

Python as a Hobby

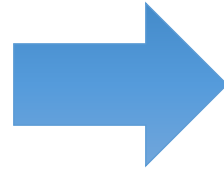
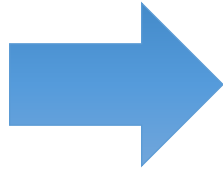
Intro

계획

- 6주? (7/17 ~ 8월말?)
- 매 주 토요일
- 준비물 - 노트북, 흥미
- 알려주고 실제로해보고 프로젝트해보기

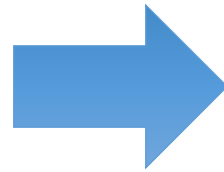
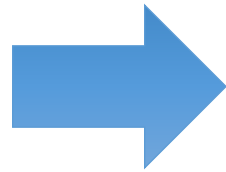
프로그램

- 컴퓨터에게 무언가를 시키는 것



프로그램

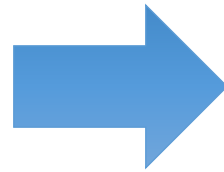
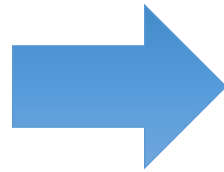
- 특정한 무언가를 시키는 것



“익태에게 5000원 보내라”

프로그램

- 특정한 무언가를 순차적으로 시키는 것



“익태에게 5000원 보내라”

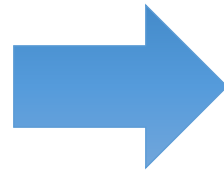
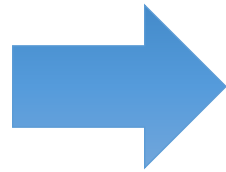
“아름이에게 5000원 보내라”

“승주에게 5000원 보내라”

⋮

프로그램

- 특정한 무언가를 반복해서 순차적으로 시키는 것



매달 1일에

“익태에게 5000원 보내라”

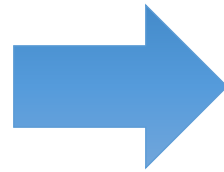
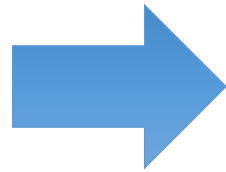
“아름이에게 5000원 보내라”

“승주에게 5000원 보내라”



프로그래밍

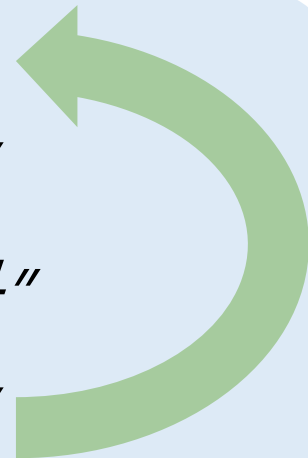
- 컴퓨터에게 무언가를 시키는 것을 만드는 것



"Programming"

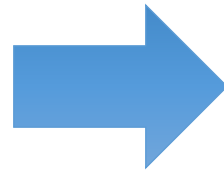
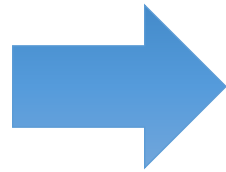
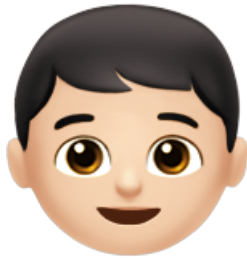
매달 1일에

"익태에게 5000원 보내라"
"아름이에게 5000원 보내라"
"승주에게 5000원 보내라"



프로그래밍 언어

- 어떤 말로 컴퓨터에게 일을 시킬 것인가?



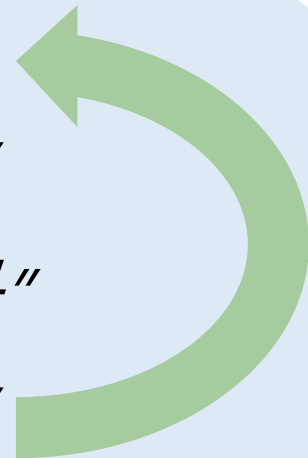
“한국어”

매달 1일에

“익태에게 5000원 보내라”

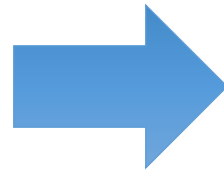
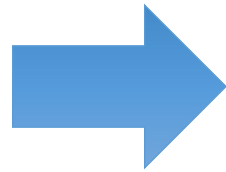
“아름이에게 5000원 보내라”

“승주에게 5000원 보내라”



프로그래밍 언어

- 어떤 말로 컴퓨터에게 일을 시킬 것인가?



"English"

On the first of every month

"transfer ₩5000 to ITK"

"transfer ₩5000 to ARM"

"transfer ₩5000 to SJH"



프로그램을 만들어보자

- 뭘 만들 것인가
- 무엇으로 만들 것인가
- 어떻게 만들 것인가

프로그램을 만들어보자

- 뭘 만들 것인가
- 무엇으로 만들 것인가
- 어떻게 만들 것인가

System
Network
Security
Web
Data analysis
Machine learning
.
.
.

프로그램을 만들어보자

- 뭘 만들 것인가
- 무엇으로 만들 것인가
- 어떻게 만들 것인가

C
C++
Java
Python
.
.
.

프로그램을 만들어보자

- 뭘 만들 것인가
- 무엇으로 만들 것인가
- 어떻게 만들 것인가

Data structure
Algorithm
Optimization

·
·
·

프로그램을 만들어보자

- 뭘 만들 것인가
- 무엇으로 만들 것인가
- 어떻게 만들 것인가

하고싶은 거 다 해

파이썬으로

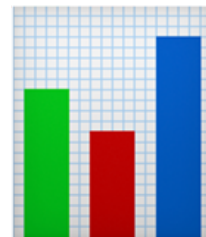
잘.. 🙌



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프로그래밍

취미

실무

무엇을 만들어볼 것인가?

프로그래밍을 하려면

- Integrated Development Environment (통합 개발 환경)
 - 프로그래밍을 할 수 있도록 도와주는 프로그램
- Text editor
 - 문서 편집기
 - 이걸로도 프로그래밍 가능
 - 추가적인 프로그램 설치 해야함

Text Editor 설치

- Visual Studio Code
 - <https://code.visualstudio.com/>

Version 1.58 is now available! Read about the new features and fixes from June.

Code editing. Redefined.

Free. Built on open source. Runs everywhere.

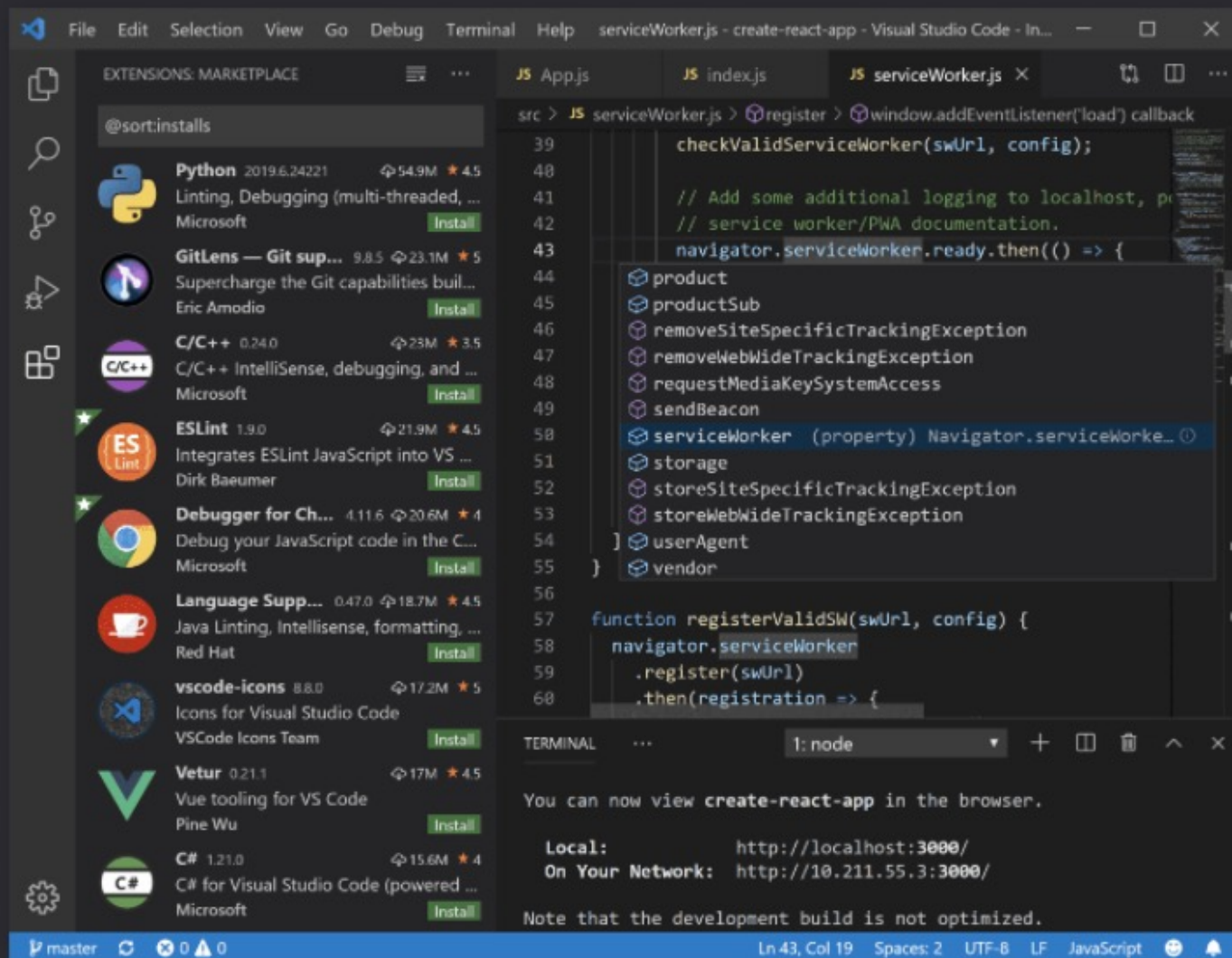
Download for Windows

Stable Build



		Stable	Insiders
macOS	Universal	↓	↓
Windows x64	User Installer	↓	↓
Linux x64	.deb	↓	↓
	.rpm	↓	↓

[Other downloads](#)



Python 설치

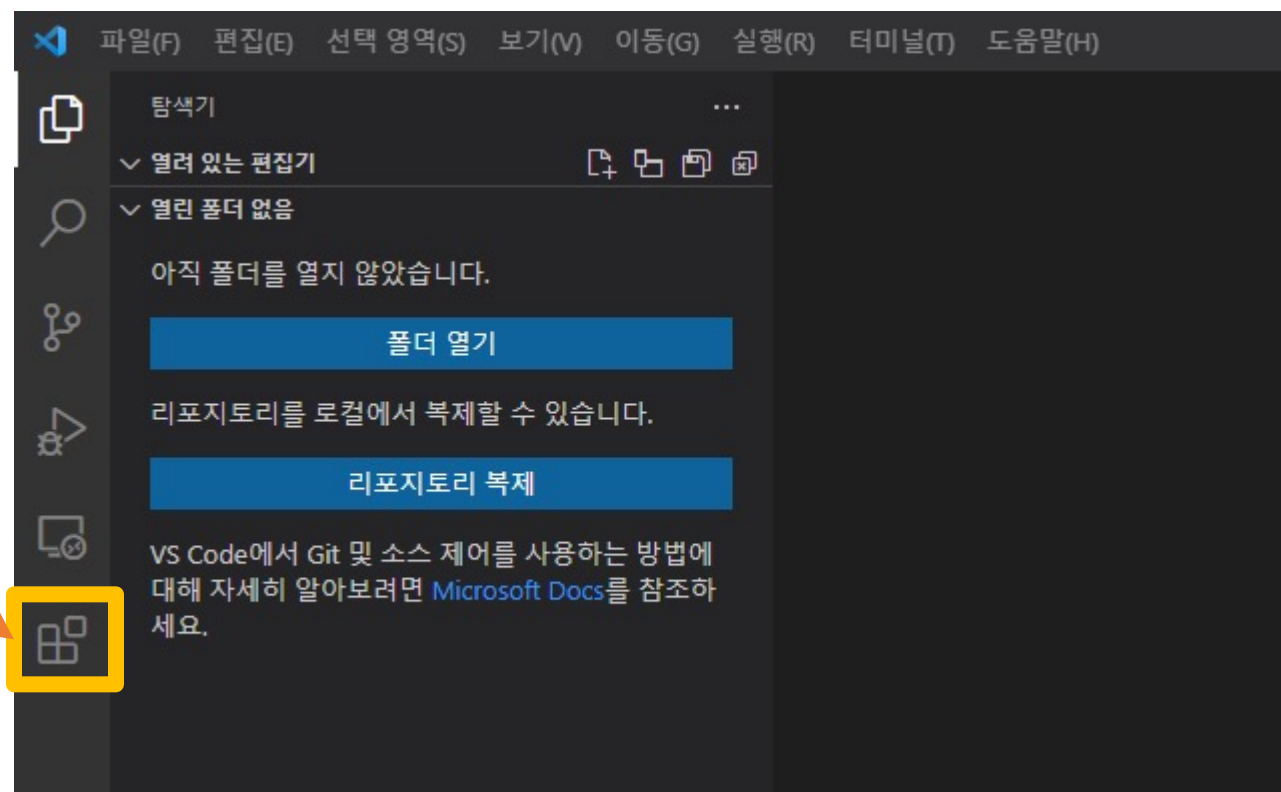
- Python
 - Interpreter (R, Java Script, etc.)
- Extensions
 - 프로그래밍하는데 도움주는 애들

* 참고

Compiler – C, C++, Java, C#, etc.

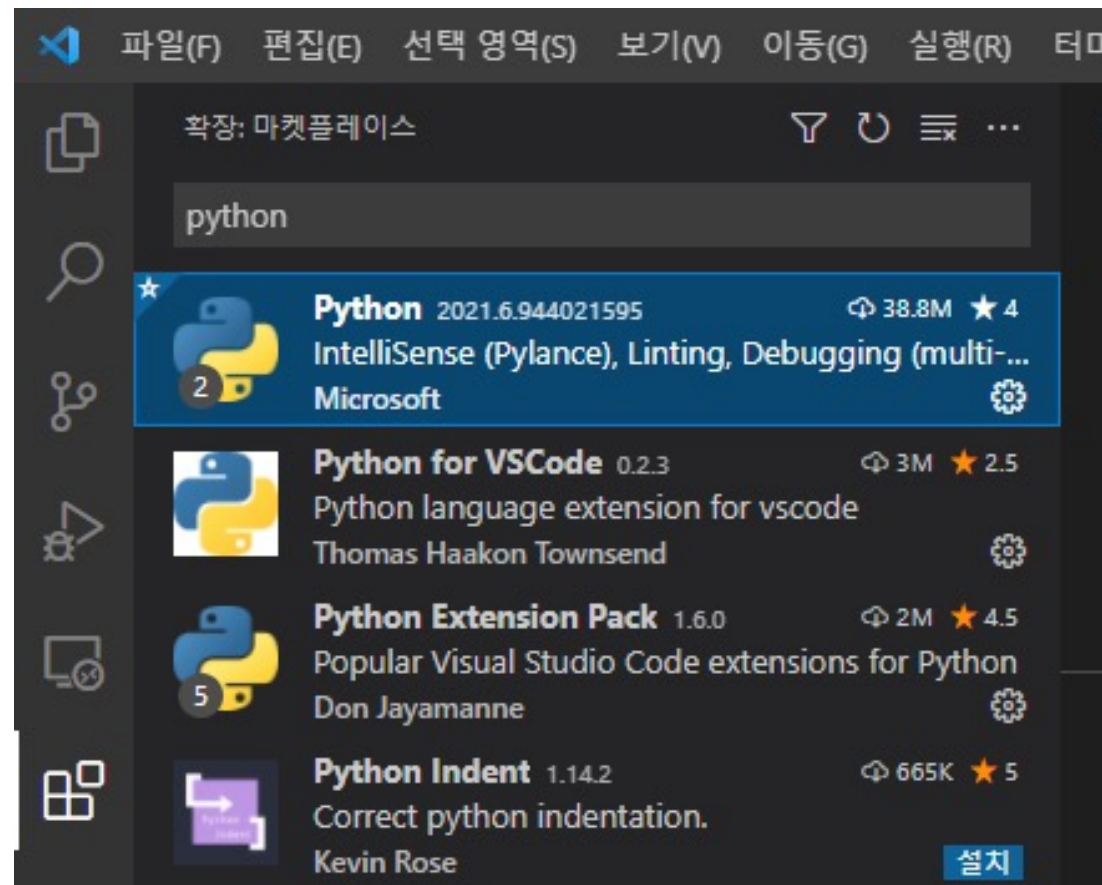
Python Extension

1. Extension tab으로 이동



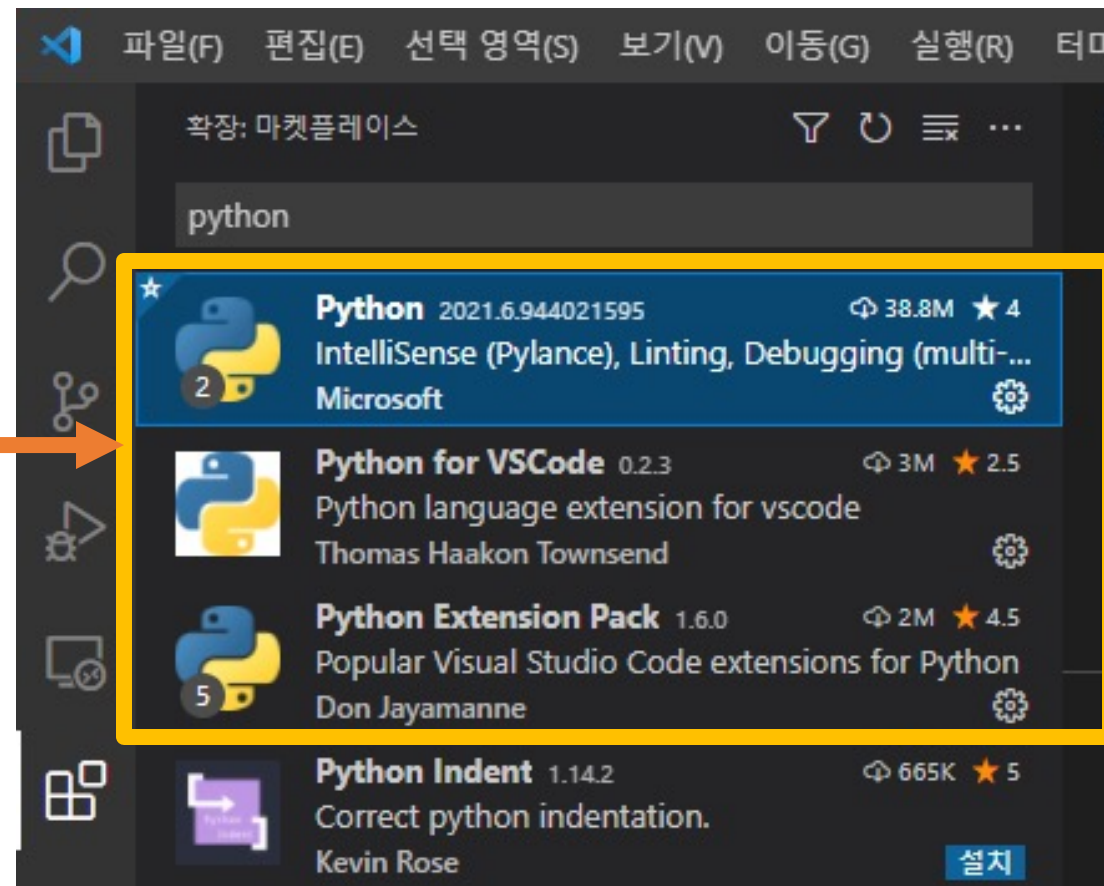
Python Extension

1. Extension tab으로 이동
2. Python 검색

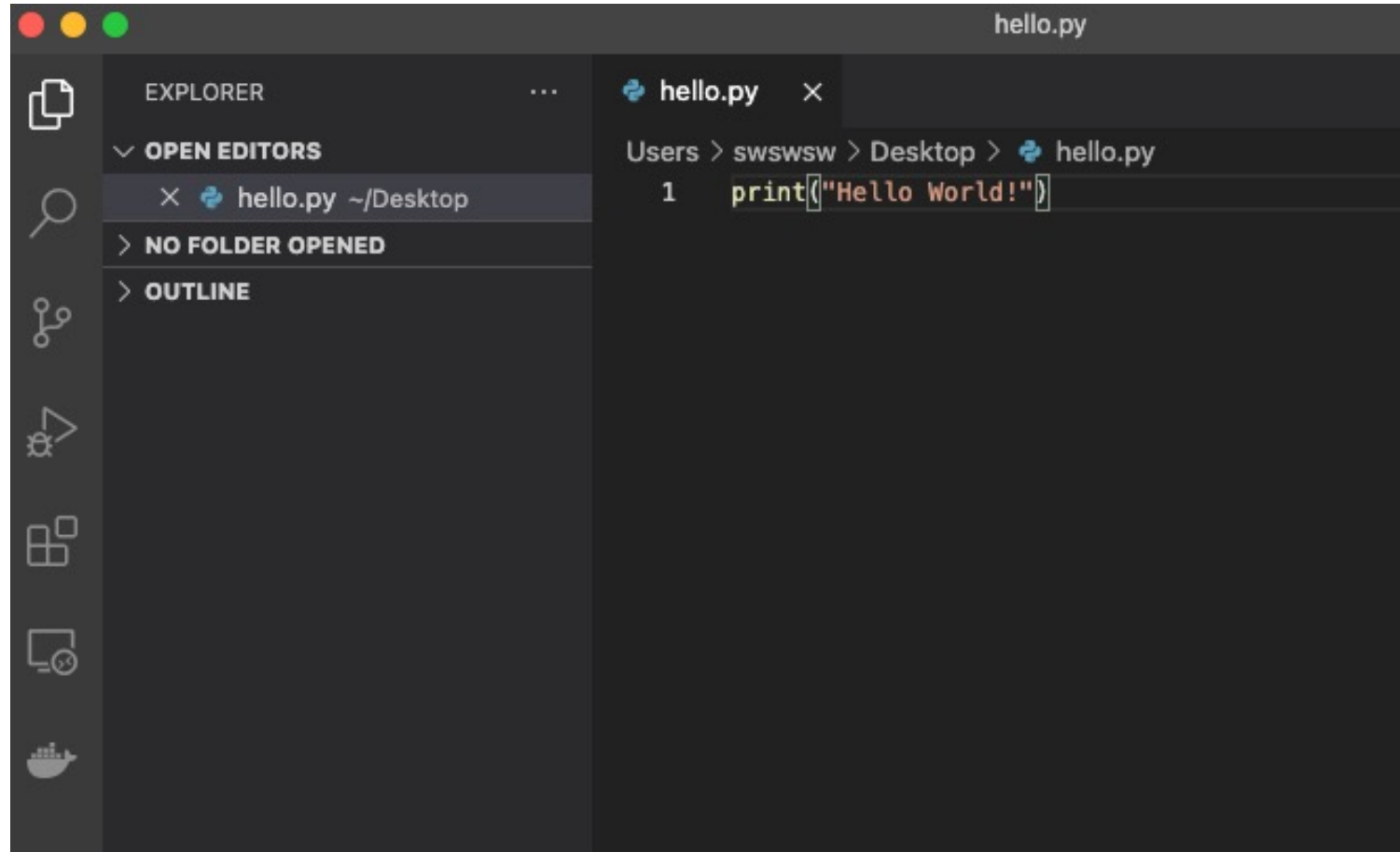


Python Extension

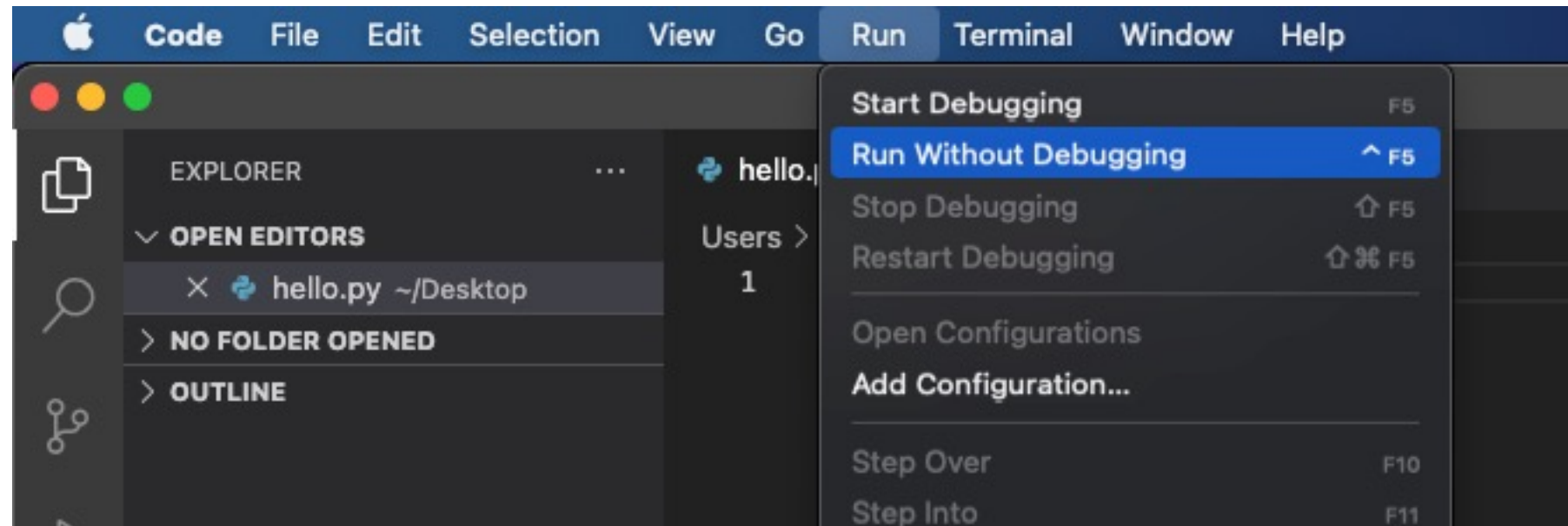
1. Extension tab으로 이동
2. Python 검색
3. Python 및 Extension 설치
 - Python
 - Python for vscode
 - Python extension package



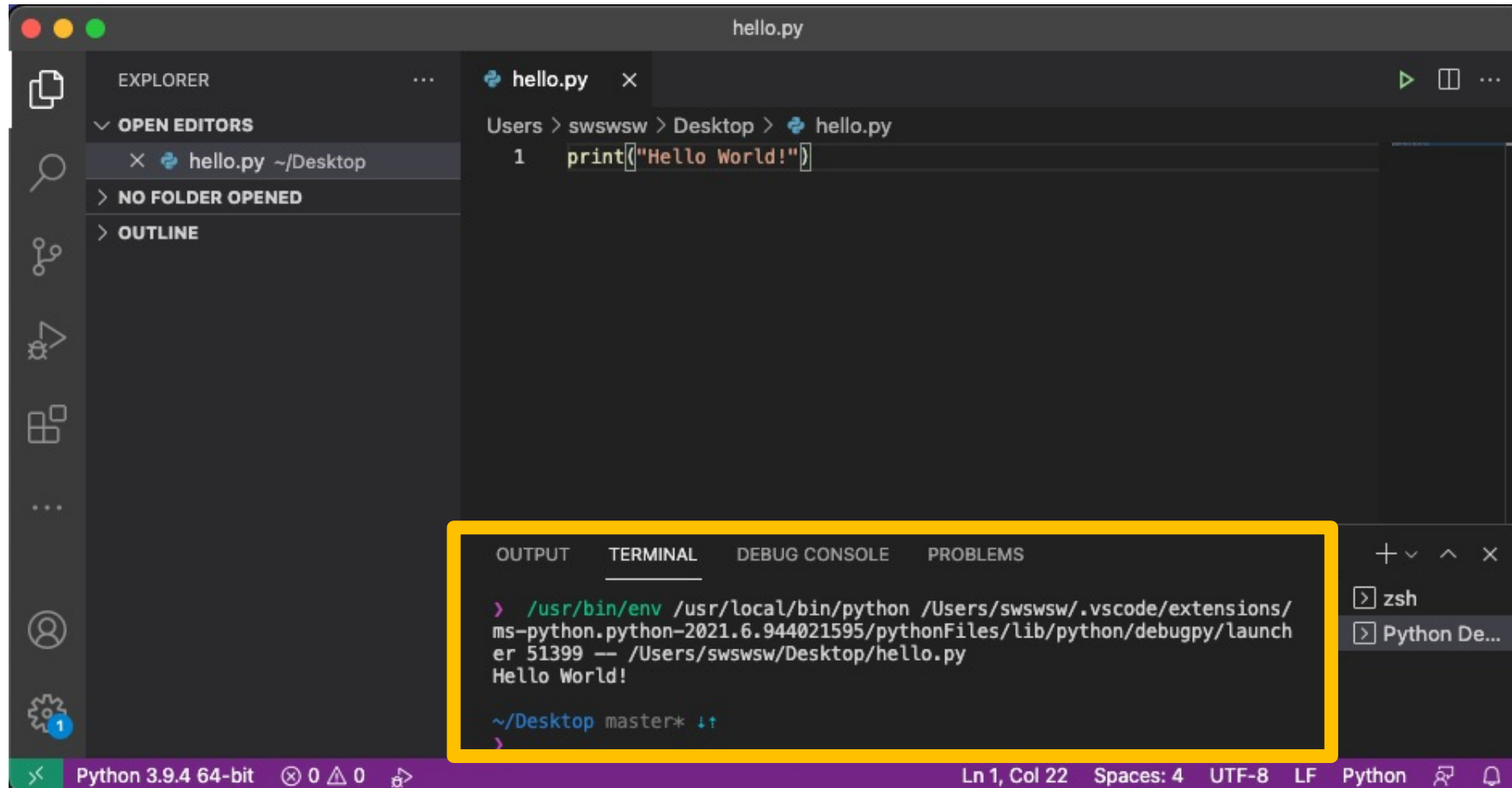
Hello World!



Hello World!



Hello World!



The image shows a Visual Studio Code editor window with a dark theme. The Explorer sidebar on the left shows a file named 'hello.py' on the Desktop. The main editor area displays the code for 'hello.py':

```
1 print("Hello World!")
```

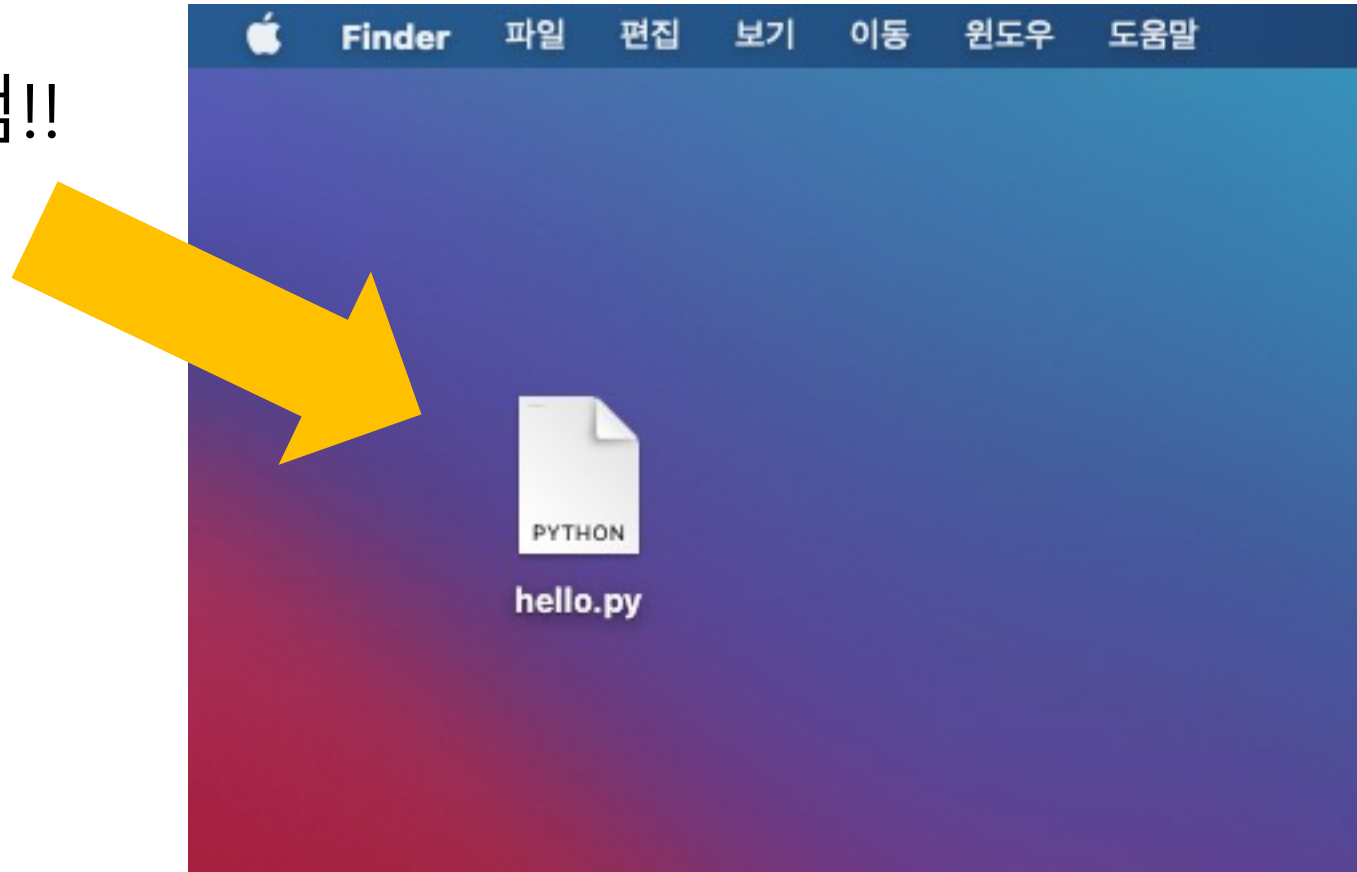
Below the editor, the TERMINAL panel is active, showing the command to run the script and the output:

```
> /usr/bin/env /usr/local/bin/python /Users/swsww/.vscode/extensions/ms-python.python-2021.6.944021595/pythonFiles/lib/python/debugpy/launcher 51399 -- /Users/swsww/Desktop/hello.py  
Hello World!  
  
~/Desktop master* ↵  
>
```

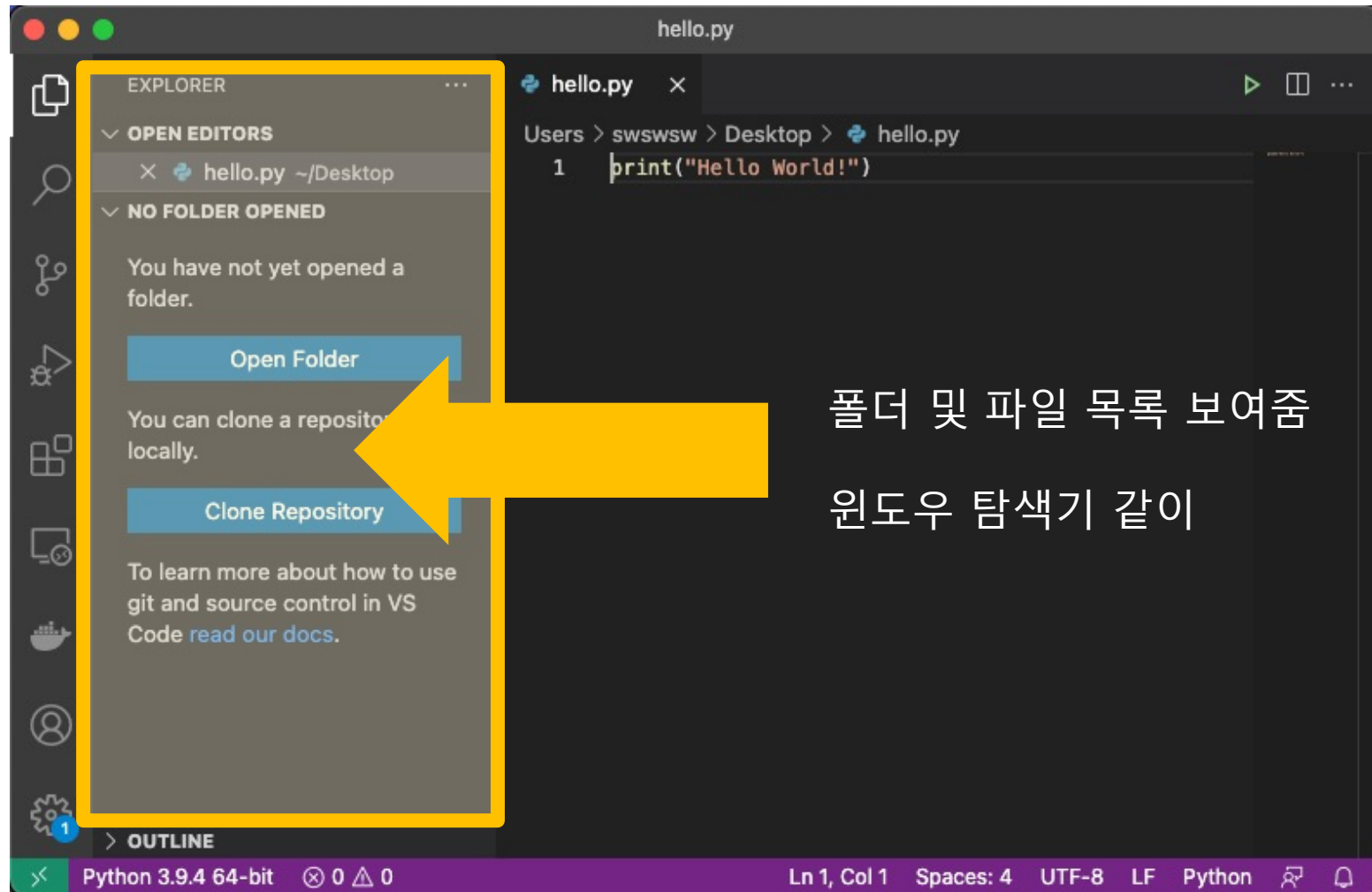
The status bar at the bottom indicates the Python 3.9.4 64-bit environment is active, with 0 errors and 0 warnings. The file encoding is UTF-8 and the line ending is LF.

Hello World!

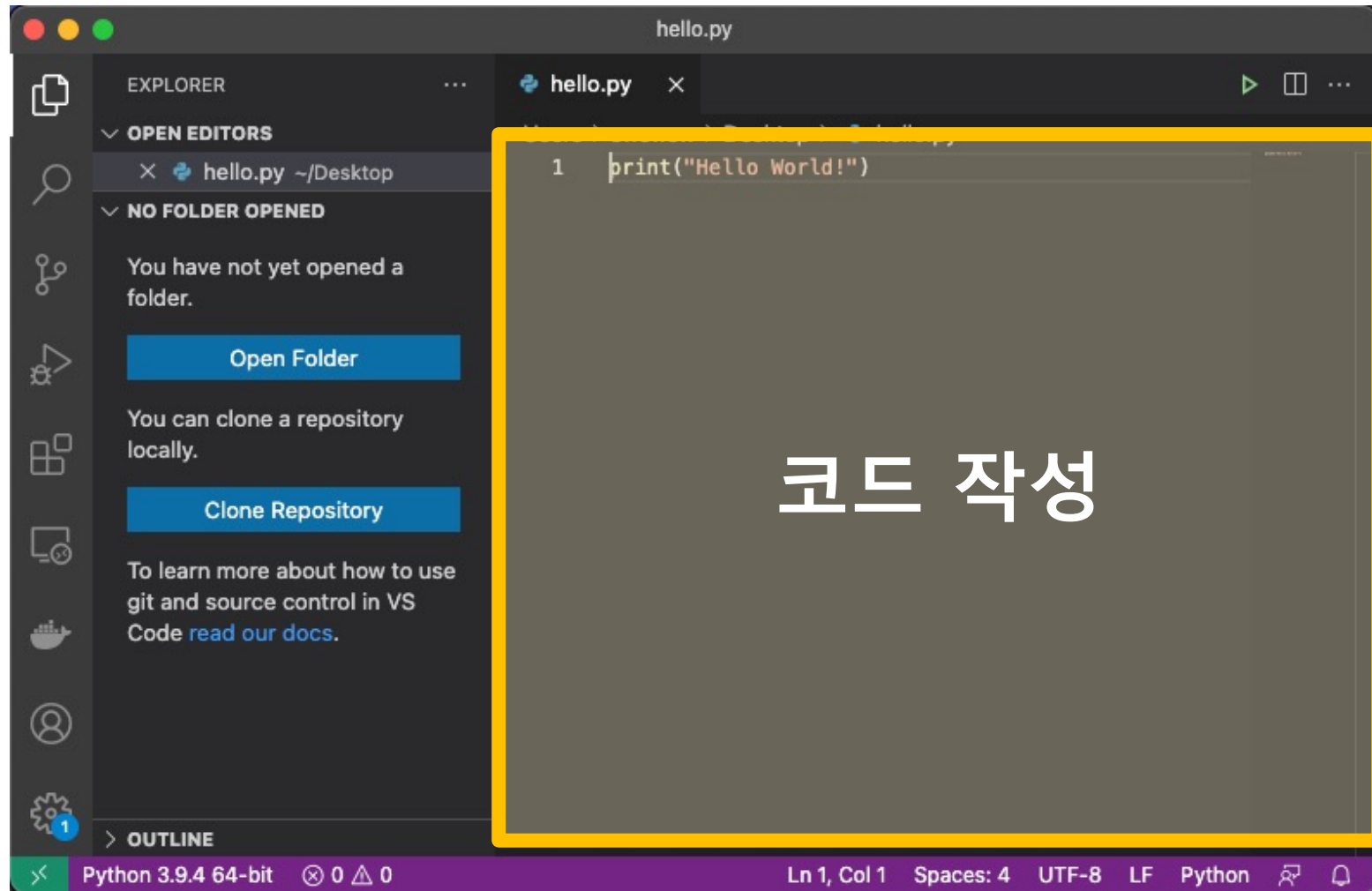
첫 번째 프로그램!!



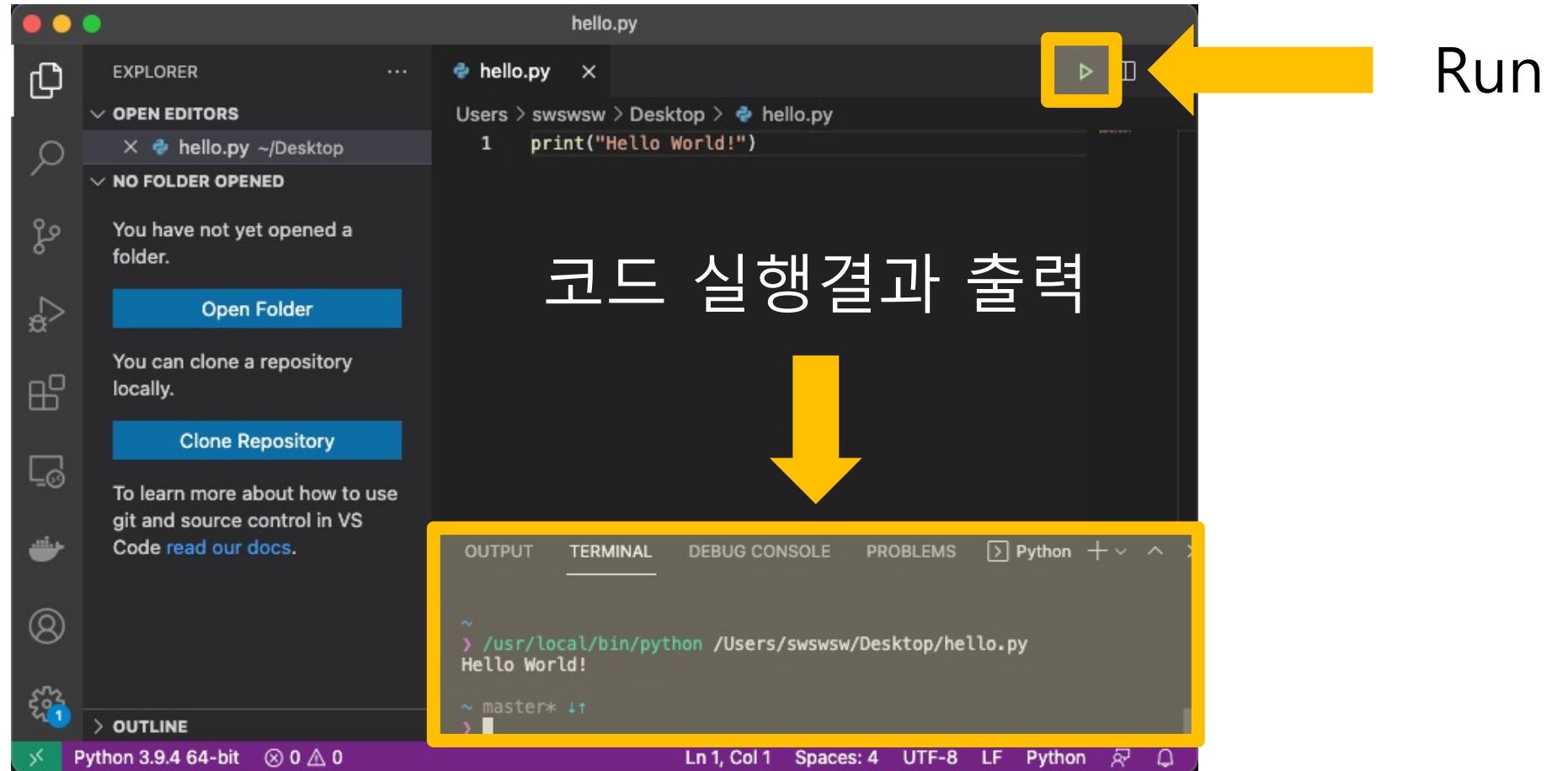
Visual Studio Code (VS Code)



Visual Studio Code (VS Code)



Visual Studio Code (VS Code)



목차

- 왜 배우려 하는가?
- 목표정하기
- 계획
- 프로젝트
- 프로그래밍?
- 파이썬?
- IDE 설치
- 파이썬 설치