

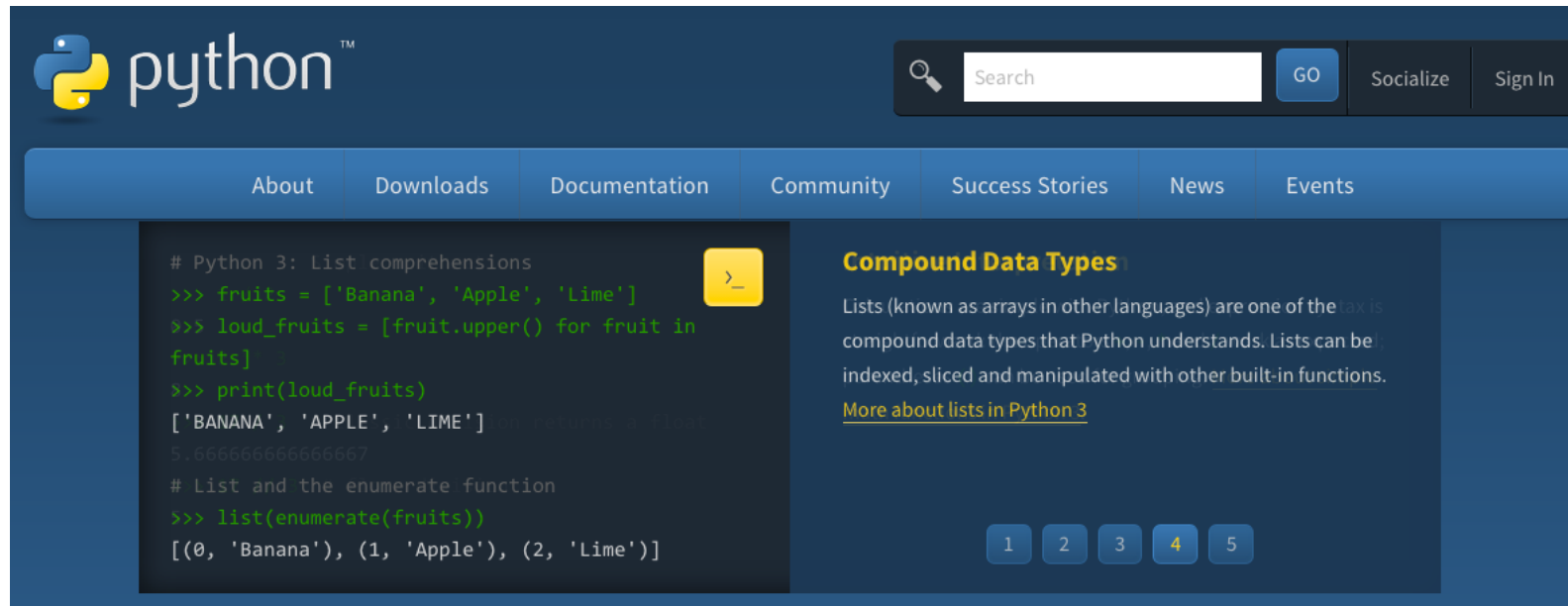
파이썬 개발환경 설치 및 시작하기

백석대학교 강윤희

Python 역사



- 귀도 반 로섬 (Guido van Rossum)에 의해 개발
- 오픈 소스로 PSF에서 저작권을 가짐



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

Python3.7.4 다운로드 및 설치



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

2.X버전과 3.X버전 호환 안됨!!

Looking for a specific release?

Python releases by version number:

Release version	Release date		Click for more
Python 3.7.4	July 8, 2019	Download	Release Notes
Python 3.6.9	July 2, 2019	Download	Release Notes
Python 3.7.3	March 25, 2019	Download	Release Notes
Python 3.4.10	March 18, 2019	Download	Release Notes
Python 3.5.7	March 18, 2019	Download	Release Notes
Python 2.7.16	March 4, 2019	Download	Release Notes
Python 3.7.2	Dec. 24, 2018	Download	Release Notes
Python 3.6.8	Dec. 24, 2018	Download	Release Notes

Python 버전 차이 예

- Python3:

```
>>> 10 / 3  
3.3333333333333335
```

- Python 2.x:

```
>>> 10 / 3  
3
```

- Python3:

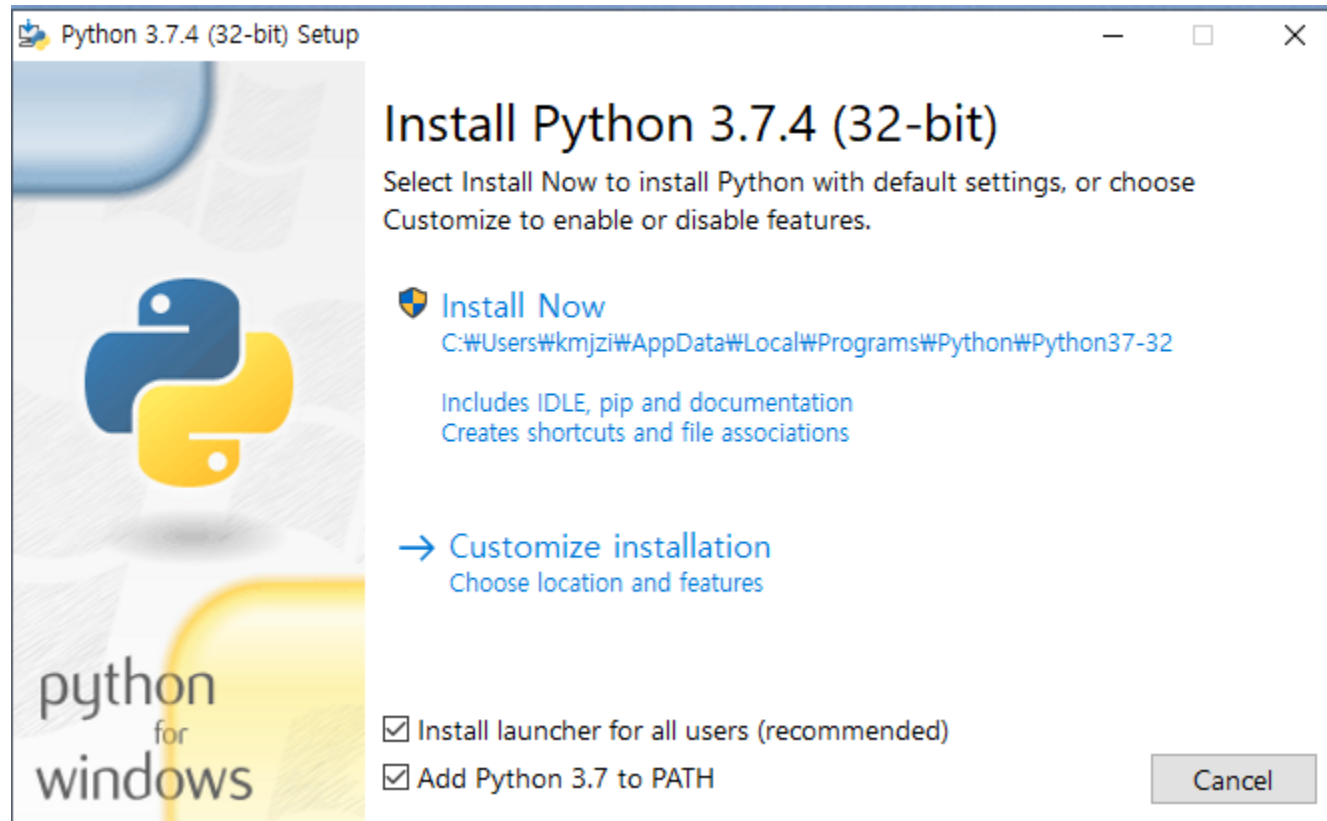
```
>>> print ("hello Python")
```

- Python2:


```
>>> print "hello Python"
```

Python3에서는 long 형 자료형
이 int형으로 통일됨

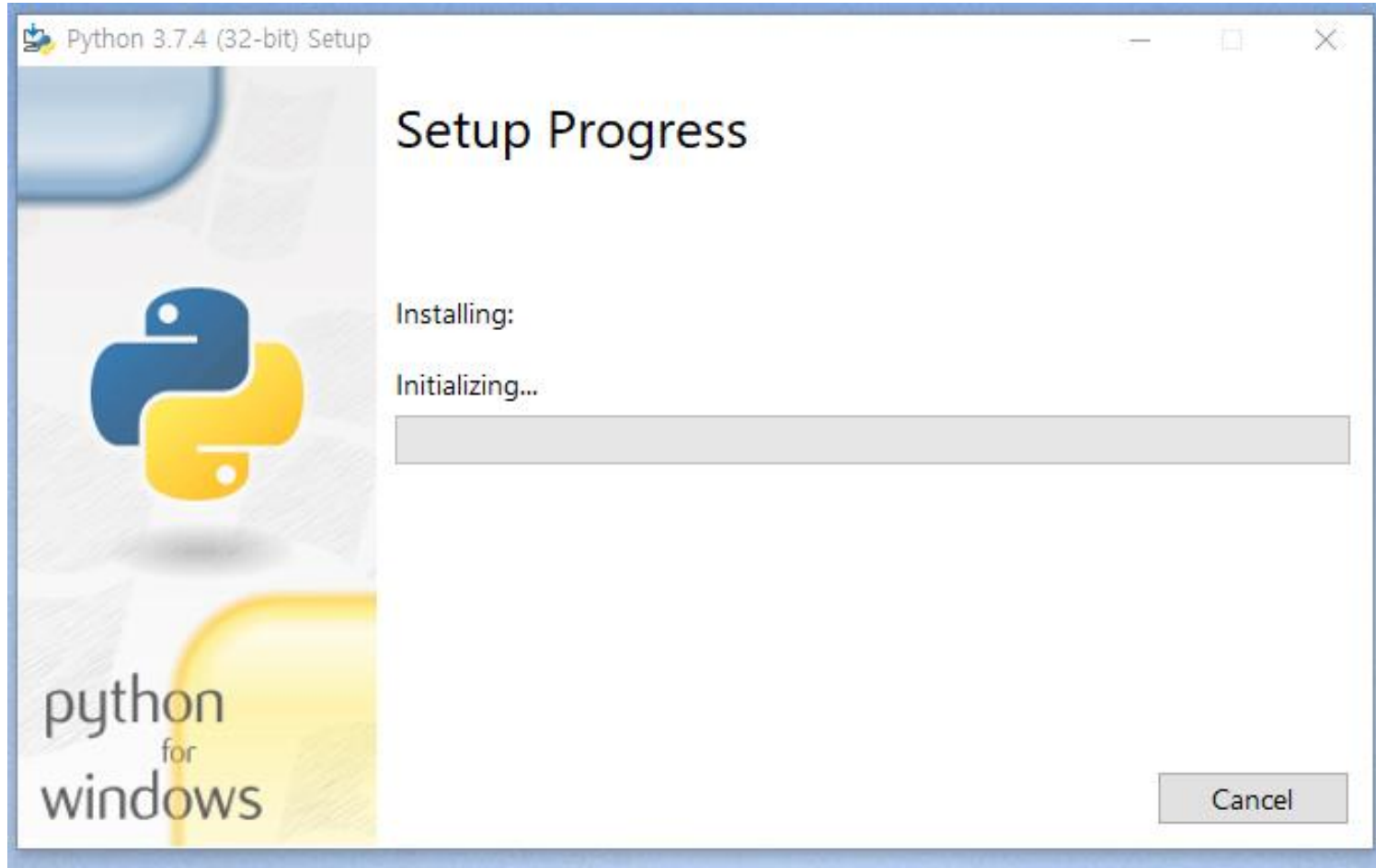
Python3.7.4 다운로드 및 설치



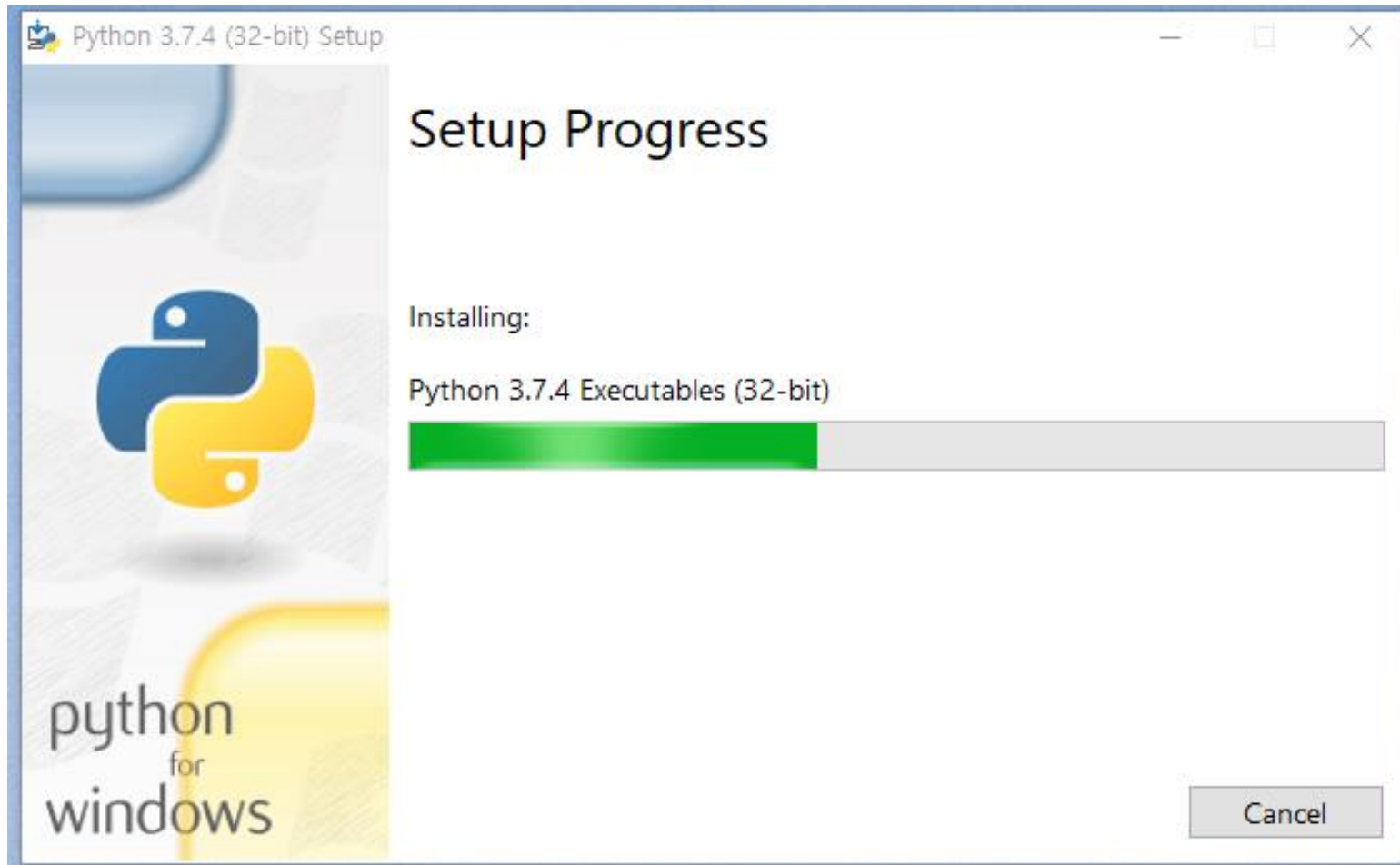
☒ Add Python 3.7 to PATH

 **Install Now**
C:\Users\kmjzi\AppData\Local\Programs\Python\Python37-32
Includes IDLE, pip and documentation
Creates shortcuts and file associations

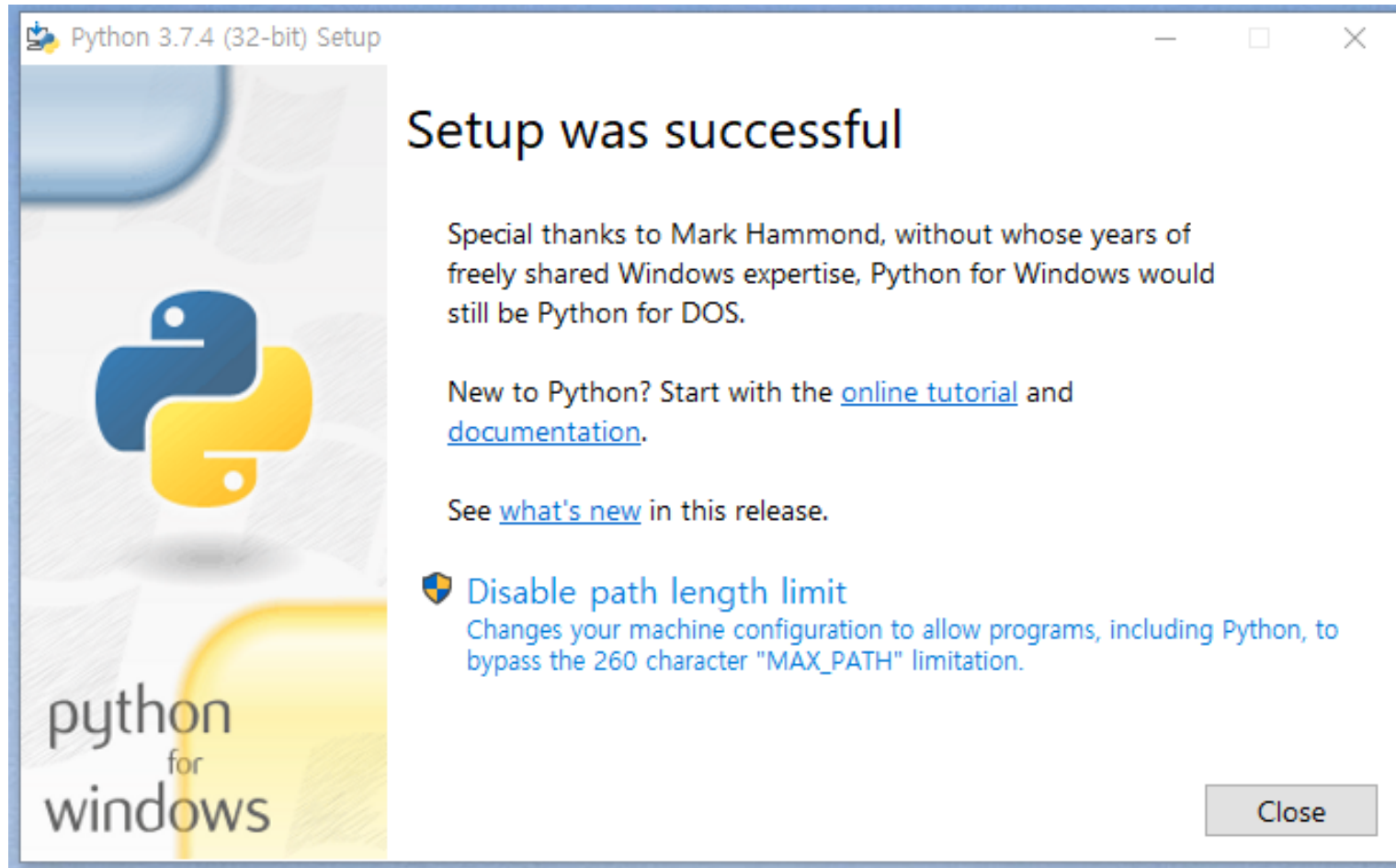
Python 3.7.4 다운로드 및 설치



Python 3.7.4 다운로드 및 설치



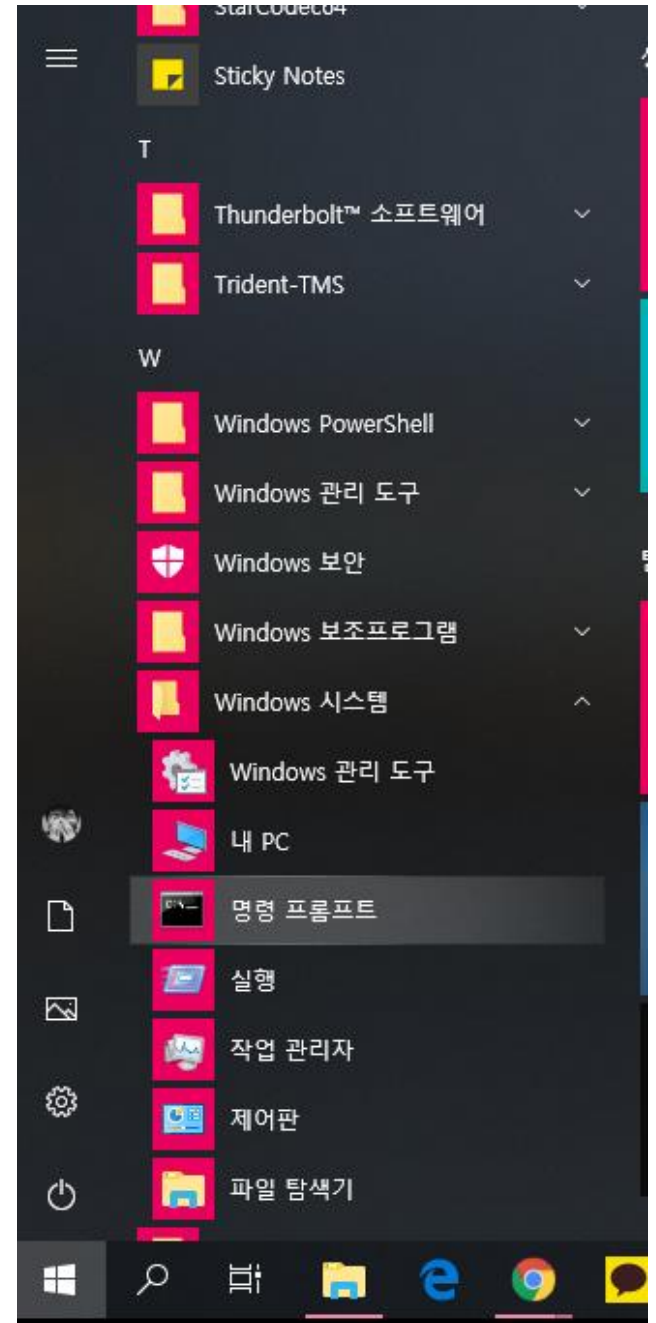
Python 3.7.4 다운로드 및 설치



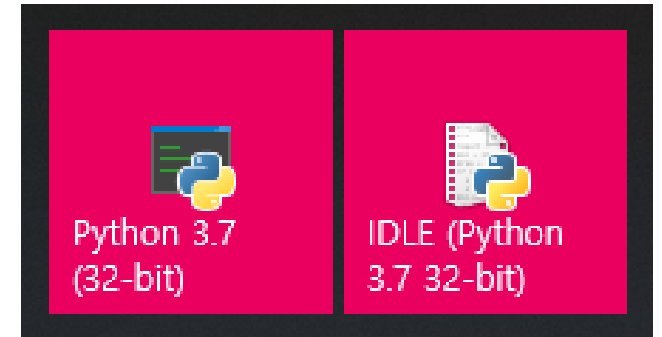
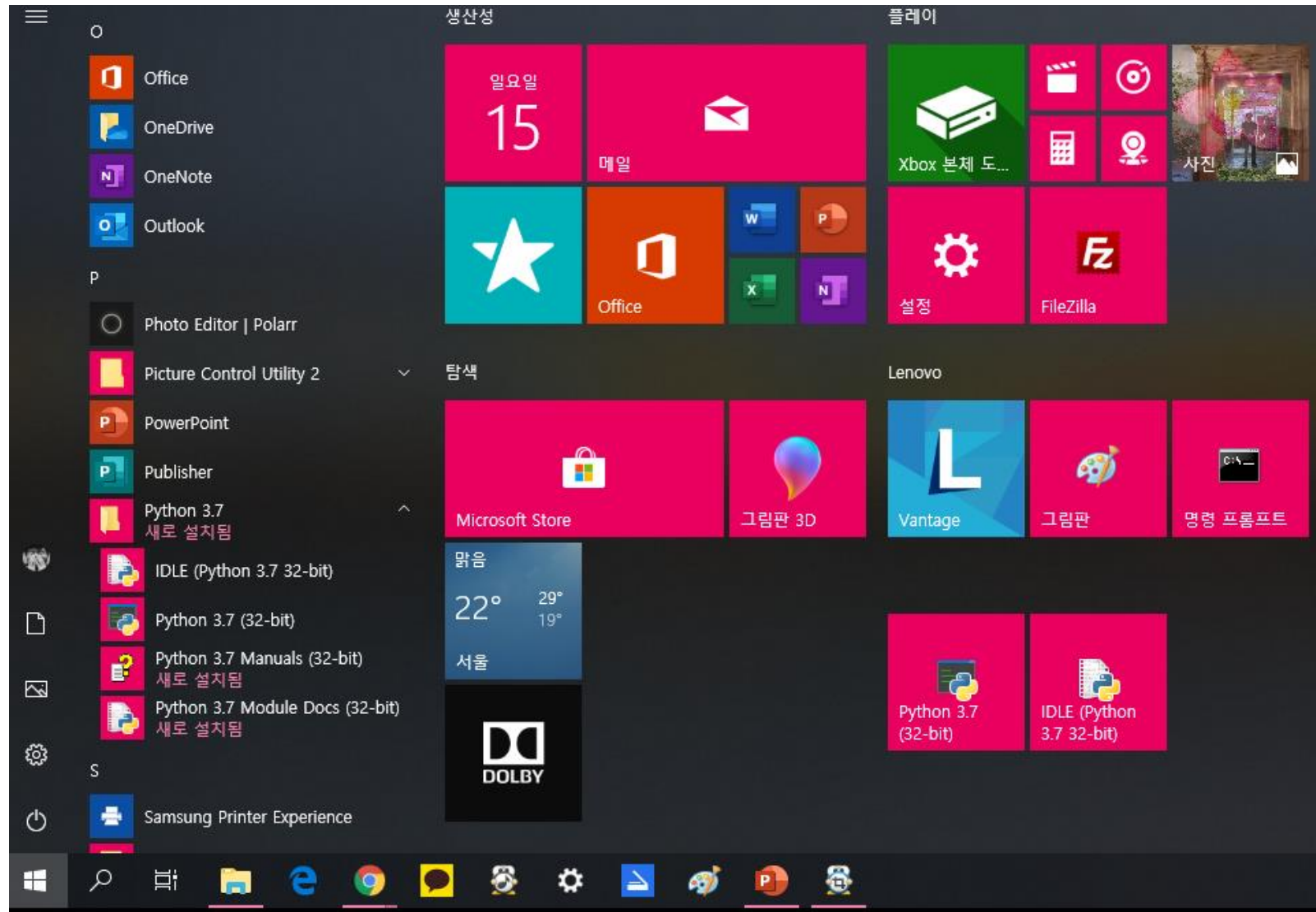
Close

파이썬 시작하기

- Windows 좌측 하단 시작 버튼 클릭
- Windows 시스템 클릭
- 명령 프롬프트

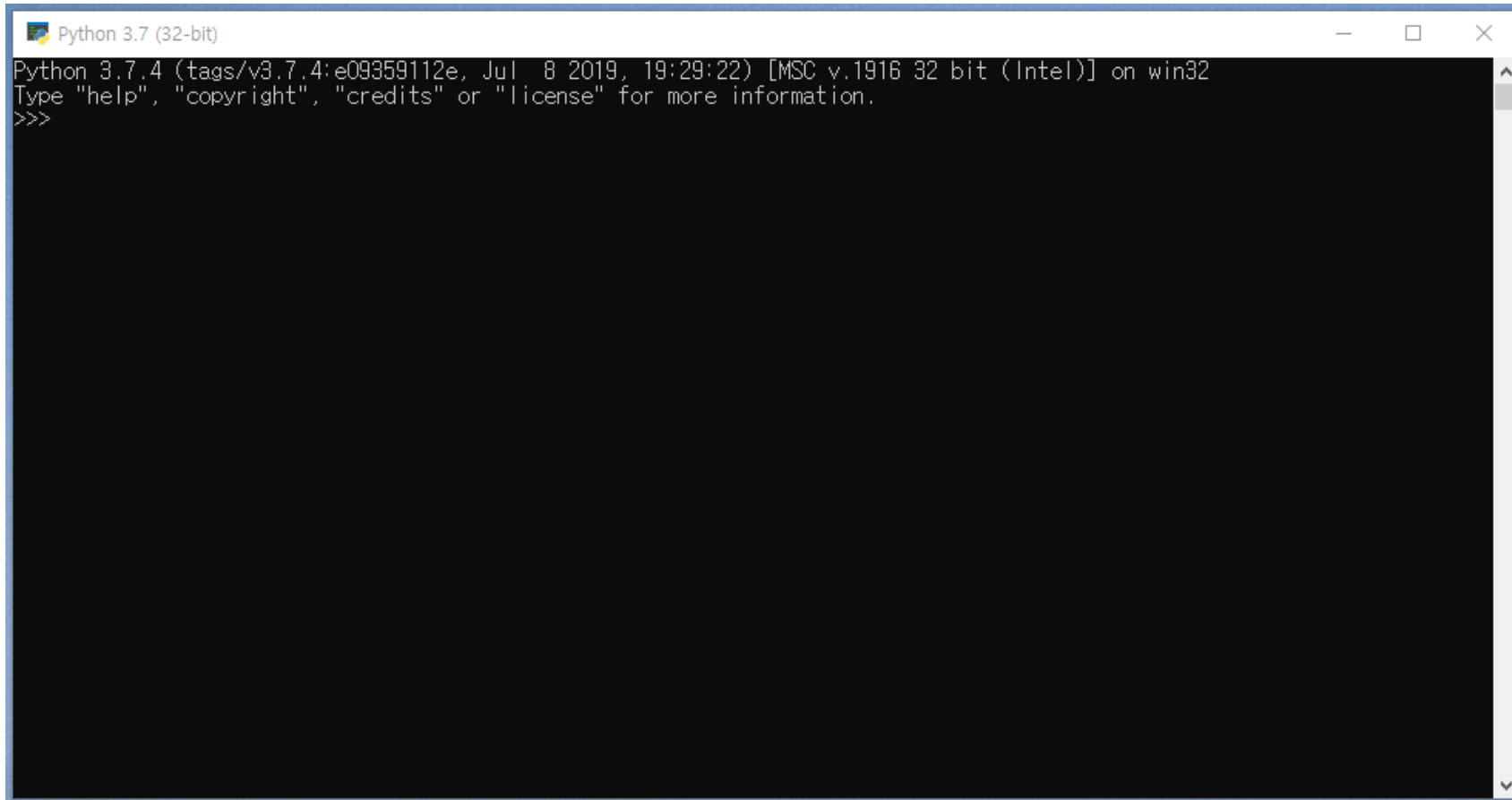


파이썬 시작하기



파이썬 시작하기

- Python 3.7.4(32bits) 클릭

A screenshot of a Windows command prompt window titled "Python 3.7 (32-bit)". The window has a standard Windows title bar with minimize, maximize, and close buttons. The command prompt shows the following text: "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.", and a prompt ">>>" on a black background with white text. A vertical scrollbar is visible on the right side of the window.

```
Python 3.7 (32-bit)
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.
>>>
```

파이썬 시작하기

- DOS 명령 프롬프트에서 "python"이라고 입력

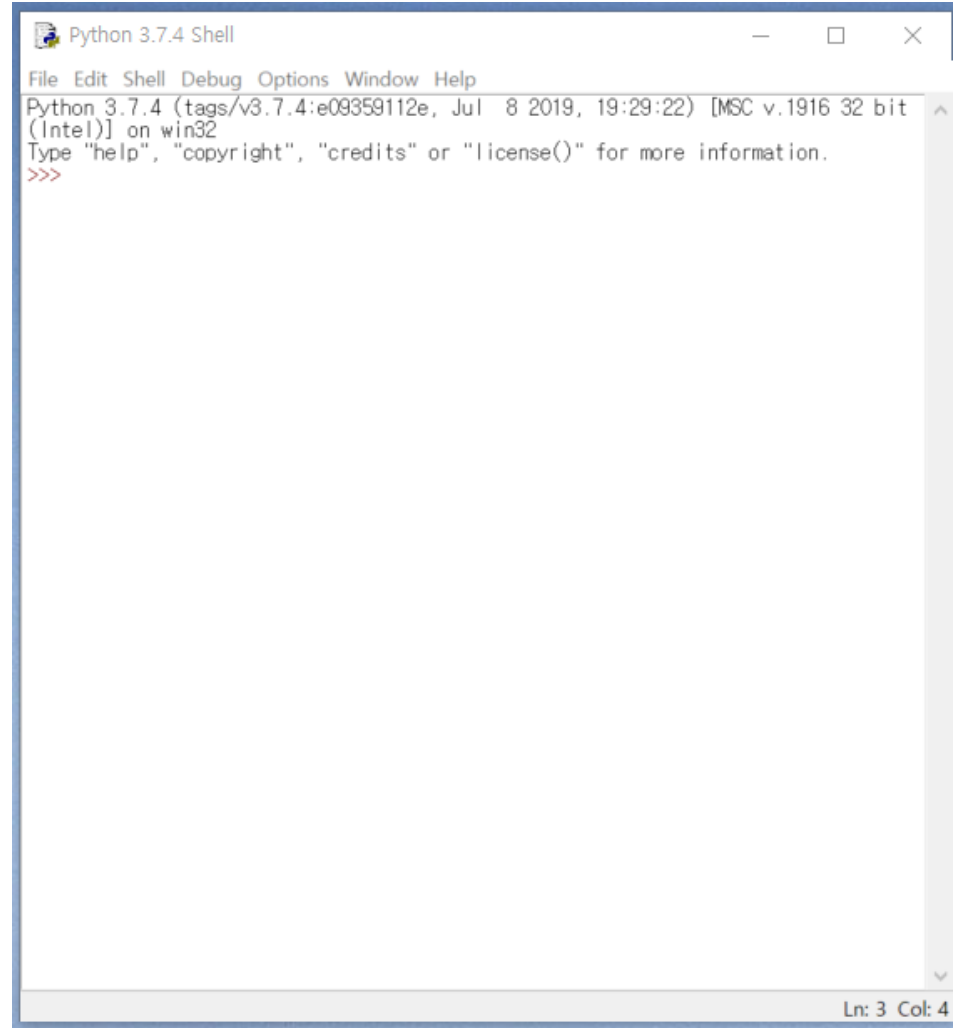
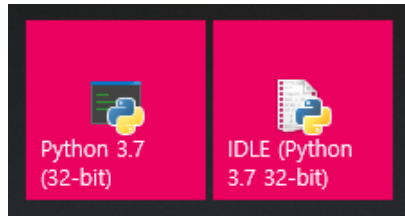
>>' which is also highlighted by a red box." data-bbox="97 328 625 943"/>

```
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Users\Wutopialove>python
Python 3.6.4 (v3.6.4:48ecceb, Dec 19 2017, 06:04:45) [MSC v.1900 32 bit (Intel)]
on win32
Type "help", "copyright", "credits" or "license" for more information.
>>>
```

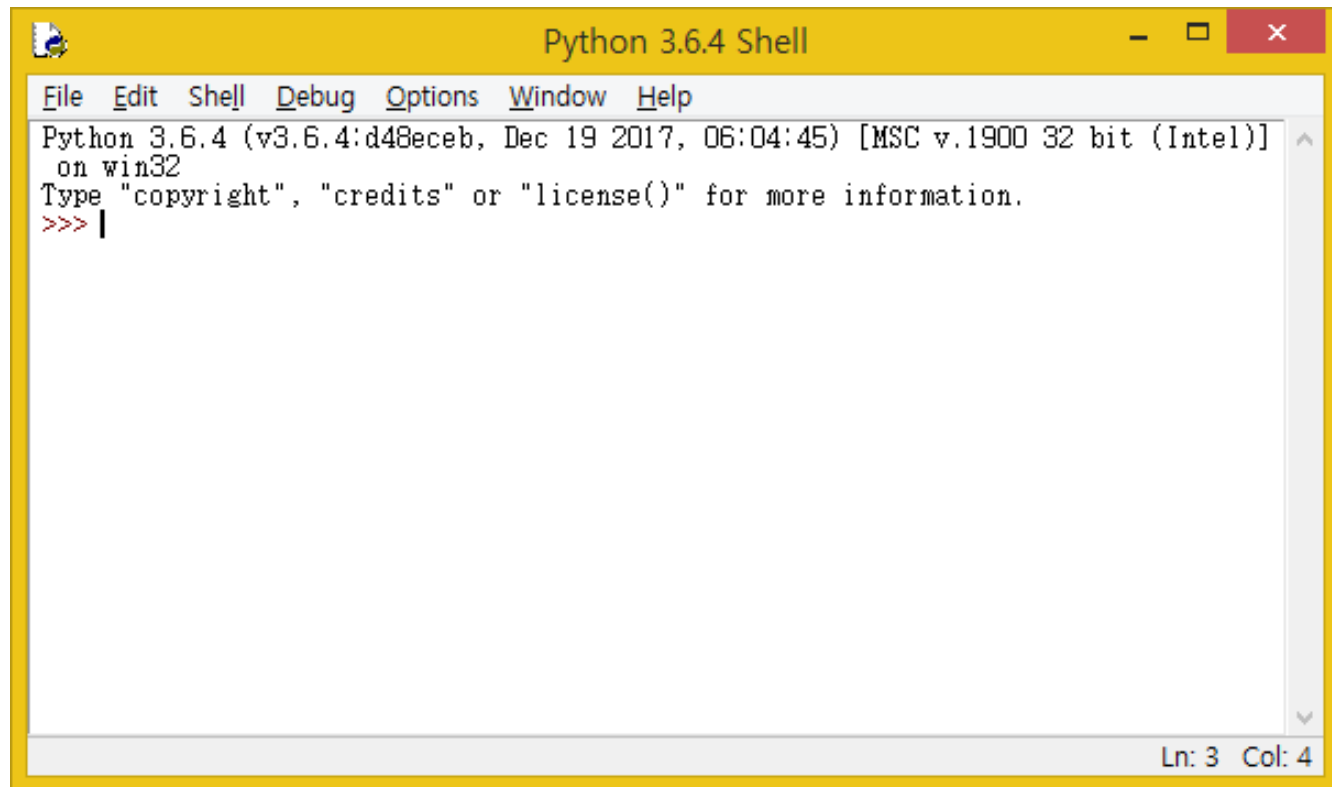
파이썬 시작하기

- 윈도우의 시작 메뉴에서 "IDLE" 프로그램을 찾아서 실행



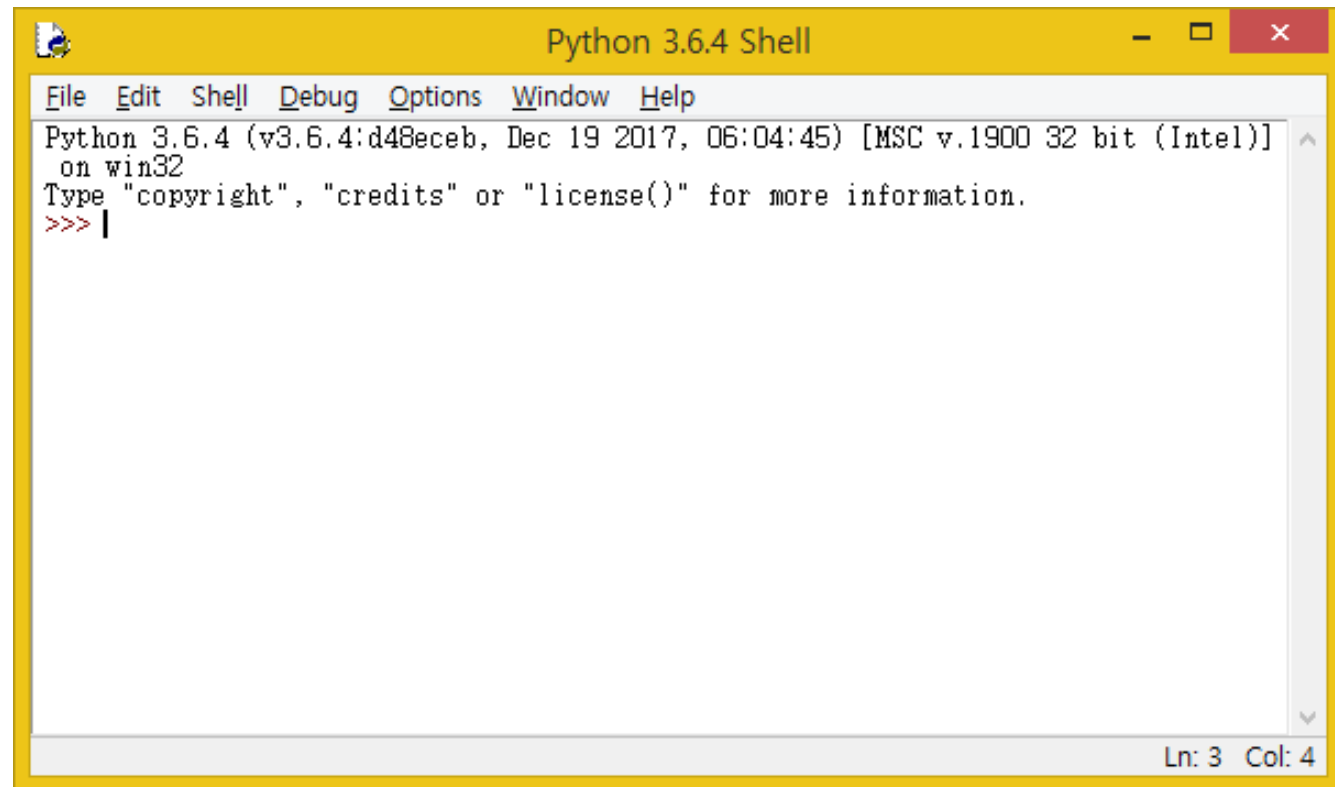
파이썬 시작하기

- 윈도우의 시작 메뉴에서 "IDLE" 프로그램을 찾아서 실행



파이썬 시작하기

- 윈도우의 시작 메뉴에서 "IDLE" 프로그램을 찾아서 실행



(문제풀이) Python 언어 특징 이해하기

- Python은 네덜란드의 귀도 반 로섬(Guido Van Rossum)이 개발한 해석 기반의 () 언어임
- Python 은 온라인 사진 공유 서비스인 인스타그램(Instagram), 파일 동기화 서비스인 ()등의 개발언어임
- Python 은 실행시점에서 자료형이 결정되는 ()을 지원함

IDLE(Integrated DeveLopment Environment)

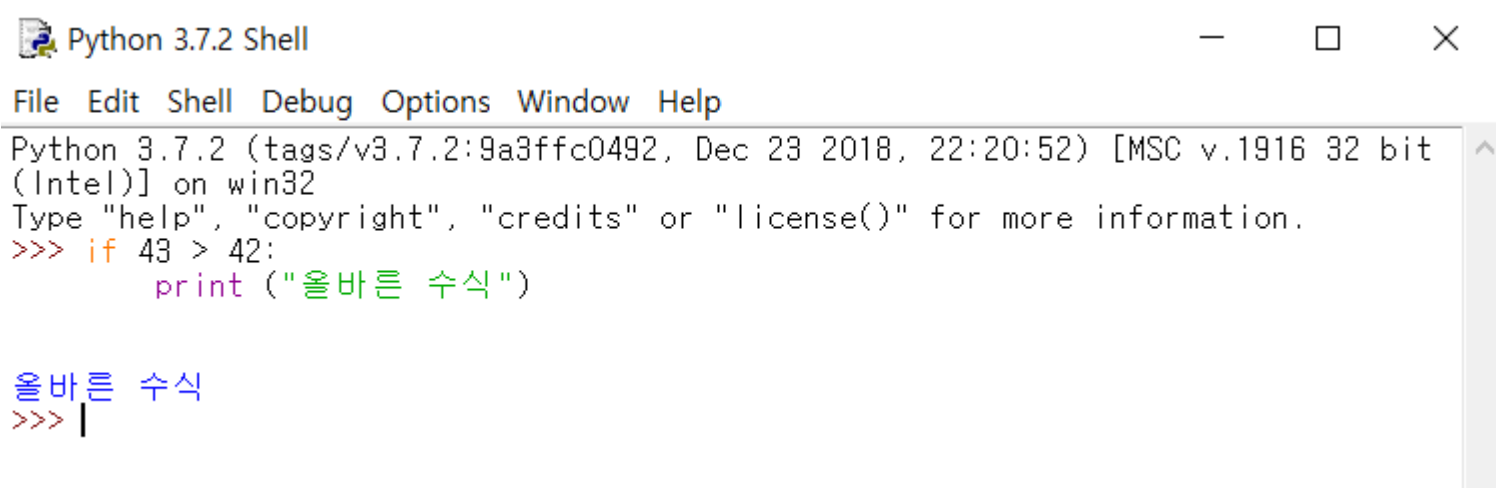
- 통합 개발 환경
- 세개의 닫는 꺾쇠(>>>) 프롬프트에 코드 입력



```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MSC v.1916 32 bit
(Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> |
>>> print("Hello World")
Hello World
```

IDLE 사용하기

- Python 코드를 입력 후 수행 후 결과를 출력함



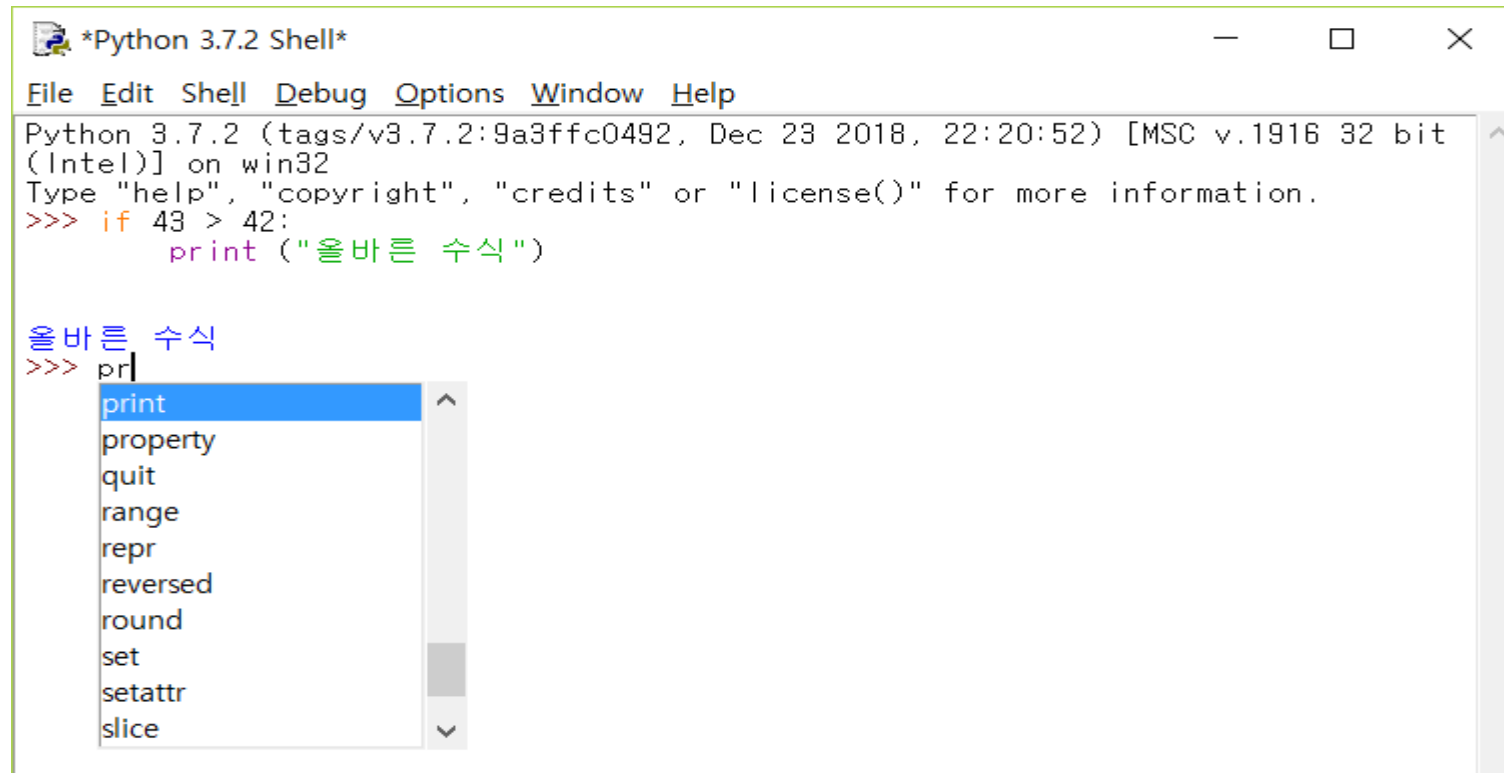
```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MSC v.1916 32 bit
(Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> if 43 > 42:
    print("올바른 수식")

올바른 수식
>>> |
```

- IDLE을 사용 구문 및 들여쓰기 규칙을 이해함

IDLE 사용하기

- 탭(tab)을 사용하여 Command 자동완성 활용하기



The screenshot shows the Python 3.7.2 Shell window. The menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. The main text area displays the Python version and system information, followed by a prompt. A code snippet is entered: `>>> if 43 > 42: print ("올바른 수식")`. Below this, the text "올바른 수식" is shown. The prompt `>>> pr` is followed by a dropdown menu listing various Python built-in functions: print, property, quit, range, repr, reversed, round, set, setattr, and slice. The "print" option is currently selected and highlighted in blue.

```
*Python 3.7.2 Shell*
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MSC v.1916 32 bit
(Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> if 43 > 42:
    print ("올바른 수식")

올바른 수식
>>> pr
print
property
quit
range
repr
reversed
round
set
setattr
slice
```