2025-04-11(금))

```
파이썬 라이브러리와 활용 6일차 - pandas, numpy, Matplotlib(3일차)
```

- ⭐ 교재: Python for Data Analysis, 3E (Wes's Blog)
    - src code - wesm / pydata-book
- Python Code convention
    - ⭐ PEP 8 – Style Guide for Python Code
    - [Python] 보편적인 python coding convention(파이썬 코딩 컨벤션)
    - Python Code convention Guide
    - Yosseulsin-JOB/Google-Python-Style-Guide-kor
    - 0.3 파이썬 스타일 가이드 (PEP-8) wikidocs
- ⭐⭐ 파이썬 패키지 인덱스(PyPI) : 파이썬 패키지 관리 시스템
    - ⭐ Q_01_08. PIP(Python Package Index) 란 무엇인가 (wikidocs)
        - Q_01_09. PIP 명령문 사용하기
    - requests
        - Requests is a simple, yet elegant, HTTP library.
        - API Reference and User Guide
    - urllib3
        - a powerful, user-friendly HTTP client for Python
- IP 주소를 확인하는 웹사이트
- ⭐ JSONPlaceholder
    - Free fake and reliable API for testing and prototyping.
    - Guide
    - {JSON} Placeholder로 REST-API 실습하기
    - [Mock Rest API] jsonplaceholder 소개 (REST API 테스트용 가상 데이터 제공 사이트)
- How do I catch a specific HTTP error in Python?
- Visual Studio Code marketplace
    - SQLTools SQLite
        - Install nodejs16 on macOS with MacPorts
        - node — Homebrew Formulae
- HeidiSQL (windows)
- 파이썬 각종 db 연결(sqlalchemy, pymysql)
- sqlalchemy

오전수업:

- ⭐ 교재: Python for Data Analysis, 3E (Wes's Blog)
  - 6 Data Loading, Storage, and File Formats
    - Reading Microsoft Excel Files
    - 6.3 Interacting with Web APIs

```
In [126]: import requests
In [127]: url = "https://api.github.com/repos/pandas-
dev/pandas/issues"
In [128]: resp = requests.get(url)
In [129]: resp.raise_for_status()
In [130]: resp
Out[130]: <Response [200]>
```

    - 6.4 Interacting with Databases

```
In [135]: import sqlite3

In [136]: query = """
.....: CREATE TABLE test
.....: (a VARCHAR(20), b VARCHAR(20),
.....:  c REAL,        d INTEGER
.....: );"""

In [137]: con = sqlite3.connect("mydata.sqlite")

In [138]: con.execute(query)
Out[138]: <sqlite3.Cursor at 0x188e40ac0>

In [139]: con.commit()
```

  - 파이썬 각종 db 연결(sqlalchemy, pymysql)

- 실습코드:
  - customPlot.py
  - sqlite_example.py
    - sqlite3 사용
  - db_ex02.py
    - sqlalchemy 사용
  - main.py