



# 파이썬 프로그래밍 및 실습

문철우 교수

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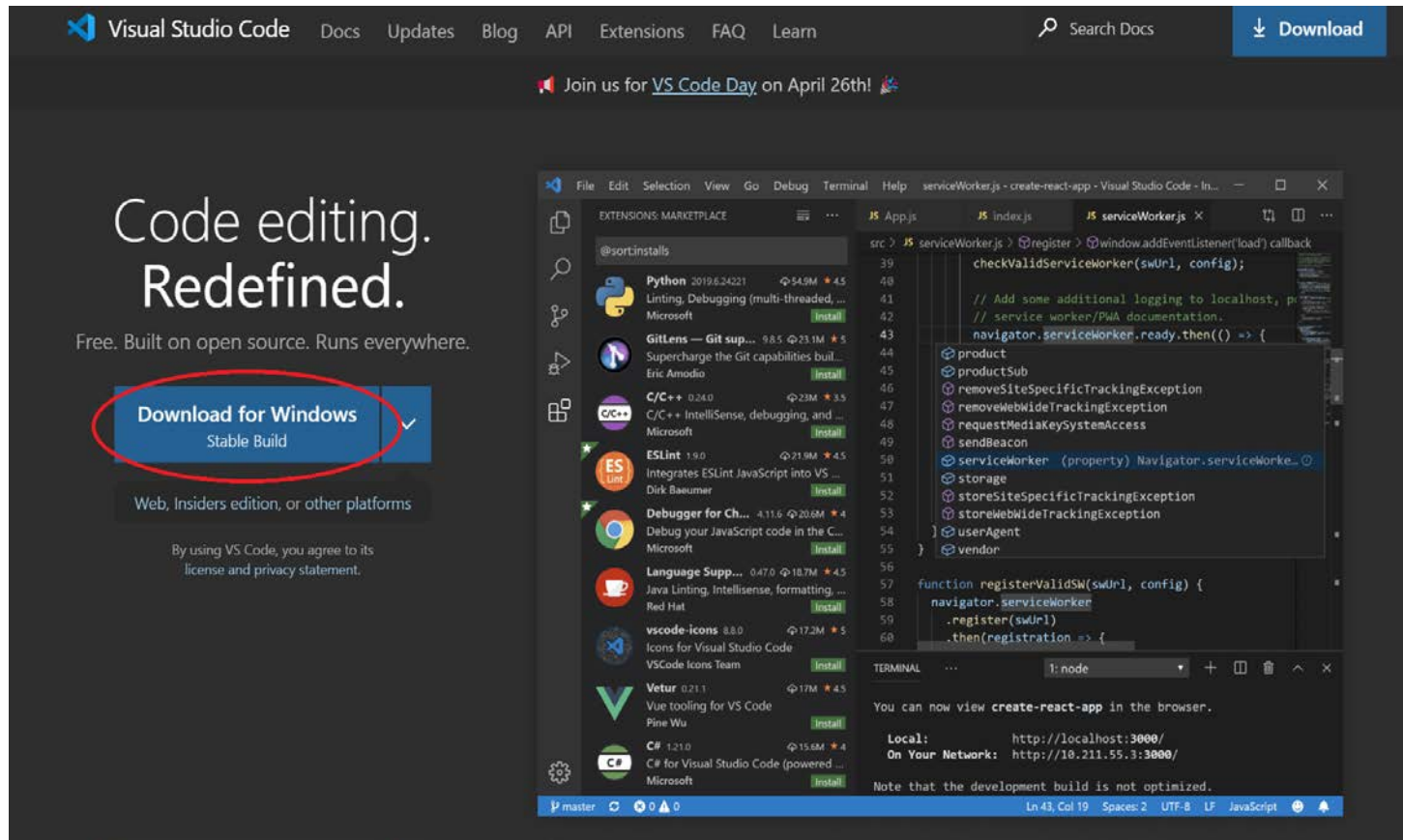
김부성 석사과정 ([kingbs0549@jnu.ac.kr](mailto:kingbs0549@jnu.ac.kr))

전남대학교 지능형모빌리티융합학과



# Visual Studio Code

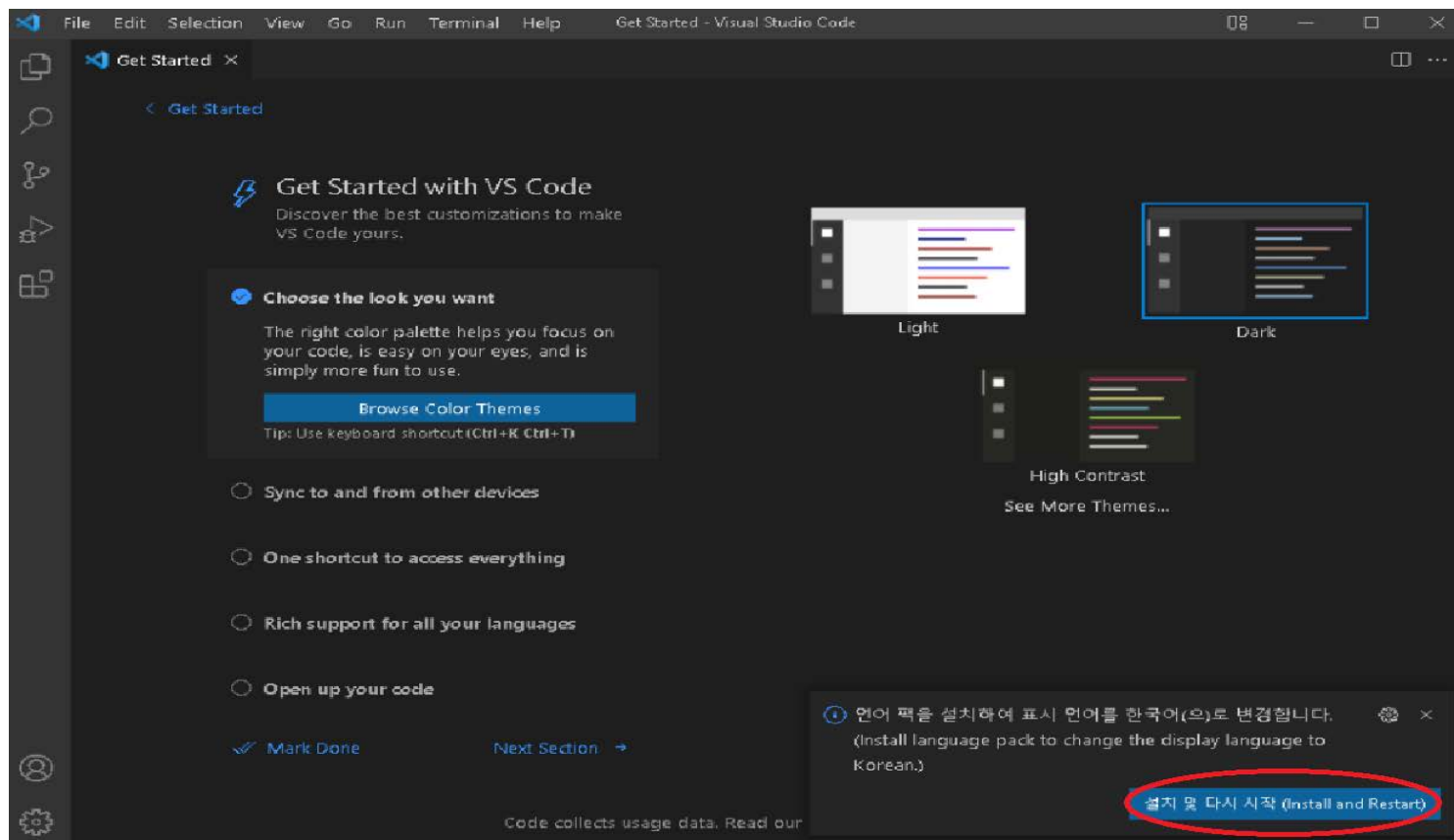
- Python 개발 도구 중 하나인 **Visual Studio Code** 설치
- <https://code.visualstudio.com/> 링크 클릭, Download





# Visual Studio Code

- Visual Studio Code 실행 후 한국어로 언어 변경
- 첫 실행 시 자동으로 뜨는 팝업창





# Visual Studio Code

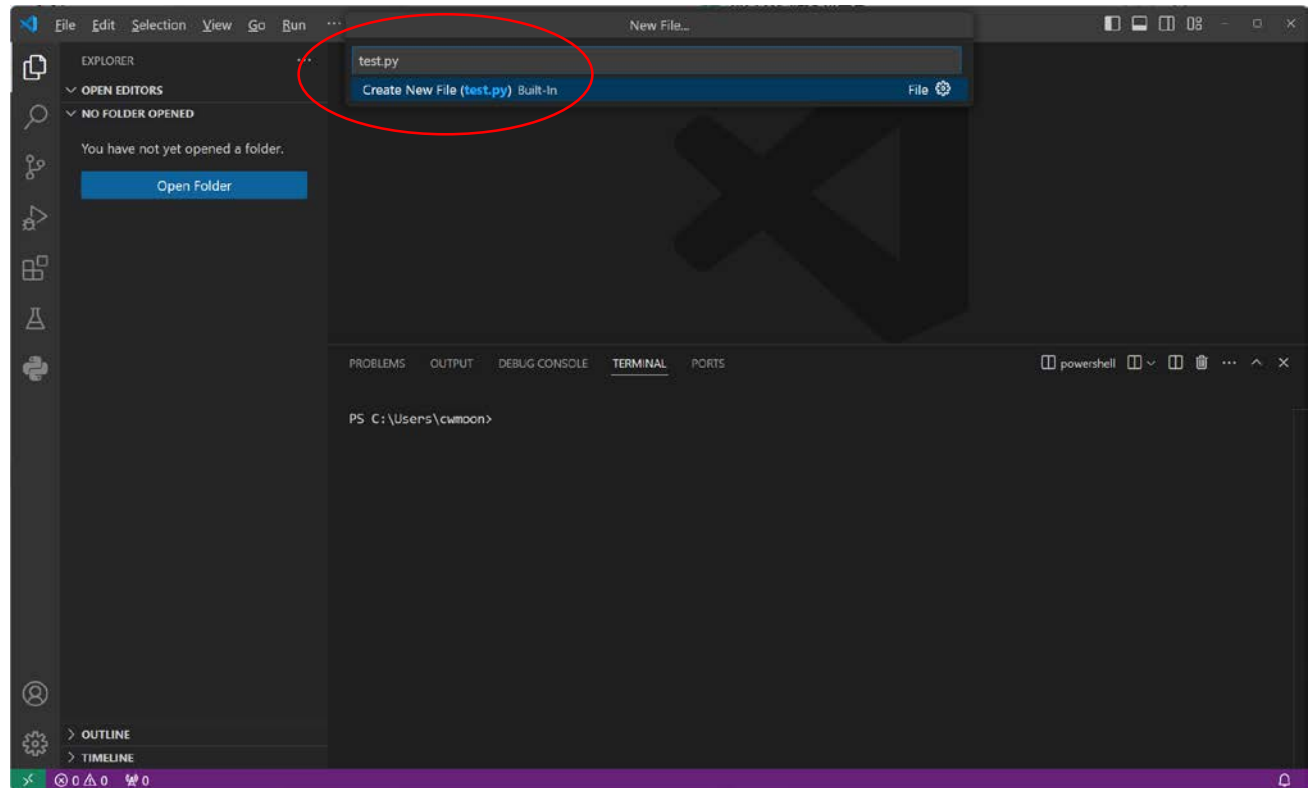
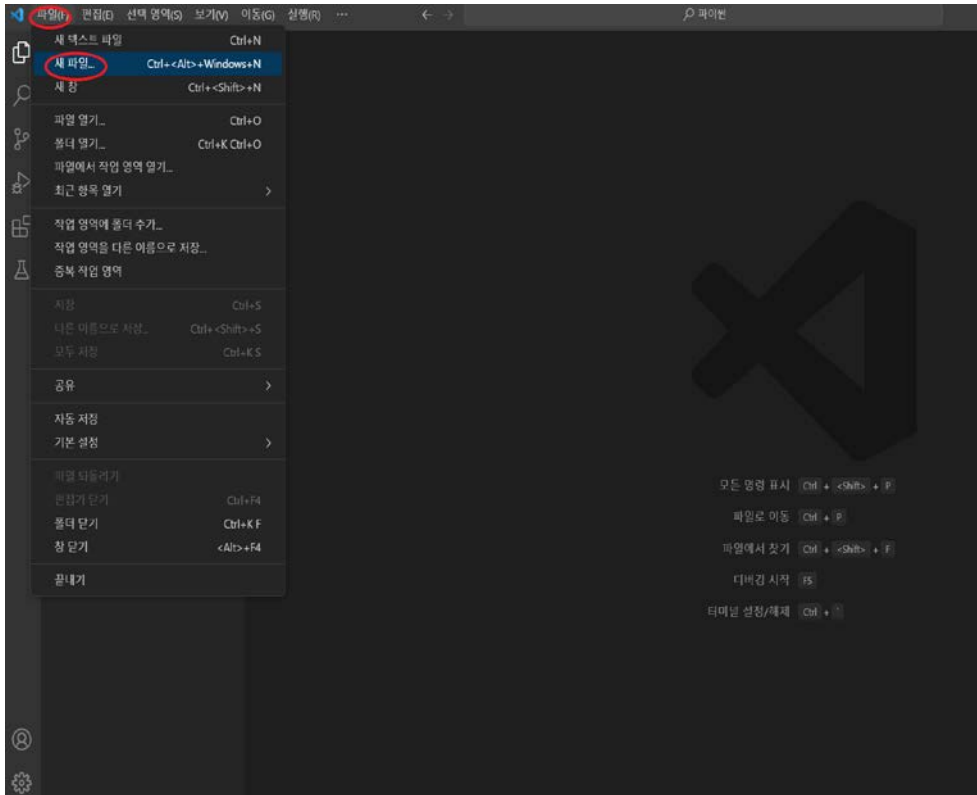
- 확장프로그램 **Python** 설치



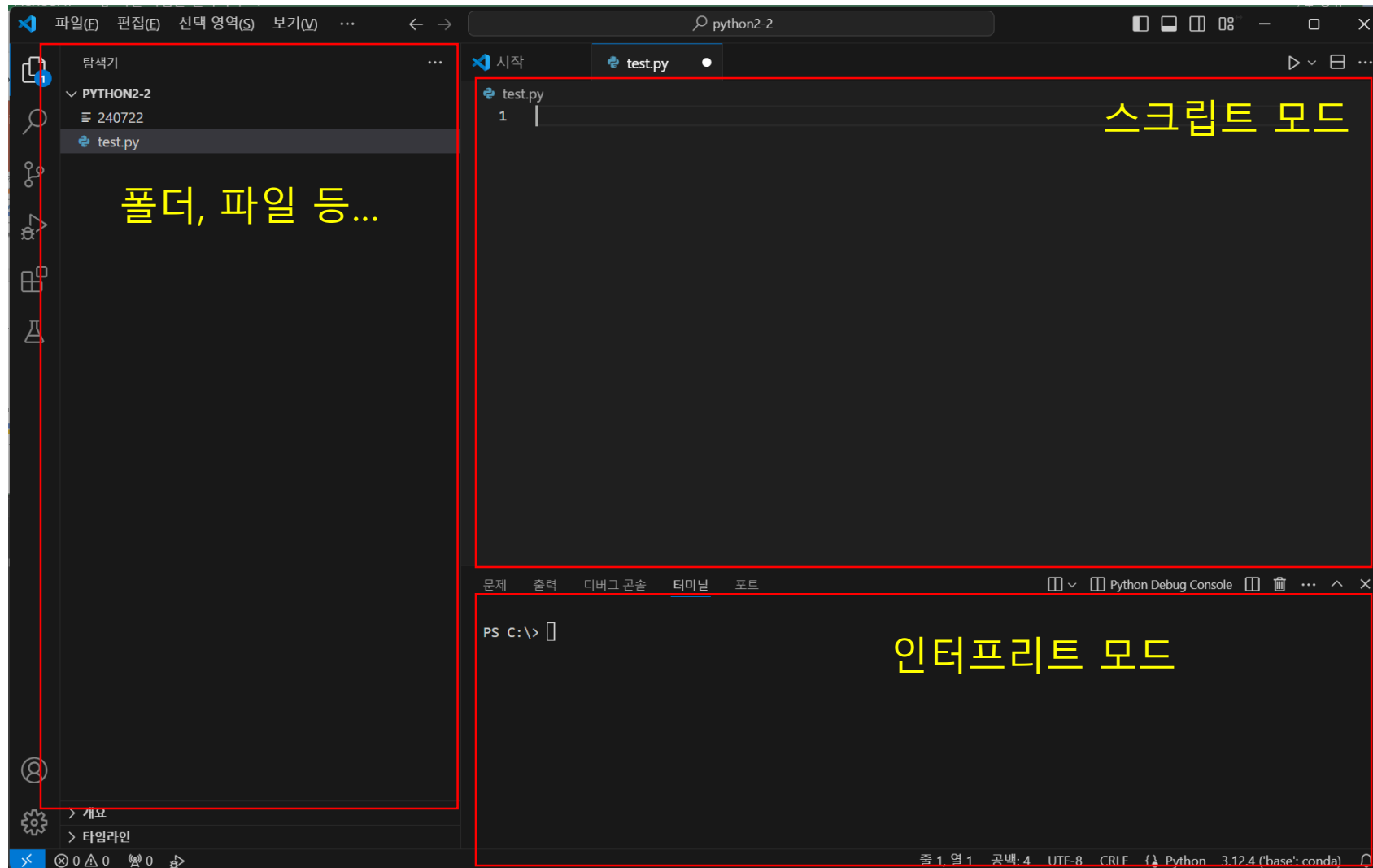


# Visual Studio Code

- **파일 이름.py** 을 통한 Python 코드 작성 파일 생성



# Visual Studio Code



# Visual Studio Code



- Interpreter mode

```
문제  출력  디버그 콘솔  터미널  포트  + v Python Debug Console  [icon] [icon] ... ^ X

PS C:\> print("Hello World")
PRN 장치를 초기화할 수 없습니다.
PS C:\>
PS C:\> python
Python 3.12.4 | packaged by Anaconda, Inc. | (main, Jun 18 2024, 15:03:56) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>>
>>> print("Hello World")
Hello World
>>>
>>> ^Z

PS C:\> █
```



# Visual Studio Code

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- Interpreter mode

```
PS C:\> python
Python 3.12.4 | packaged by Anaconda, Inc. | (main, Jun 18 2024, 15:03:56) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>>
>>>
>>> 3.14*10*10
314.0
>>> 3.14*10**2
314.0
>>> 3.14*10**3
3140.0
>>> 3.14*10e3
31400.0
>>> █
```





# Visual Studio Code

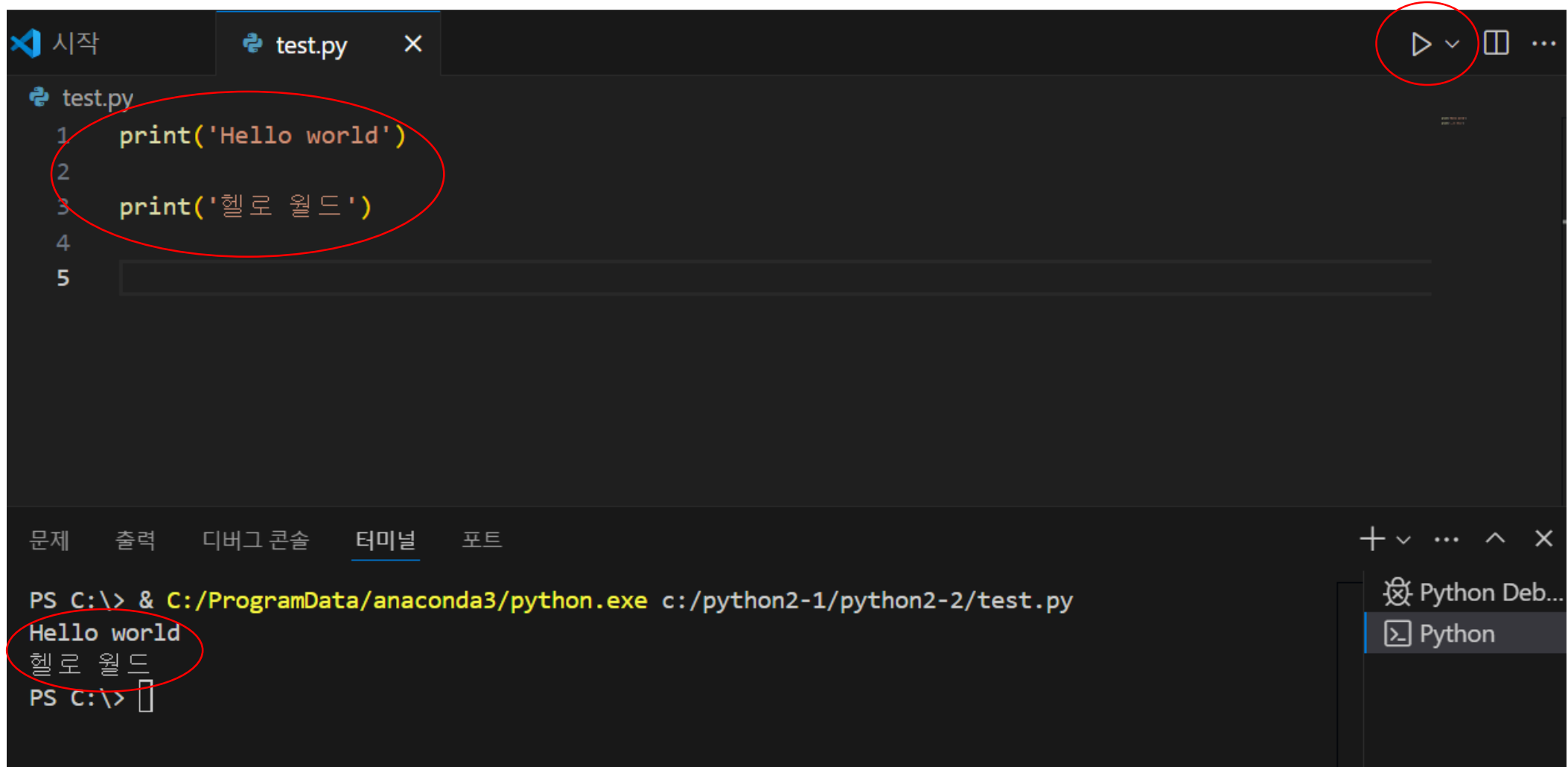
- Interpreter mode

```
PS C:\> python
Python 3.12.4 | packaged by Anaconda, Inc. | (main, Jun 18 2024, 15:03:56) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>>
>>>
>>> 3.14*10*10          10**2 = 10^2
314.0
>>> 3.14*10**2          10**3 = 10^3
314.0
>>> 3.14*10**3          10e3=10^3 (in general)
3140.0
>>> 3.14*10e3           10e3=10*10^3=10^4 (in python)
31400.0
>>> █
```

# Visual Studio Code



## ▪ Script mode



The screenshot shows the Visual Studio Code interface in Script mode. The top toolbar has a play button (run) circled in red. The editor window shows a file named `test.py` with the following code:

```
1 print('Hello world')
2
3 print('헬로 월드')
4
5
```

The first two lines of code are circled in red. The bottom panel shows the terminal output:

```
PS C:\> & C:/ProgramData/anaconda3/python.exe c:/python2-1/python2-2/test.py
Hello world
헬로 월드
PS C:\>
```

The first two lines of the terminal output are circled in red. The right sidebar shows the 'Python' tab selected.



# Visual Studio Code

- Script mode (주석달기)

The screenshot shows the Visual Studio Code interface. At the top, the file explorer shows 'test.py'. The editor window displays the following code:

```
1 print('Hello world')
2
3 #주석달기
4
5 # print('헬로 월드')
6
7
```

Annotations in the image include a red circle around the play button in the top right corner of the editor, and a red circle around the comment toggle icon (a pair of scissors) in the bottom right corner of the editor. A yellow text annotation '# Ctr + /' is placed next to line 4.

At the bottom, the terminal window shows the command prompt with the following text:

```
PS C:\> & C:/ProgramData/anaconda3/python.exe c:/python2-1/python2-2/test.py
Hello world
PS C:\>
```

The terminal output 'Hello world' is circled in red. On the right side of the terminal, a dropdown menu is open, showing 'Python Deb...' and 'Python'.