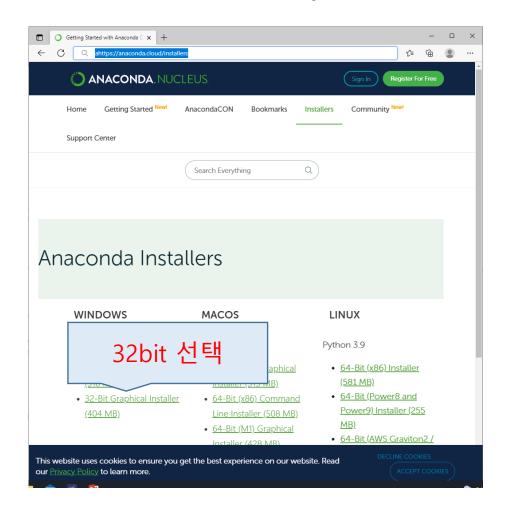
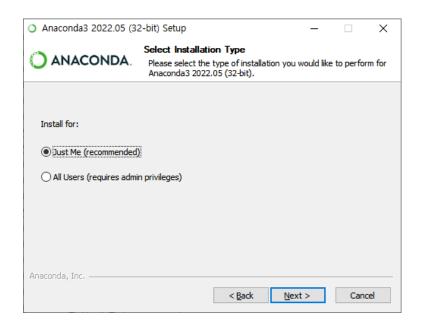
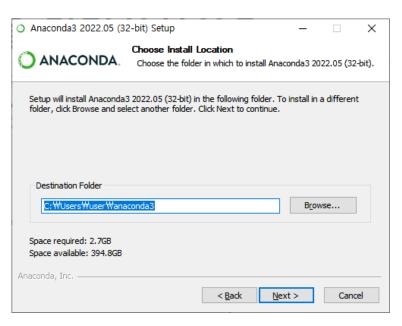
자동매매주식 시스템

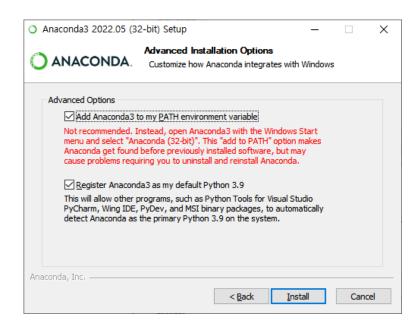
실행환경: 아나콘다설치

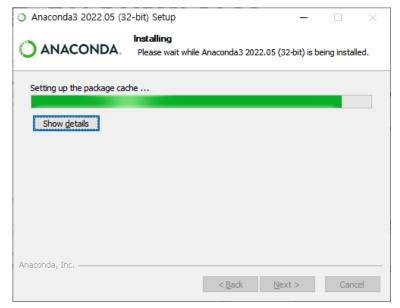
■ 아나콘다 다운 : https://anaconda.cloud/installers

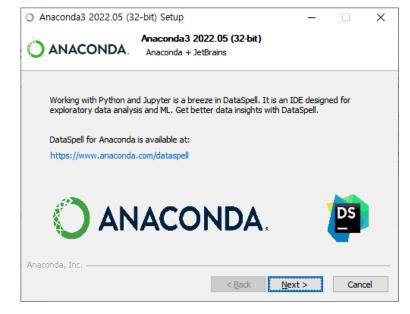


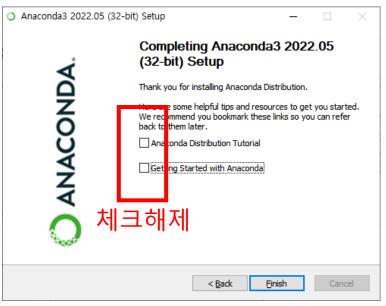


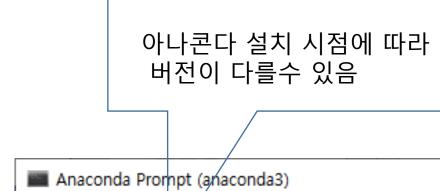












- (base) C:\sers\user>conda --version conda 4.12.0
- (base) C:\Users\user>

- 1. 시작메뉴에서 Anaconda Prompt(anaconda3) 실행
- 2. Conda -- version 입력 후 엔터 버전확인

 \times

아나콘다 가상 환경 설정하기(1)

```
■ 선택 Anaconda Prompt (anaconda3) - conda create -n system_trading_py38_32 python=3.8

(base) C:#Users#user>conda create -n system_trading_py38_32 python=3.8

Collecting package metadata (current_repodata.json): done
Solving environment: done
```

```
24.2 MB
                                            Total:
The following NEW packages will be INSTALLED:
                     pkgs/main/win-32::ca-certificates-2022.4.26-h9f7ea03_0
 ca-certificates
                     pkgs/main/win-32::certifi-2022.6.15-py38h9f7ea03_0
pkgs/main/win-32::openssI-1.1.1o-hc431981_0
 certifi
 openssl
                     pkgs/main/win-32::pip-21.2.4-py38h9f7ea03_0
 qiq
                     pkgs/main/win-32::python-3.8.13-h53c7b84 0
 pvthon
                     pkgs/main/win-32::setuptools-61.2.0-py38h9f7ea03_0
 setuptools
 salite
                          n/win-32∷vc-14.2-h21ff451_1
  VC
                               /win-32::vs2015_runtime-14,27,29016-h5e58377_2
 vs2015 run
 whee I
                              n/noarch::wheel-0.37.1-pyhd3eb1b0_0
                              n/win-32::wincertstore-0.2-pv38h9f7ea03_2
 wincertsto
Proceed ([y]/n)?
```

아나콘다 가상 환경 설정하기(2)

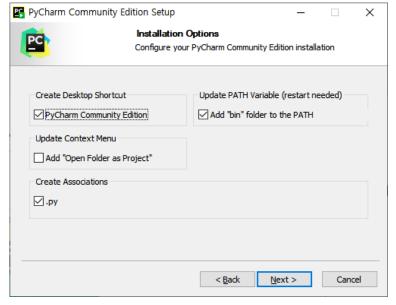
```
Anaconda Prompt (anaconda3)
                                                                           To activate this environment, use
     $ conda activate system_trading_py38_32
 To deactivate an active environment, use
                                             가상환경 설치 확인
    $ conda deactivate
                                             conda env list 입력
(base) C:#Users#user>conda env list 🥌
 conda environments:
                     C:\Users\user\anaconda3
base
                       system_trading_py38_32
(base) C:\Users\user>
```

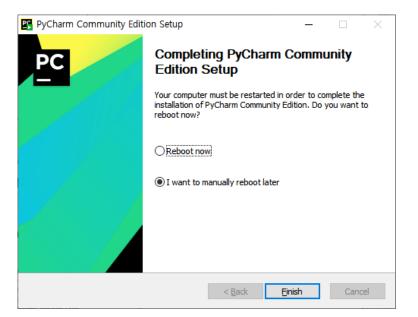
실행환경: 파이참 설치

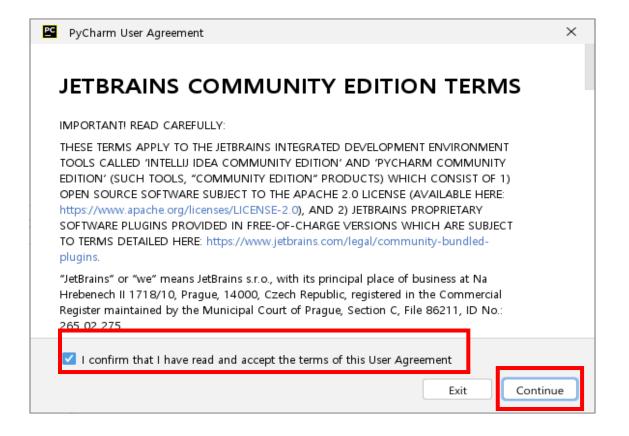


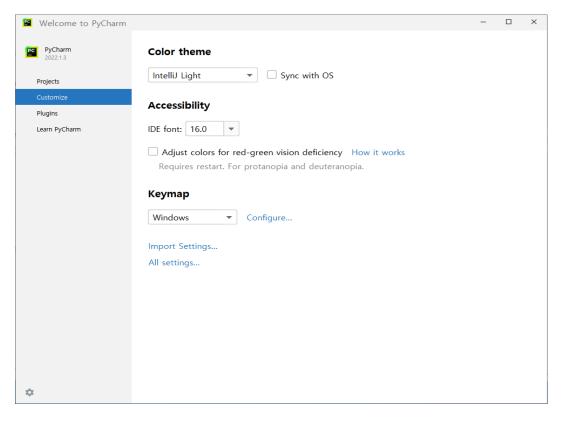
■ 파이참 다운 : https://www.jetbrains.com/pycharm/





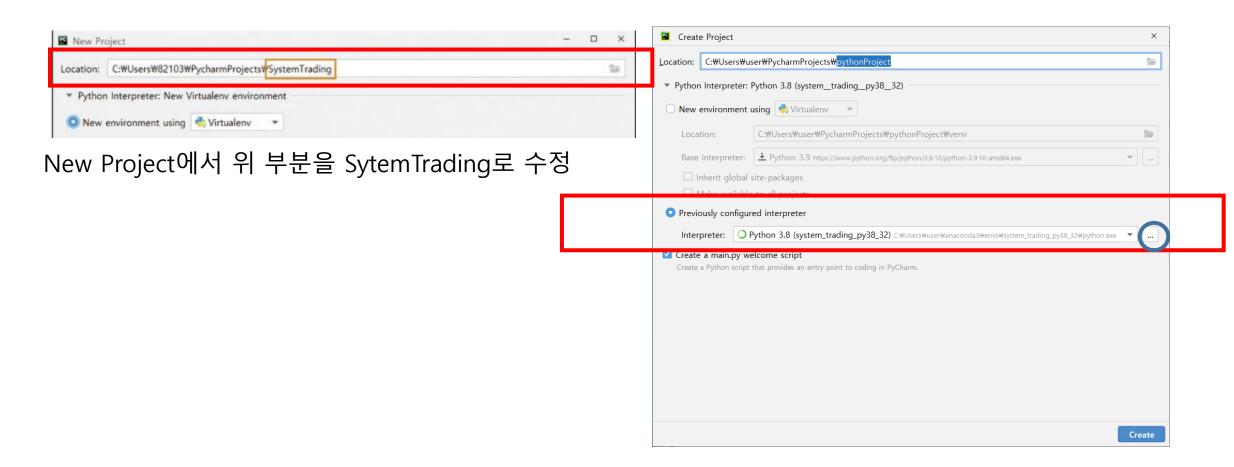






파이참 처음 실행시 테마 및 폰트등 조절가능

프로젝트 만들기



알아야 하는 것들

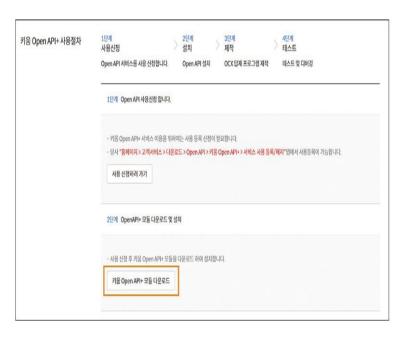
- 파이썬 기초 문법
 - 변수, 제어문, 반복문
 - 함수, 리플,튜플등 집합형 자료
 - 클래스
 - 모듈과 패키지
 - 예외처리

Kiwoom API사용

환경구축

- 키움증권 계좌만들기
 - 인증서 발급받기
- Open API내려받기
 - 키움증권 웹사이트 하단 : 트레이딩채넘> Open API 선택
 - 사용 신청하러 가기 선택

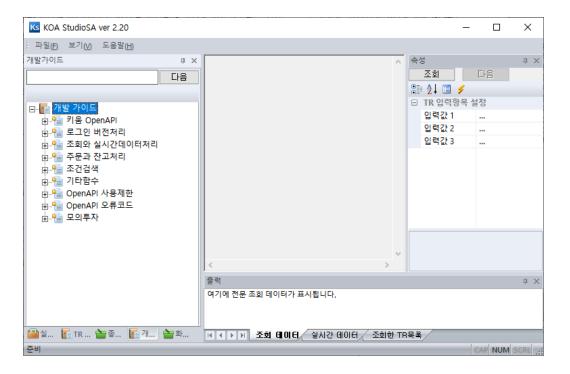




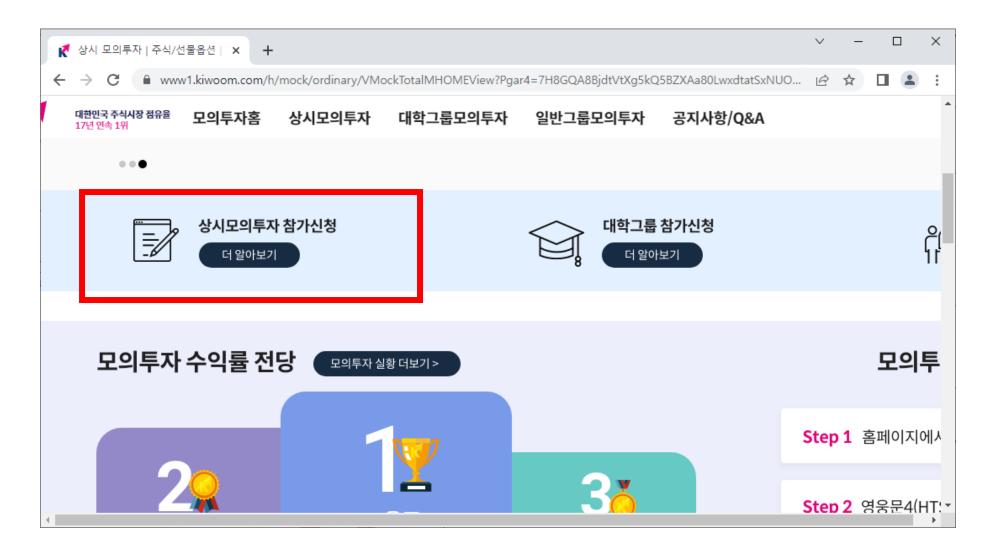
KOA Studio설치

■ KOA Studio 내려받기

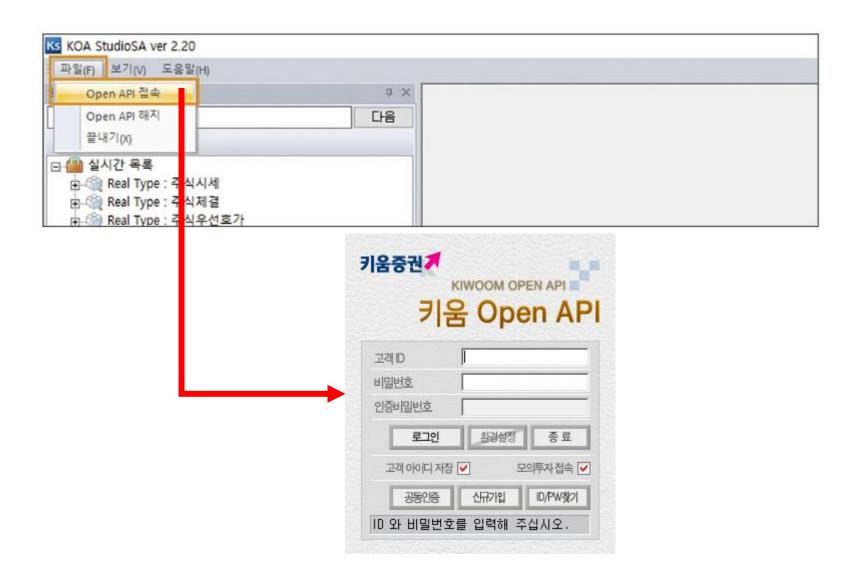


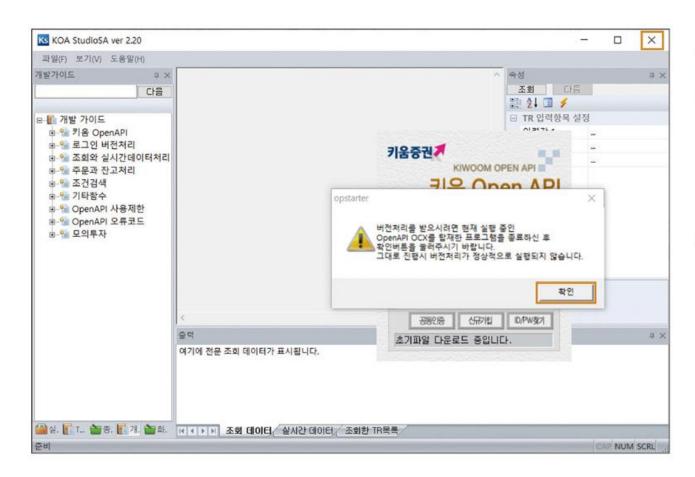


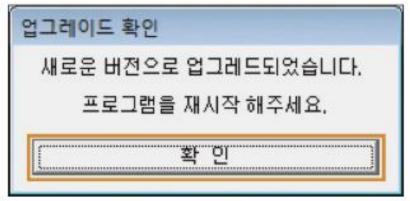
상시 모의 투자 참가신청



접속확인하기







이때 확인버튼을 먼저 누르지 말고 꼭 창을 종료후에 확인버튼누르기

PyQt5 설치

PyQt5-GUI Programming

```
Anaconda Prompt (anaconda3)
                Anaconda Prompt(Anaconda3) 실행후 conda env list 입력 ×
(base) C:#Users#user>conda env list
 conda environments
                   * C:#Users#user#anaconda3
base
rading_py38_32
(base) C:\Users\user>conda activate system_trading_py38_32
(system_trading_py38_32) C:#Users#user>pip install pyqt5
                                    PyQt5 설치
```

* 판단스도 설치하기: pip install padans