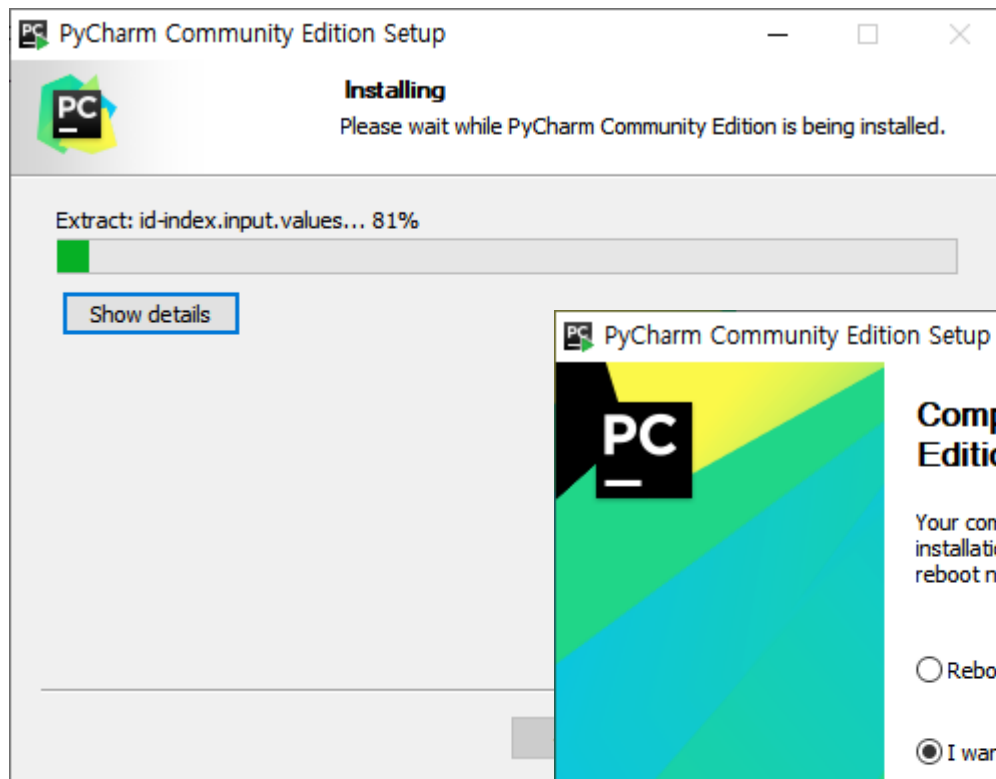
# Pycharm 설치



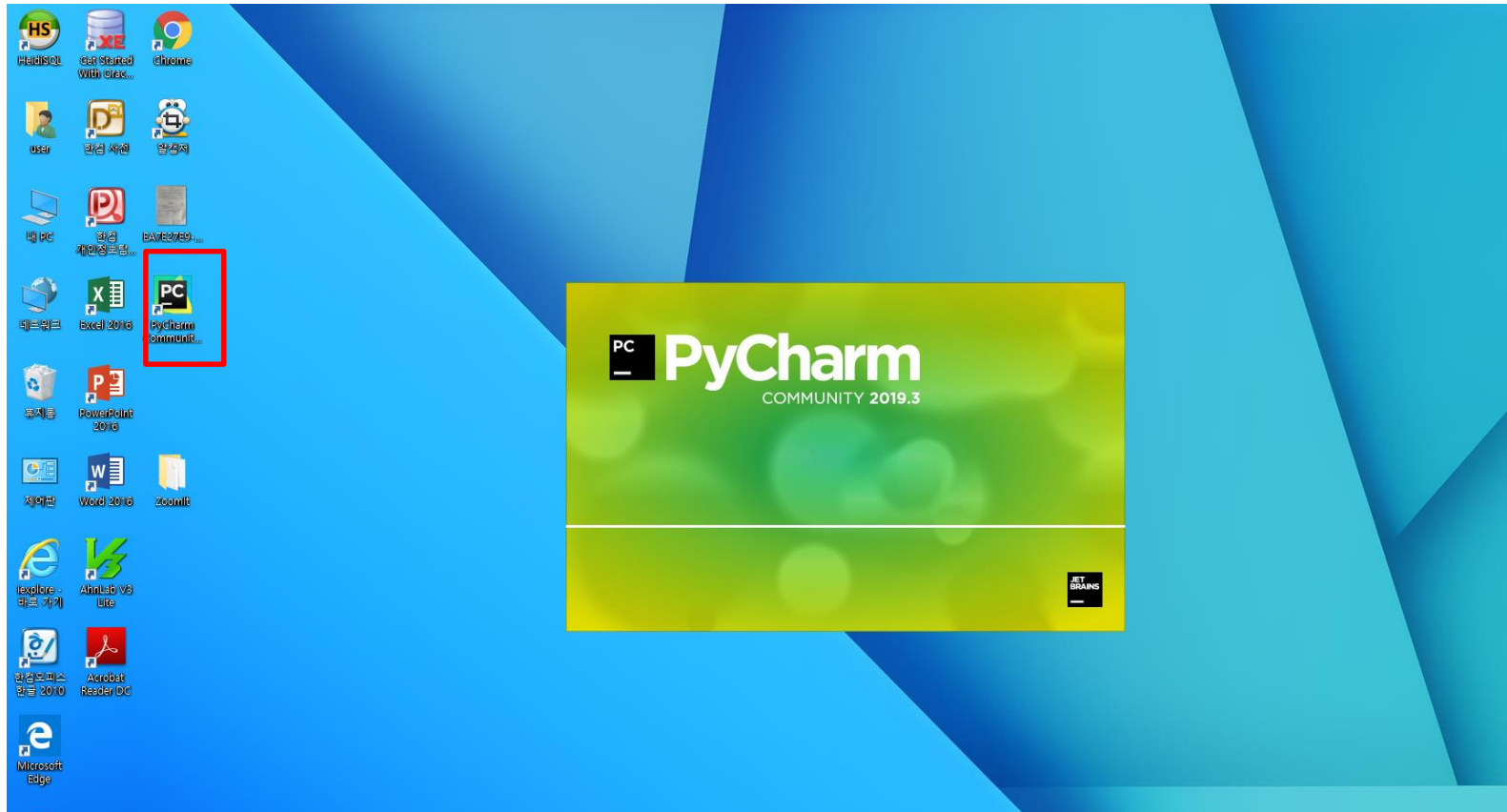


바탕화면 아이콘 생성 여부,  
환경 변수 업데이트,  
\*.py 파일 생성

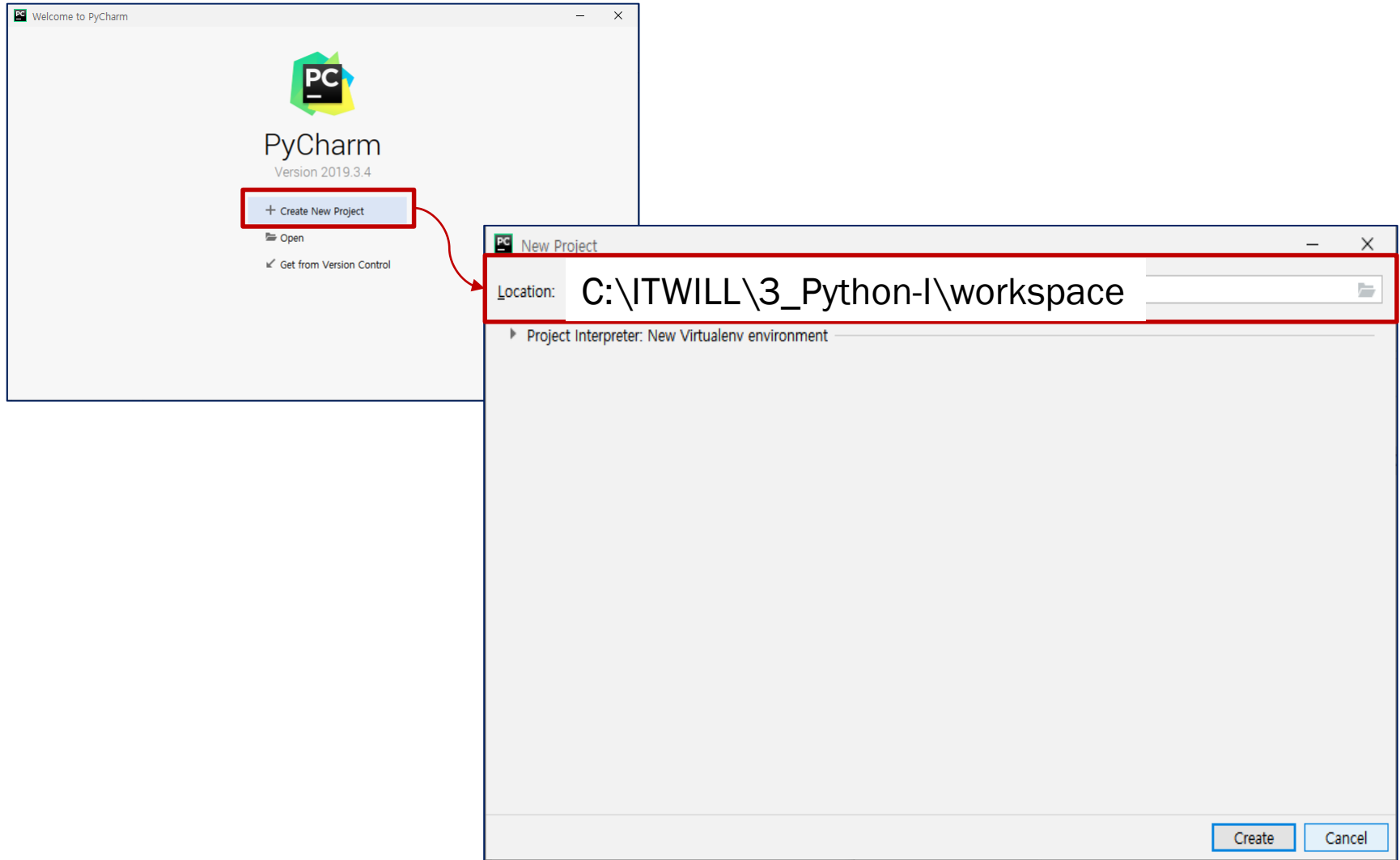




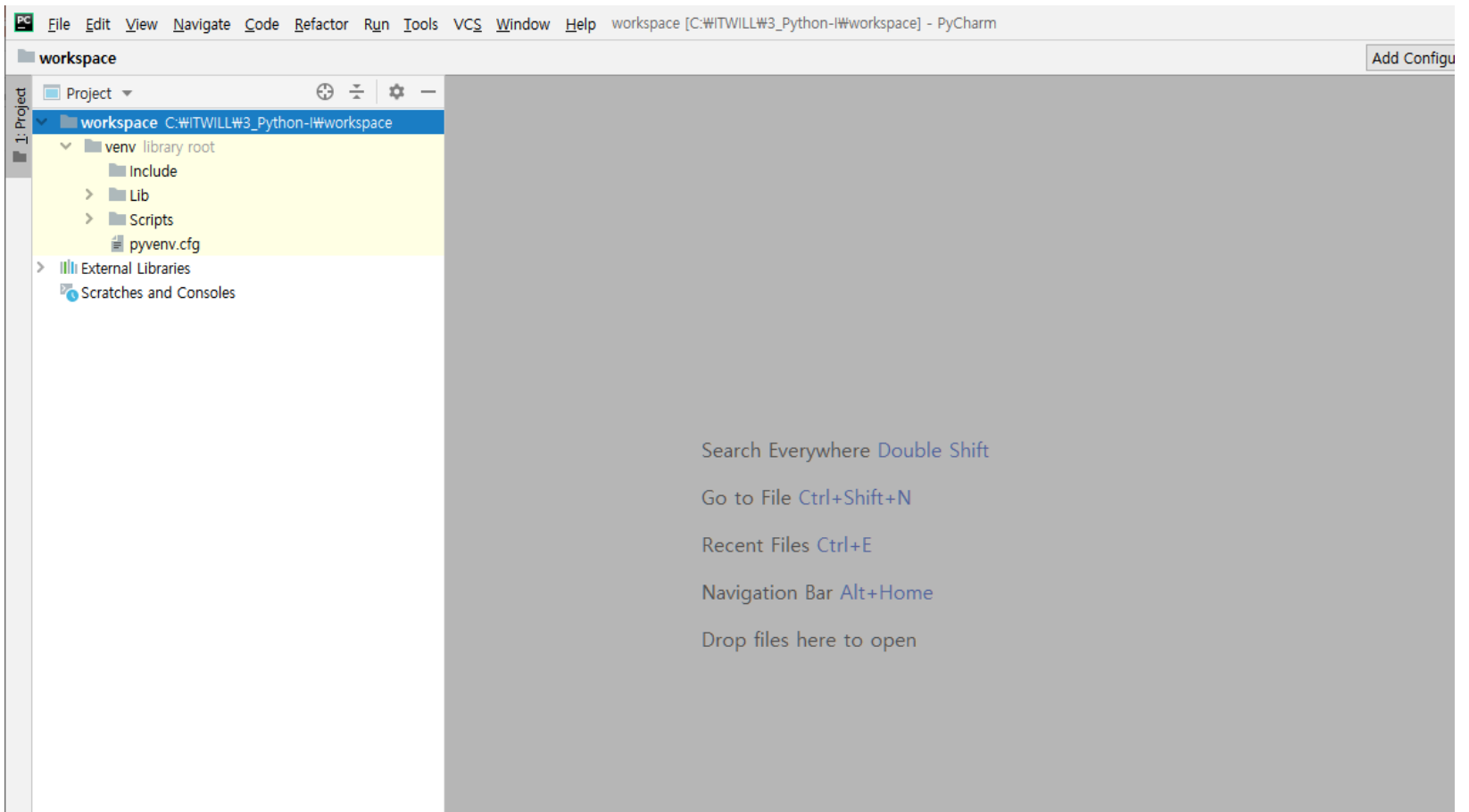
## ● Pycharm 실행



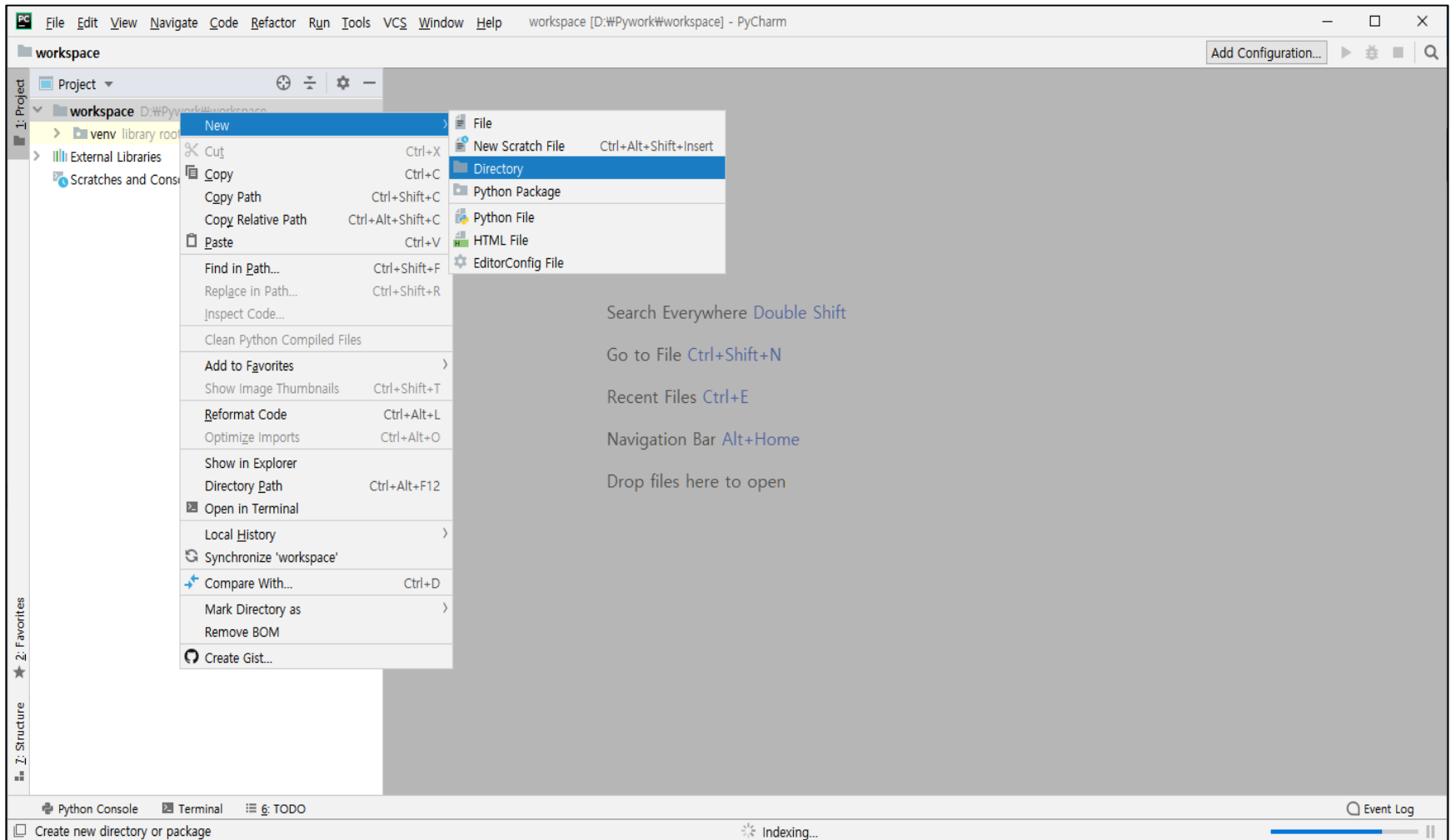
## ● 프로젝트 생성



# ● 프로젝트 생성 결과

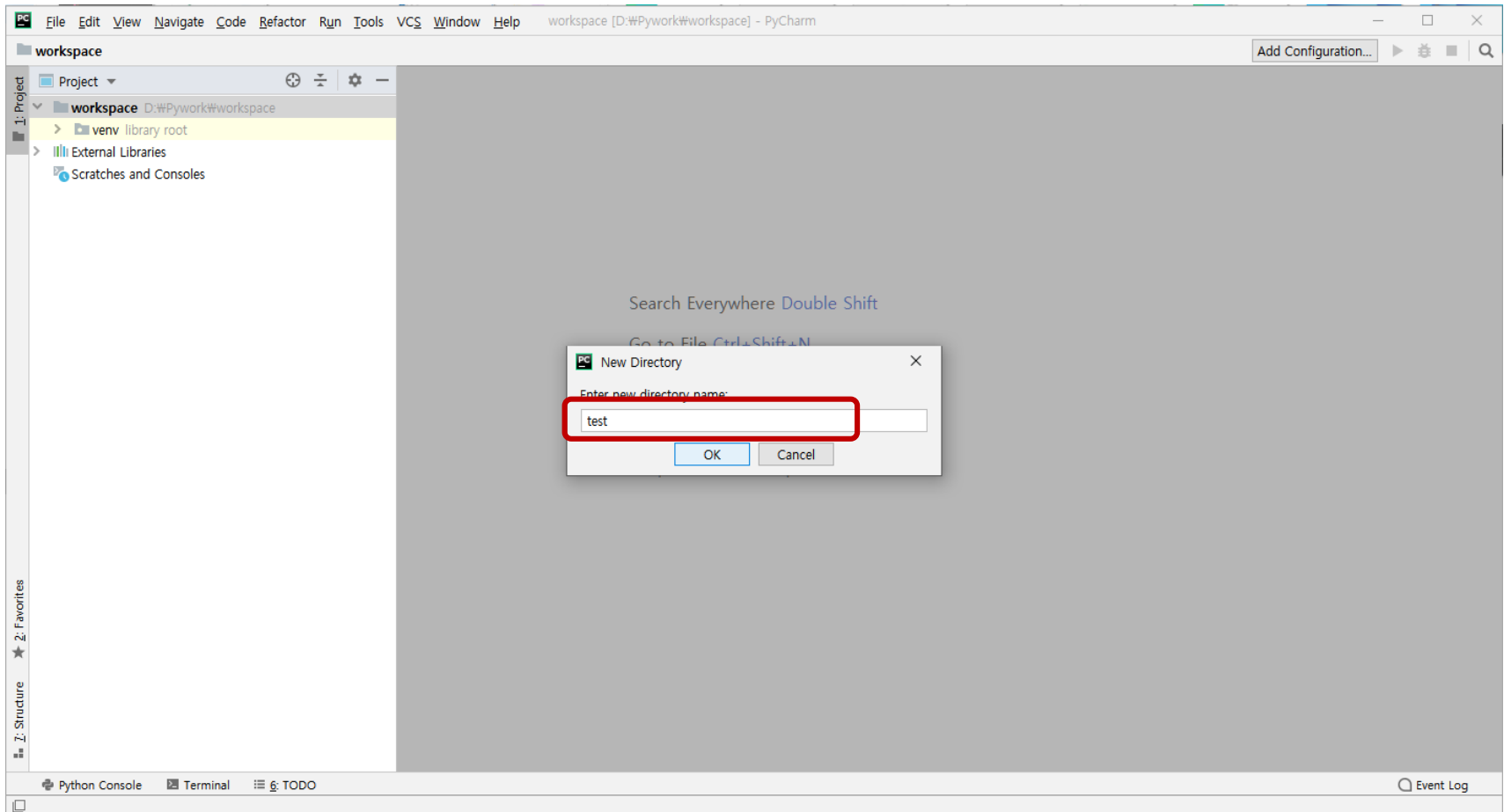


# ● Directory 생성

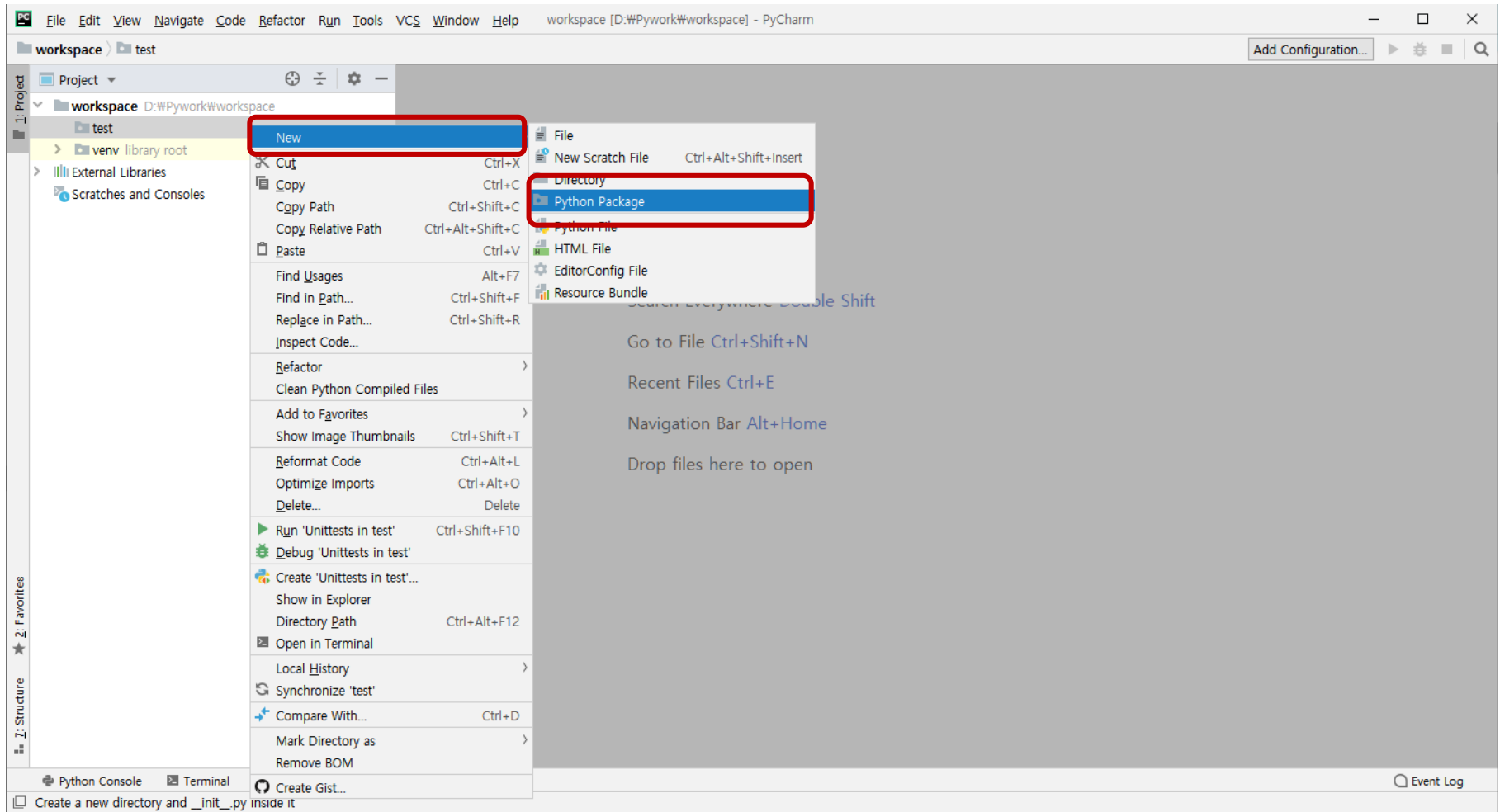




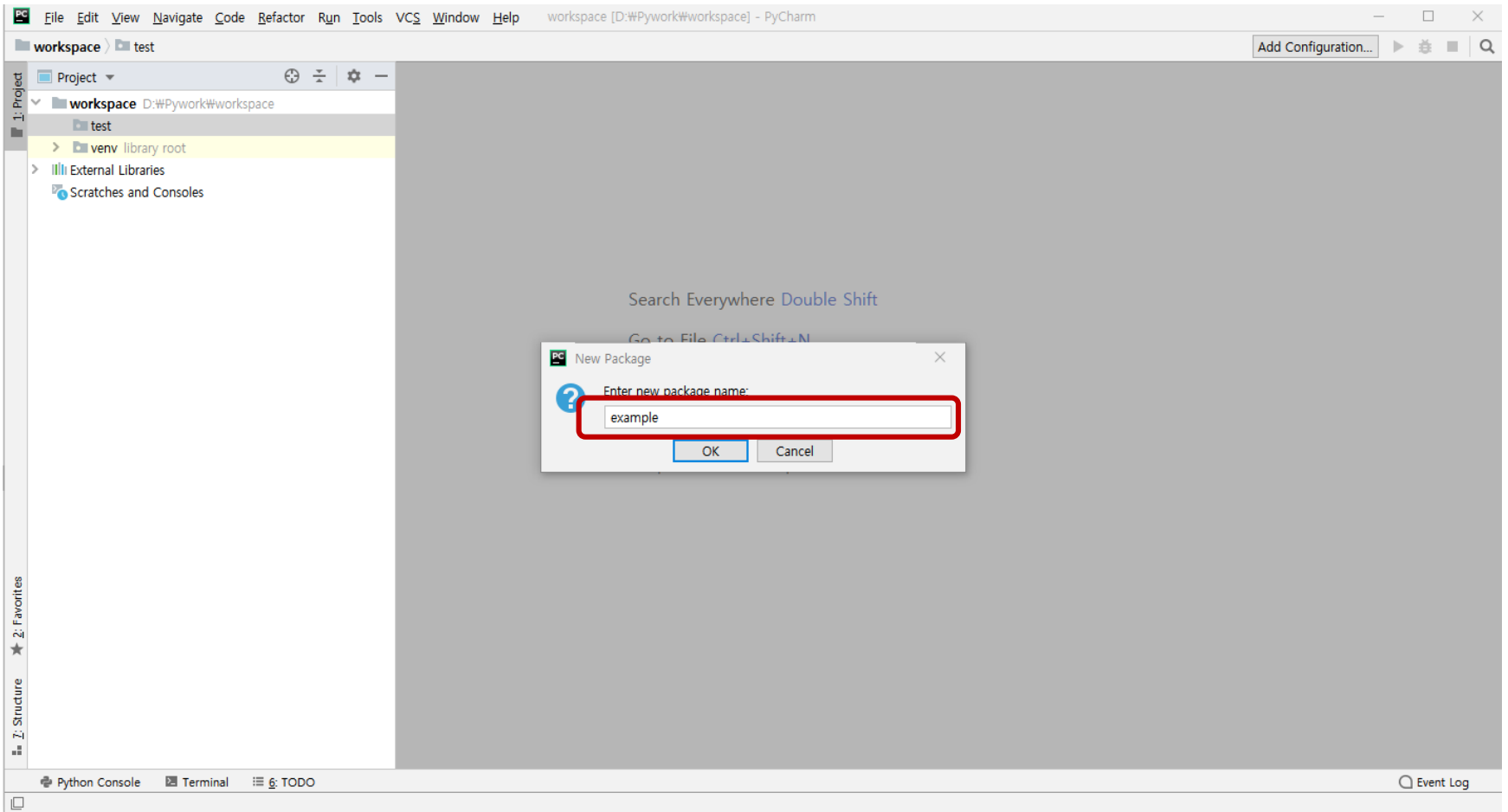
## ● Directory 생성



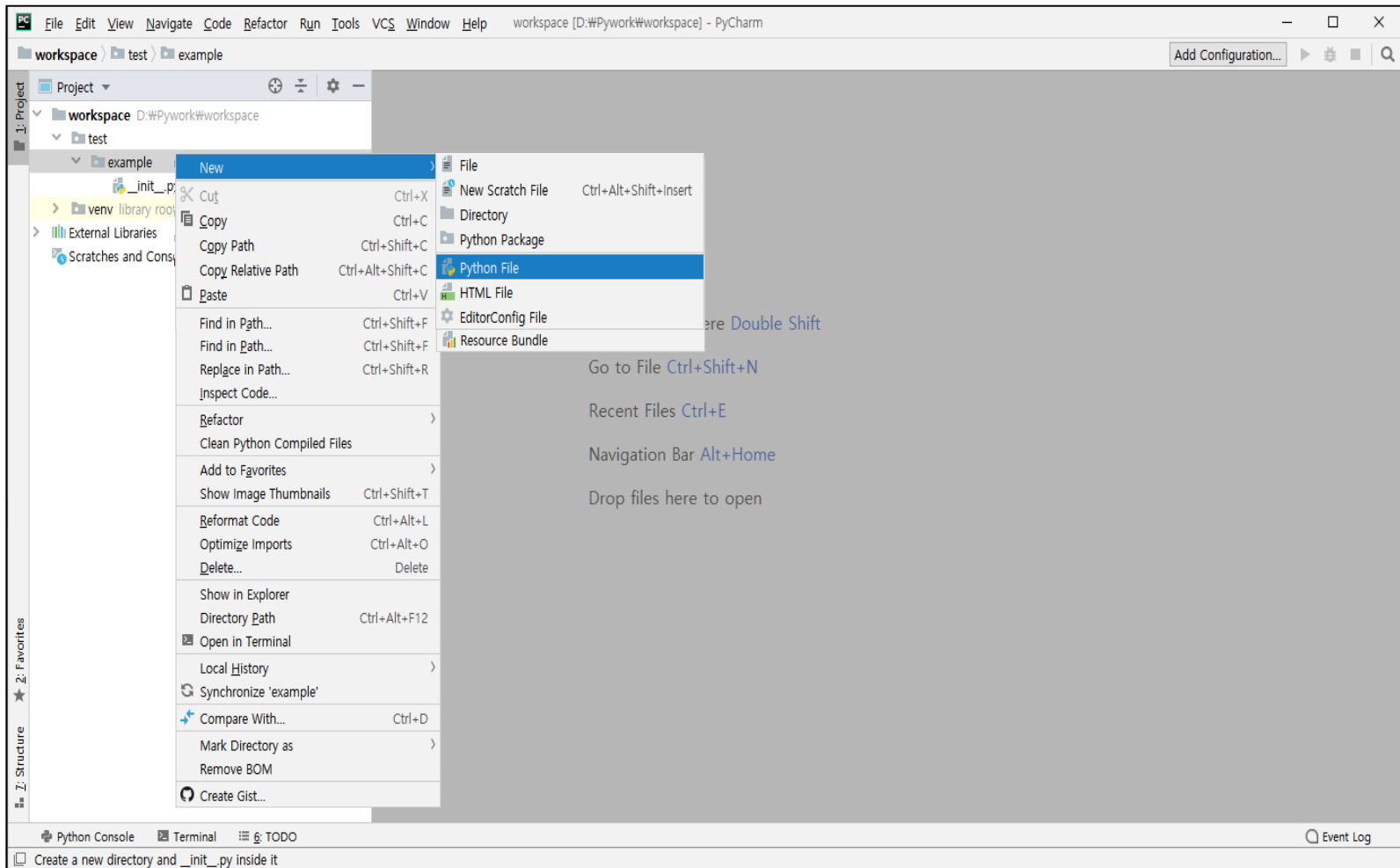
## ● 패키지 생성



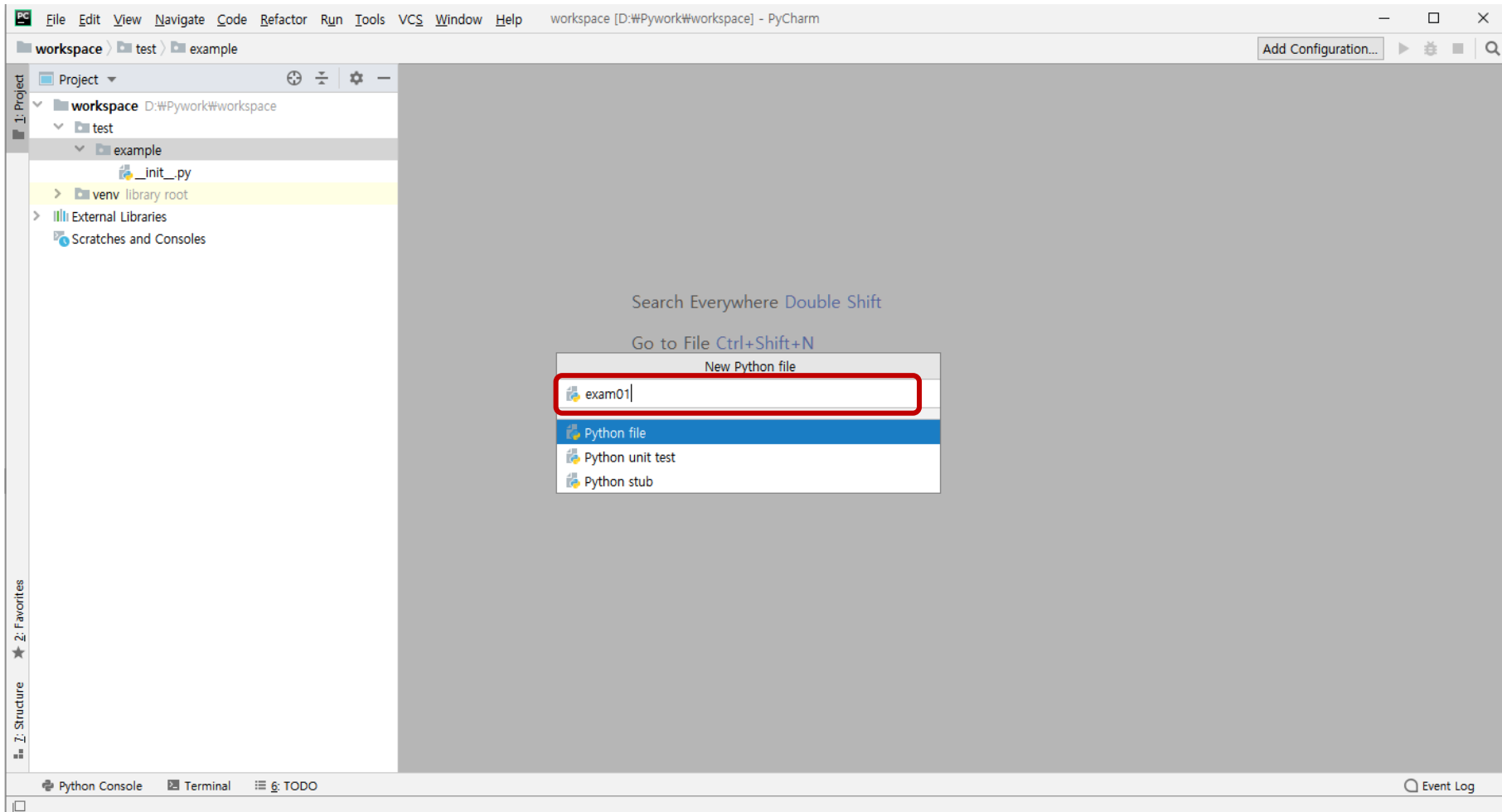
## ● 패키지 생성



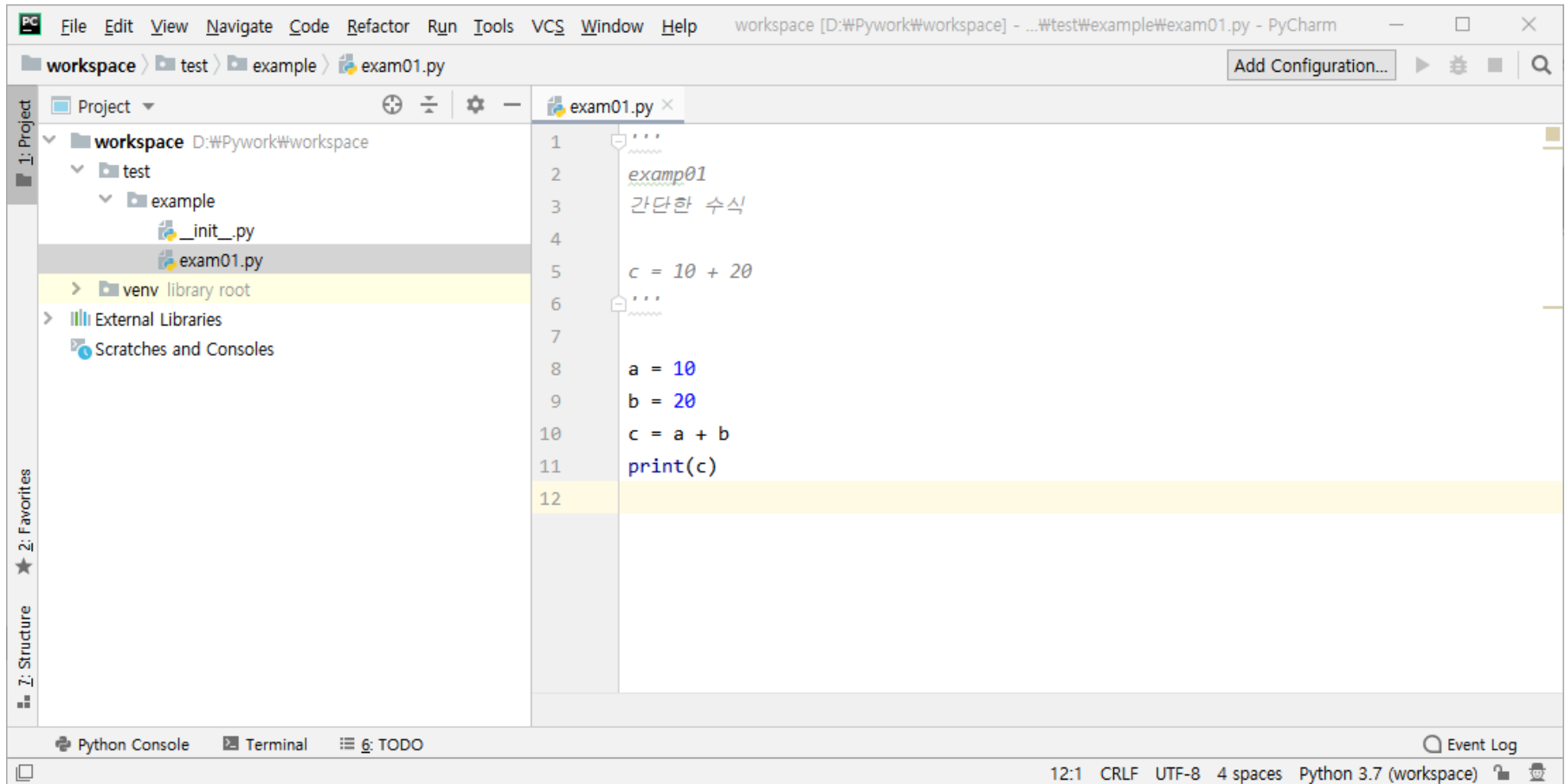
## ● Python 파일(모듈) 생성



## ● Python 파일(모듈) 생성



## ● Python 파일 작성 및 실행



## ● Python 파일 작성 및 실행

The image displays the PyCharm IDE interface, illustrating the steps to run a Python file. The top window shows the 'Run' menu with the 'Run...' option highlighted by a red box. The bottom window shows the code editor with a Python script named `exam01.py` containing the following code:

```
1  ...  
2  exam01  
3  간단한 수식  
4  
5  c = 10 + 20  
6  ...  
7  
8  a = 10  
9  b = 20  
10 c = a +  
11 print(c)  
12
```

The 'Run' button in the editor is also highlighted with a red box. Below the code editor, the 'Run' configuration window is visible, showing the configuration for running the file. The 'Run' configuration is highlighted with a red box, and the 'Run' button is also highlighted. A blue callout box with the text '실행 결과' (Execution Result) points to the 'Run' configuration window. The 'Run' configuration window shows the command to run the file:

```
D:\Pywork\workspace\venv\Scripts\python.exe D:/Pywork/workspace/test/example/exam01.py
```

The output of the run is displayed in the 'Run' console, showing the result of the calculation:

```
30
```

The console also indicates that the process finished with exit code 0.

● 블록 단위 코드 실행 단축키 (Ctrl + Shift + E)

The screenshot shows a code editor with the following Python code:

```
4 print(var1)
5 print(_id(var1))
6
7 var1 = 100
8 print(var1)
9 print(_id(var1))
10 print(type(var1))
11
12 var2 = 150.25
13 print(var2)
14 print(_id(var2))
15 print(type(var2))
16
17 var3 = True
18 print(var3)
19 print(_id(var3))
20 print(type(var3))
21
22 # 2. 예약어 확인
```

A context menu is open over the code, listing various actions. The action 'Execute Selection in Python Console' is highlighted, with the keyboard shortcut 'Alt+Shift+E' displayed next to it.

Action	Shortcut
Show Context Actions	Alt+Enter
Cut	Ctrl+X
Copy	Ctrl+C
Copy as Plain Text	
Copy Reference	Ctrl+Alt+Shift+C
Paste	Ctrl+V
Paste from History...	Ctrl+Shift+V
Paste without Formatting	Ctrl+Alt+Shift+V
Column Selection Mode	Alt+Shift+Insert
Find Usages	Alt+F7
Refactor	>
Folding	>
Search with Google	
Go To	>
Generate...	Alt+Insert
Run 'step01_variable'	Ctrl+Shift+F10
Debug 'step01_variable'	
Create 'step01_variable'...	
Show in Explorer	
File Path	Ctrl+Alt+F12
Open in Terminal	
Local History	>
Execute Selection in Python Console	Alt+Shift+E
Run File in Python Console	
Compare with Clipboard	
Create Gist...	



- 프롬프트(Python Console 창)에서 줄 단위 코드 실행

The screenshot displays the PyCharm IDE interface. The top pane shows a Python script with the following code:

```
10 var1 = "Hello python"
11 var2 = 'Hello python'
12 print(var1) # Line skip
13 print(var2)
14 print(type(var1), type(var2)) # <class 'str'> <class 'str'>
15
```

The bottom pane shows the Python Console output:

```
import sys; print('Python %s on %s' % (sys.version, sys.platform))
sys.path.extend(['D:\\SUNMOON\\3_Python-I\\workspace(python1)', 'D:/SUNMOON/3_Python-I/

PyDev console: starting.

Python 3.7.4 tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)]
>>> 10 + 20
30
>>> help(sum)
Help on built-in function sum in module builtins:

sum(iterable, start=0, /)
    Return the sum of a 'start' value (default: 0) plus an iterable of numbers

>>>
```

The console output shows the execution of the code in the script, including the calculation of `10 + 20` and the help for the `sum` function. The prompt `>>>` is used to enter commands in the interactive shell.

- Pycharm 환경 설정 : 글꼴, 배경색, 단축키, 작업 디렉터리 등 수정

메뉴 [File] -> [Settings...]

