

# Google Colab guide

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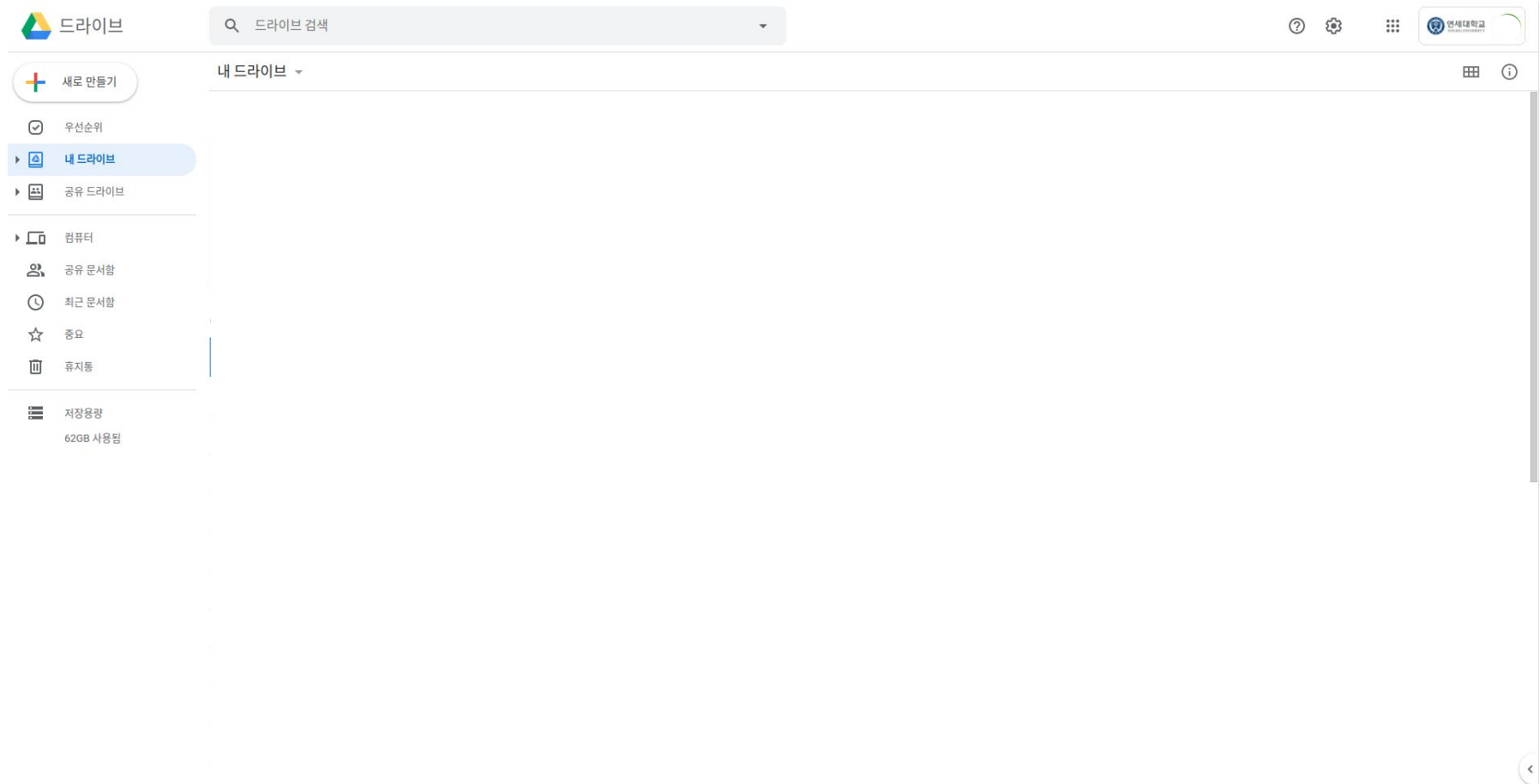


COMPUTER VISION LAB

## 2 Setting up your google drive

### 1. Sign-in to “google drive” with your “Yonsei Account”

- You can use your own google account, but this guide is based on Yonsei account

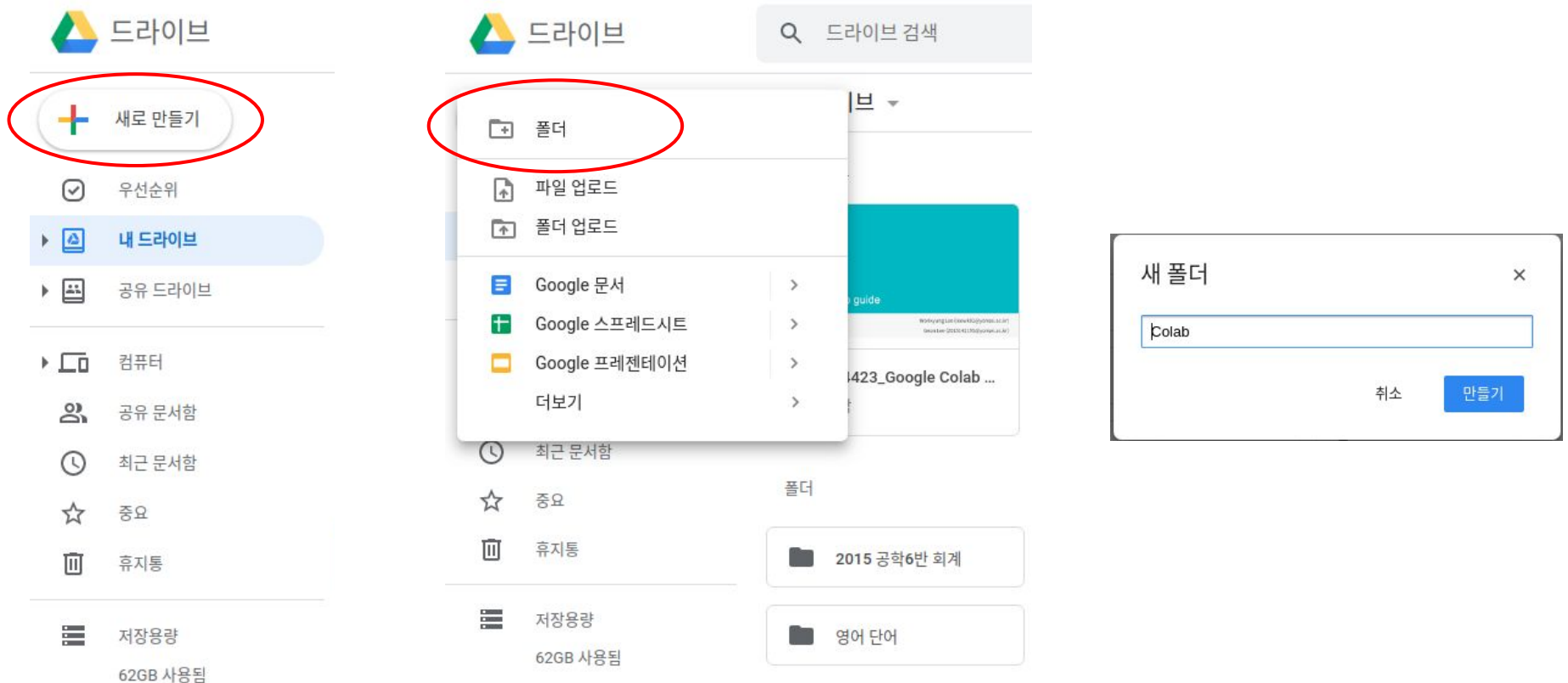


# 3

## Setting up your google drive

### 2. Add New Folder

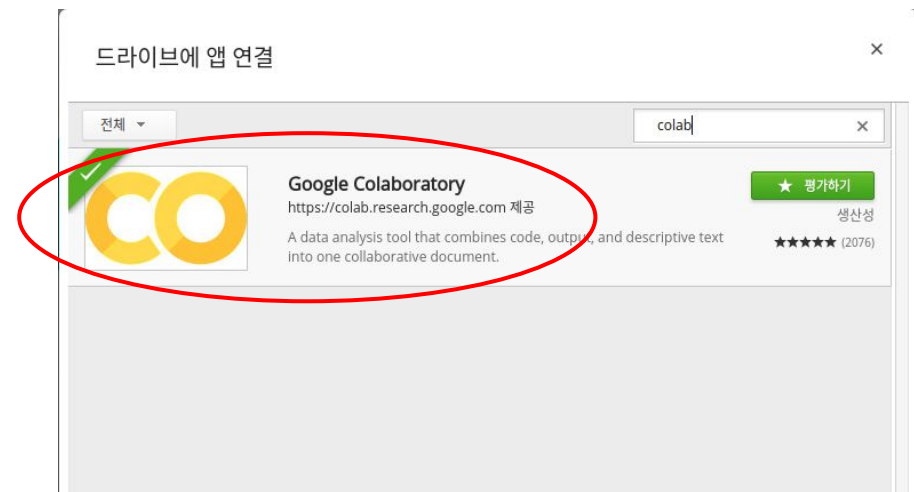
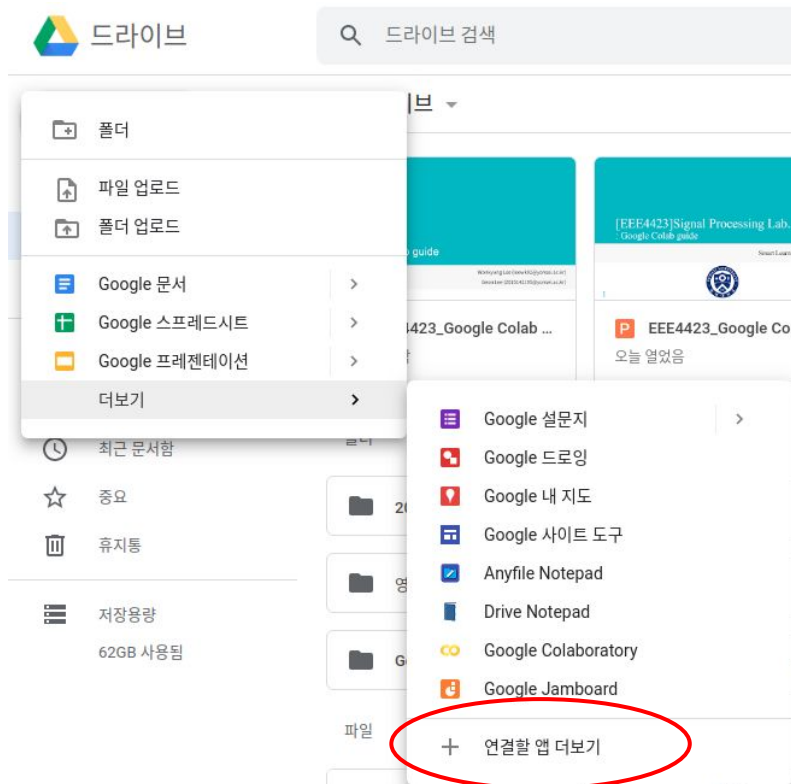
- Click “New”
- Create a new folder (english name w/o any other symbols, i.g. Colab, is recommended)



# Setting up your google drive

## 3. Add “Colaboratory” App

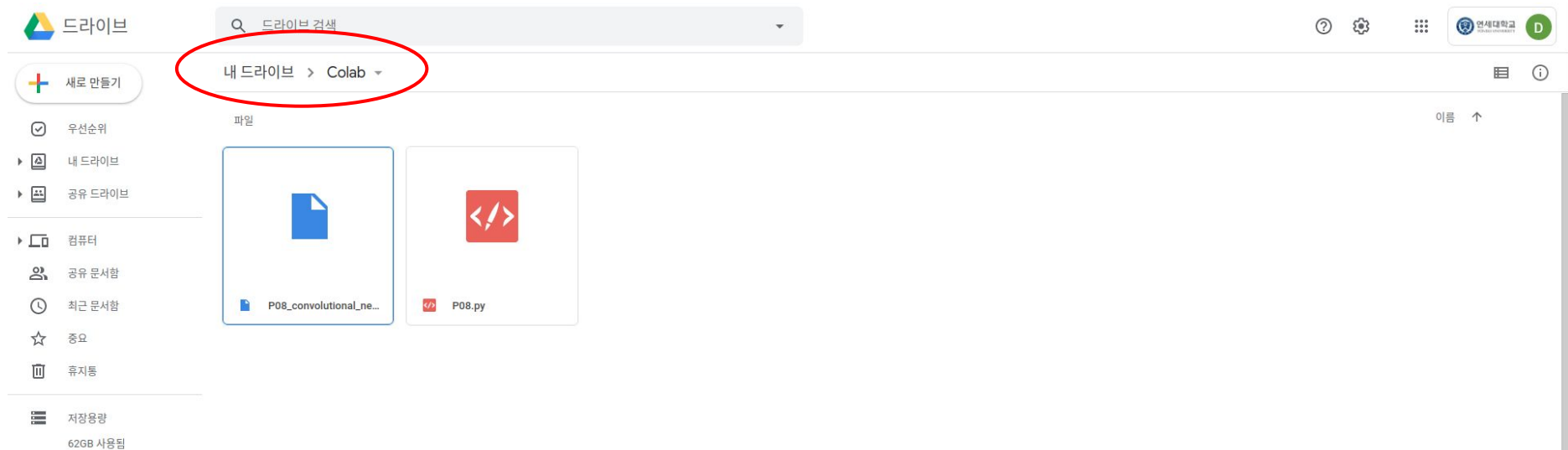
- Click “New”
- Click “Connect more apps”
- Search “colab” and connect “Google Colaboratory” app into your google drive



# Connecting .ipynb file with Google Colab

## 1. Upload the assignment files into the directory

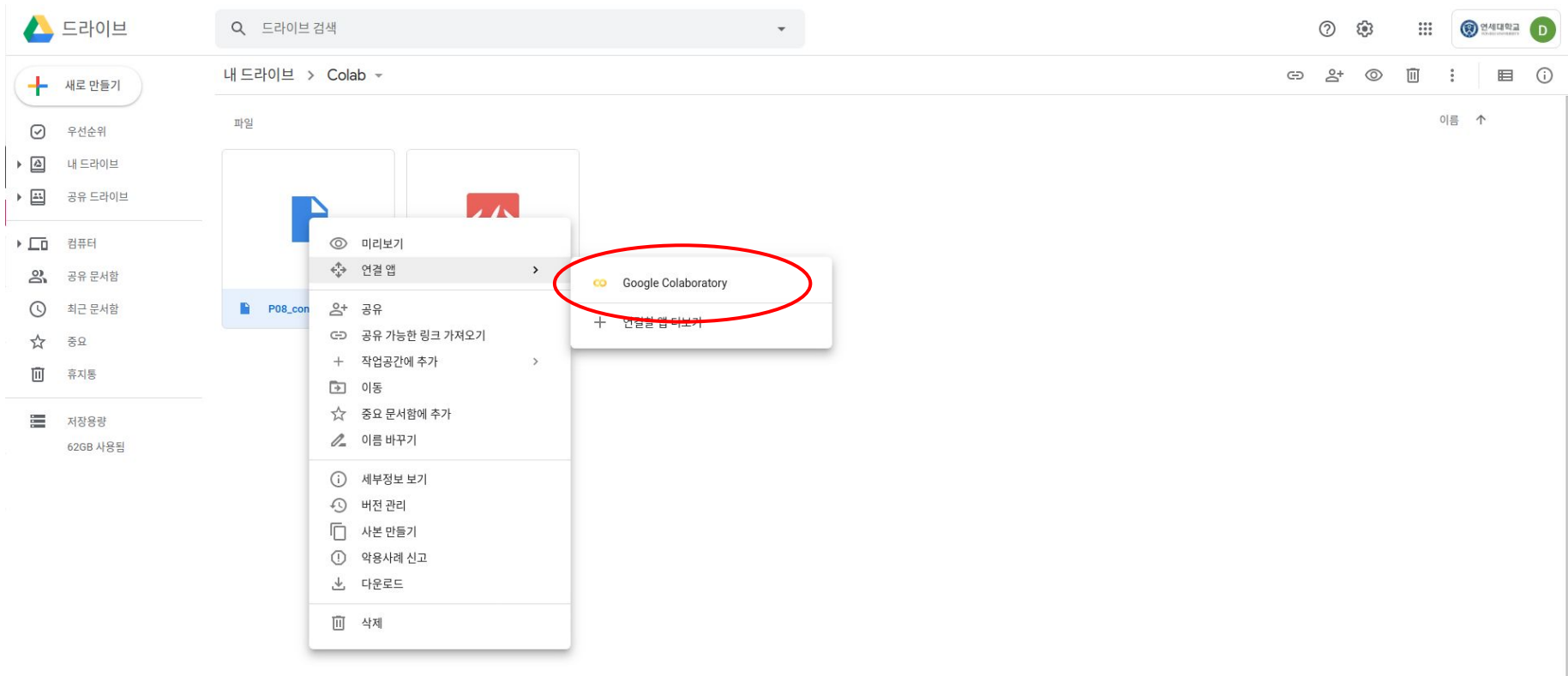
- Move to the directory that you already made, in our case “Colab”
- Upload the assignment files



# Connecting .ipynb file with Google Colab

## 2. Connect “.ipynb” to Google Colab

- Click right mouse button on the “P08\_convolutional\_neural\_network.ipynb” files
- Click “Connecting Apps”
- Choose “Google Colaboratory”




# Mount google drive for external files

## 1. Run Mount Code

- To import “P08.py”, you should mount your google drive into Colab
- Run the cell shown below with red box

(It is already included in your assignment files, so you don't need to rewrite the codes)



```
[ ] 1 %load_ext autoreload
    2 %autoreload 2
    3
    4 import datetime
    5 print("This code is written at " + str(datetime.datetime.now()))
```

This code is written at 2019-12-04 01:50:59.933890

```
[ ] 1 from google.colab import drive
    2 drive.mount('/content/drive')
```

```
[ ] 1 cd /content/drive/My Drive/Colab Notebooks/P08
```

# Mount google drive for external files

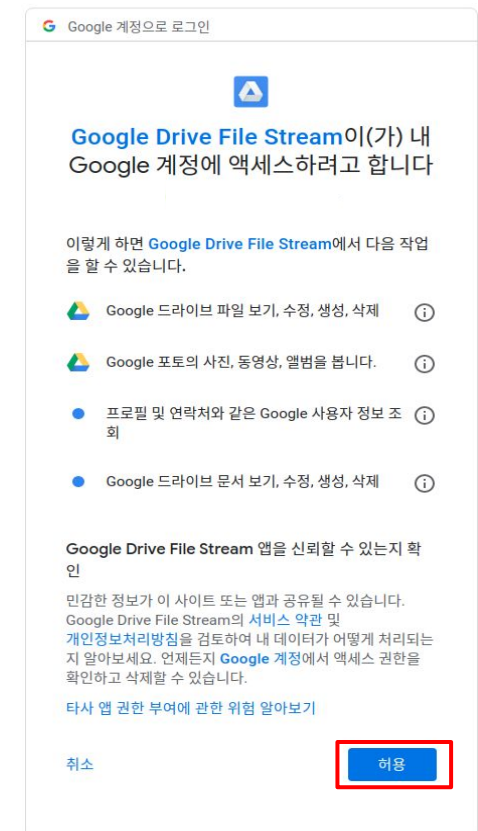
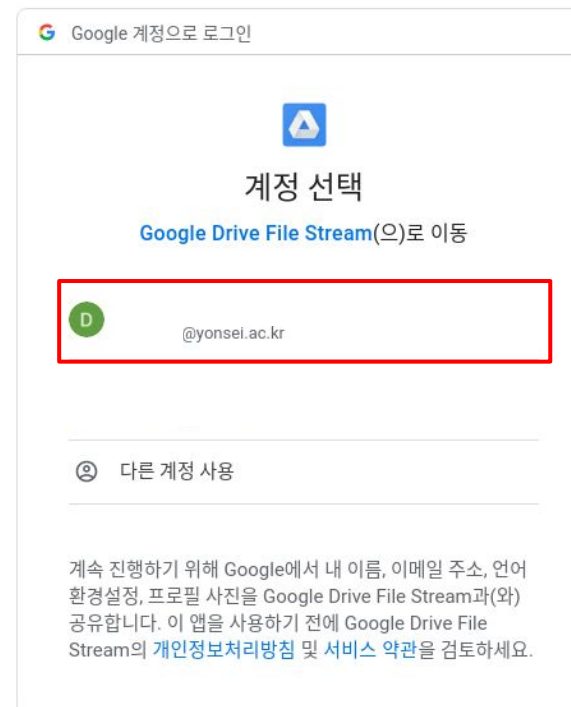
## 2. Verify your account

- Click on the hyperlink to get the authorization code
- When a new browser opens, choose your google drive account
- Click “allow” button

```
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](https://accounts.google.com/o/oauth2/auth?client_id)

Enter your authorization code:







# Mount google drive for external files

## 3. Enter the authorization code

- After clicking “allow” button, you can get the authorization code
- Copy the code and paste it into the blank in your assignment file(.ipynb) and press the enter

  
로그인

이 코드를 복사하여 애플리케이션으로 전환한 다음 붙여넣으세요.



```
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=947318989803-6b](https://accounts.google.com/o/oauth2/auth?client_id=947318989803-6b)

Enter your authorization code:

```
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=9](https://accounts.google.com/o/oauth2/auth?client_id=9)

Enter your authorization code:

# Mount google drive for external files

## 4. Run “change directory code”

- Run the cell boxed in red

(It is also already included in your assignment files, so you don't need to rewrite the codes)

- **Be careful** with the name of the directory (we give the code with “Colab” in default)

```
[2] 1 from google.colab import drive
     2 drive.mount('/content/drive')
```

➞ Go to this URL in a browser: <https://accounts.google.com/ConnectApp?app=colab>

Enter your authorization code:

.....

Mounted at /content/drive

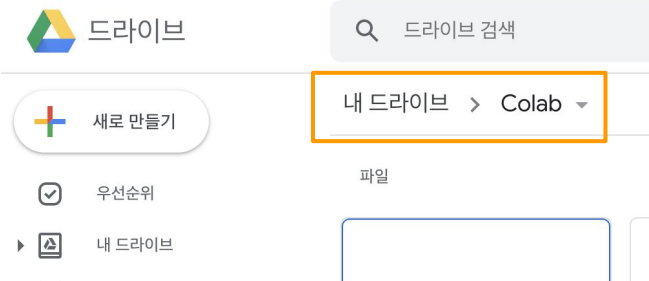
```
[3] 1 cd /content/drive/My Drive/Colab
```

➞ /content/drive/My Drive/Colab

cd /content/drive/My Drive/Colab

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

cd /content/drive/My Drive/Colab



# Mount google drive for external files

- + ) If you fail to connect, please repeat the same process and check whether you miss something
  - check! the name of directory

```
[1] 1 cd /content/drive/My Drive/Colab
```

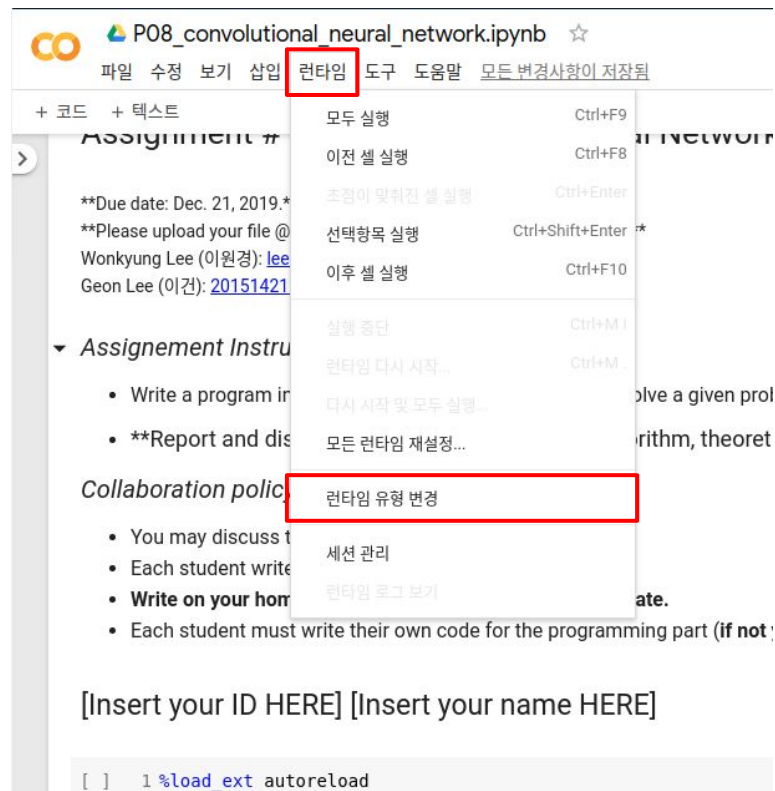
```
↳ [Errno 2] No such file or directory: '/content/drive/My Drive/Colab'  
/content
```

<failure case>

# 12 Setting up the Google Colab

## 1. Change Colab runtime setting to use GPU

- Click “Runtime” in menu
- Click “Change runtime type”
- Verify that both are “Python 3” and “GPU”, otherwise you cannot use GPU



### 노트 설정

런타임 유형  
Python 3

하드웨어 가속기  
GPU

☐ 이 노트를 저장할 때 코드 셀 출력 생략

취소

저장

## Other References

- <https://colab.research.google.com/notebooks/>