

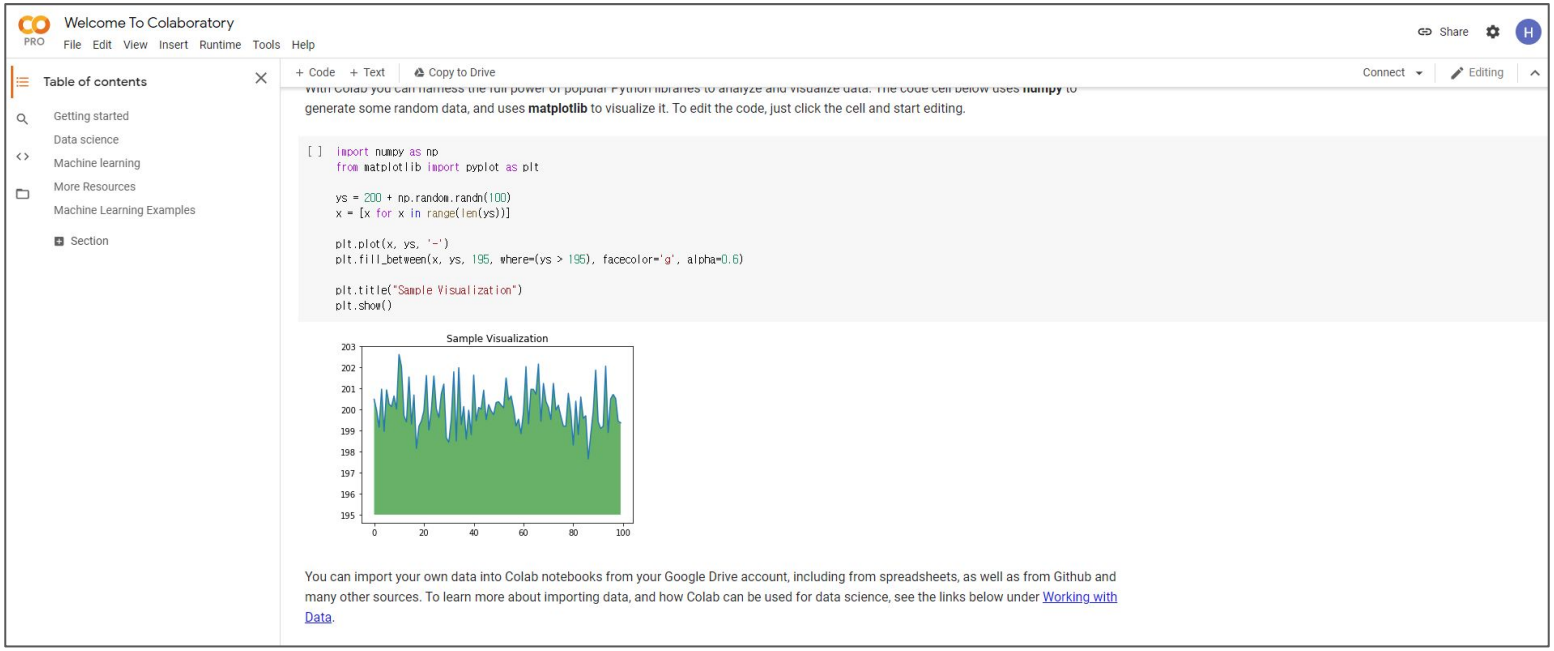

# Colab Introduction

이영기
서울대학교 컴퓨터공학부

SEOUL NATIONAL UNIVERSITY

# Colab

- Colab (Colaboratory) allows you to write and execute Python in your browser.
- Zero configuration is required.
- Free access to GPUs is provided.
- Easy sharing is supported.

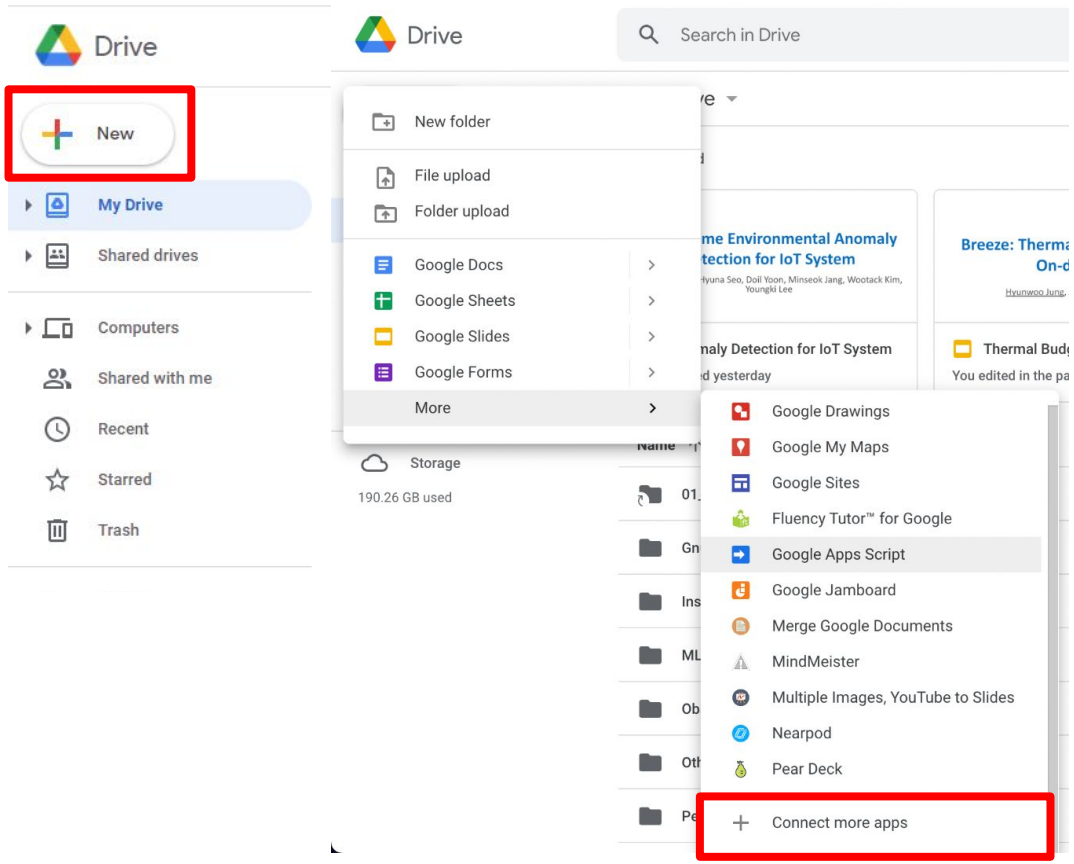


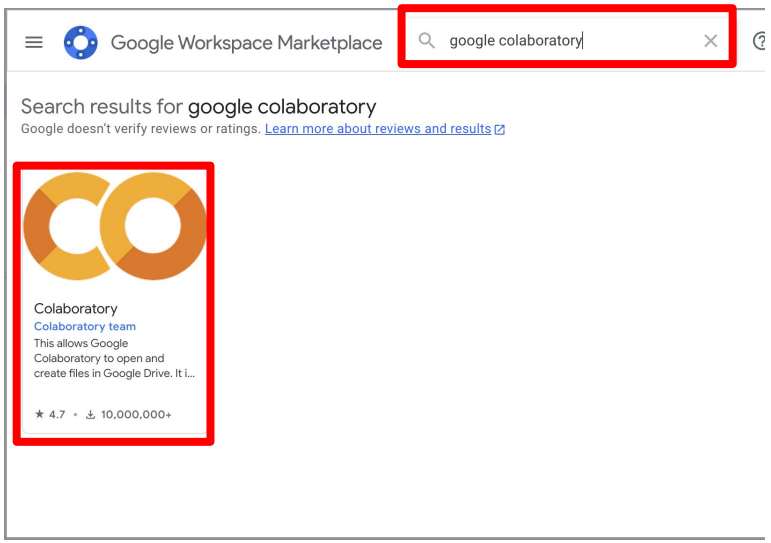
# Prerequisites

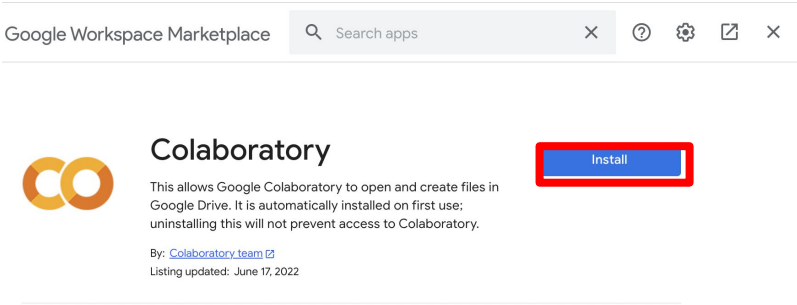
- Google account
- Google Drive free space to store the codes (~100MB)
- Familiar with Python and Jupyter Notebook

# Connect to Google Collaboratory (1/2)

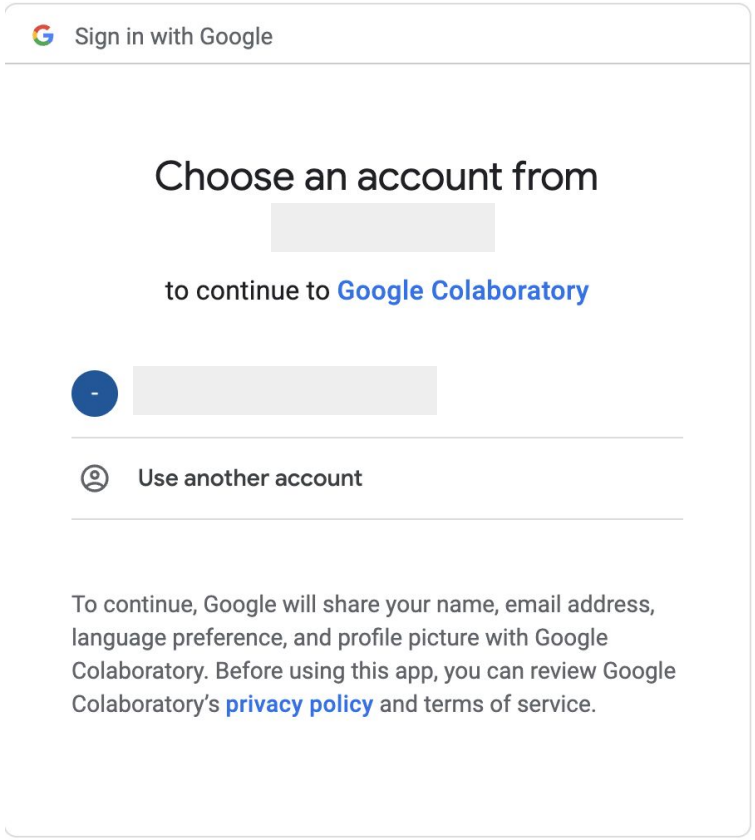
- Connect Google Collaboratory to Google Drive

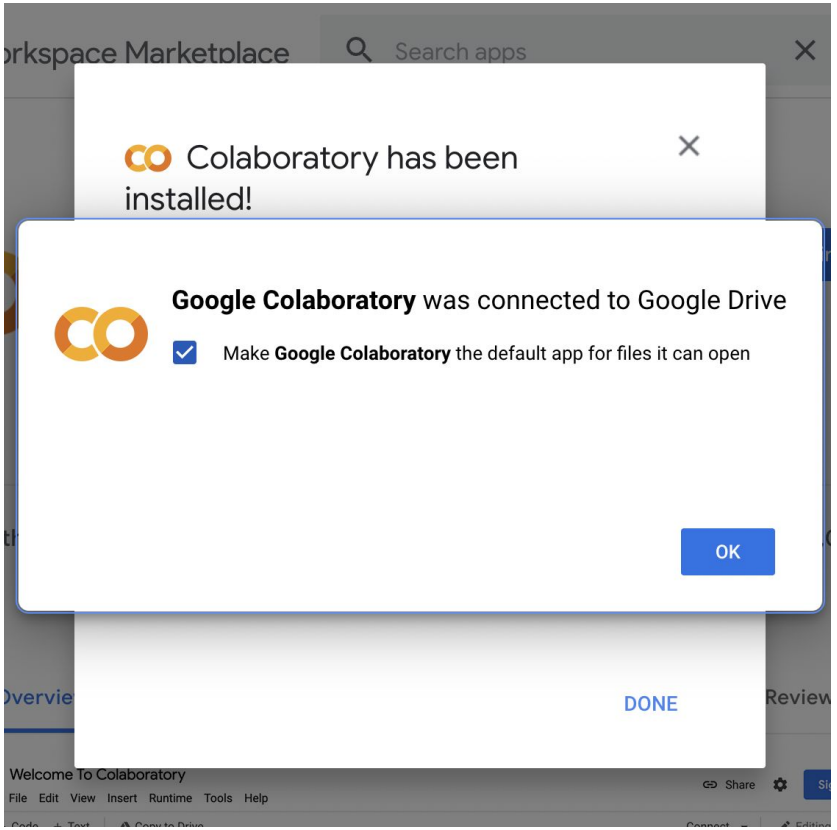


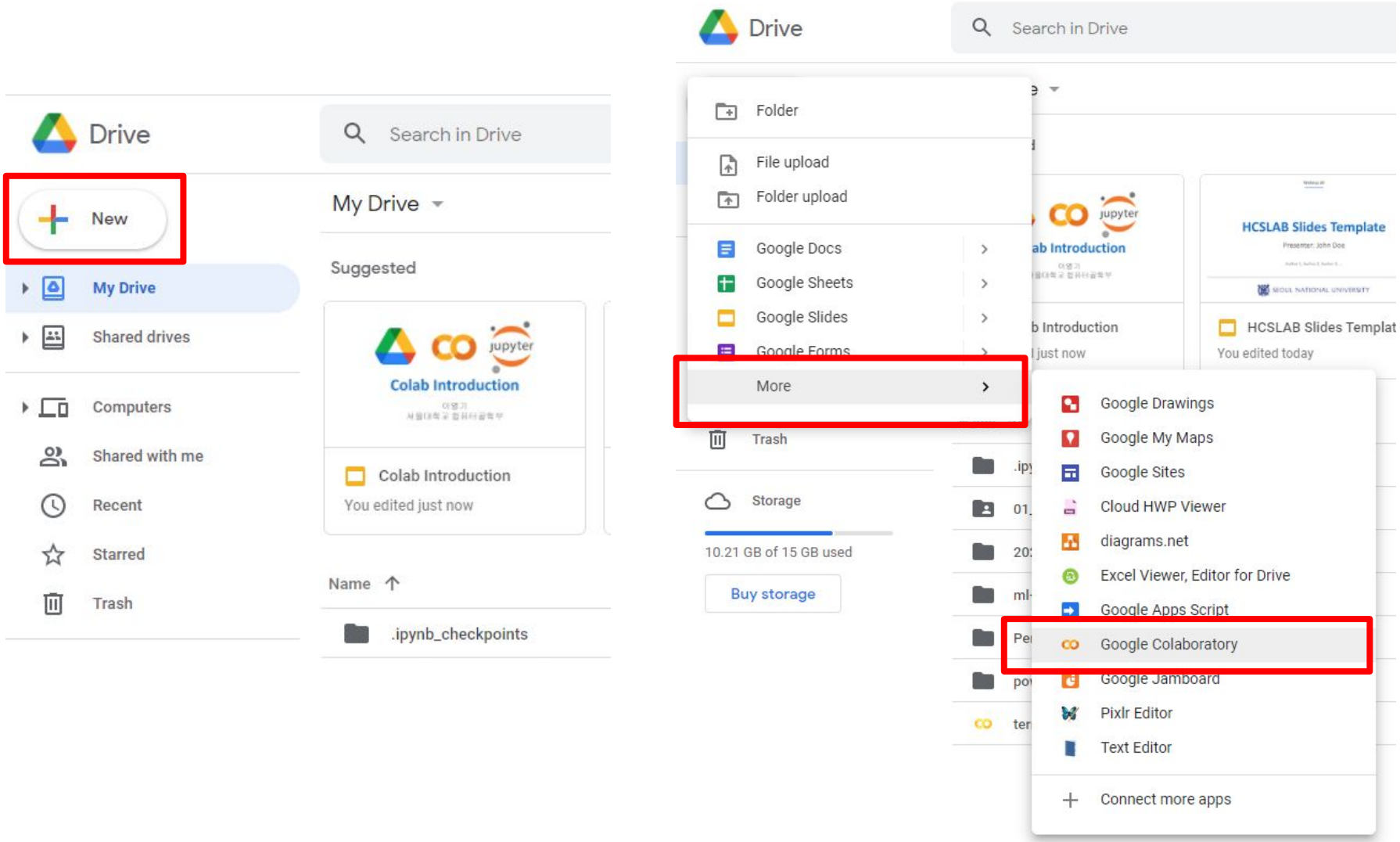
# Connect to Google Collaboratory (2/2)



# Create a new Colab notebook

- Create a new Collab notebook



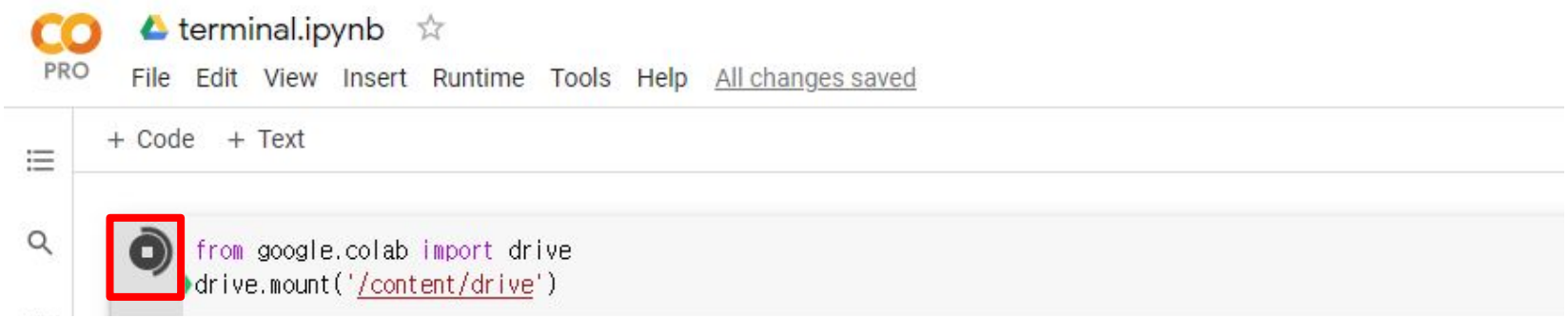
# Import Git Repository into Colab (1/7)

- Practice repository URL:
  https://github.com/snuhcs/time-series-2022

# Import Git Repository into Colab (2/7)

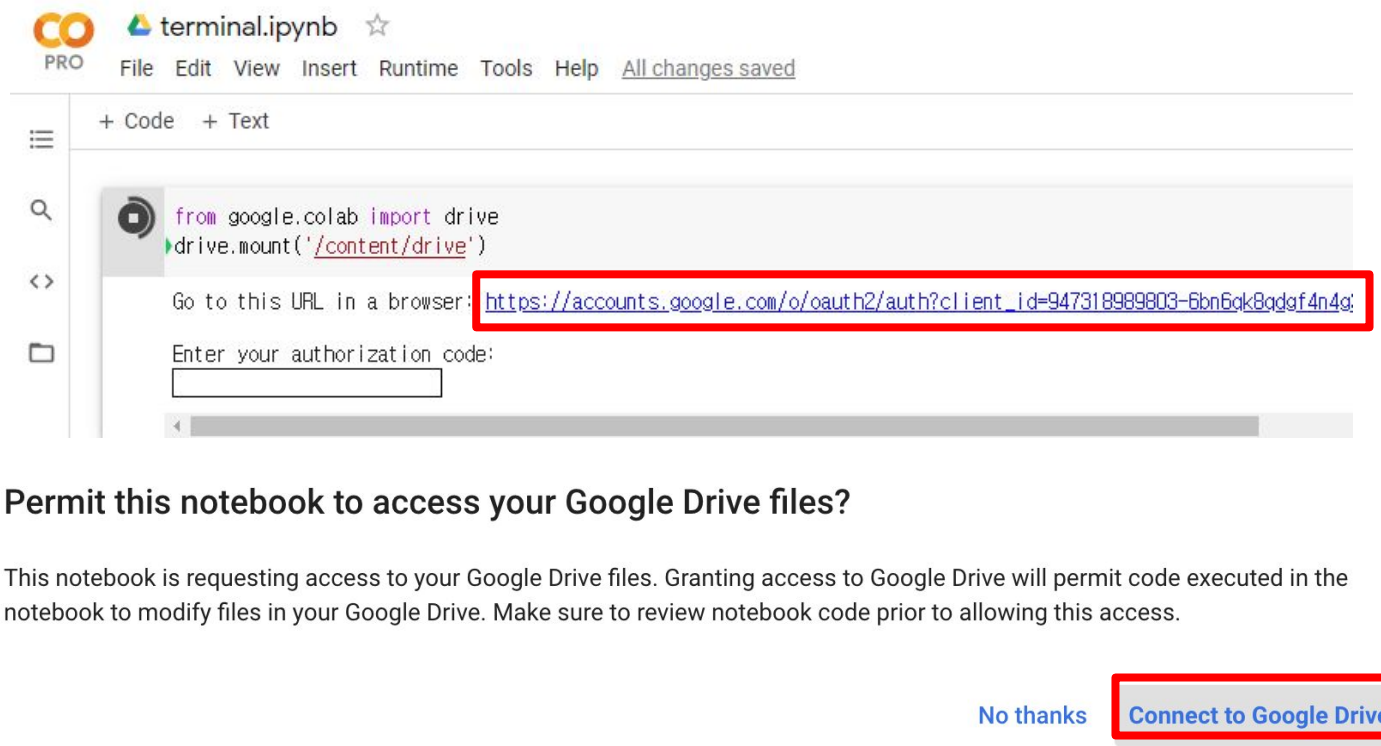
1. Create a new Colab notebook.
2. Rename the notebook as "terminal.ipynb".
3. Execute the following code:

```
from google.colab import drive
drive.mount('/content/drive')
```



# Import Git Repository into Colab (3/7)

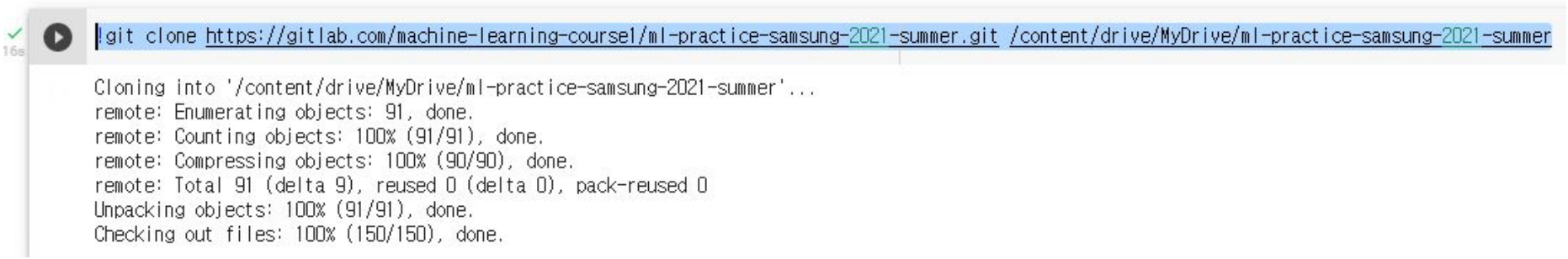
4. You might see an URL or “Connect to Google Drive” button. Follow the appearing descriptions.
   If you see “Drive already mounted” message, you can pass the next slide.



# Import Git Repository into Colab (4/7)

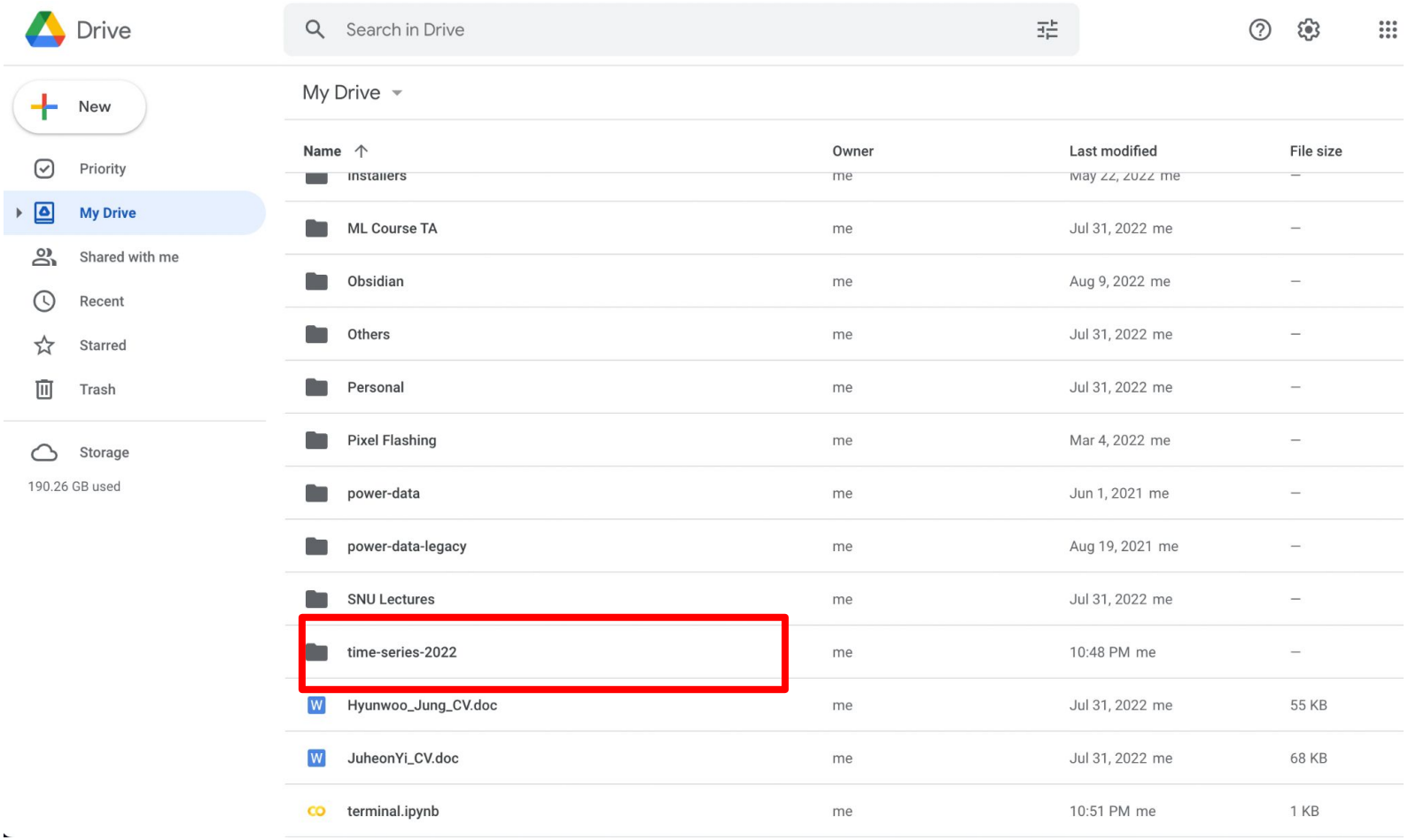
5. Execute the following command:

```
!git clone https://github.com/snuhcs/time-series-2022.git
/content/drive/MyDrive/time-series-2022
```



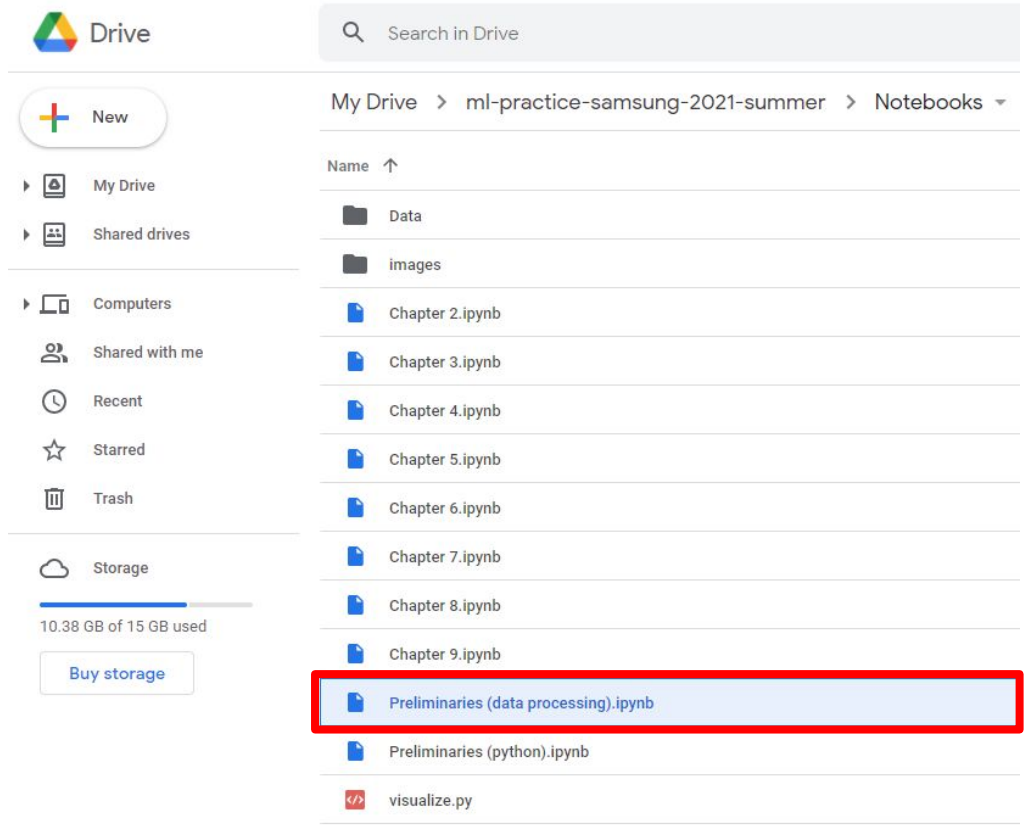
# Import Git Repository into Colab (5/7)

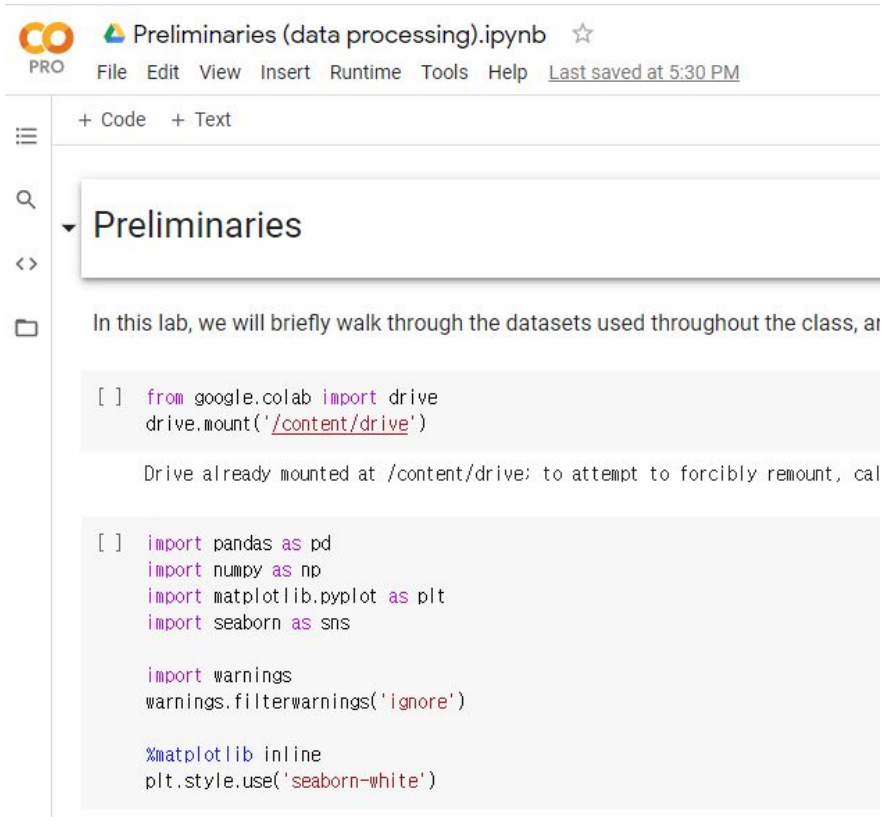
6. "time-series-2022" directory is imported into your Google Drive Storage.



# Import Git Repository into Colab (6/7)

7. Open "time-series-2022/Notebooks/Preliminaries (data processing).ipynb"



# Update the Repository

- Execute the following command at the beginning of each class.

  ☠️Warning☠️: This command resets all codes you have written in the previous classes. Backup your codes if you want before run the command.

```
!cd /content/drive/MyDrive/time-series-2022; git reset --hard master; git pull
```