API

Special thanks to Dohyeon Koo.
* This note was created by Dohyeon Koo.

OUTLINE

1. Install Anaconda3

2. Visual Studio Code

3. Register Open API &Test investment competition

4. Set Open API & KOAstudio

1. Install Anaconda 3

1) Anaconda download.
   º go to anaconda (https://www.anaconda.com/download/)

   Recommendation: python 3.7 & 32-Bit.

Figure 1

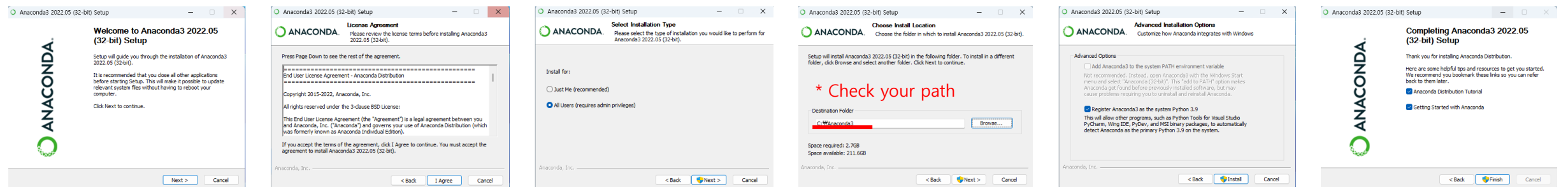2) Install Anaconda.

Figure 2

1. Install Anaconda 3

3) Run Anaconda prompt
a. Press Windows key+ S and type 'prompt' in the search bar. Then you will see Figure 3. Click the Anaconda prompt.

b. To check if Anaconda is properly installed on your local machine, type "**conda –version"** on terminal (macOS) or prompt (Windows). **Figure 4**

c. To check the version of Anaconda, type "conda info".
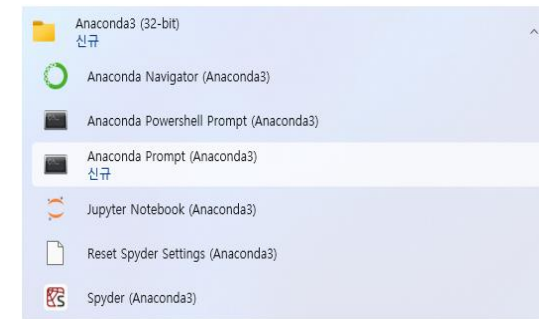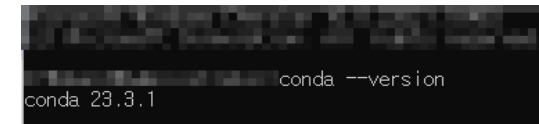If the output is "win-64", you need to switch to "win-32".

Figure 3

Figure 4

Figure 5

1. Install Anaconda3

* If your anaconda is "win-32", you can skip this page.

3-1) Changing from win-64 to win-32

Korean financial institutions provide Open APIs exclusively in a Windows 32-bit environment. Therefore, you need   to modify "win-64" to "win-32"

a. Type "set CONDA_FORECE_32BIT=1" in the prompt (Window) or terminal (macOS).

Figure 6

b. Type "conda info" to check the Windows bit version again.

Figure 7

1. Install Anaconda3

4) Create environment

       a. Create environment. In my case, I create my environment as 'py38_32'

Figure 8

It is possible type any name such like DH ,Kim....

       b. Type 'y' for creating your environment.

Figure 9

FIRST IN CHANGE

1. Install Anaconda3

4) Install Modules for API

a. Activate your environment by typing "conda activate `your environment name'": (For example, py38_32)

Figure 10

b. Install pandas, PyQt5, matplotlib, and pykiwoom

Figure 11

c. Install pywin32 by using the command "conda install" (Use "conda" instead of "pip")

Figure 12

FIRST IN CHANGE

2. Visual Studio code

* If you have already installed VScode you can skip this chapter

1) Download Vscode

   º go to Vscode (https://code.visualstudio.com/)
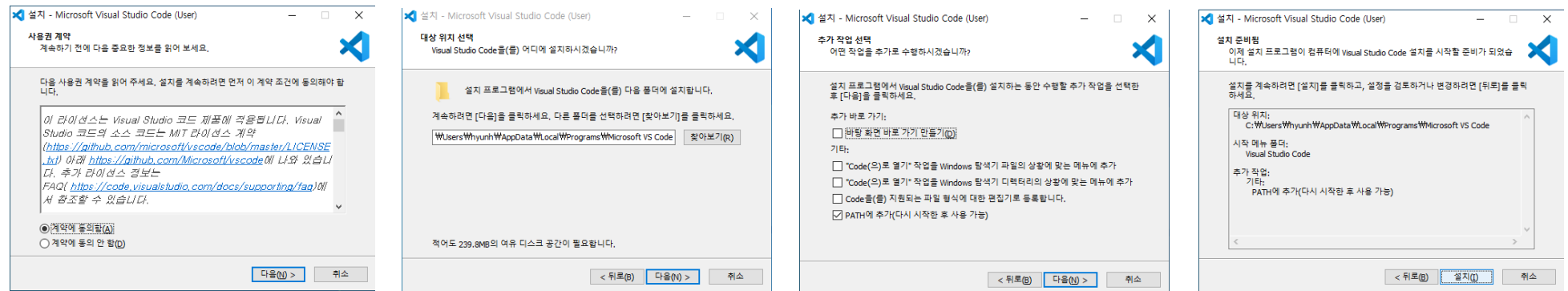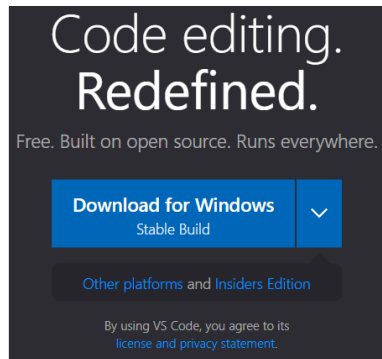
2) Install VScode

Figure 13

2. Visual Studio code

3) Run VSCode.
   a. Open folder and click New file (click red box)

4) Set python interpreter
   - connect your terminal (macOS) and prompt (Windows) with VSCode.

   Follow the sequence indicated by the red box.

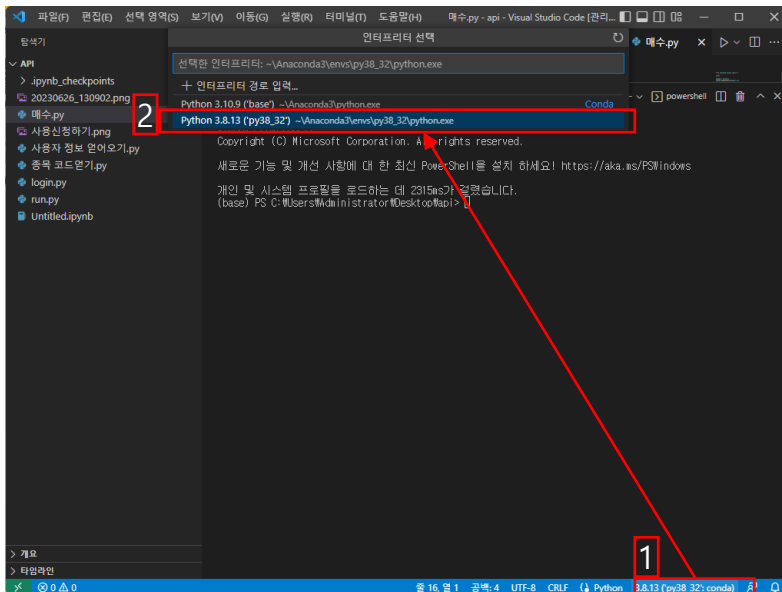   **Click interpreter that matches yourenvironment name.**
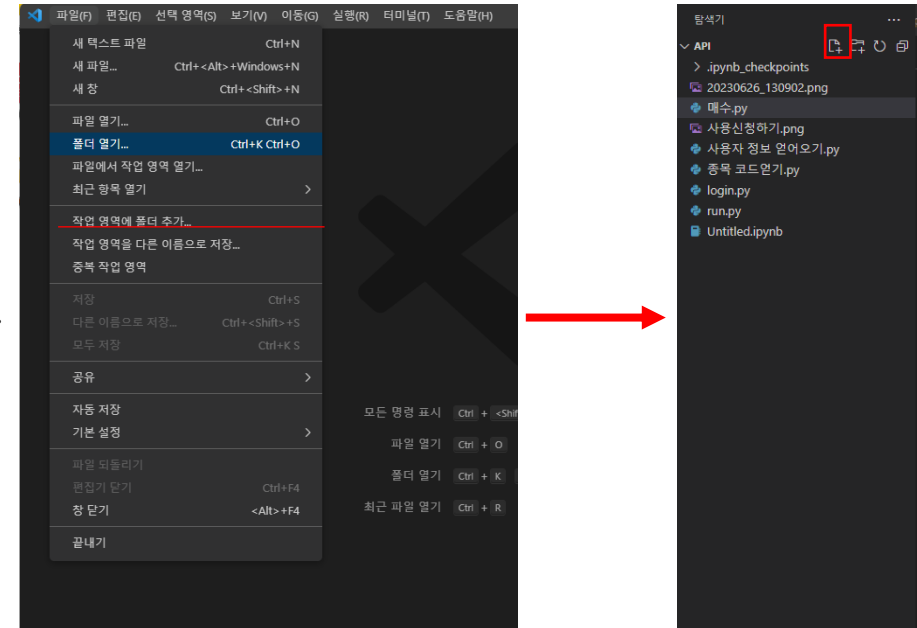

Figure 14

Figure 15

3. Open API

* You need to register a Kiwoom account (Kiwoom securities)
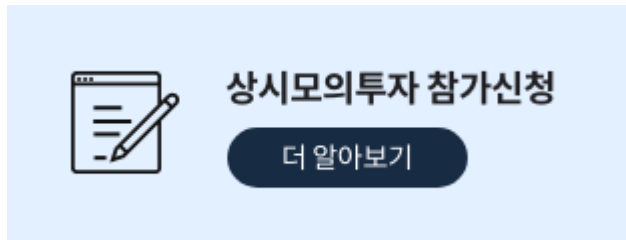
1) Register Open API

     a. Click on "Open API" at the bottom of the KIWOOM securities website. See Figure 16.

     b. Click "사용 신청하러 가기".

     c. Click "키움 Open API + 모듈 다운로드".

     d. Download "KOA Studio 다운로드".

     e. Click "상시 모의투자 신청하러 가기 "
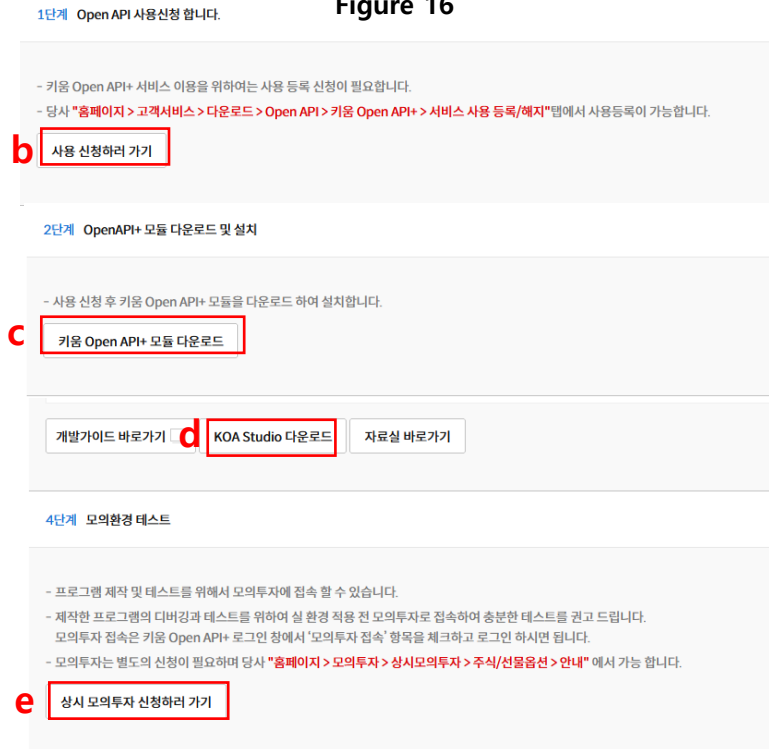

Figure 16

Figure 17

FIRST IN CHANGE

4. Set Open API & KOA studio

1) Move KOA studio to the Open API folder.

    a. Copy the files KOAstudioSA.exe & KOAloader.dll and paste them to the OpenAPI folder (the specific path depends on where you downloaded the files.)
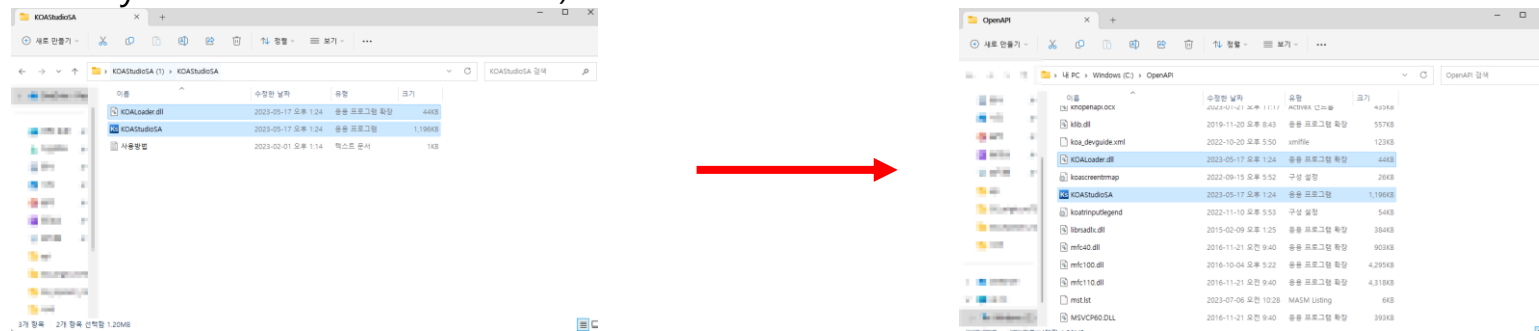

Figure 18

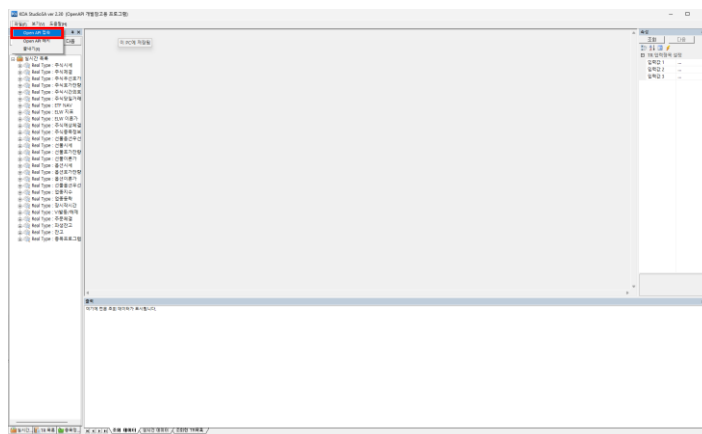   **b.** Run KOAStudioSA **(Click the red box)** and log in to the API **(Click the red box)**

Figure 19

Figure 20