
Appendix.

Google Colab 사용법

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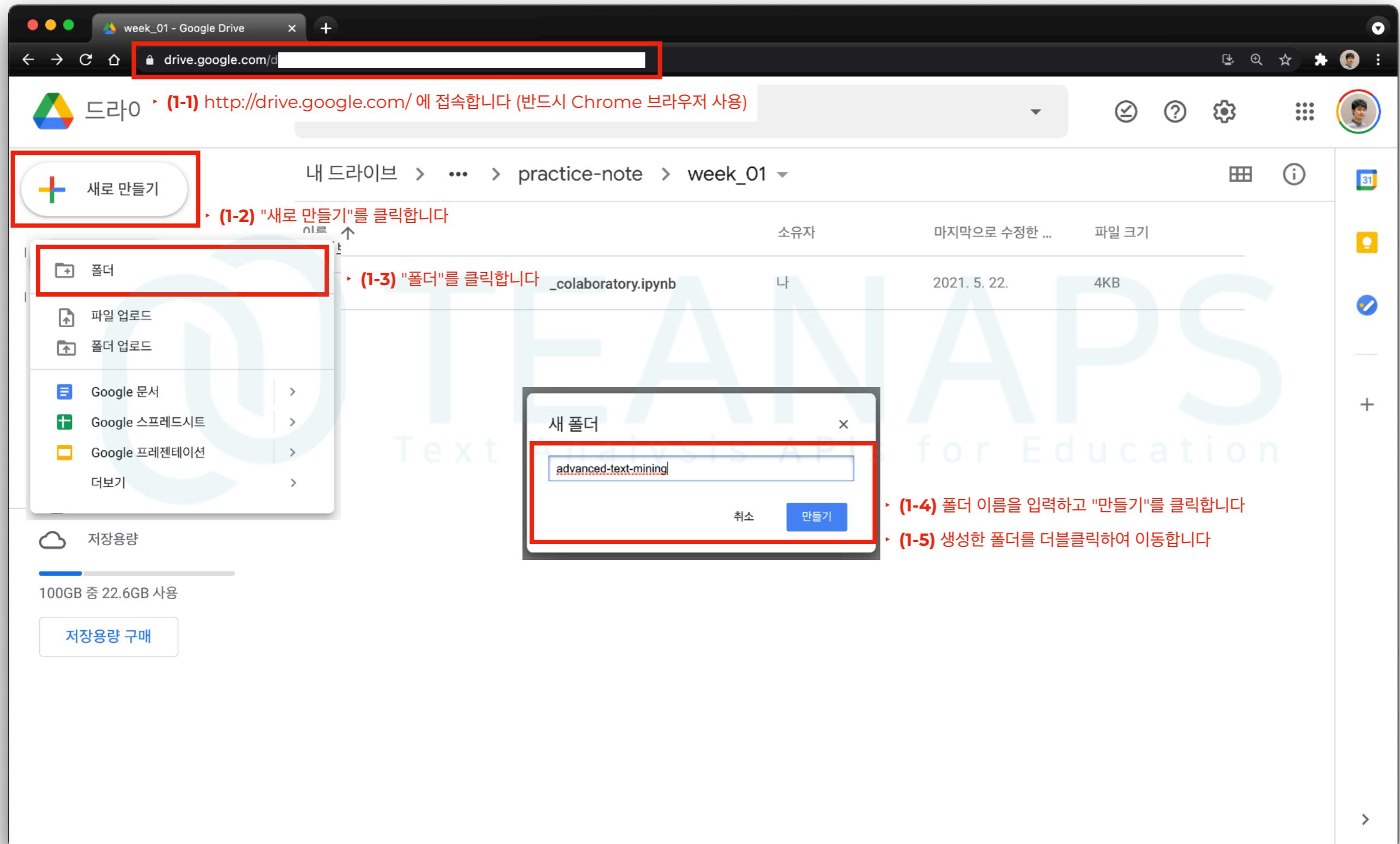
Python with Colab

Google Colaboratory

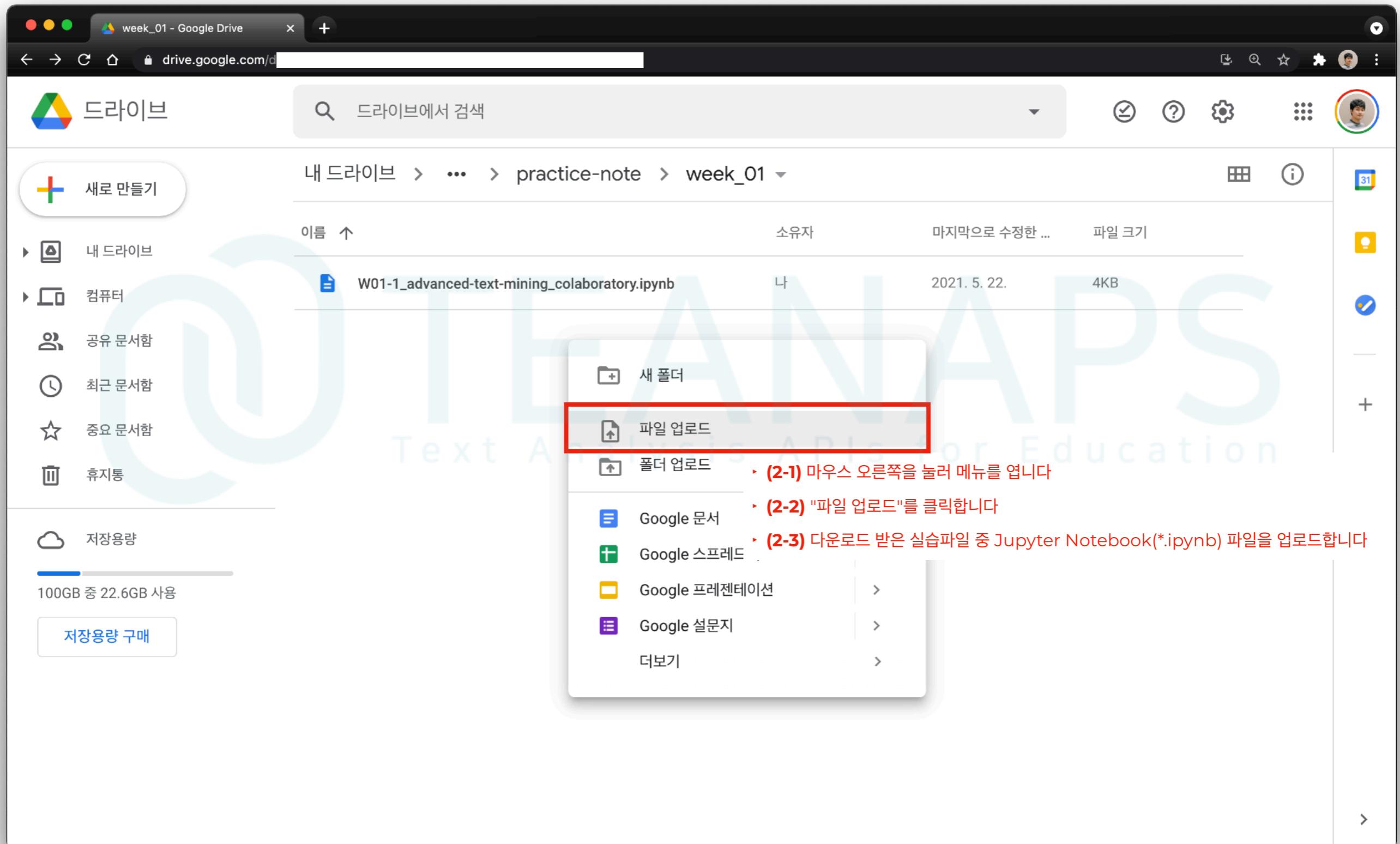
 **Google Chrome +**
 **Colaboratory** 환경에서 Python 활용

1. **TEANAPS는 Google Colab 환경에 최적화**
2. 별도 환경설정 없이 **한줄 명령어**로 TEANAPS 설치 가능
3. 로컬 PC보다 우수한 **컴퓨팅 파워** 활용

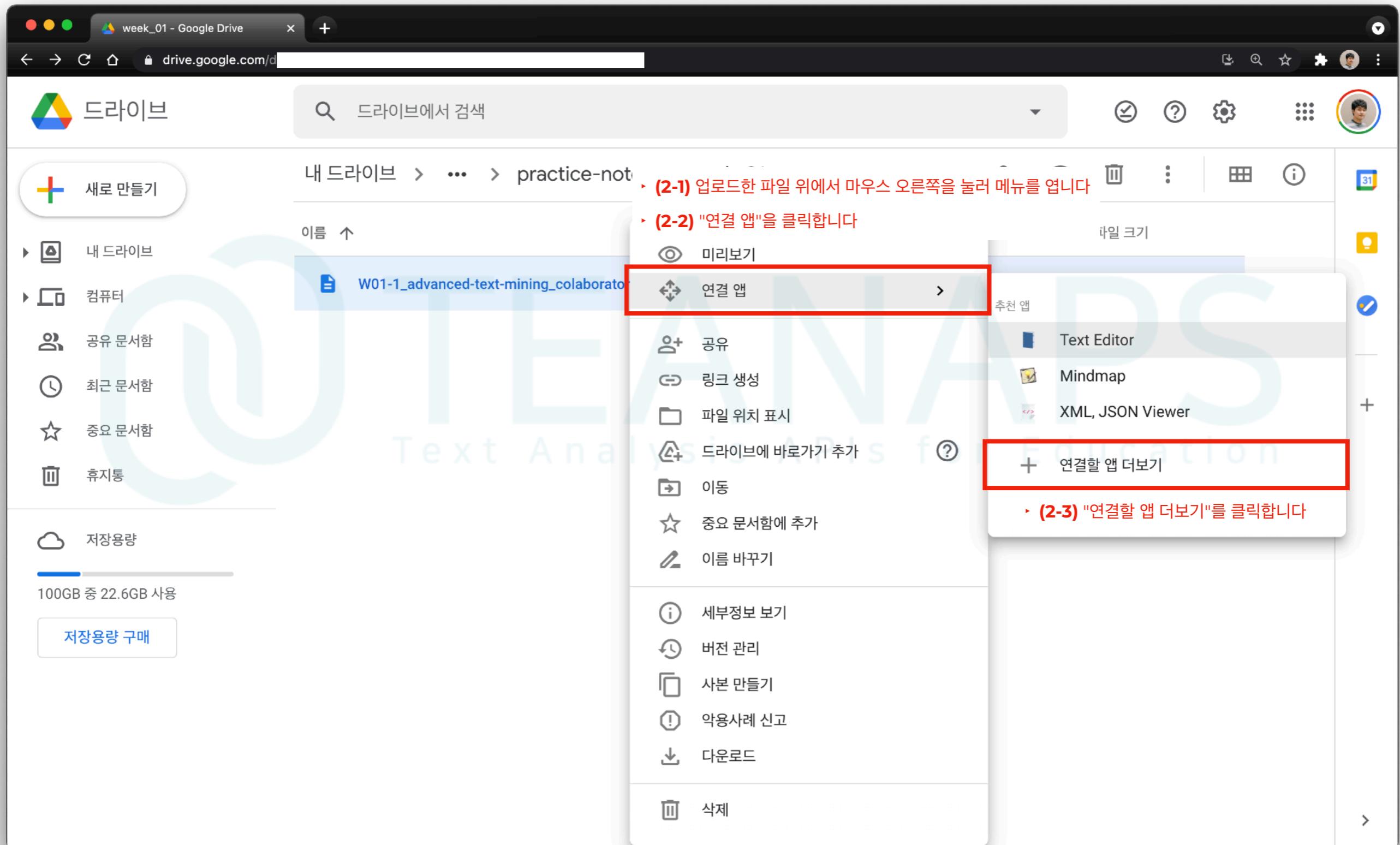
Python with Google Colab



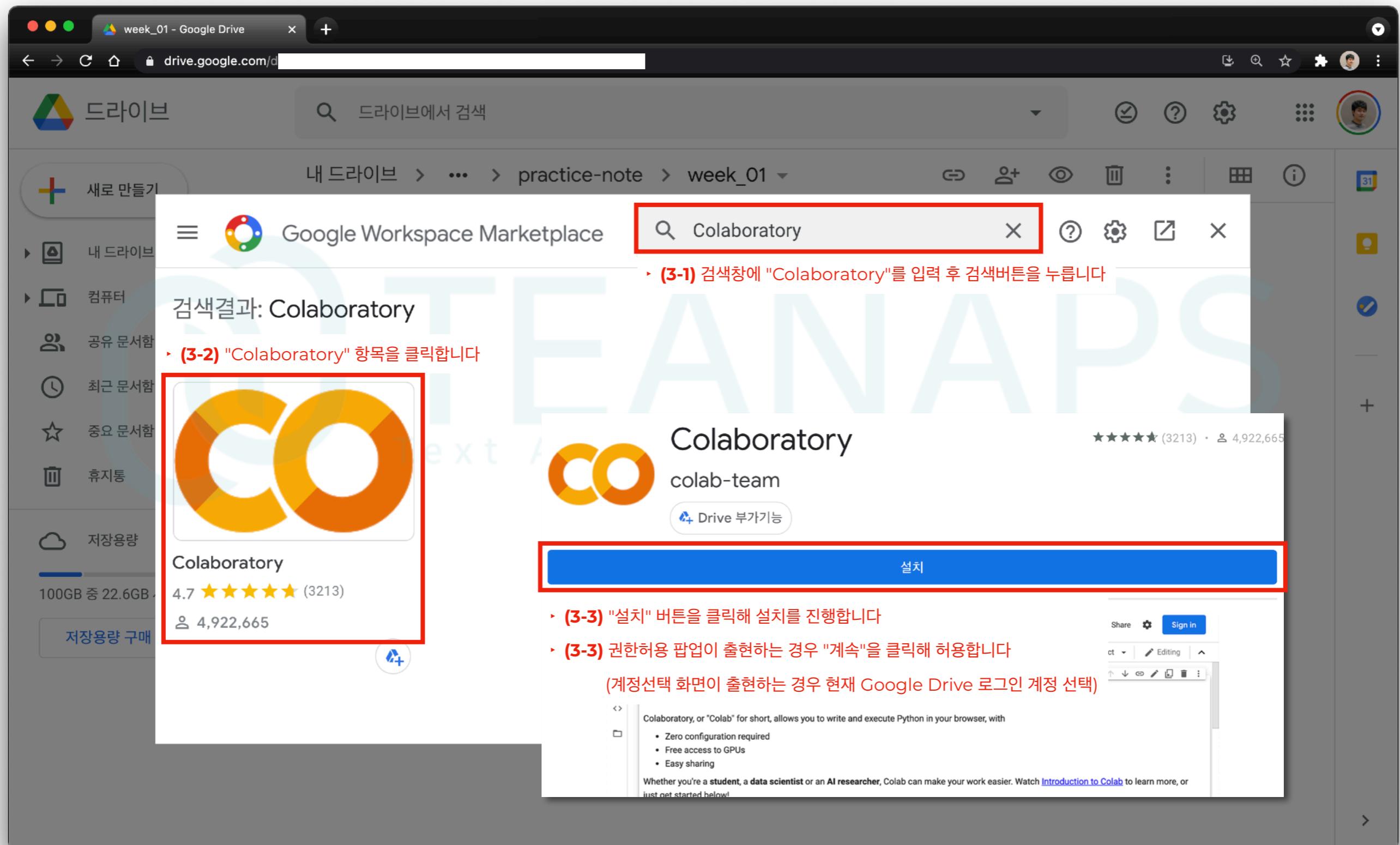
Python with Google Colab



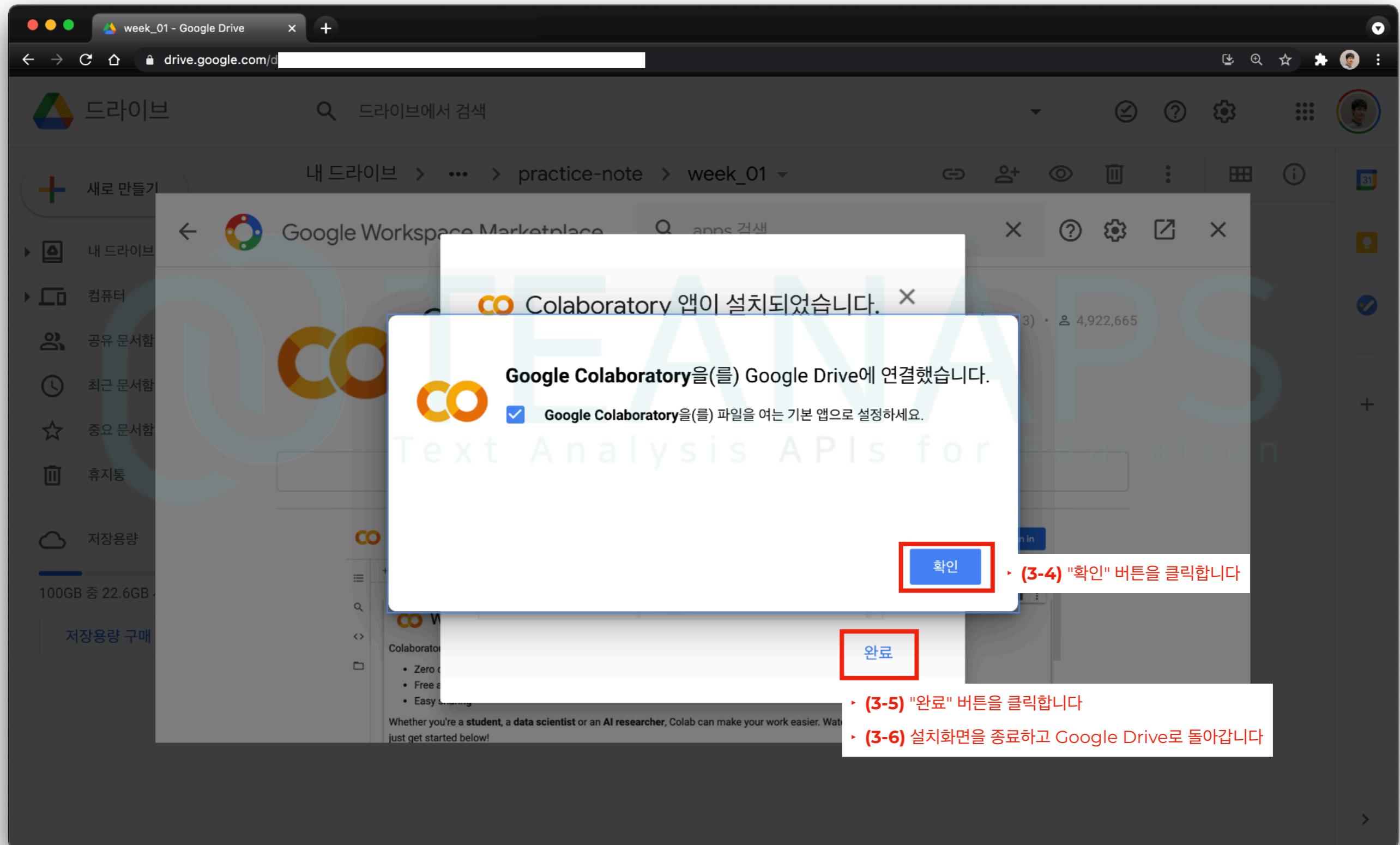
Python with Google Colab



Python with Google Colab



Python with Google Colab



Python with Google Colab

The screenshot shows a Google Drive interface with a Jupyter Notebook file named "W01-1_advanced-text-mining_colaboratory.ipynb" selected. A context menu is open over the file, with several items highlighted by red boxes:

- (4-1) 업로드한 파일 위에서 마우스 오른쪽을 눌러 메뉴를 엽니다
- (4-2) "연결 앱"을 클릭합니다
- (4-3) "Google Colaboratory"를 클릭합니다
- (4-4) Google Colaboratory 환경에서 Jupyter Notebook 파일을 동일하게 활용 가능합니다

The menu items include:

- 미리보기
- 연결 앱 (highlighted)
- Google Colaboratory (highlighted)
- 공유
- 링크 생성
- 파일 위치 표시
- 드라이브에 바로가기 추가
- 이동
- 중요 문서함에 추가
- 이름 바꾸기
- 세부정보 보기
- 버전 관리
- 사본 만들기
- 악용사례 신고
- 다운로드
- 삭제

In the bottom-left corner, there is a preview window showing the content of the Jupyter Notebook, which includes sections like ADVANCED TEXT MINING and WEEK 01-1. The preview window also shows some Python code and its output.

Google Drive 연동

The screenshot shows a Google Colab notebook titled "W02-3_advanced-text-mining_python-conditional&loop.ipynb". The sidebar on the left has icons for file, search, and a folder, with the folder icon highlighted by a red box. A large red box highlights the "Mount Google Drive" button in the toolbar. The main area shows Python code for reading files and printing line numbers. A sidebar panel contains assignment instructions:

- (1-1) 폴더모양 아이콘을 클릭합니다
- (1-2) Google Drive 아이콘을 클릭합니다
- (1-3) 셀을 실행합니다 (재생버튼 or Shift+Enter)
- (1-4) 링크를 클릭해 Google 계정 인증을 진행합니다
- (1-5) 인증코드를 입력하고 엔터를 누릅니다
- (1-5) 인증결과 코드값을 복사합니다

The code cell contains:
1 from google.colab import drive
2 drive.mount('/content/drive')
Go to this URL in a browser: https://accounts.google.com/o/oauth2/auth?client_id=947318989803-6bn6qk8qdgf4n4g3pfee649
Enter your authorization code: _____

A separate window shows the Google OAuth login page with the authorization code: 4/1AYOe-966pihrNoUglxJslQXgOvy60qZA66eS9qp6Yiy-

At the bottom, it says "실행 중(12초) Cell > mount() > raw_input() > _input_request() > recv() > recv_multipart()".

Google Drive 연동

The screenshot shows a Google Colab interface. At the top, there are two tabs: "W02-3_advanced-text-mining.ipynb" and "Success code=4/1AY0e-g5-gU". The main area displays a Python notebook titled "W02-3_advanced-text-mining_python-conditional&loop.ipynb". The notebook contains the following code:`[] 5 elif i == 7:
6 break
7 print(i, end=" ")
0 1 2 3 4 6`

Below the code, there is a section titled "Assignment 01. 소설에서 가장 많이 쓰이는 단어 알아보기" with the following bullet points:

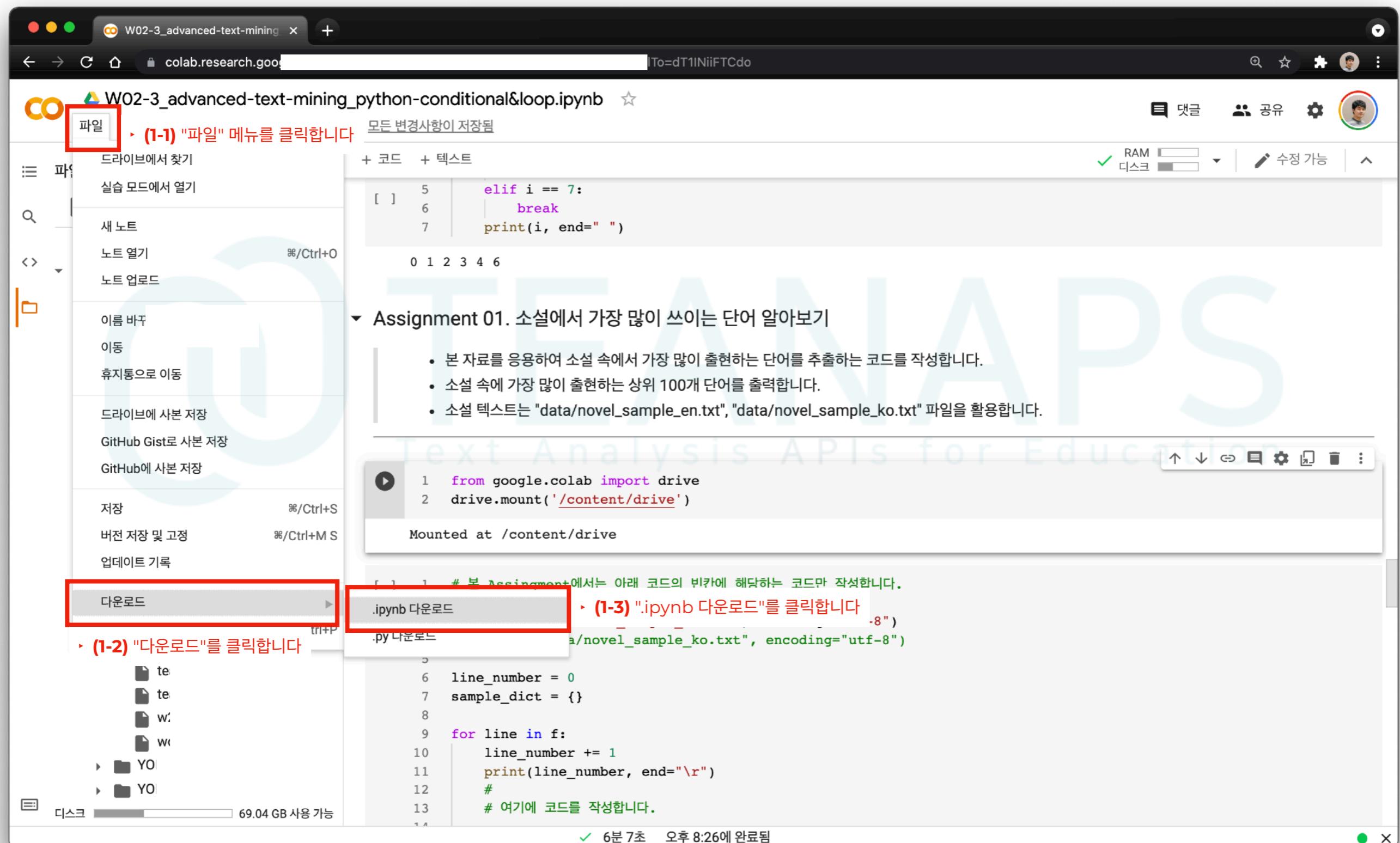
- 본 자료를 응용하여 소설 속에서 가장 많이 출현하는 단어를 추출하는 코드를 작성합니다.
- 소설 속에 가장 많이 출현하는 상위 100개 단어를 출력합니다.
- 소설 텍스트는 "data/novel_sample_en.txt", "data/novel_sample_ko.txt" 파일을 활용합니다.

On the left side, there is a file browser showing a directory structure under "MyDrive". A red box highlights the "MyDrive" folder icon and the "data_to_file" folder within it. Another red box highlights the "경로 복사" (Copy Path) option in the context menu for the "data_to_file" folder. The file browser also shows a mounted drive at "/content/drive" with the following code:`# 본 Assingment에서는 아래 코드의 빈칸에 해당하는 코드만 작성합니다.
#f = open("data/novel_sample_en.txt", encoding="utf-8")
#f = open("data/novel_sample_ko.txt", encoding="utf-8")

여기에 코드를 작성합니다.`

At the bottom of the interface, a status bar indicates "6분 7초 오후 8:26에 완료됨".

Google Colab 파일 다운로드 (.ipynb)



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