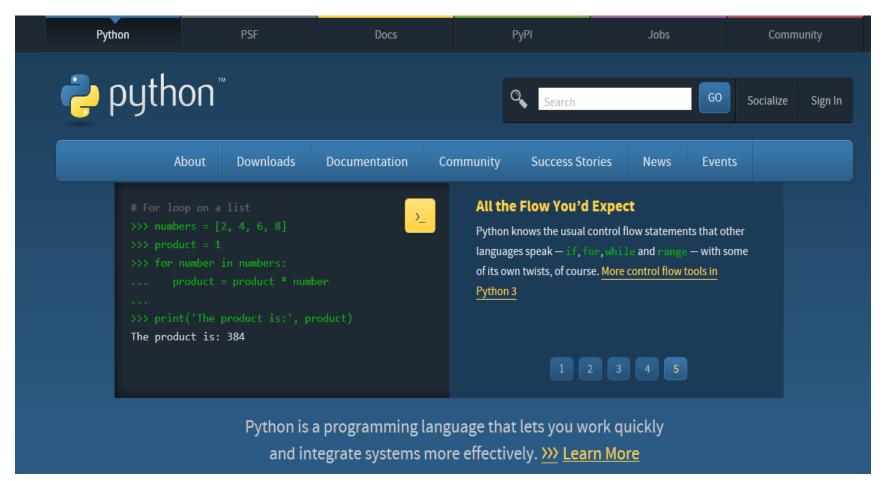
파이썬설치 1주차_02

한 동 대 학 교 김경미 교수

Python.org

http://www.python.org



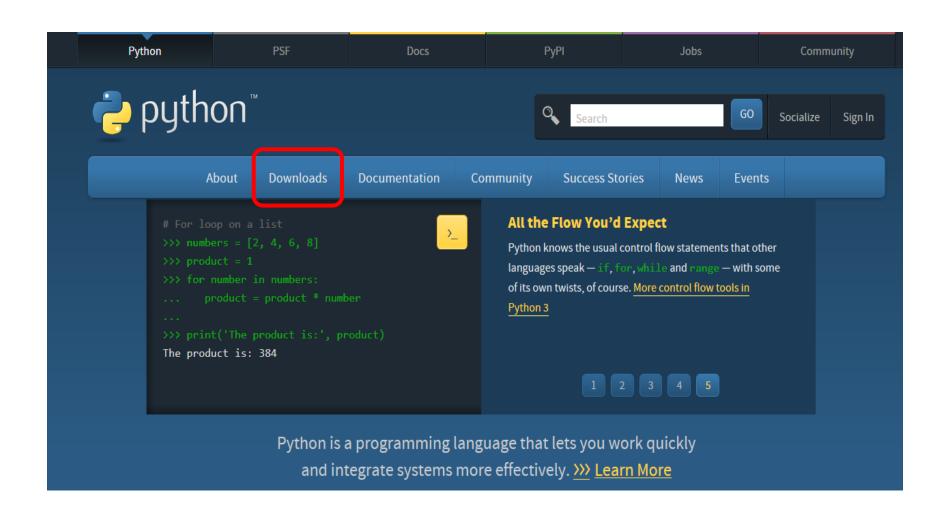
Python.org 제공 자료

- Downloads, 설치 파일
- Documentation, 튜토리얼과 reference



- Community
 - FAQ, attend conference, email newsletter(weekly)
- Events, 파이썬 관련 오프라인 모임 정보

Windows, 설치 과정(1/7)



Windows, 설치 과정 (2/7)

Windows 64bit 용이나 다른 OS용 설치 원하는 OS를 선택



Windows, 설치 과정 (3/7)

• Windows 64비트용

- Python 3.4.2 2014-10-13
 - Download Windows x86 MSI installer
 - Download Windows x86-64 MSI installer
 - Download Windows help file
 - Download Windows debug information files for 64-bit binaries
 - Download Windows debug information files

Windows, 설치 과정 (4/7)

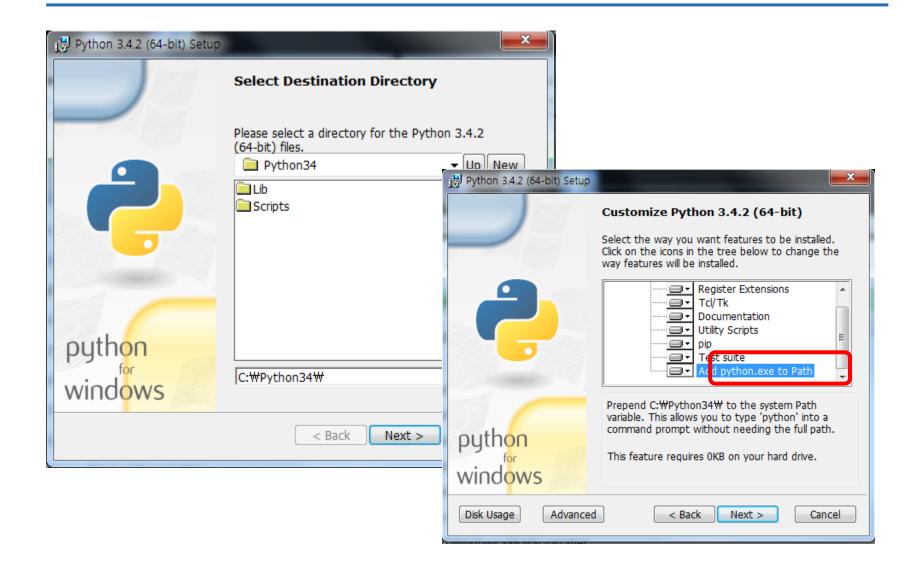


Windows, 설치 과정 (5/7)

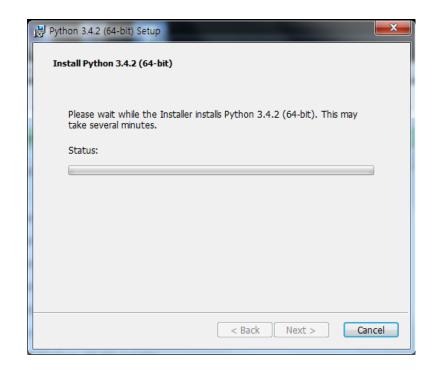
1. Install for all users클릭하면 설치 시작



Windows, 설치 과정 (6/7)

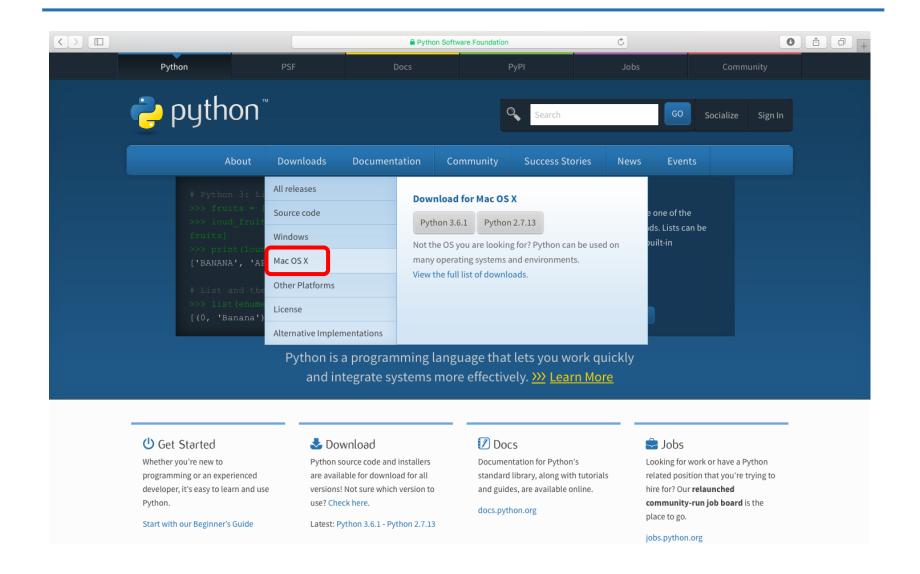


Windows, 설치 과정 (7/7)

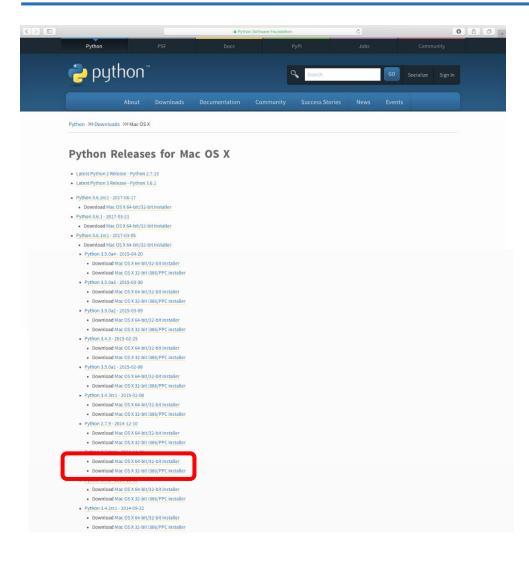




Mac OS, 설치 과정 (1/7)

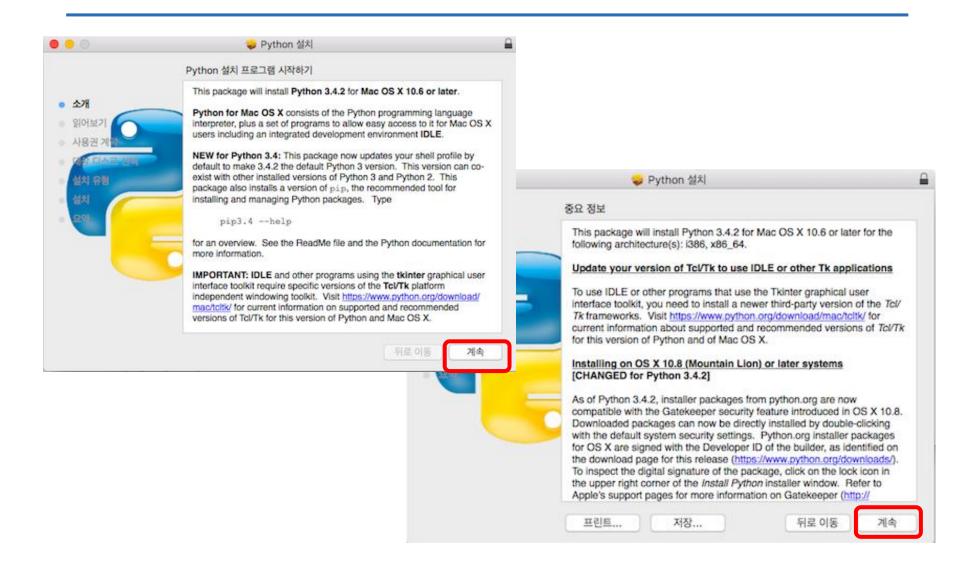


Mac OS, 설치 과정 (2/7)

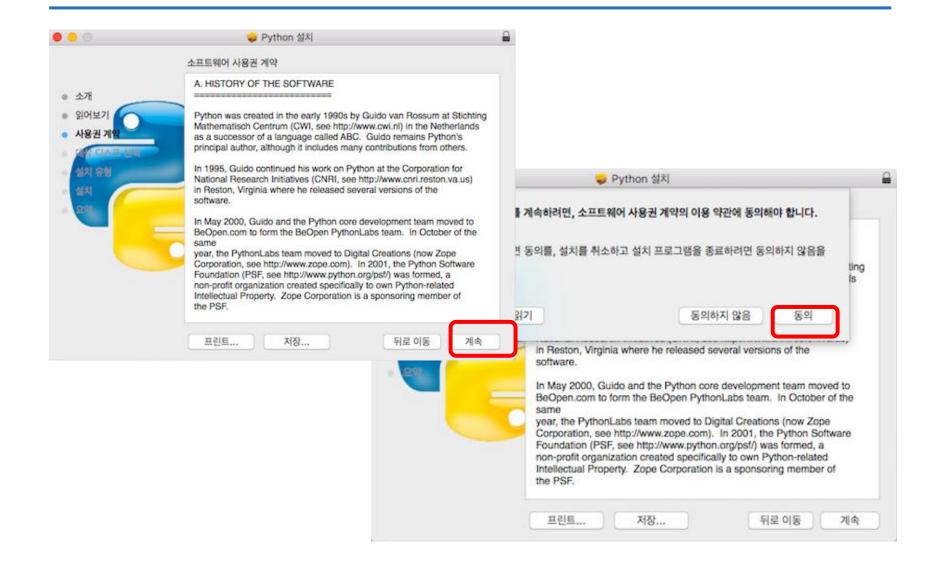


- 원하는 버전을 찾아 설치 가능
- Python 3.4.2
- Download Mac Os
 X 64-bit/32-bit
 installer 클릭
- 저장 후 실행

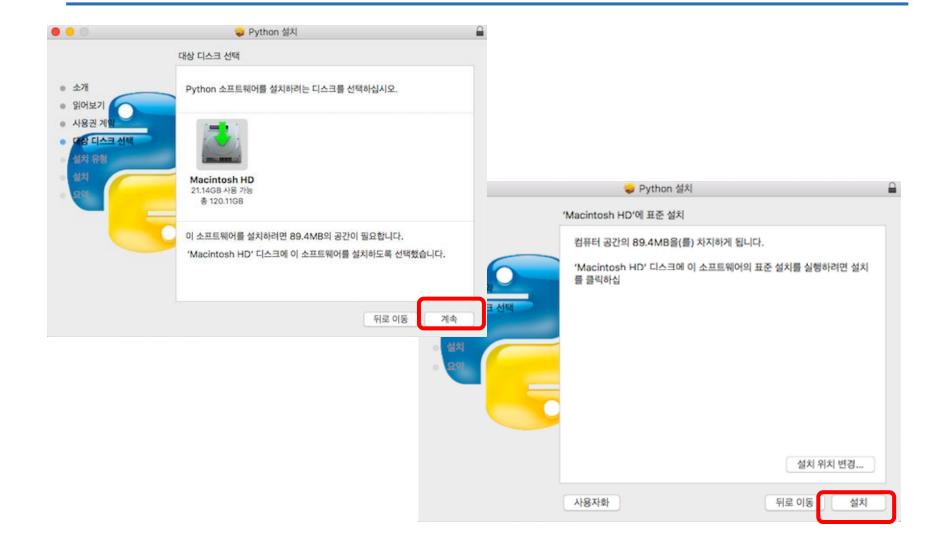
Mac OS, 설치 과정 (3/7)



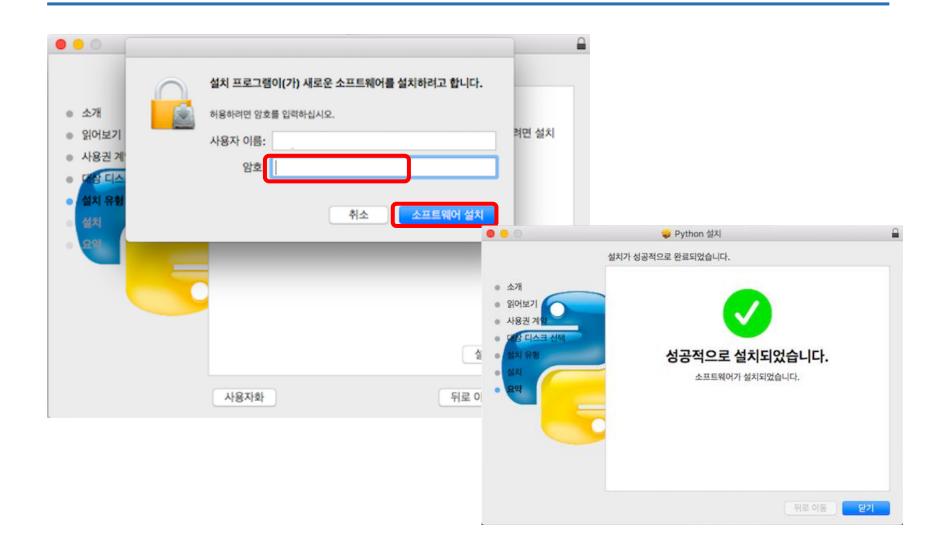
Mac OS, 설치 과정 (4/7)



Mac OS, 설치 과정 (5/7)

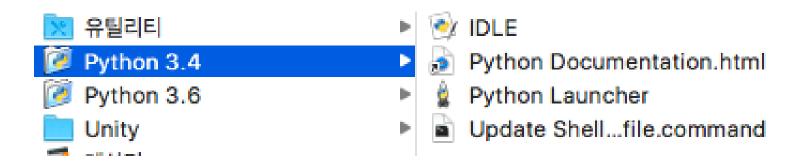


Mac OS, 설치 과정 (6/7)



Mac OS, 설치 과정 (7/7)

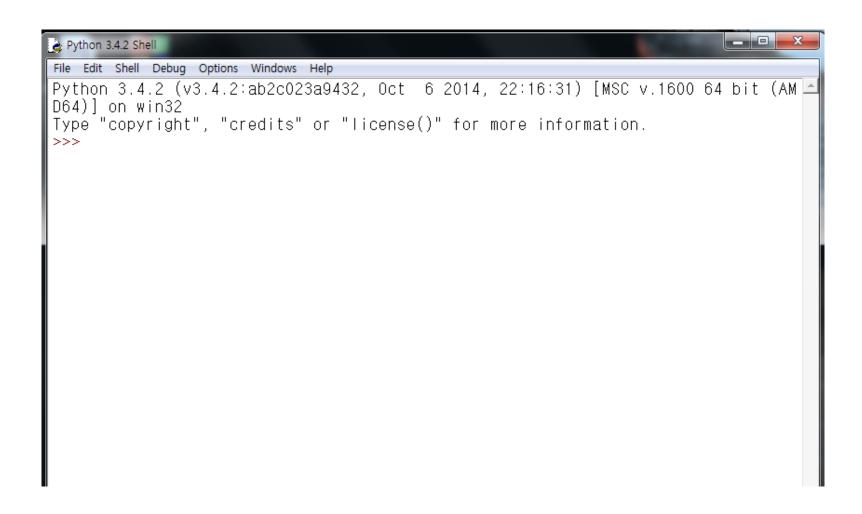
• 실행 경로: Finder – 응용프로그램 – Python 3.4 – IDLE



Windows, 실행해 보기



실행해 보기, IDLE



IDLE

- Integrated Development Environment for Python
- the Python IDE built with the Tkinter GUI toolkit
 - 파이썬으로 만들어졌으며, Tkinter GUI 지원
 - 윈도우와 유닉스에서 사용 가능
 - 여러 개의 작업 가능하고, 입력 취소 기능 제공
 - 간단한 디버깅 기능 제공

IDLE실행 - 상호작용 방식

• 파이썬 인터프리터 사용

- interactive mode
 - >>> 1 + 1
 - 2
 - >>> print("Hello World!")
 - Hello World!

```
File Edit Shell Debug Options Windows Help

Python 3.4.2 (v3.4.2:ab2c023a9432, Oct 6 2014, 22:16:31) [MSC v.1600 64 bit (AM 1064)] on win32

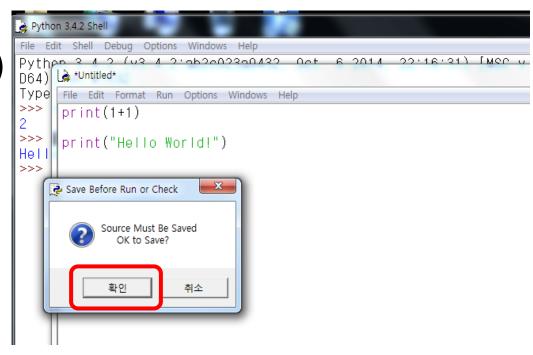
Type "copyright", "credits" or "license()" for more information.

>>> 1+1
2
>>> print("Hello World!")

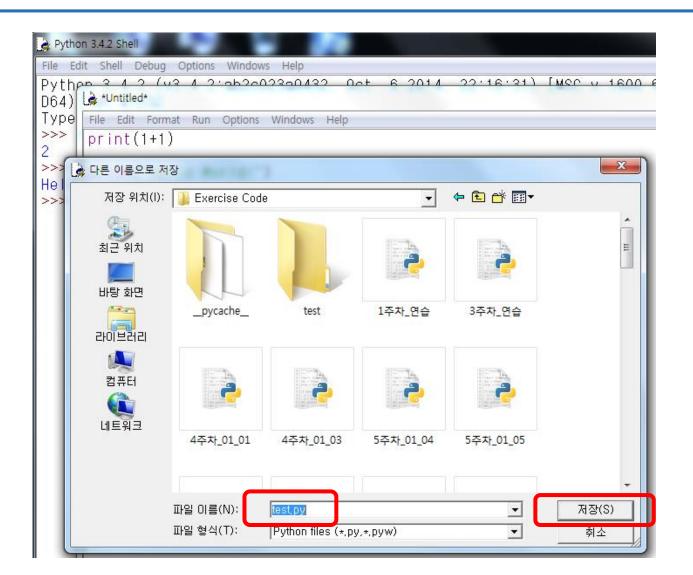
Hello World!
>>>
```

IDLE실행 - 스크립트 방식(1/3)

- 파이썬 스크립트는 .py로 끝나는 파일로 저장
- "File"을 클릭 후 "New file" 클릭
- 키보드로 입력
 - print(1+1)
 - print("Hello World!")
- 저장 후 실행(F5)



IDLE실행 - 스크립트 방식(2/3)



IDLE실행 - 스크립트 방식(3/3)

```
File Edit Shell Debug Options Windows Help

Python 3.4.2 (v3.4.2:ab2c023a9432, Oct 6 2014, 22:16:31) [MSC v.1600 64 bit (AM D64)] on win32

Type "copyright", "credits" or "license()" for more information.

>>> 1+1
2

>>> print("Hello World!")

Hello World!

REOTART

>>> 2

Hello World!

>>> |
```

사용 예제 (Text)

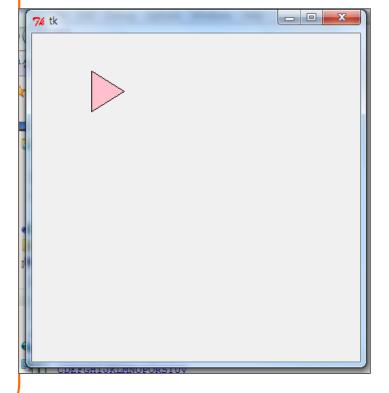
```
milesDriven = input("Enter miles driven:")
milesDriven = float(milesDriven)

gallonsUsed = input("Enter gallons used:")
gallonsUsed = float(gallonsUsed)

mpg = milesDriven / gallonsUsed
print("Miles per gallon:",mpg)
```

사용 예제 (move)

```
from tkinter import *
tk = Tk()
canvas = Canvas(tk, width=400, height=400)
canvas.pack()
my t = \text{canvas.create polygon}(10,10,10,60,50,35,\text{fill='pink'},
outline='black')
def movetriangle(event):
   if event.keysym=='Up':
      canvas.move(my t,0,-3)
      canvas.itemconfig(my t, fill='pink')
   elif event.keysym=='Down':
      canvas.move(my t,0,3)
      canvas.itemconfig(my_t, fill='grey')
   elif event.keysym=='Left':
      canvas.move(my t,-3, 0)
      canvas.itemconfig(my t, fill='lightblue')
   else:
      canvas.move(my t,3,0)
      canvas.itemconfig(my t, fill='white')
canvas.bind_all('<KeyPress-Up>', movetriangle)
canvas.bind all('<KeyPress-Down>', movetriangle)
canvas.bind_all('<KeyPress-Left>', movetriangle)
canvas.bind all('<KeyPress-Right>', movetriangle)
```

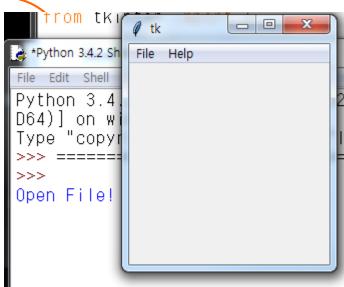


사용 예제 (draw)

```
import turtle
wn = turtle.Screen()
wn.bgcolor("Catch Round")
t = turtle.Turtle()
t.shape("turtle")
t.color("pink")
                     # This is new
t.penup()
size = 20
for i in range(50):
                     # Leave an impression on the canvas
  t.stamp()
                        # Increase the size on every iteration
  size = size + 3
  t.forward(size)
                     # Move tess along
                     # ... and turn her
  t.right(24)
```

사용 예제 (web)

```
from tkinter import *
def NewFile():
   print("New File!")
def OpenFile():
   print("Open File!")
def About() :
   print("This is a simple example of a menu")
root = Tk()
menu = Menu(root)
root.config(menu=menu)
filemenu = Menu(menu)
menu.add cascade(label="File", menu=filemenu)
filemenu.add command(label="New", command=NewFile)
filemenu.add command(label="Open...", command=OpenFile)
filemenu.add separator()
filemenu.add command(label="Exit", command=root.quit)
helpmenu = Menu(menu)
menu.add_cascade(label="Help", menu=helpmenu)
helpmenu.add command(label="About...", command=About)
mainloop()
```



요약

- 파이썬 IDLE 설치
- Python.org
- 처음으로 사용해 보기
 - 상호작용 모드
 - 스크립트 모드

감사합니다

1주차_02 파이썬 설치