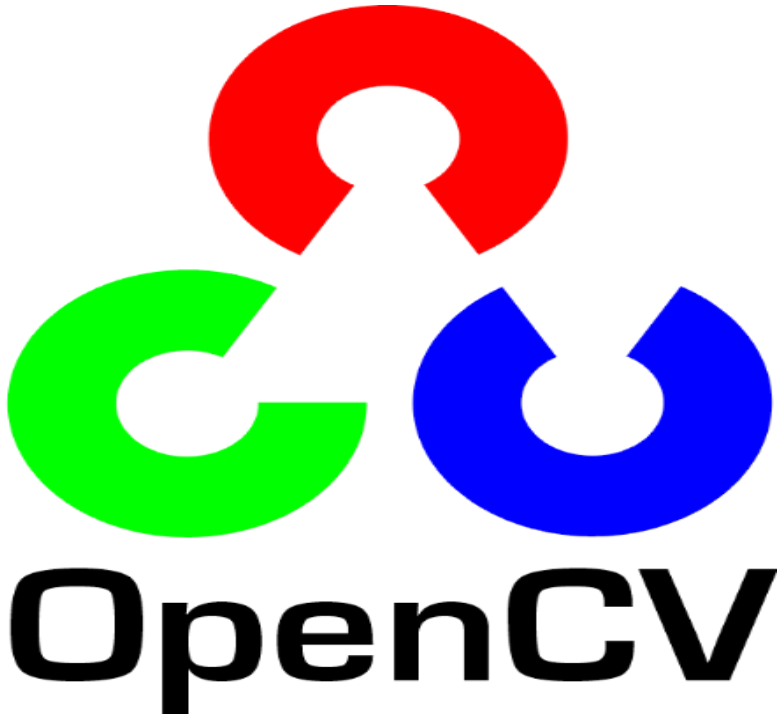
Computer Vision

Instruction of installation

Prof. Po-Yueh Chen (陳伯岳)
E-mail: pychen@cc.ncue.edu.tw
Ext: 8440

NCUE CSIE

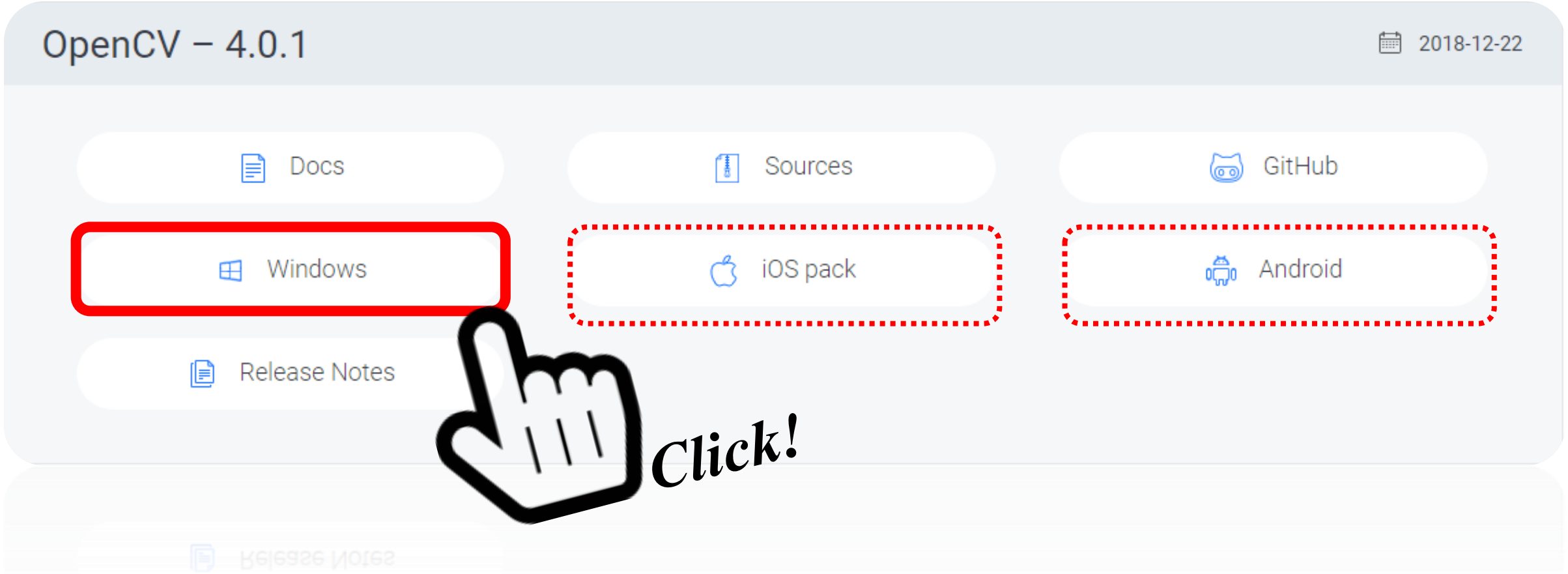
OpenCV



Website: https://opencv.org/releases/

Install OpenCV (1/10)

Website: https://opencv.org/ → **OpenCV 4.0.1**

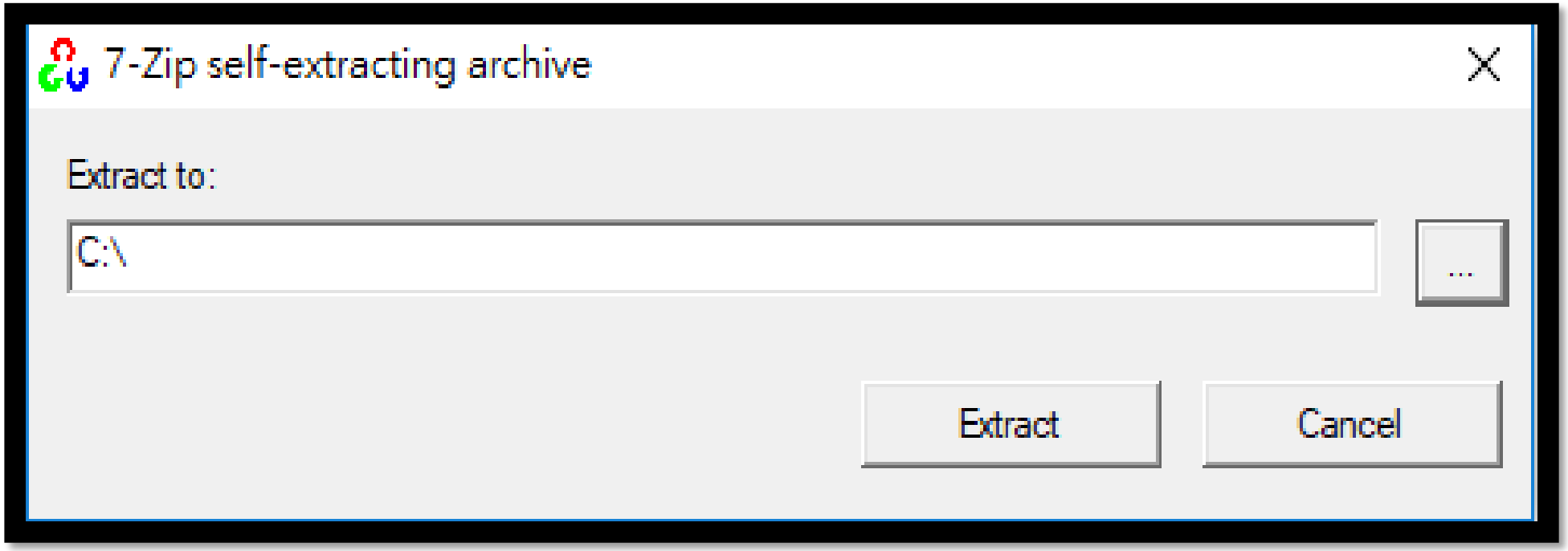


Install OpenCV (2/10)

➢ Windows 10

Install OpenCV (3/10)

Install in "C:\" root directory.

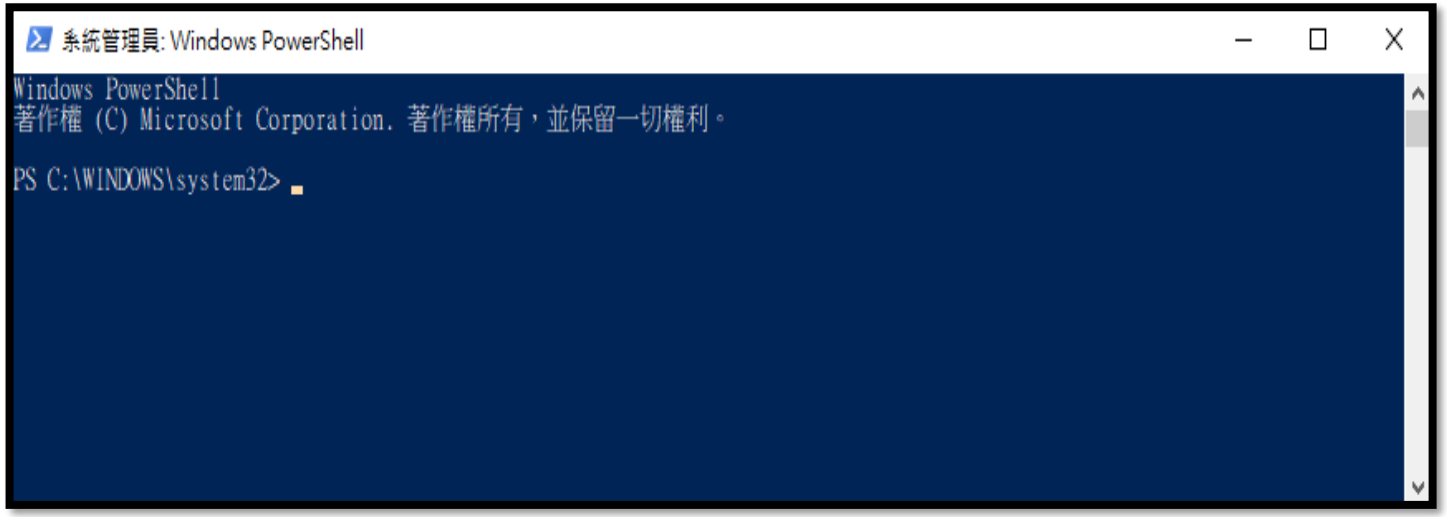


Install OpenCV (4/10)

- **Establish the environment variable.**

Step 1: Hot Key - "Window + X"

Step 2: Keyboard - "A"



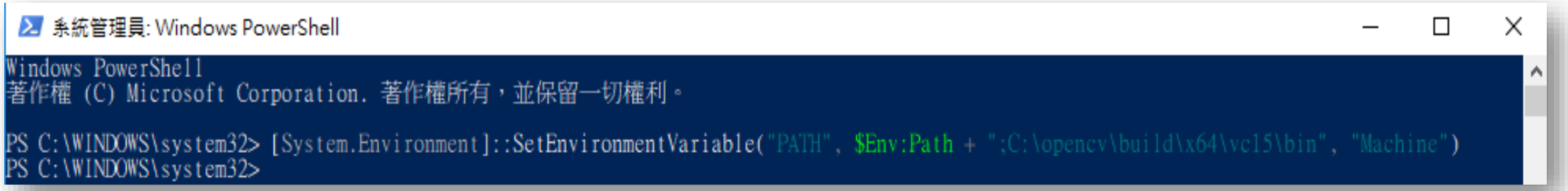
Step 2.

Install OpenCV (5/10)

Note: Visual Studio must be shutdown before you doing this step.

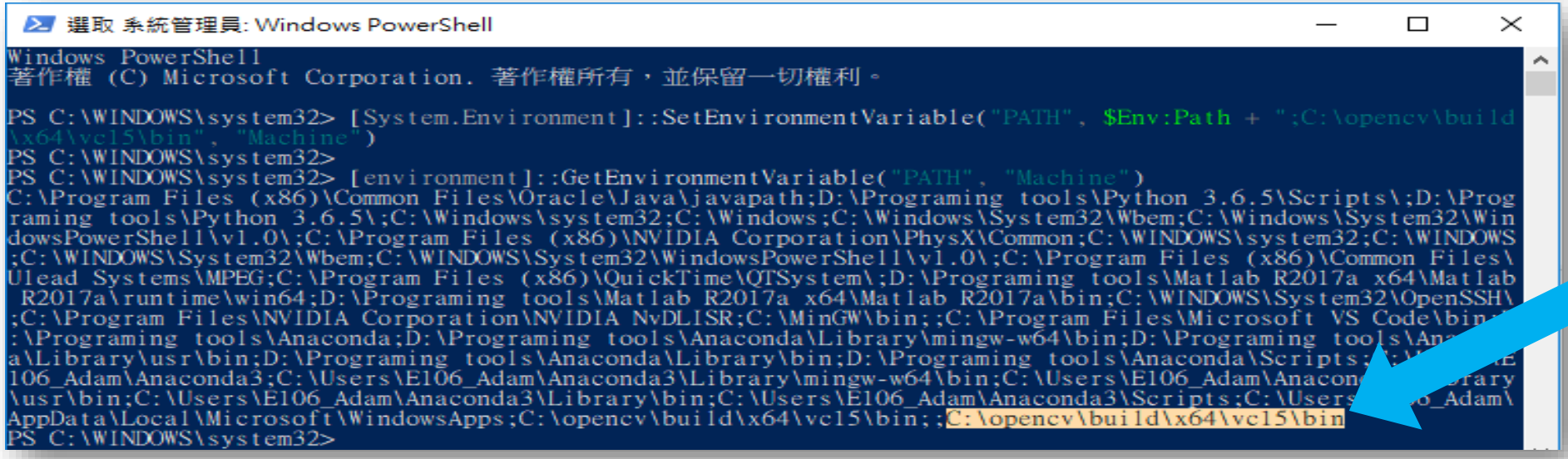
Step 3: Key in-

[System.Environment]::SetEnvironmentVariable("PATH", $Env:Path + ";C:\opencv\build\x64\vc15\bin", "Machine")



Step 4: Key in-

[environment]::GetEnvironmentVariable("PATH", "Machine")



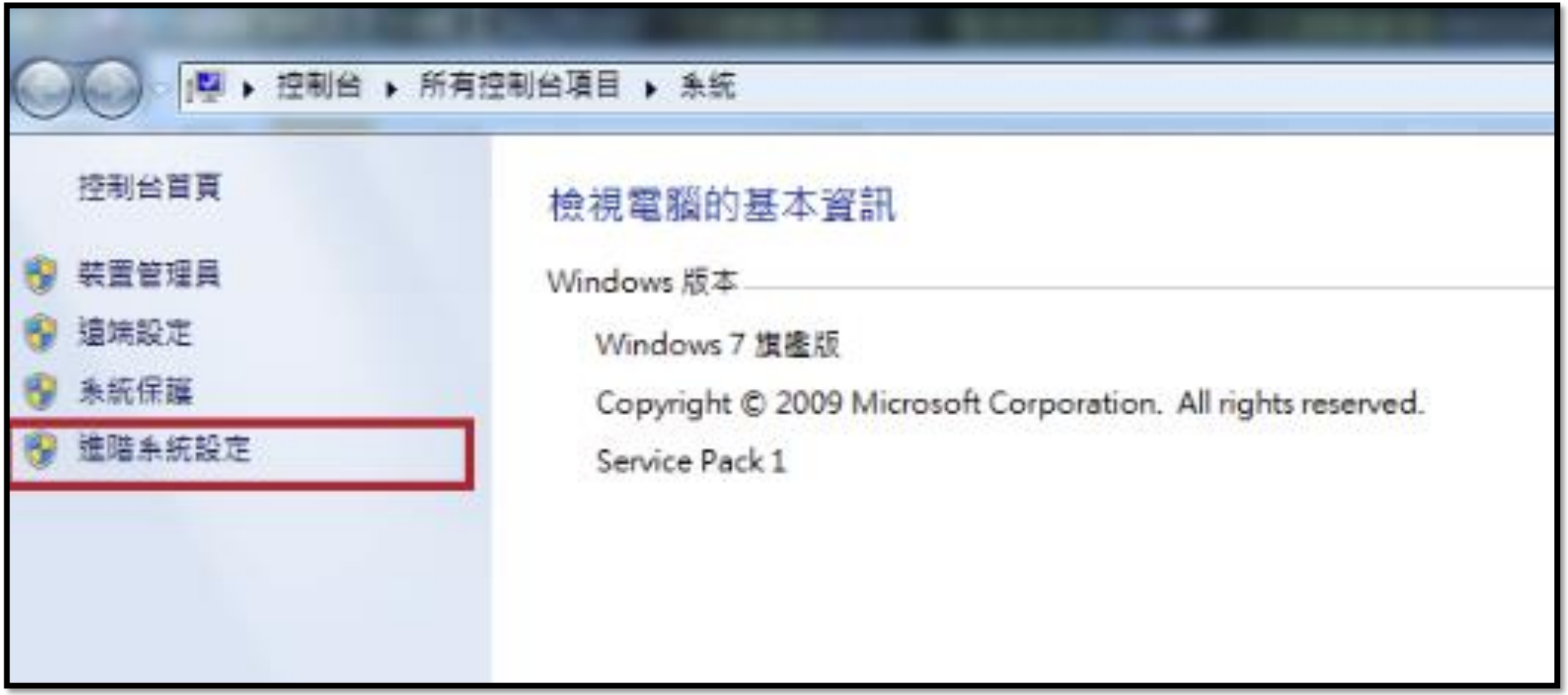
Check this!

Install OpenCV (6/10)

➢ Windows 7

Install OpenCV (7/10)

Step 1.



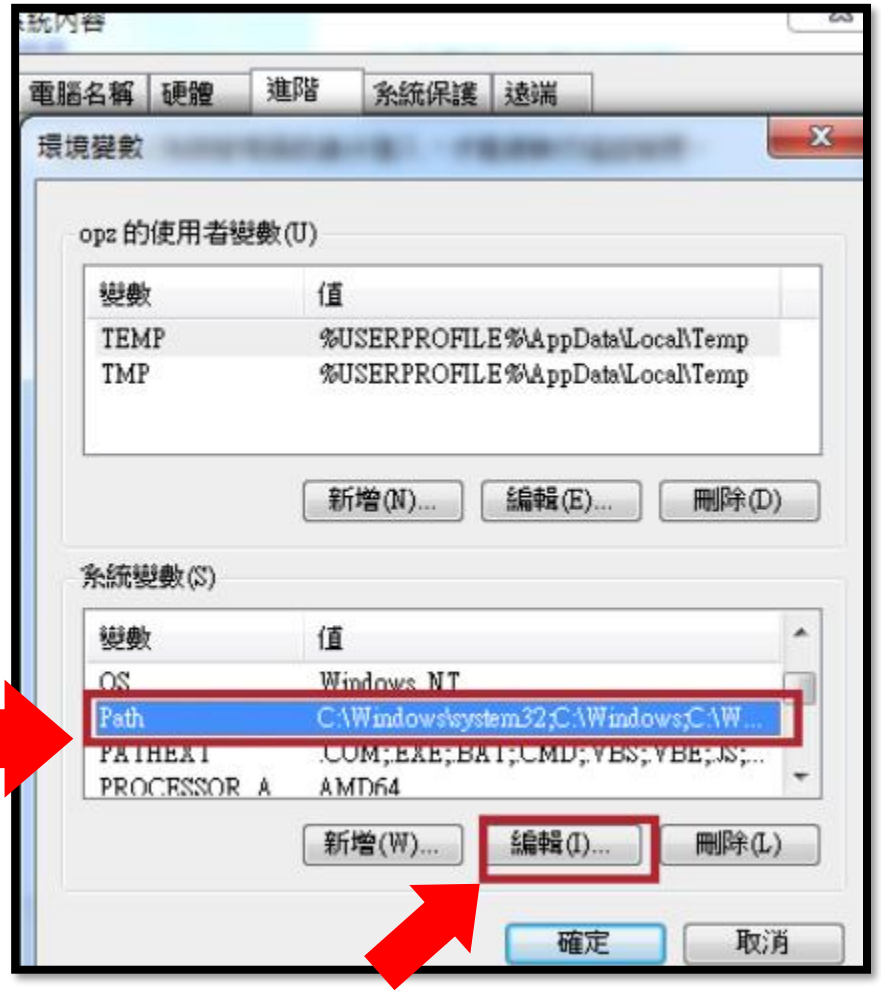
Install OpenCV (8/10)

Step 2.

Step 3.

Install OpenCV (9/10)

Step 4.



Step 5.

Install OpenCV (10/10)

Step 6.

Go to C:\opencv\build\x64\vc15\bin

Double Click and copy

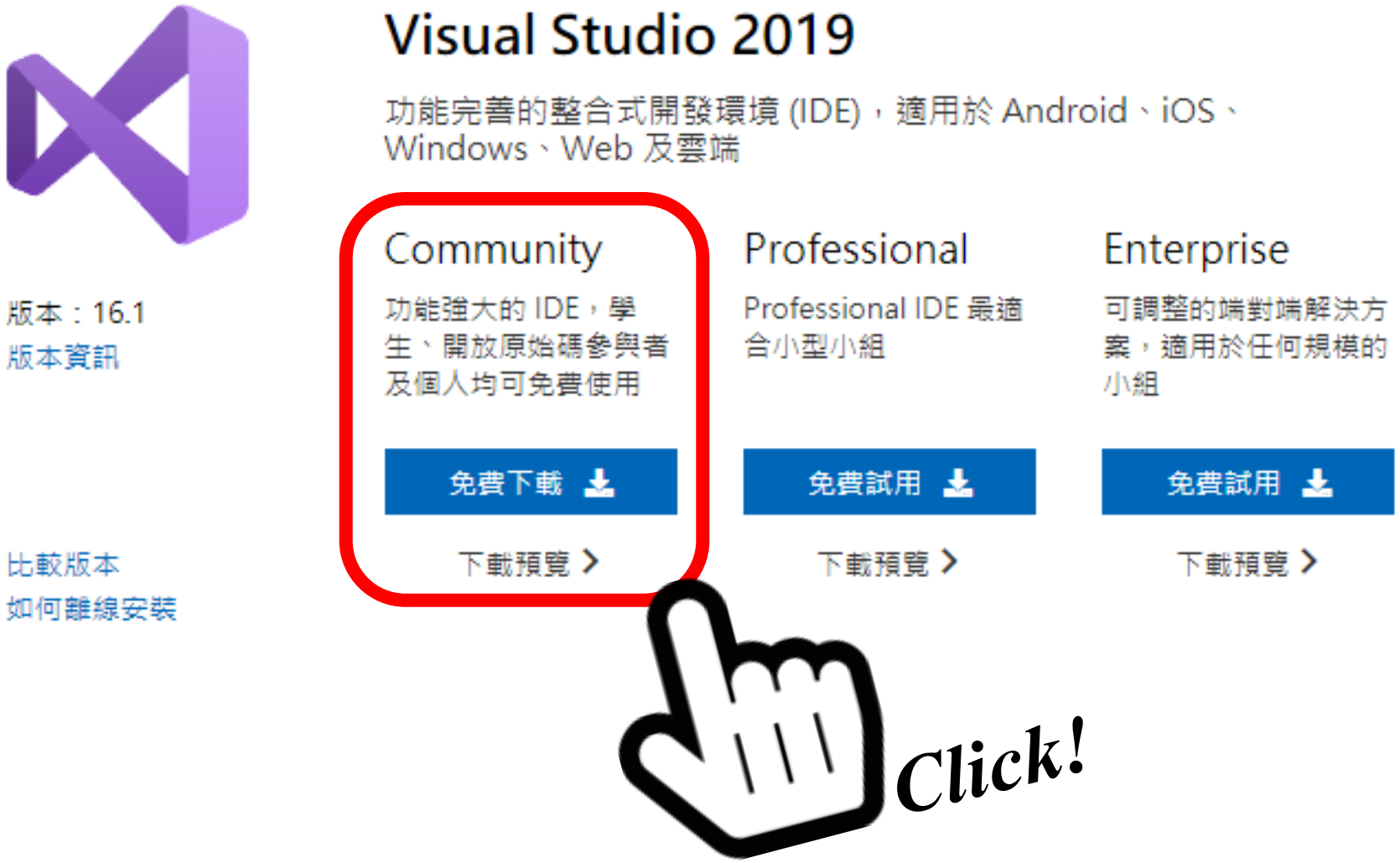
Step 8. Paste in the behind

Step 9. Confirm

***Note:* Step 8. " ; " is necessary in the end of path link.**

Website: https://visualstudio.microsoft.com/zh-hant/vs/

Install VS 2019 (1/2)



Install VS 2019 (2/2)

Create a project (1/2)

Step 1.

Create a project (2/2)

Attributes Manager (1/8)

- **Project environment variable set up.**

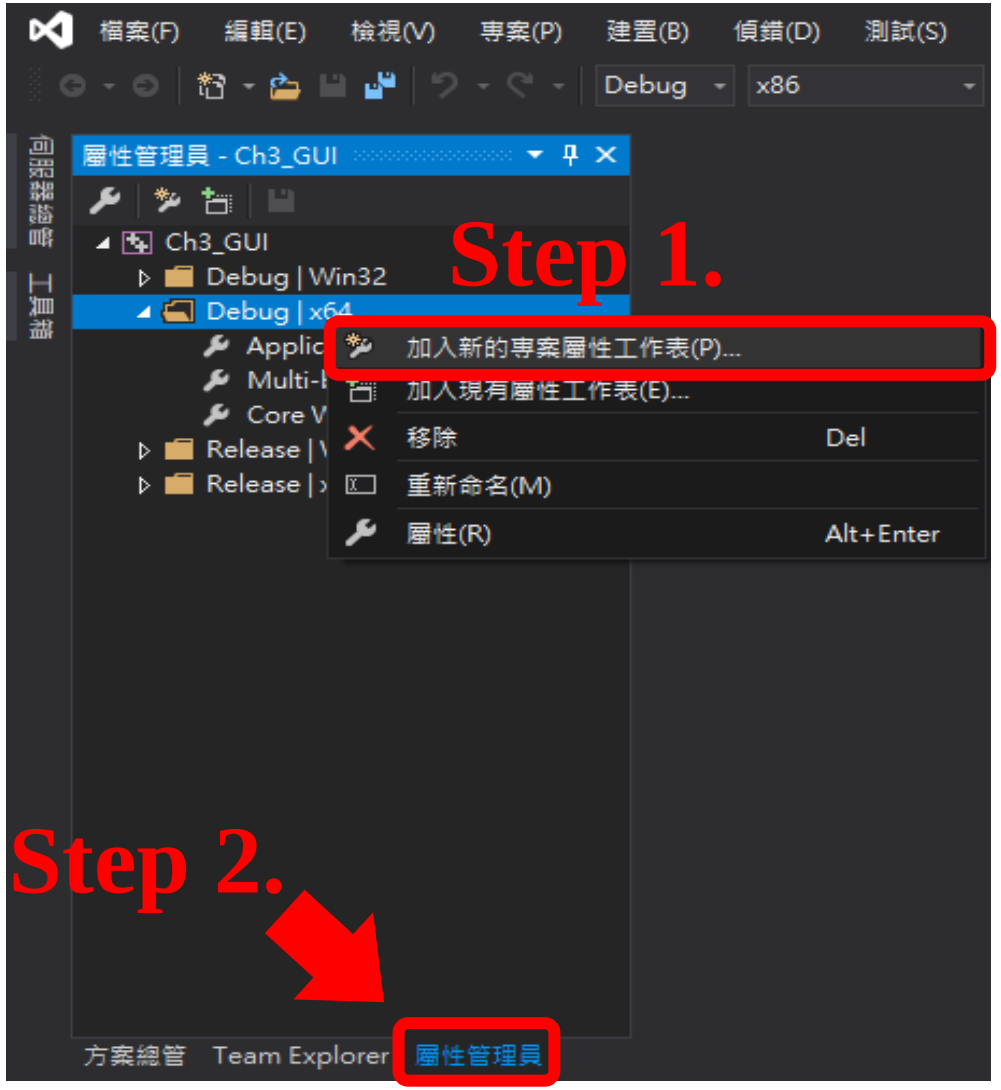
Attributes Manager (2/8)

Step 1:

Open the Attributes Manager.

Step 2:

Right-click and add new project attribute task.



Note:

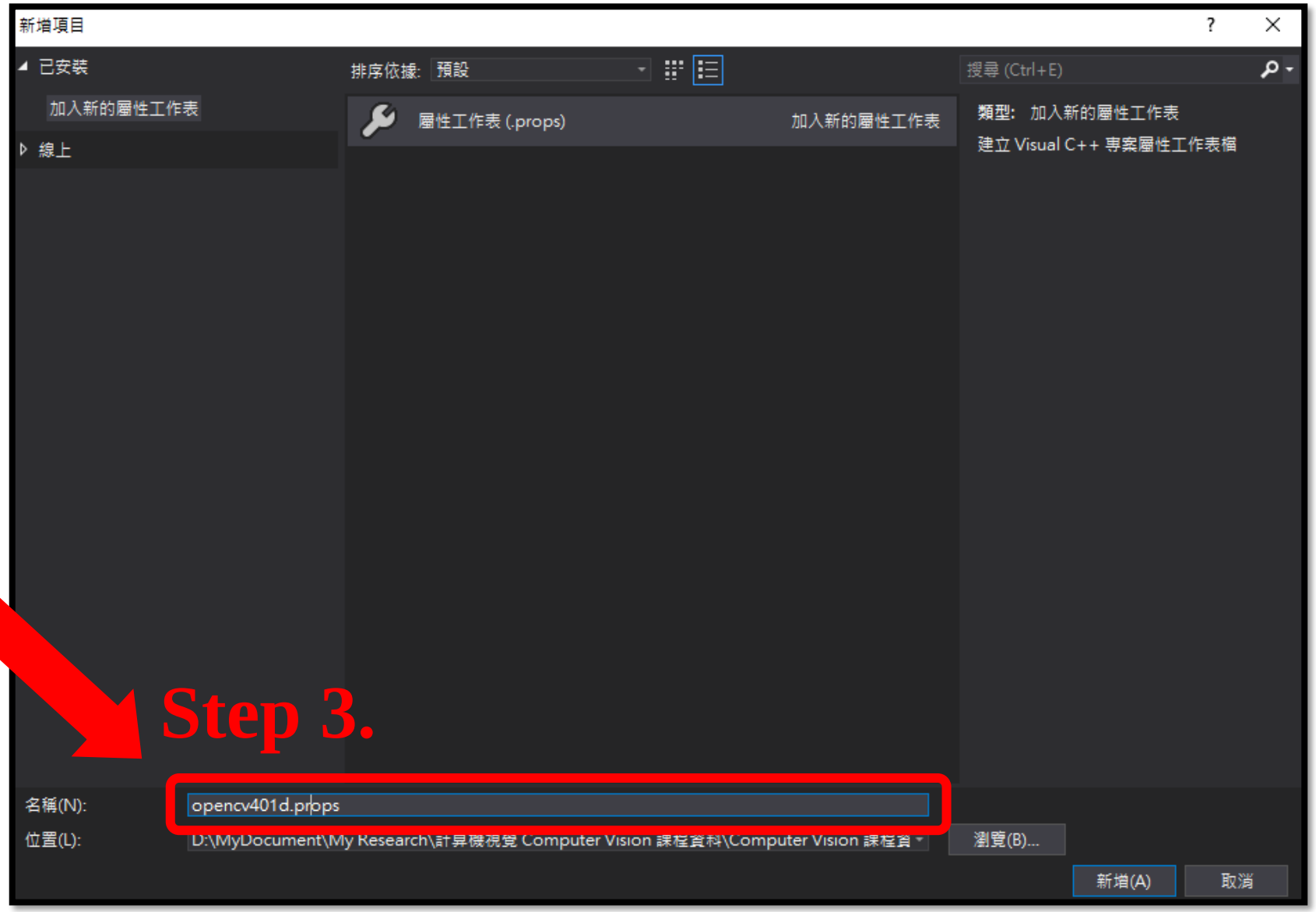
Search keyword "Manager", If the attributes manager doesn't show on the file table.

Attributes Manager (3/8)

Step 3:

Give the name

✓ **opencv401d.props**



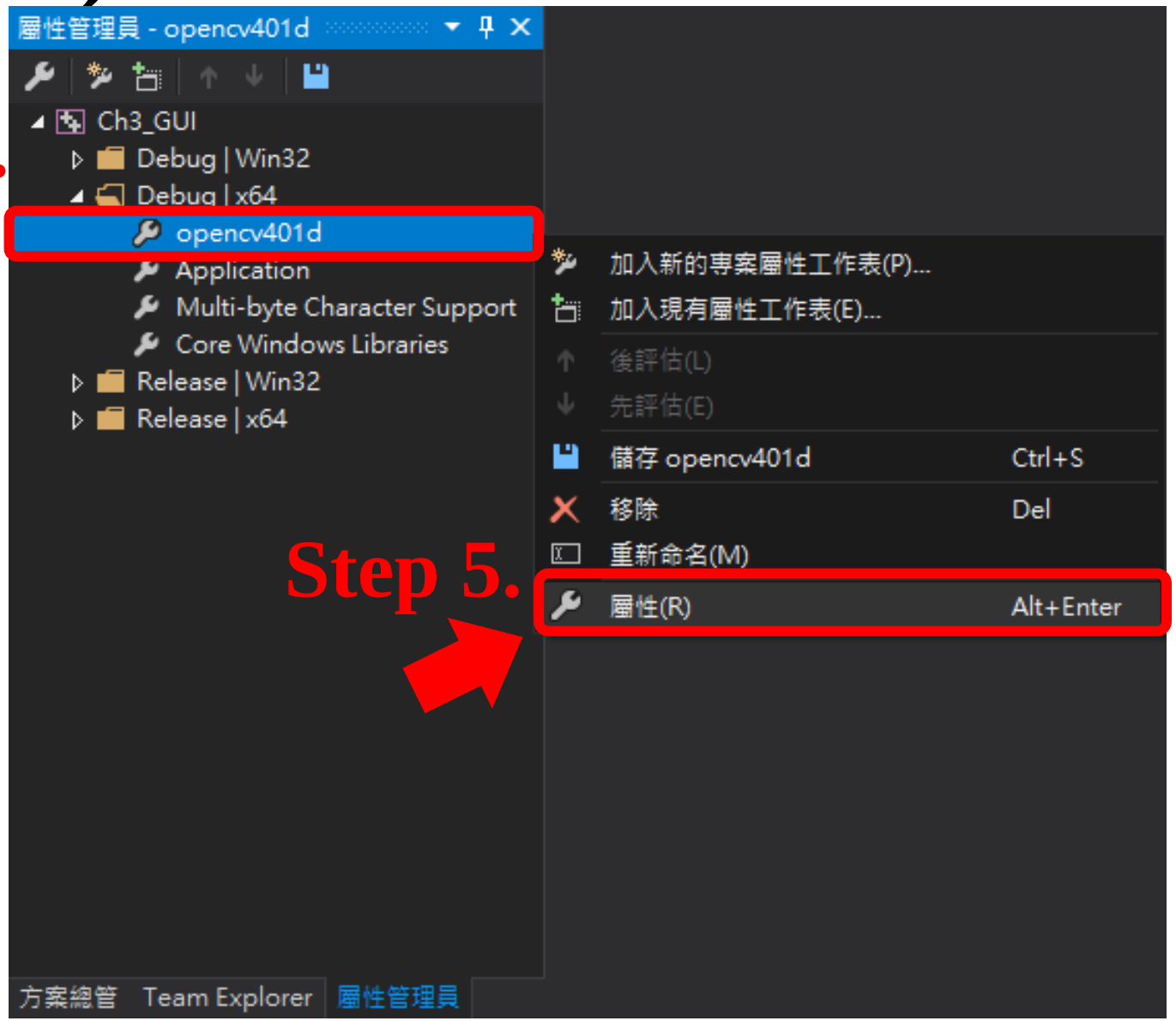
Attributes Manager (4/8)

Step 4:

Right-click **opencv401d.props**

Step 5:

Select attribute.



Attributes Manager (5/8)

Step 6:

✓ C/C++

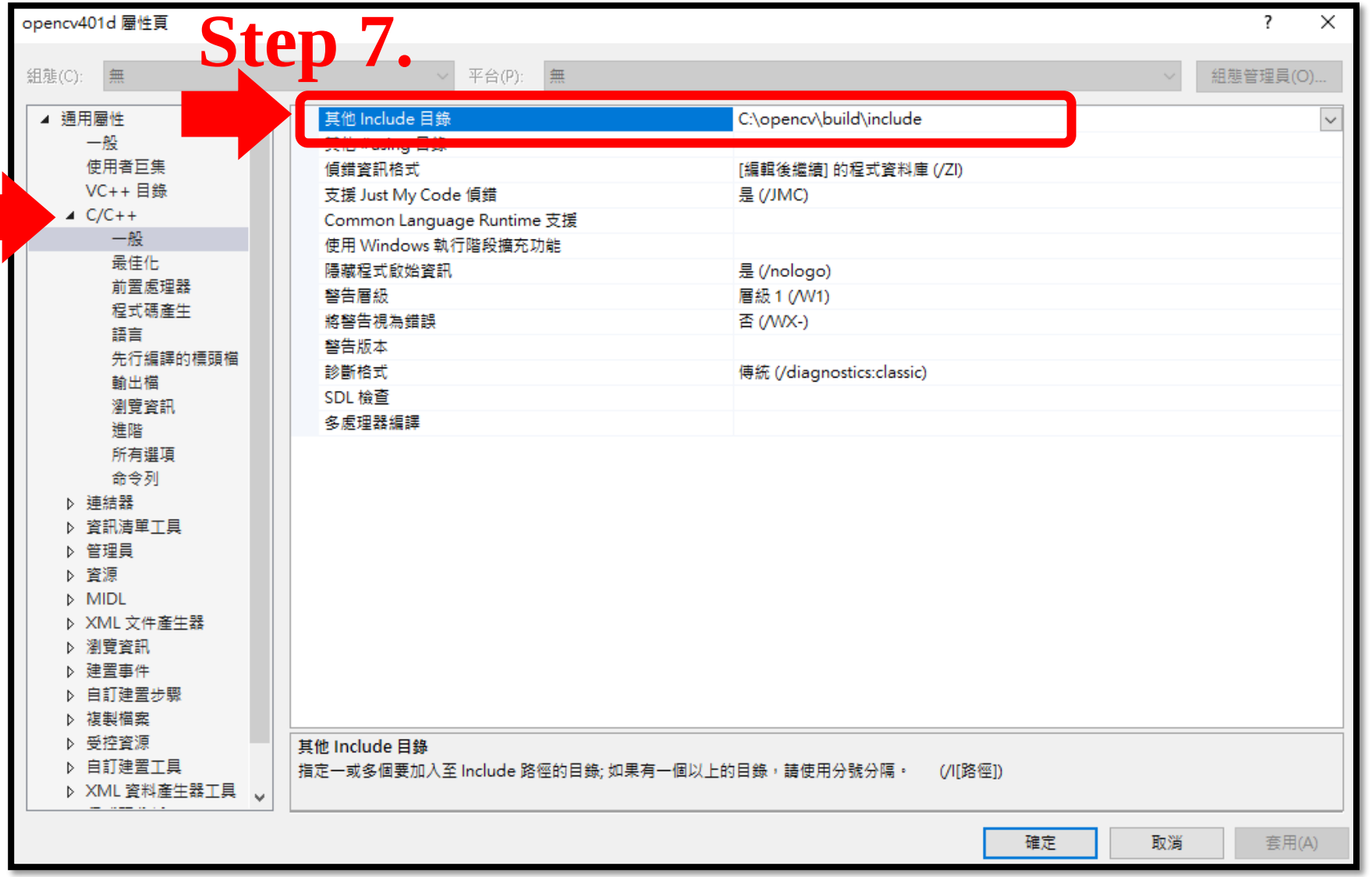
↓

✓ Normal

Step 7:

Add path

C:\opencv\build\include



Attributes Manager (6/8)

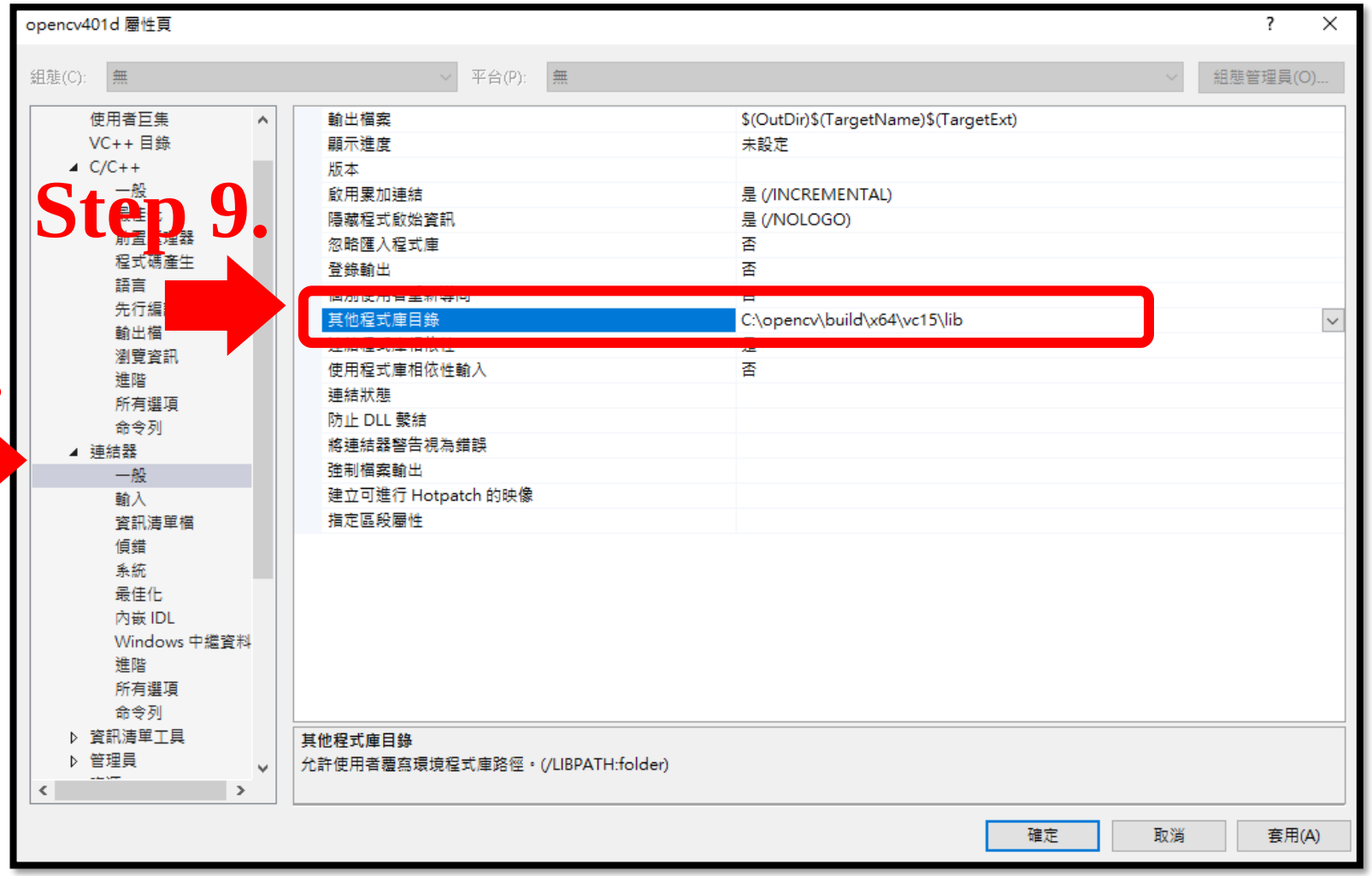
Step 8:

- ✓ Connector
  ↓
- ✓ Normal

Step 9:

Add path

C:\opencv\build\x64\vc15\lib



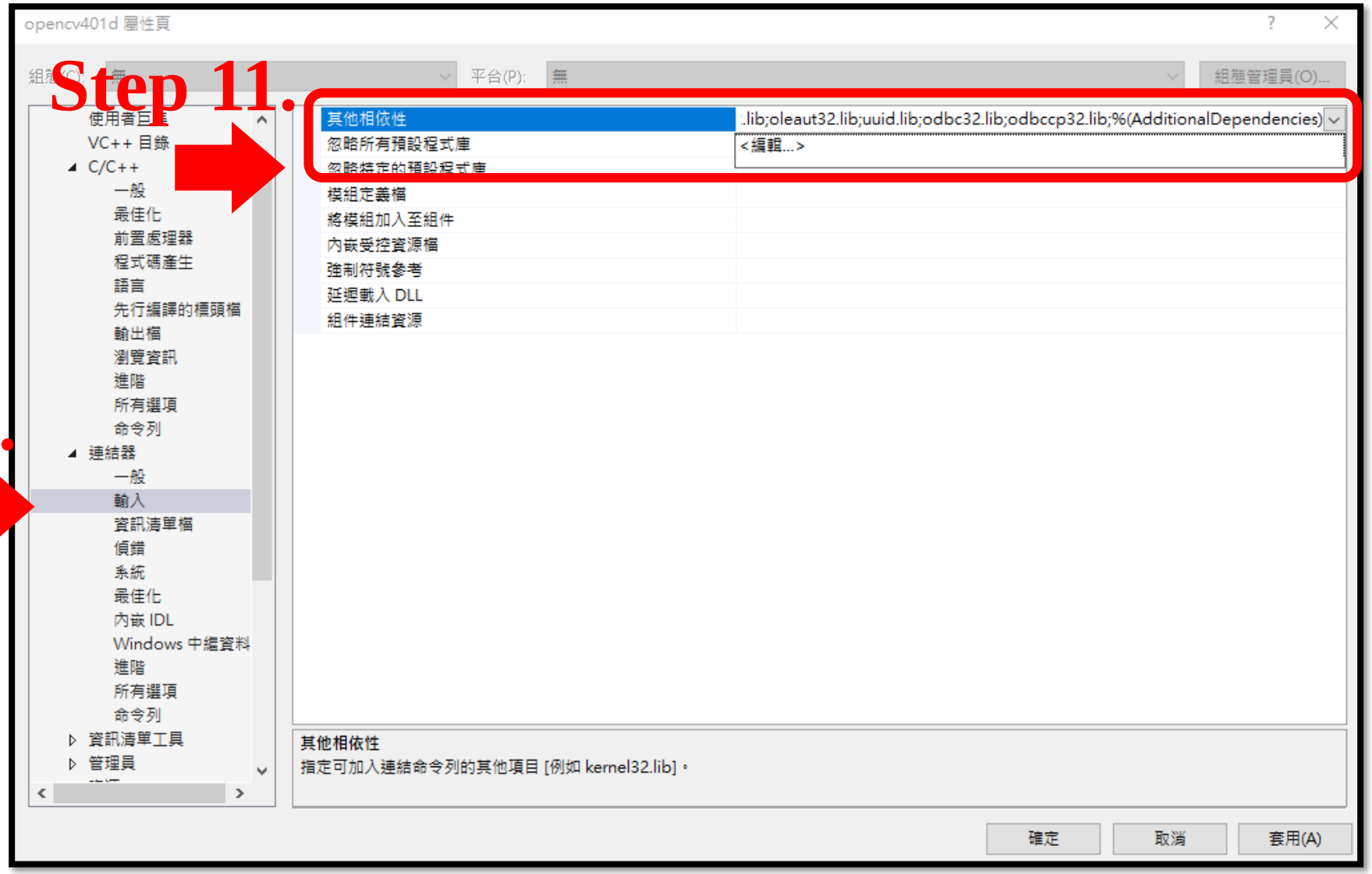
Attributes Manager (7/8)

Step 10:

Select Input

Step 11:

Click "edit..." once.



Attributes Manager (8/8)

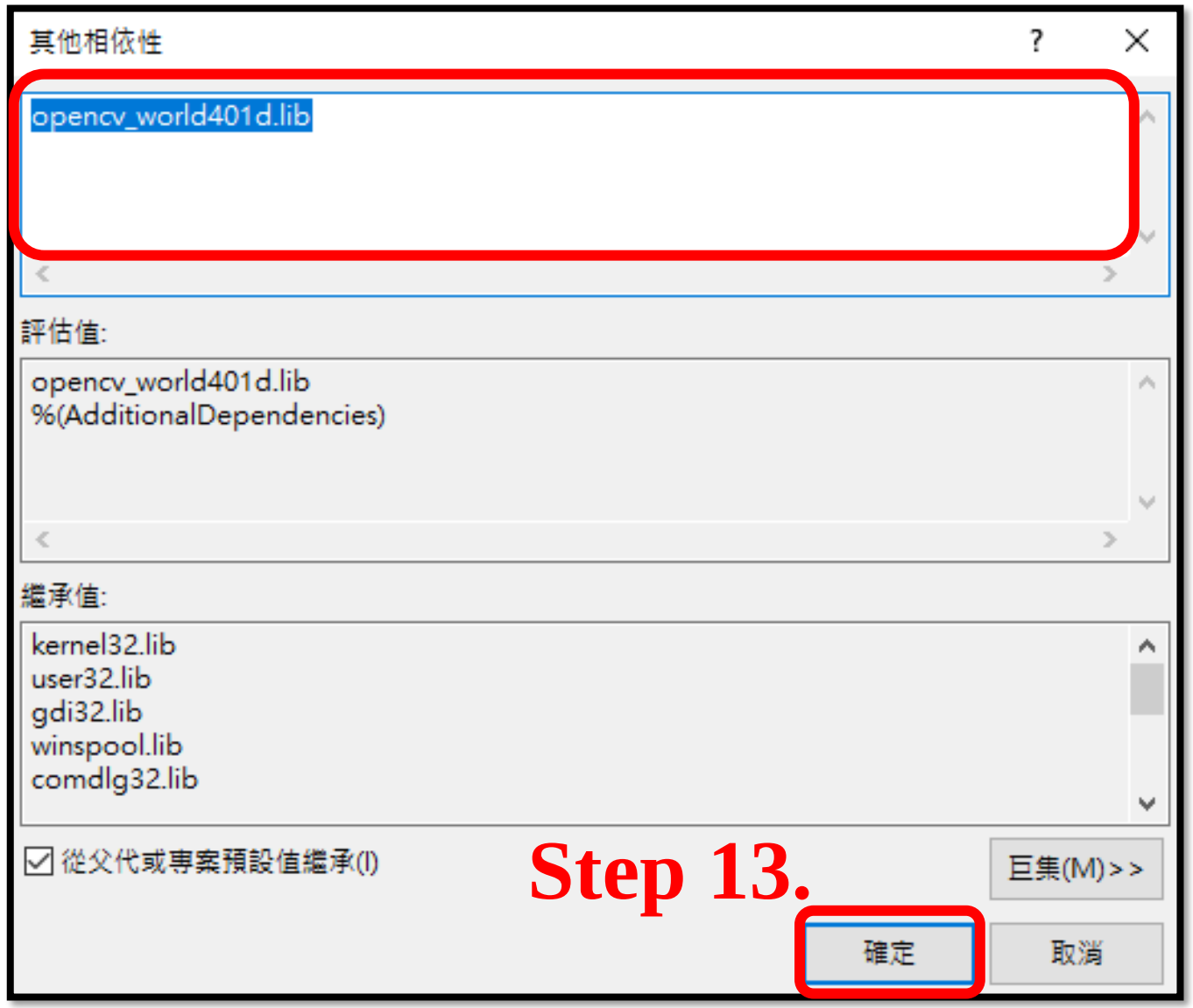
Step 12:

And add

- ✓ **opencv_world401d.lib**

Step 13:

Confirm

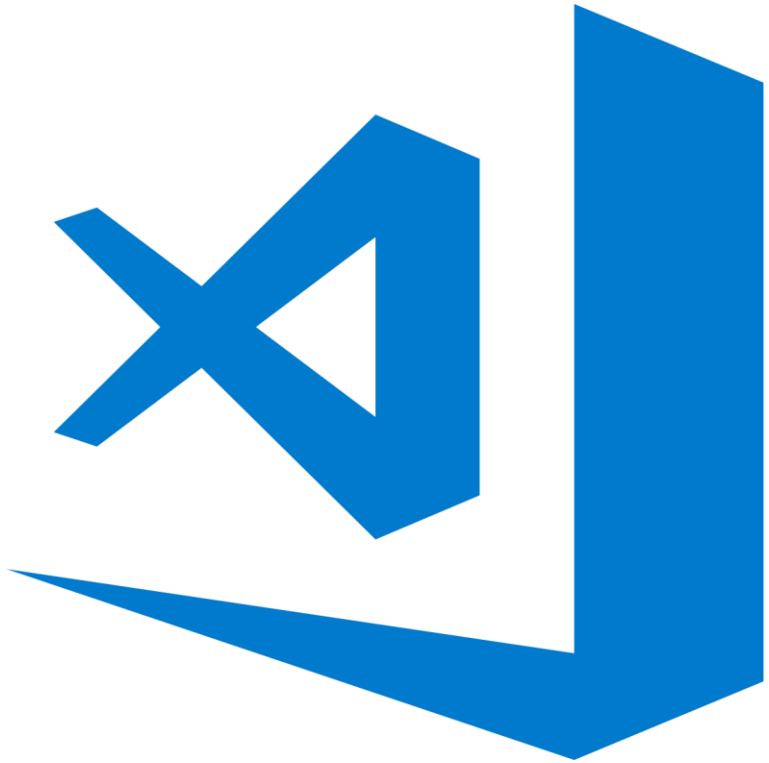


Basic Installation

Done !

Installation instruction : https://youtu.be/iaFmm3PobBs

Visual Studio Code



Website: https://code.visualstudio.com/

Anaconda

Website: https://www.anaconda.com/products/individual

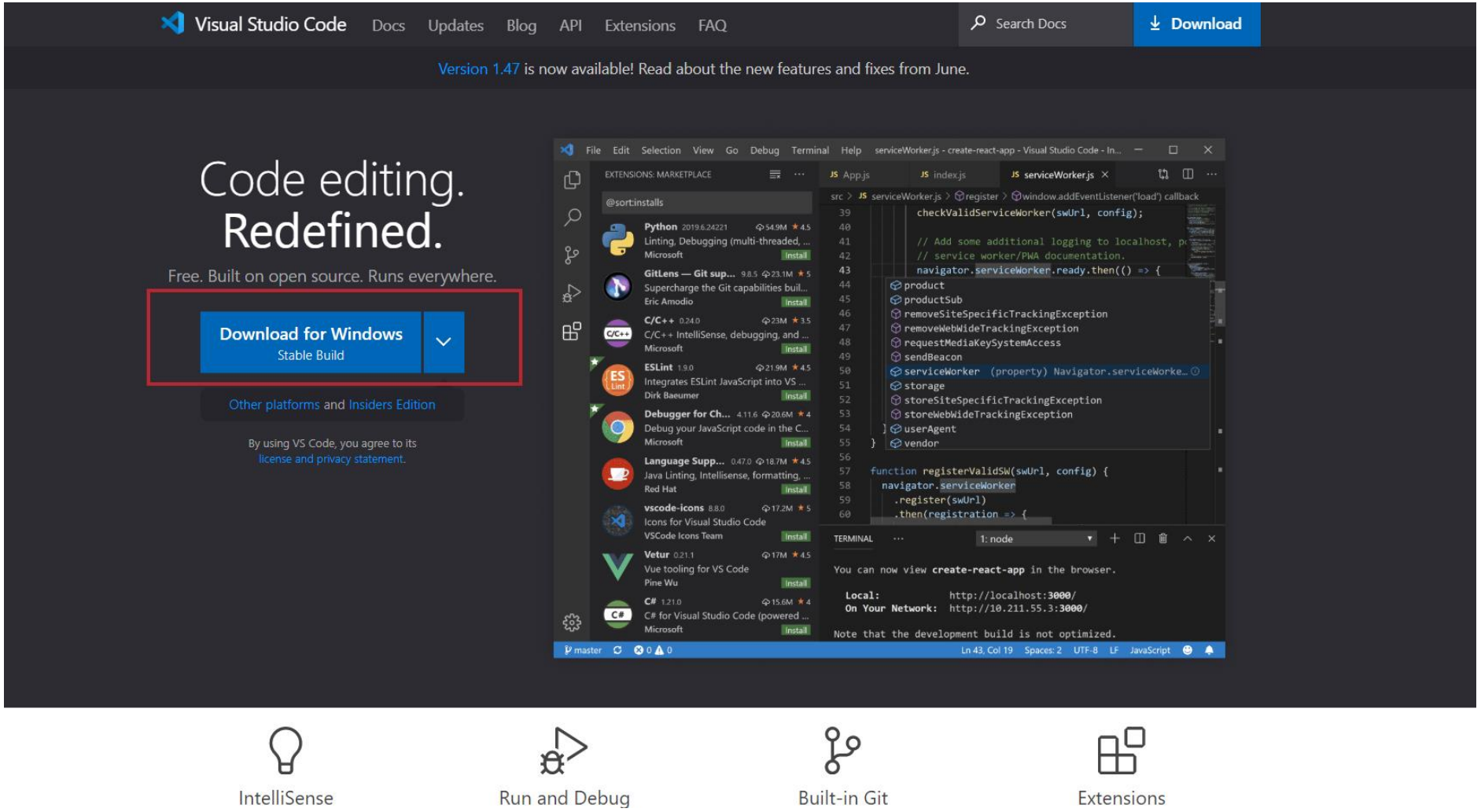
Python

Website: https://www.python.org/downloads/

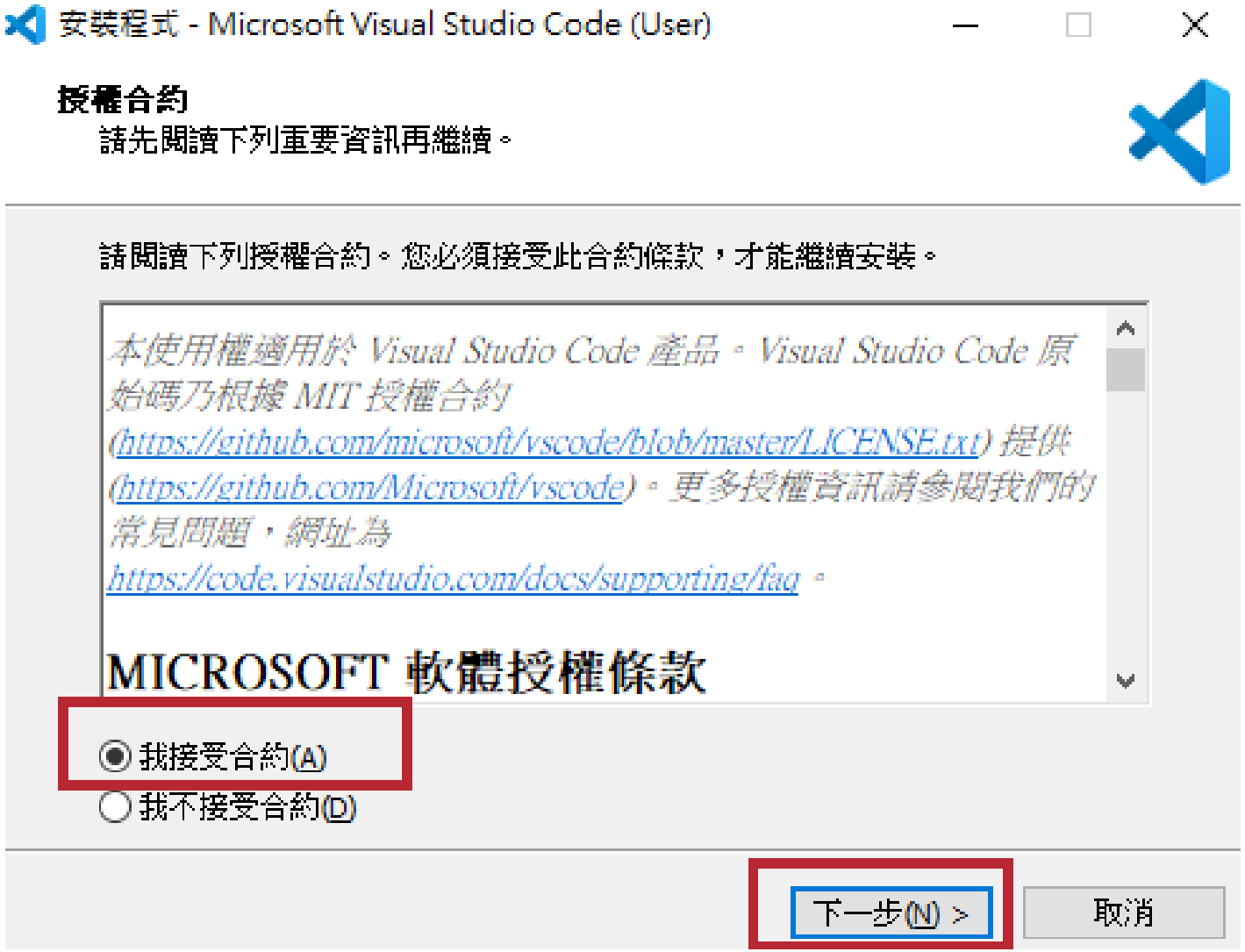
Install Visual Studio Code

Website: https://code.visualstudio.com/

Step 1.



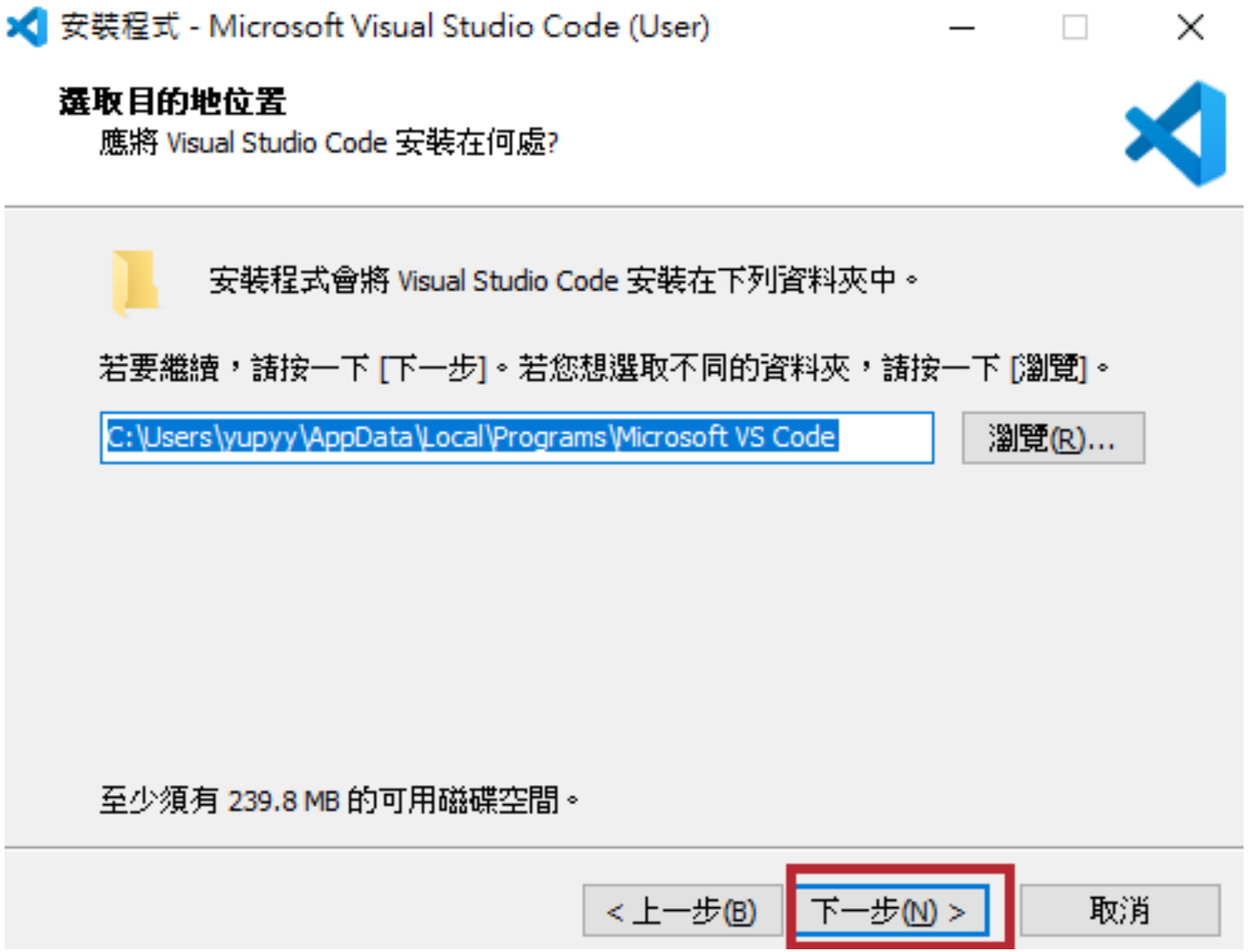
Install Visual Studio Code



Step 2.

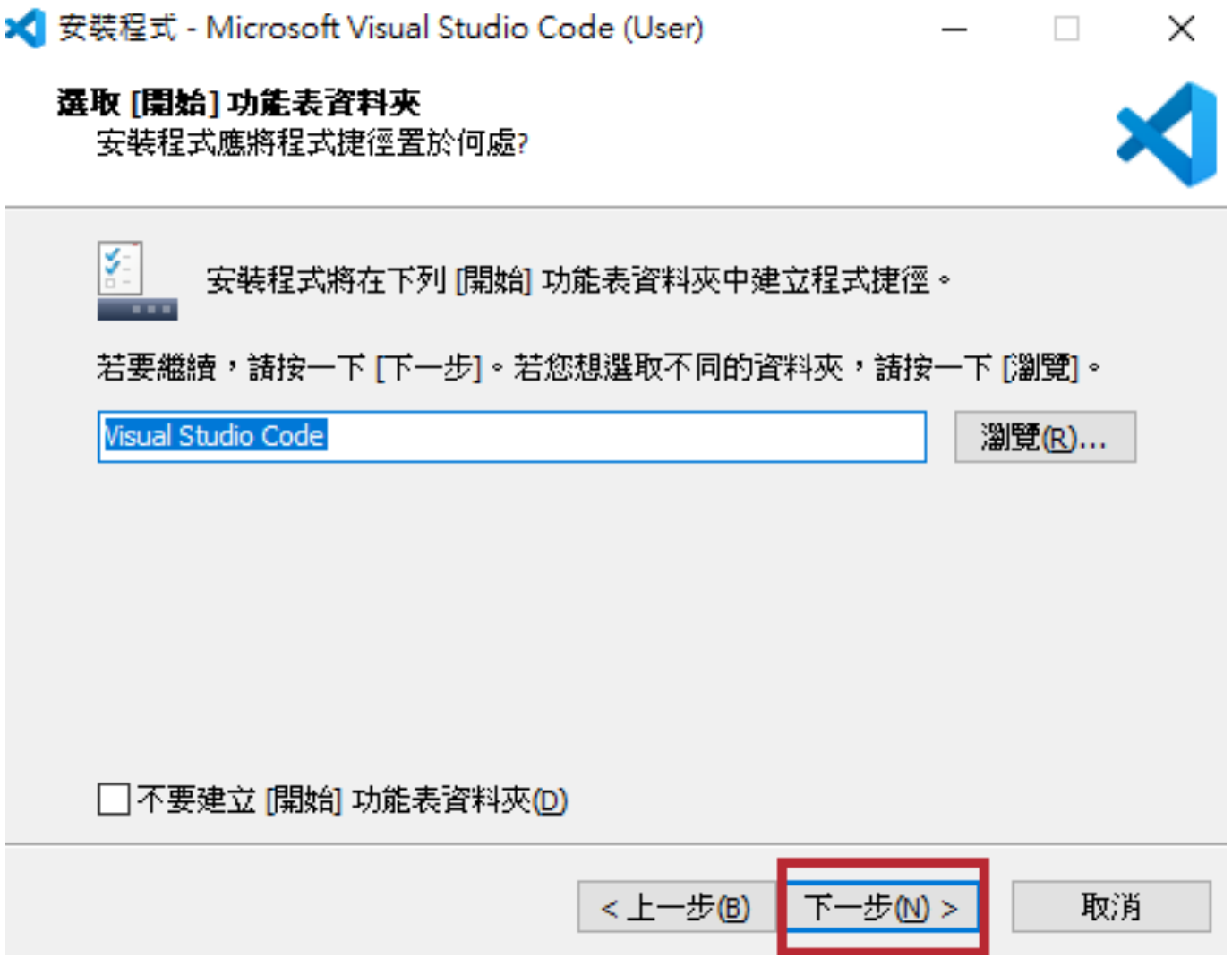
Step 3.

Install Visual Studio Code



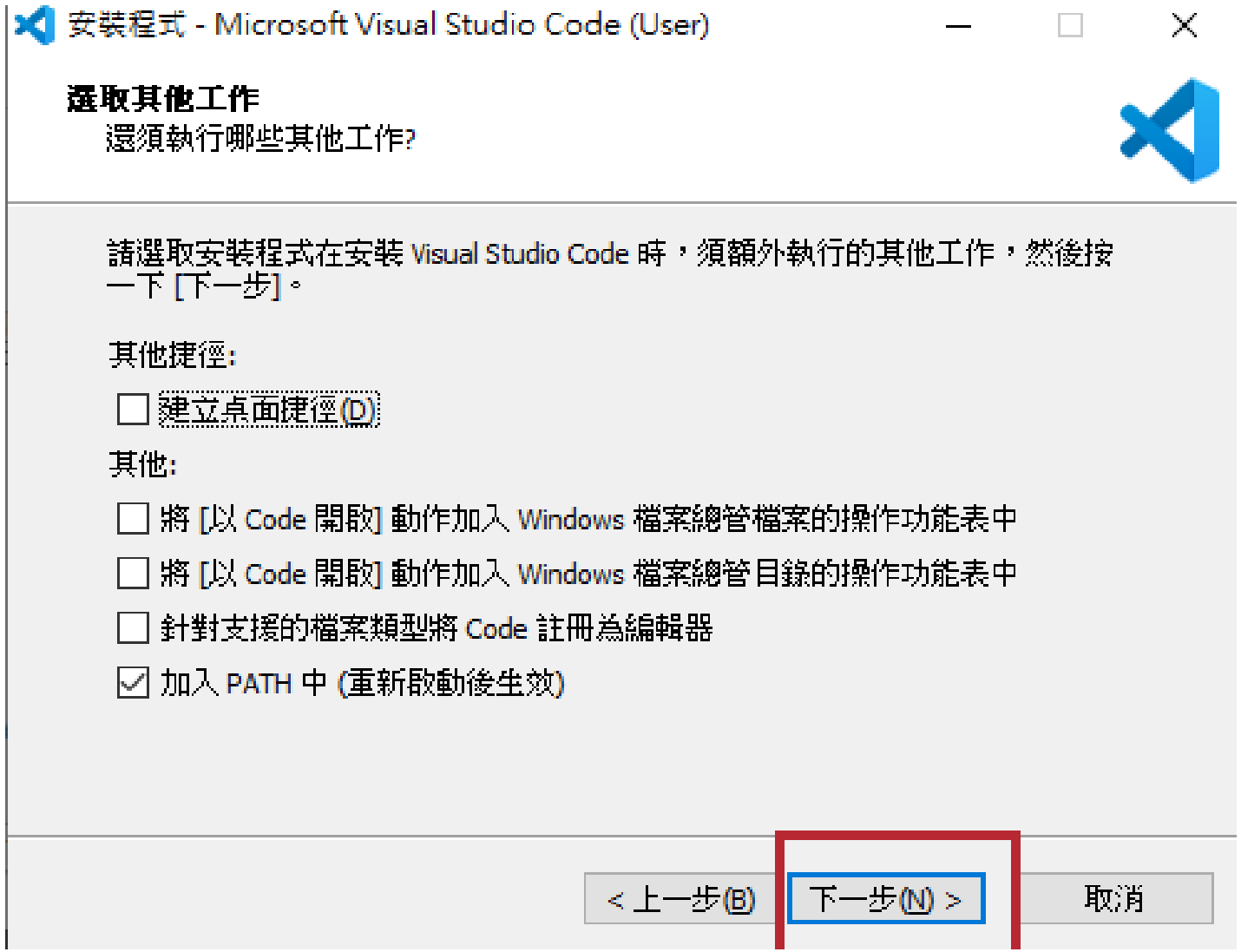
Step 4.

Install Visual Studio Code



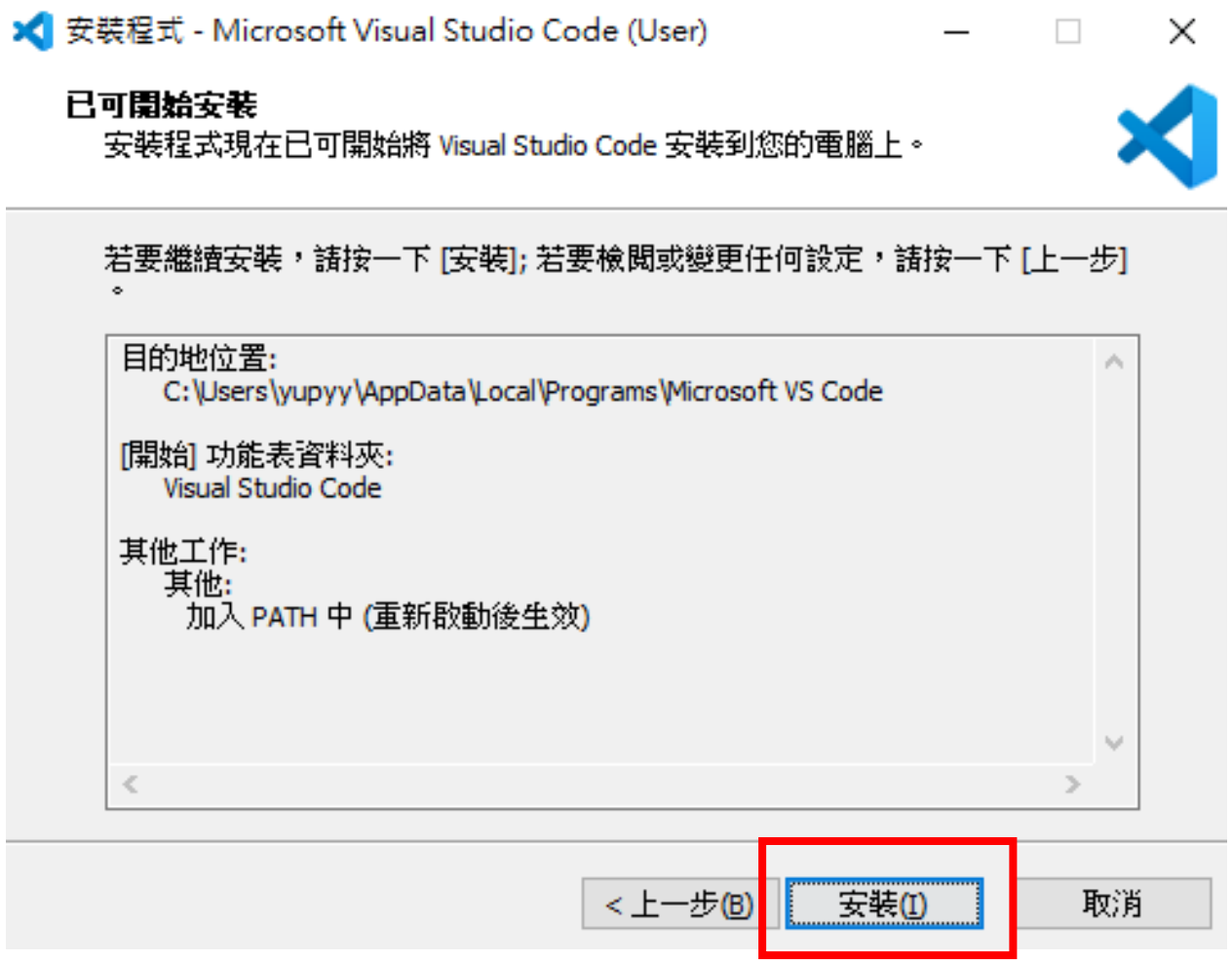
Step 5.

Install Visual Studio Code



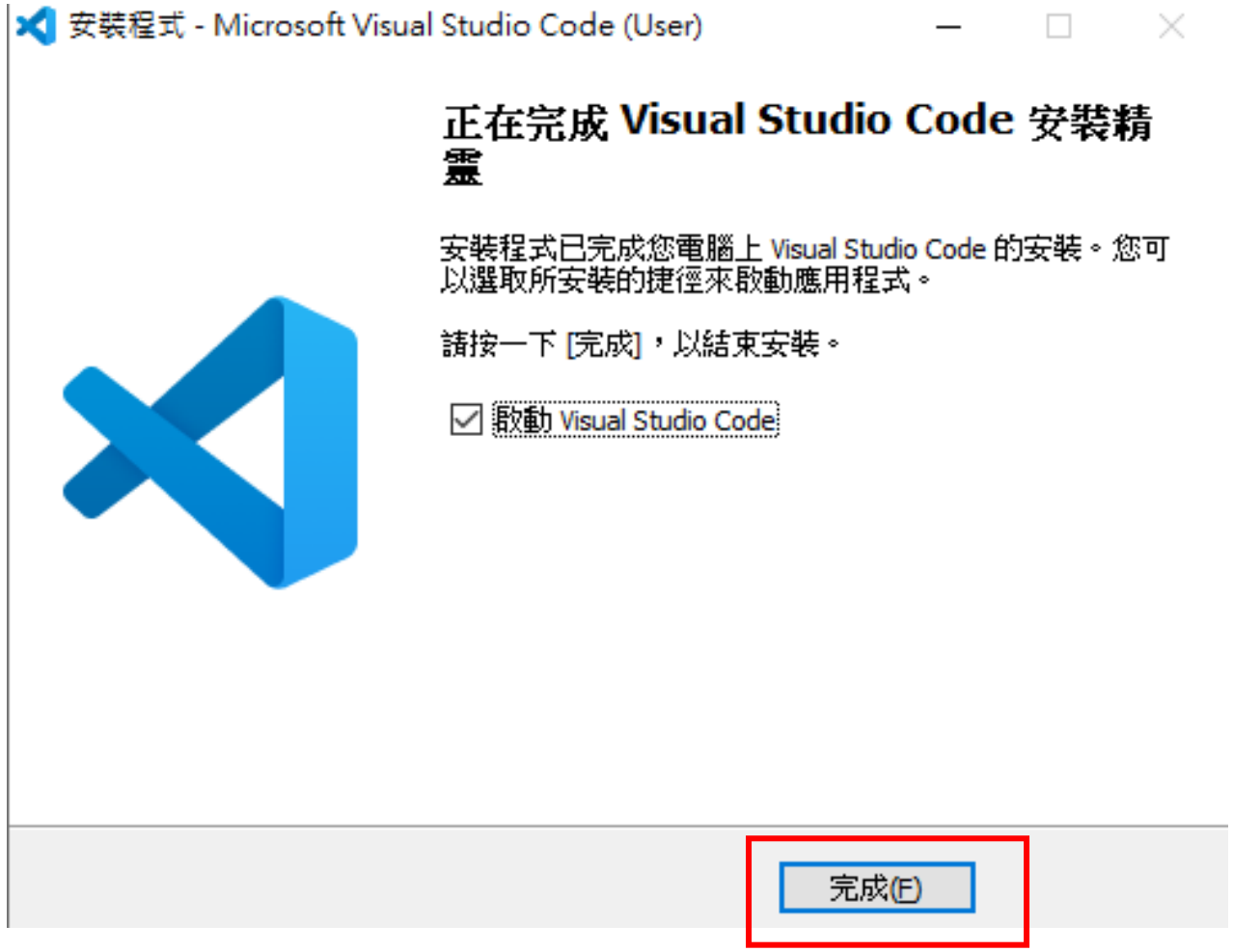
Step 6.

Install Visual Studio Code



Step 7.

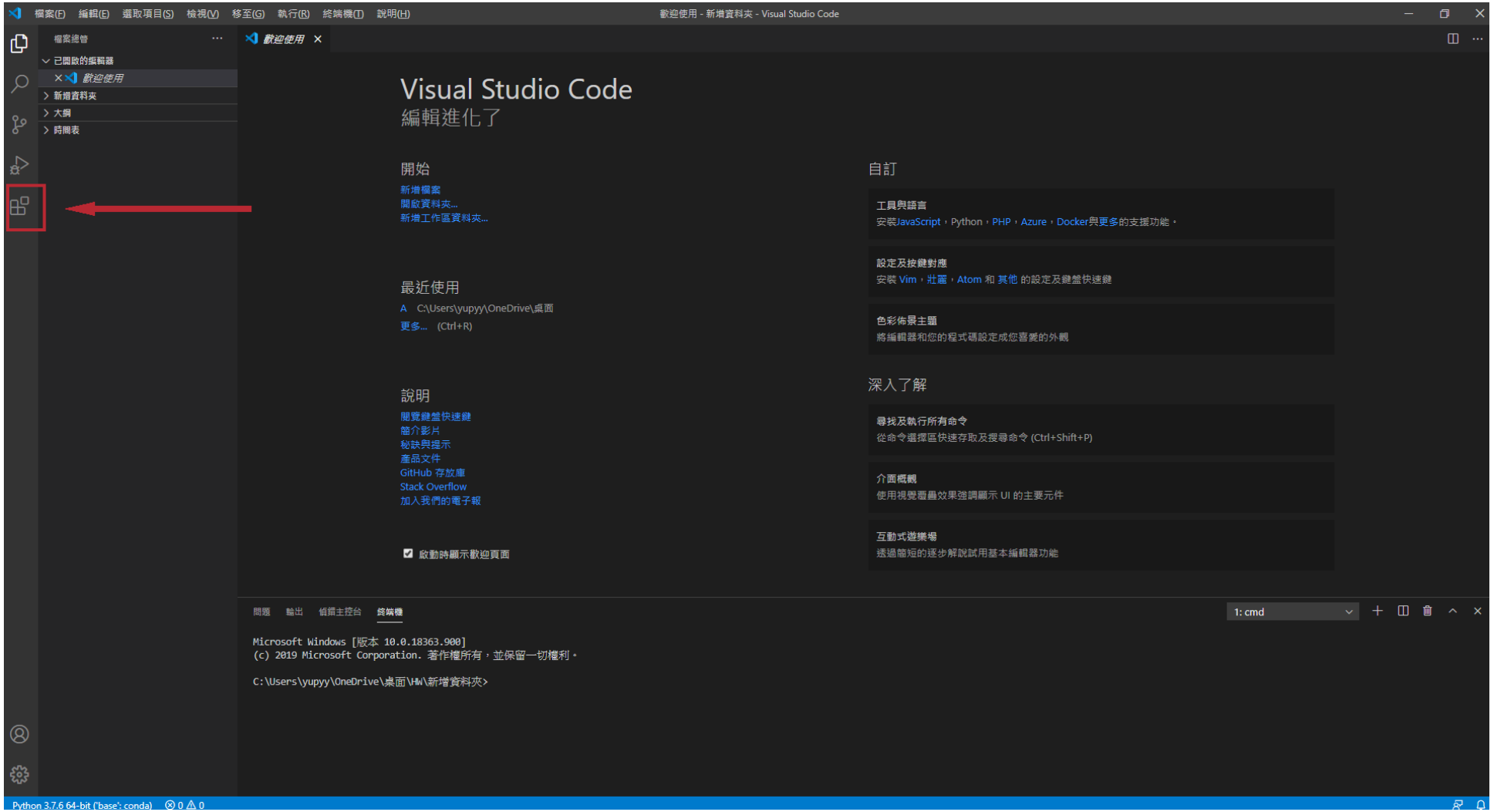
Install Visual Studio Code



Step 8.

Install Visual Studio Code

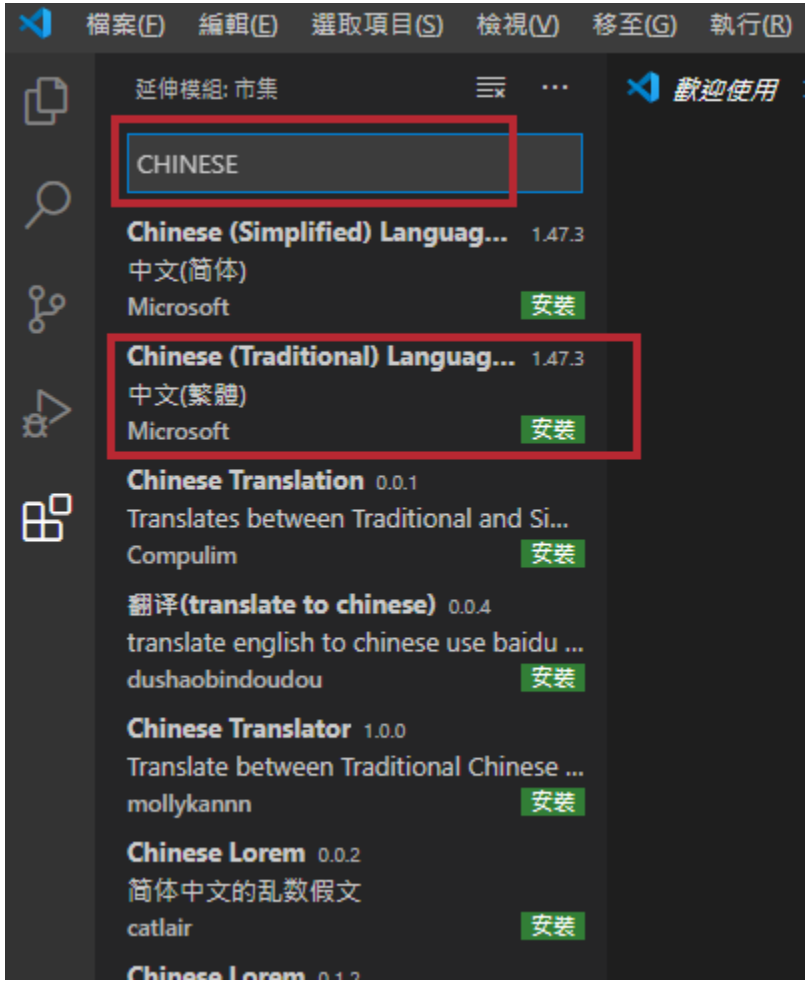
Step 9.



Install Visual Studio Code

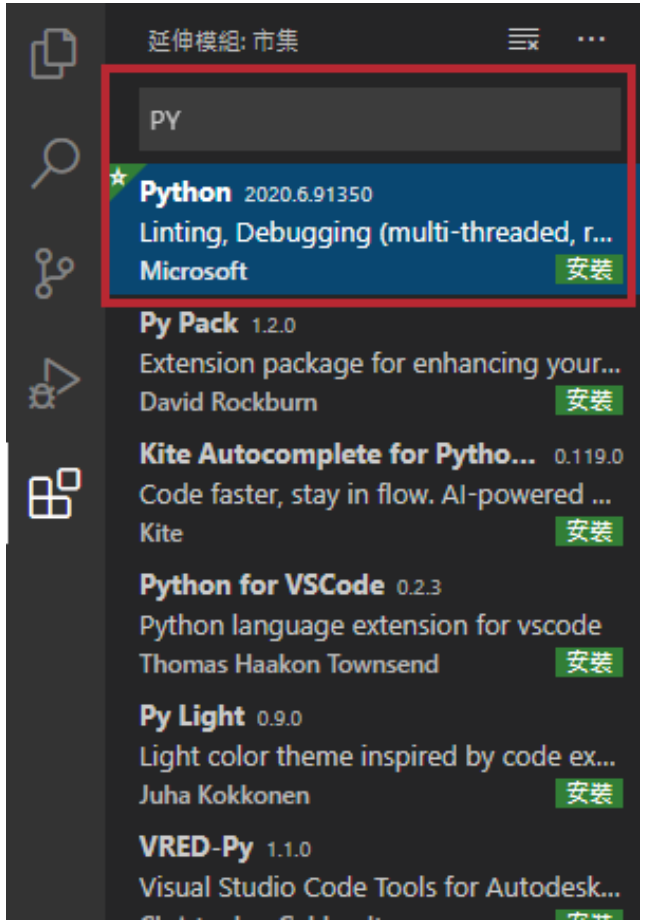
Step 10.

Step 11.



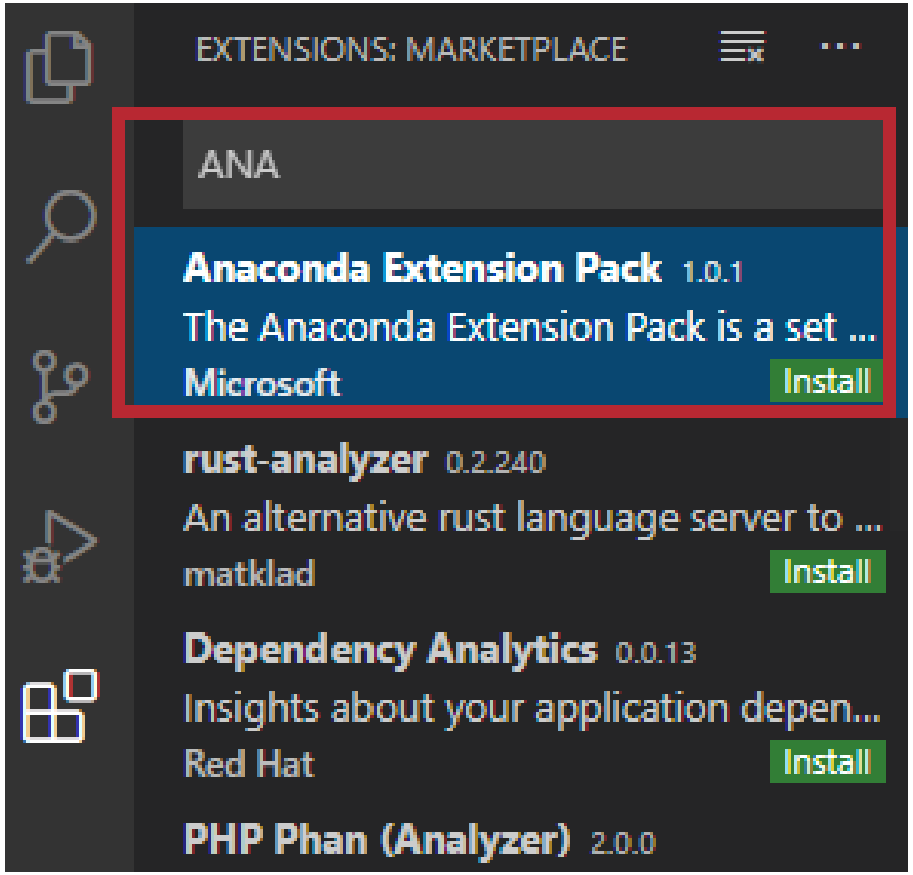
Install Visual Studio Code

Step 12.



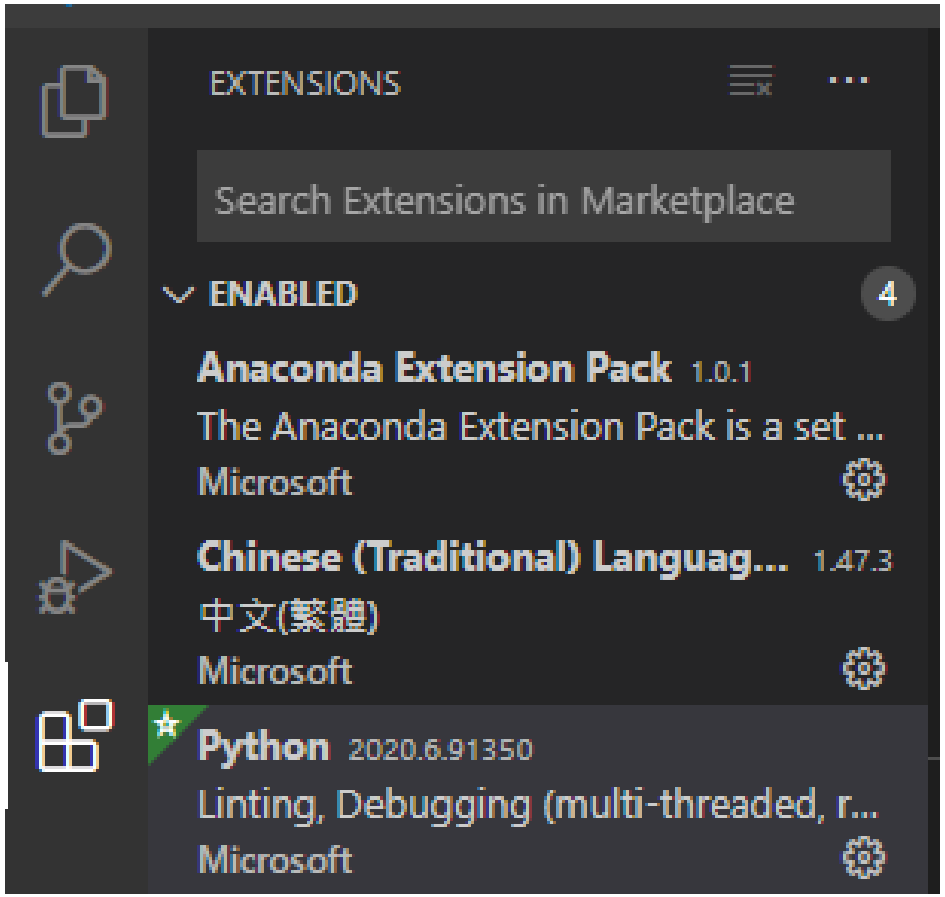
Install Visual Studio Code

Step 13.



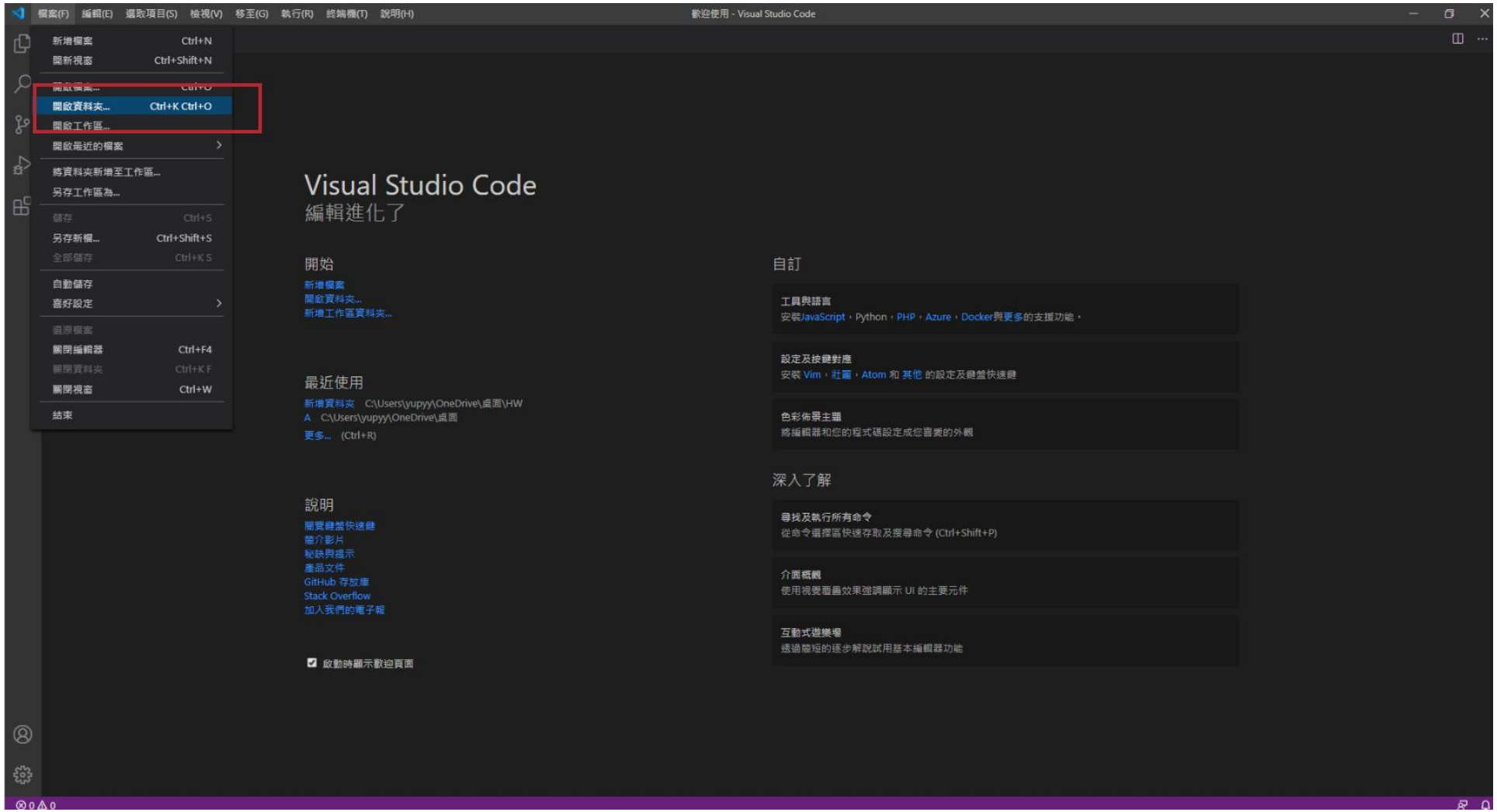
Install Visual Studio Code

Finish.

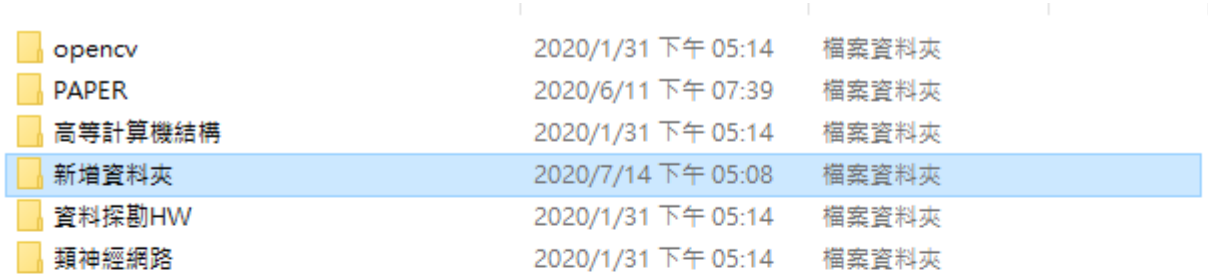


Open Folder

Step 1.



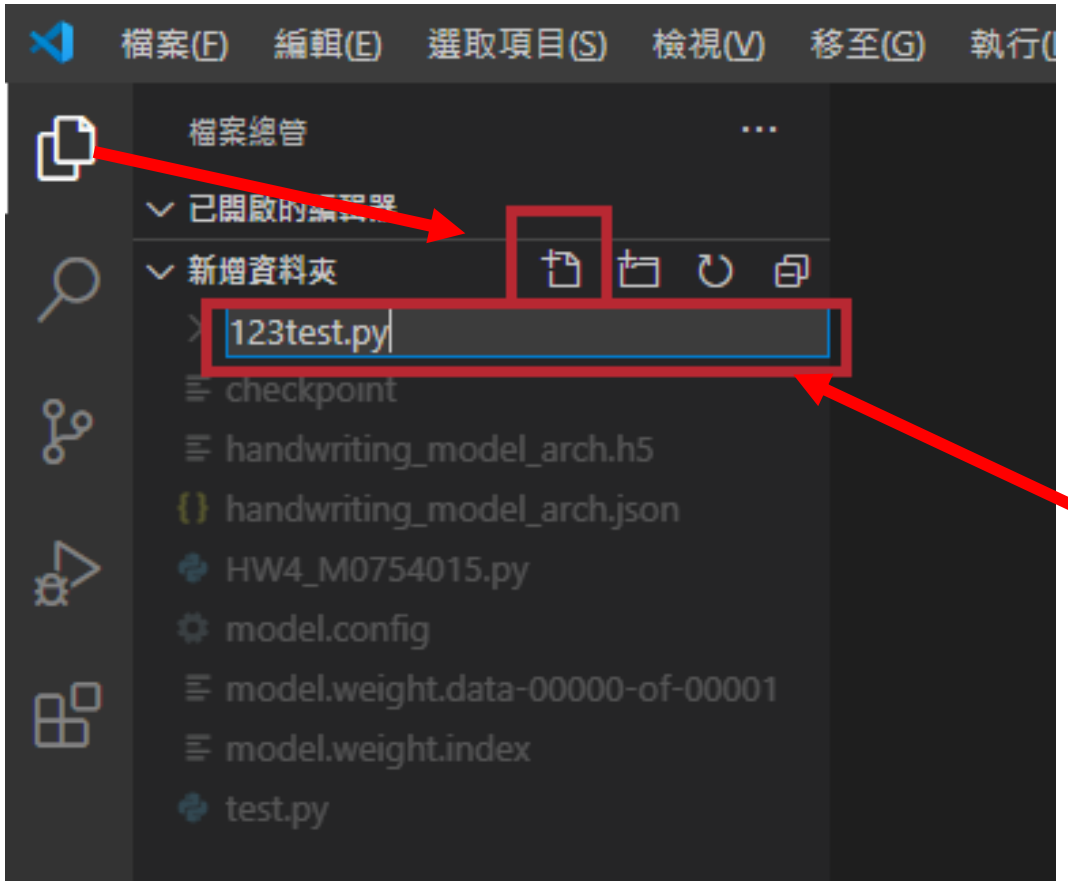
Adding a Folder



Step 2.

Adding a Python file

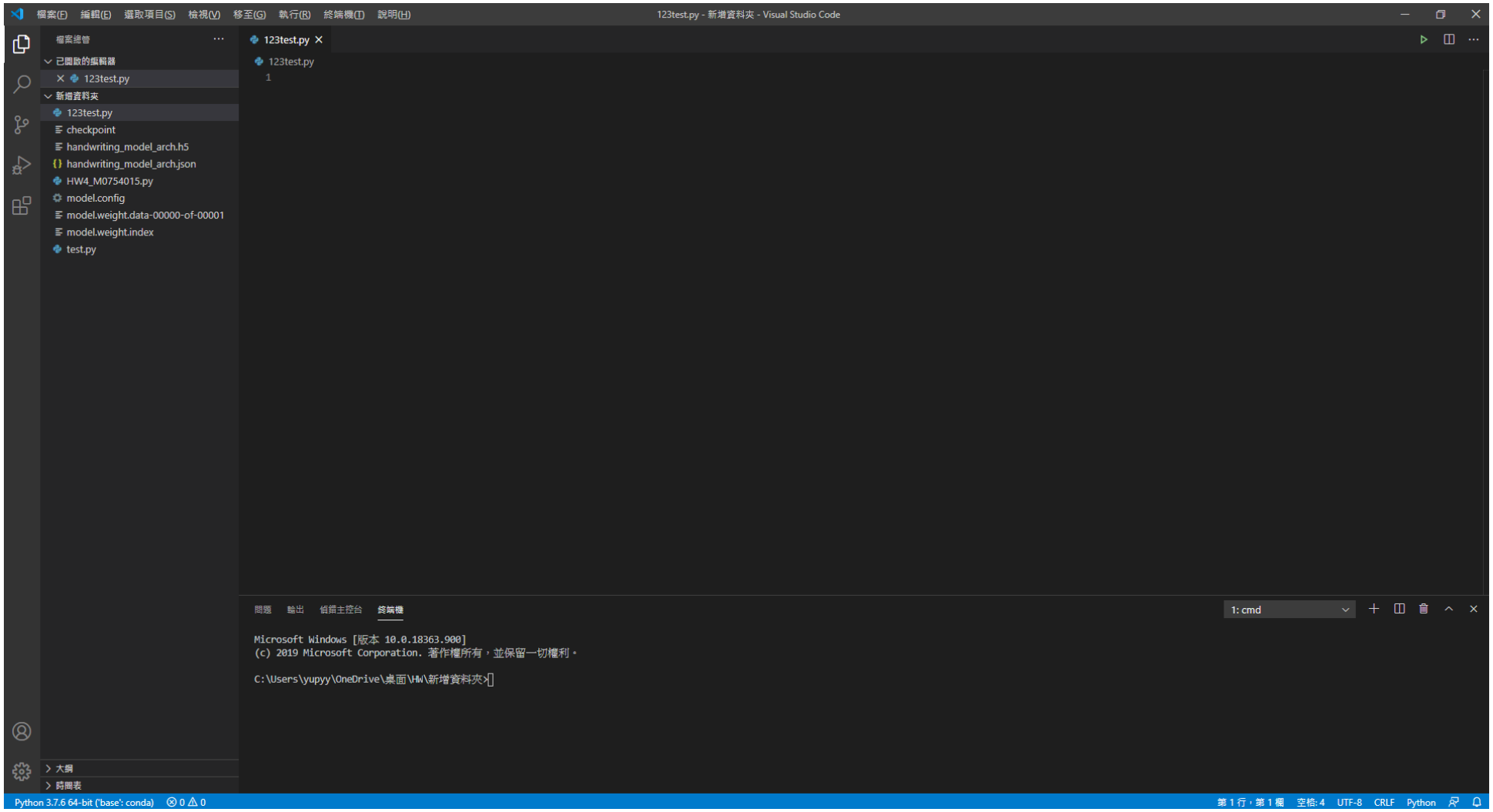
Step 3.



Step 4.
Name.py

Adding a Python file

Finish.



Installation

Done !

Installation instruction :
https://www.youtube.com/watch?v=pbSmxKygsAo&feature=emb_title

Thanks!

Any questions?