Google Colab Tutorial

Open the desired notebook on Colab

- Unzip the file and upload the whole directory to Google drive first

- https://colab.research.google.com/?hl=zh-tw

- If you are using Colab for the first time and find that you cannot open ipynb files, please refer to pages 3 and 4. If you are able to open it, you can skip pages 3 and 4.

You can try these two options to try to locate the files

Open the desired notebook on Colab

- Unzip the file and upload it to Google drive first (except ipynb)

- https://colab.research.google.com/?hl=zh-tw

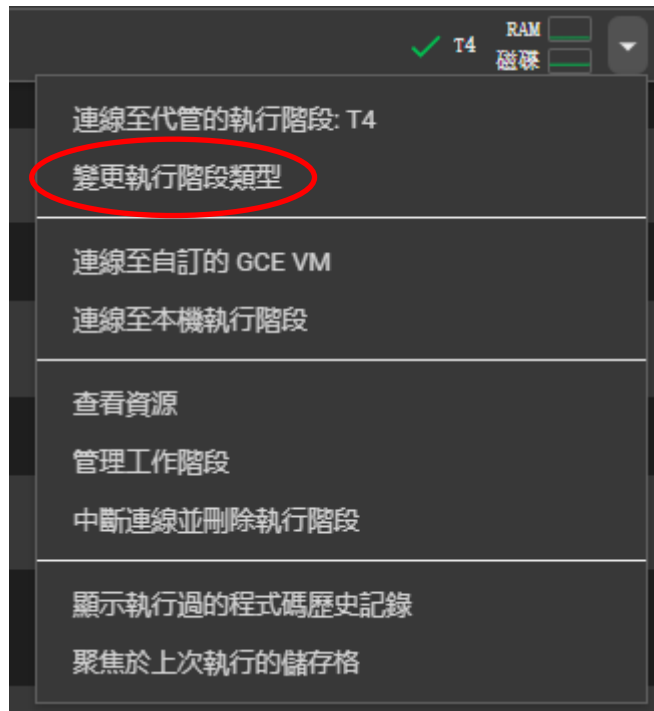- Upload your .ipynb file on colab website
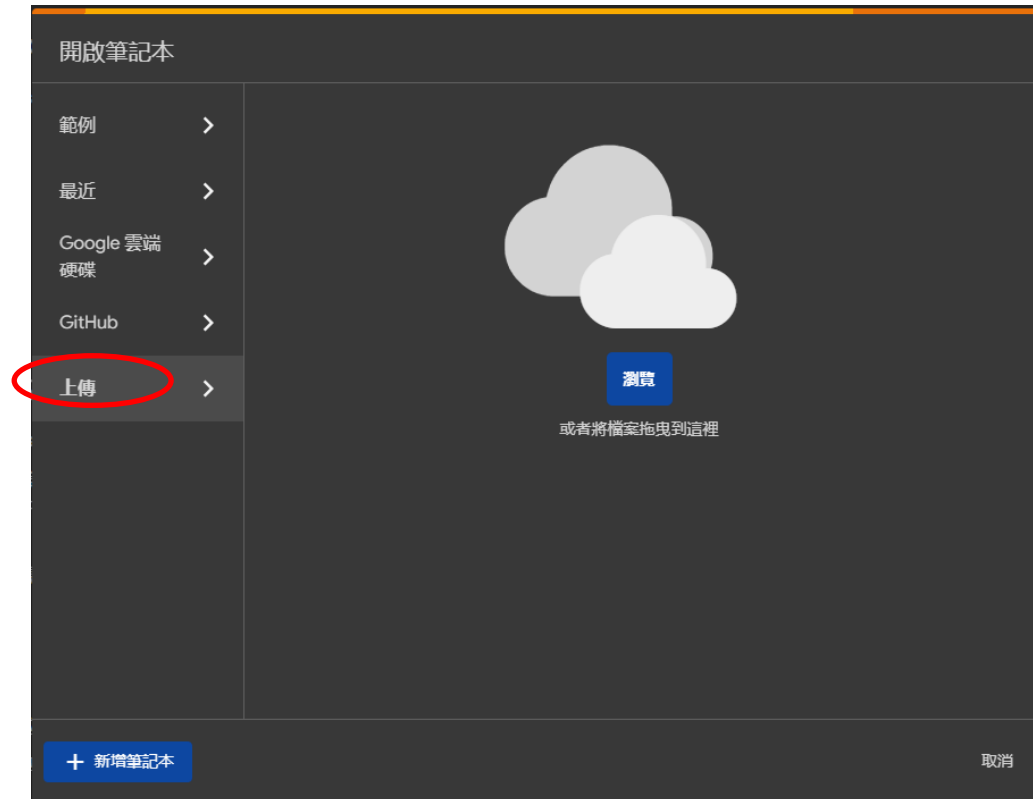
# Move ipynb to the same directory as other data

- After you upload your .ipynb file to the Colab website, you may find that your Google Drive has a directory called 'Colab Notebooks'.

- Move the ipynb to the same directory as the other data

VLSI Signal Processing Lab.
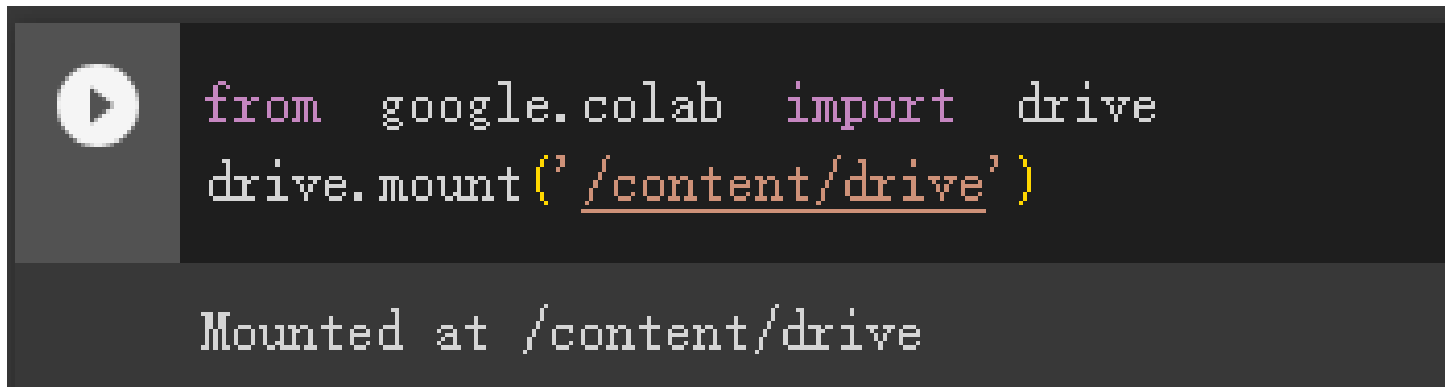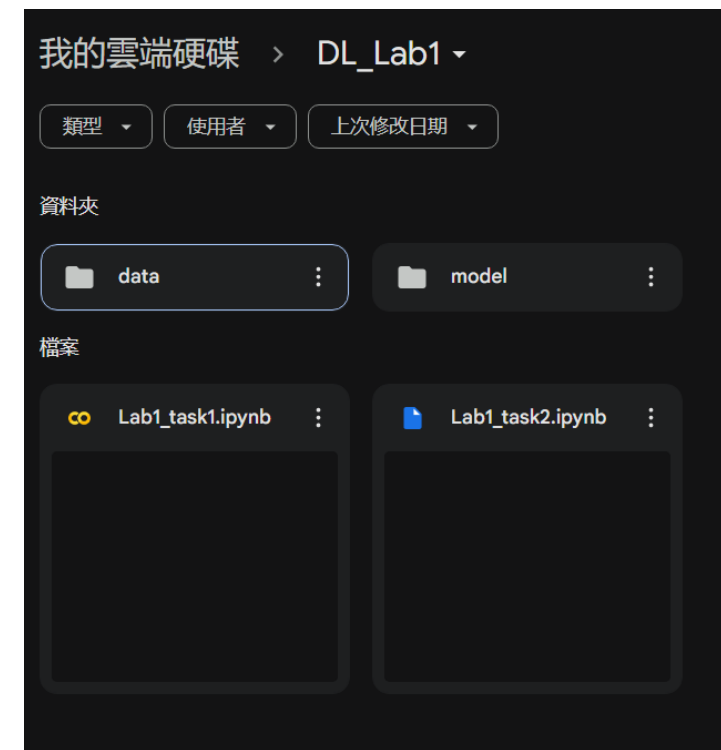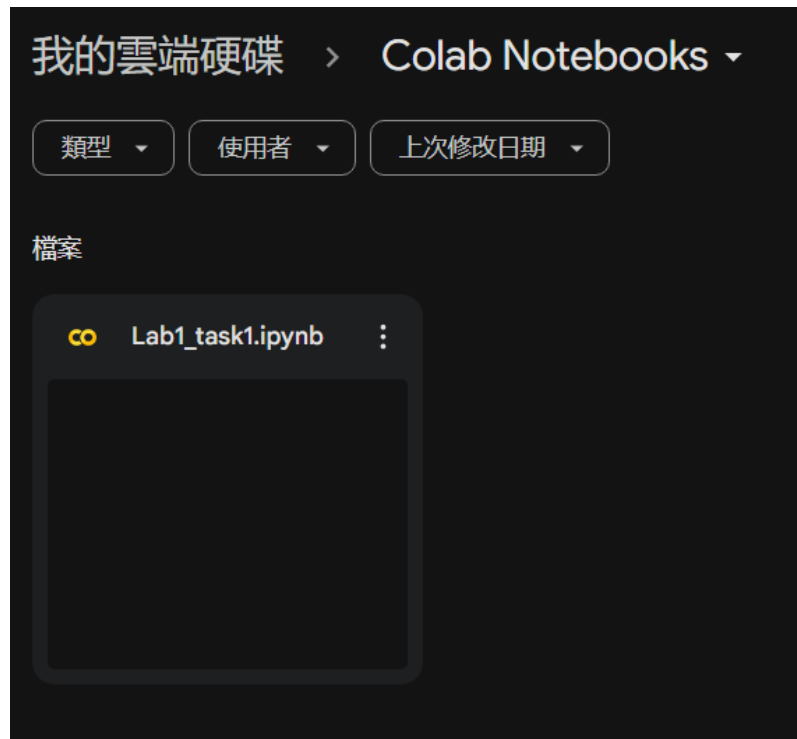
Connect to GPU resource

- You can check whether the connection to GPU is set.

```
import torch
torch.cuda.is_available()
```
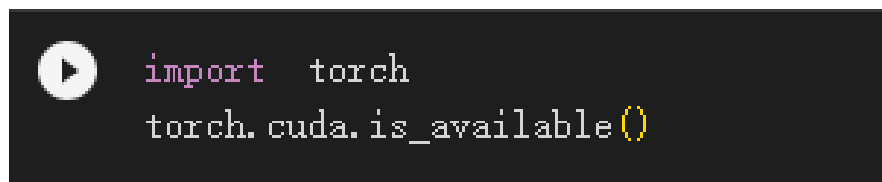
In Lab1, you can skip this step
You don't need to use GPU in Lab1
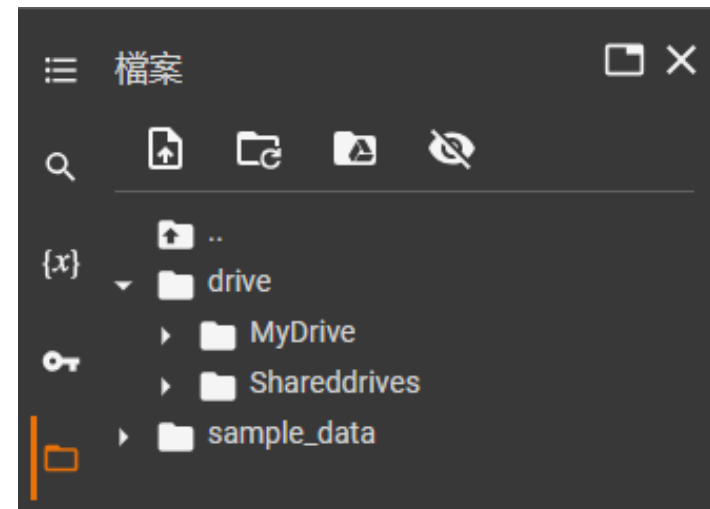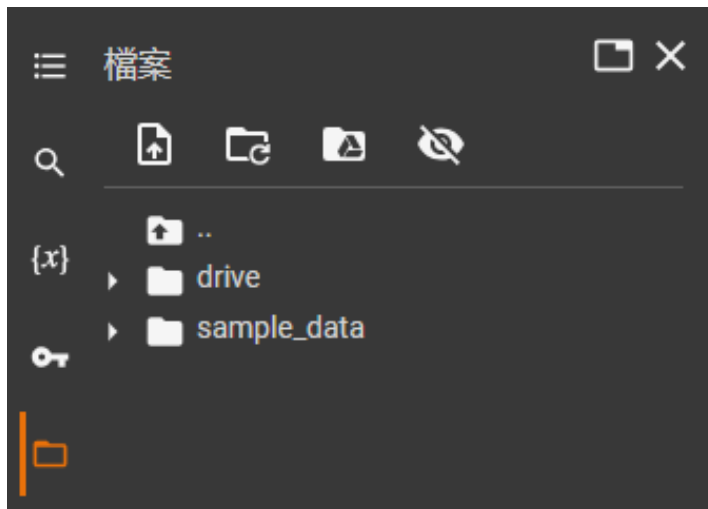
VLSI Signal Processing Lab.

Mount your google drive to notebook

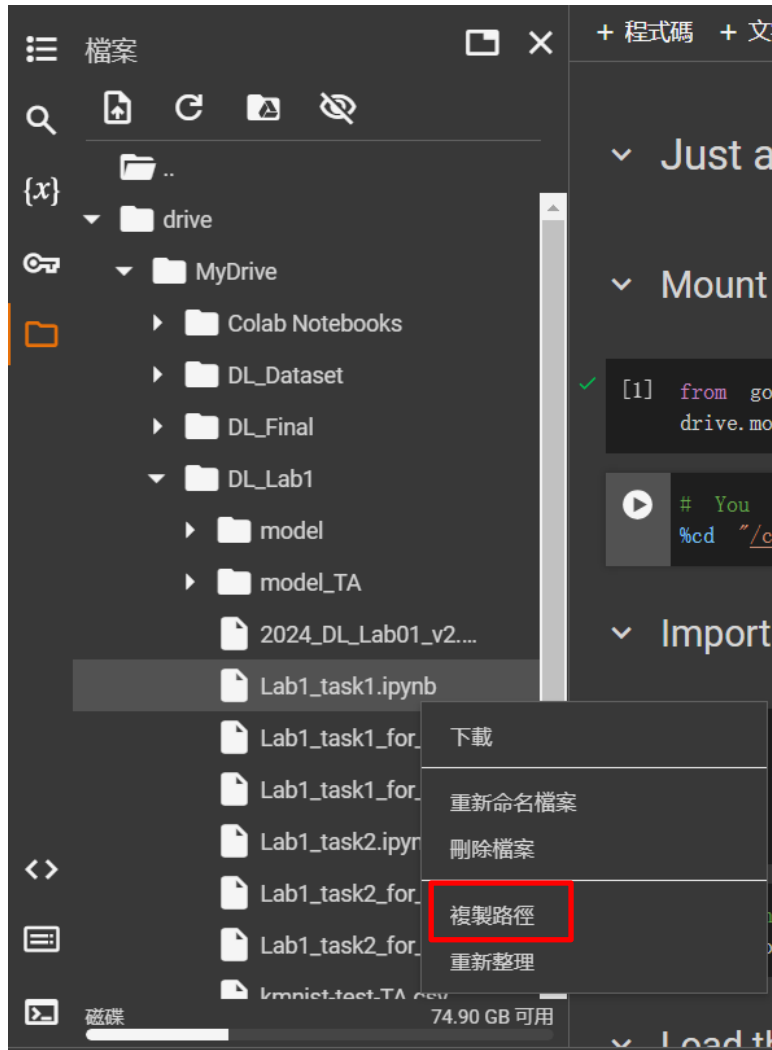- Insert the following code cell at the top of your code.

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

Mounted at /content/drive
```

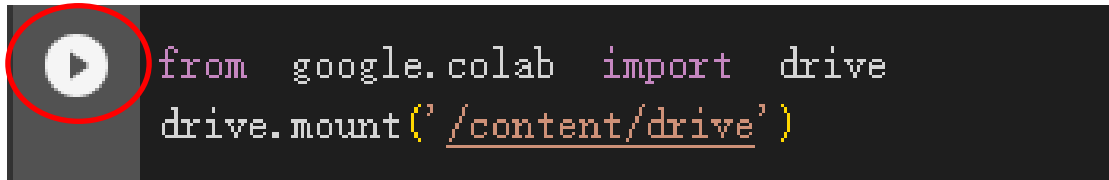# Go to the directory where the code and dataset is located

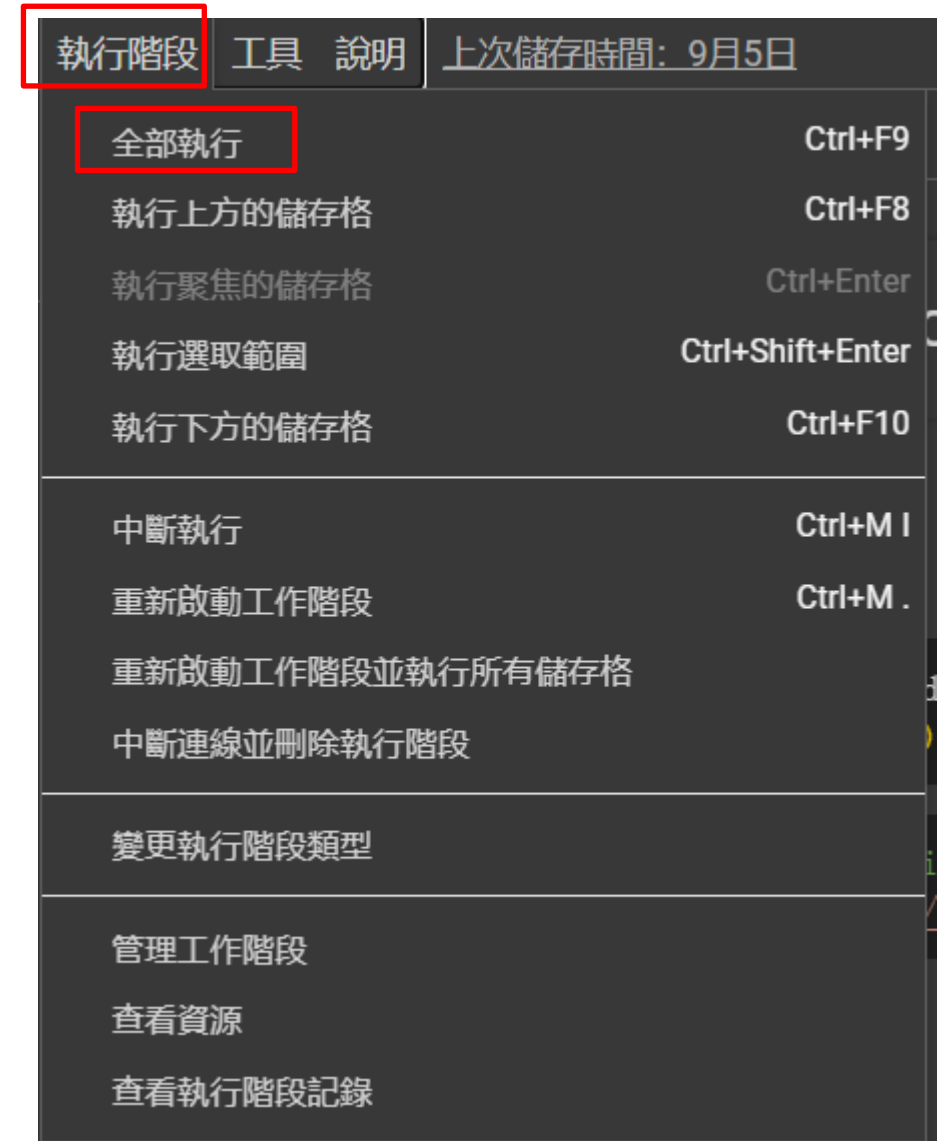- Either <w> or <w/o> "%" in front of the command of cd is allowed


```
%cd "/content/drive/MyDrive/DL_Lab1/"
```

Run your program

- It's similar to jupyter notebook
- You can run a specific cell

- You can also select "run all" to execute all cells

Reminder

- If you change any of the cells, you need to run the cell you edited before training in order to apply the new settings.

- If you edited layer.py and network.py, you should restart kernel (runtime)

- You can use Google Gemini to help you complete the code

Reference

- 常見問題
  - https://research.google.com/colaboratory/faq.html?hl=zh-cn
- 長時間執行
  - https://blog.csdn.net/weixin_42722532/article/details/127540028
  - https://blog.csdn.net/weixin_42166222/article/details/123229420