

任務一

建GitHub帳號

進入課程專案, 右上角fork按下去, 複製一個成為自己的專案

<https://github.com/ARG-NCTU/oop-python-nycu>

任務二

依照tutorial 1~3完成ssh key設定, 綁定裝置到帳號

<https://github.com/ARG-NCTU/oop-python-nycu/blob/main/tutorials/00-ssh-key.md>

*\$ cat ~/.ssh/key_name.pub, key_name.pub 是 id_ed25519.pub

確認方法:

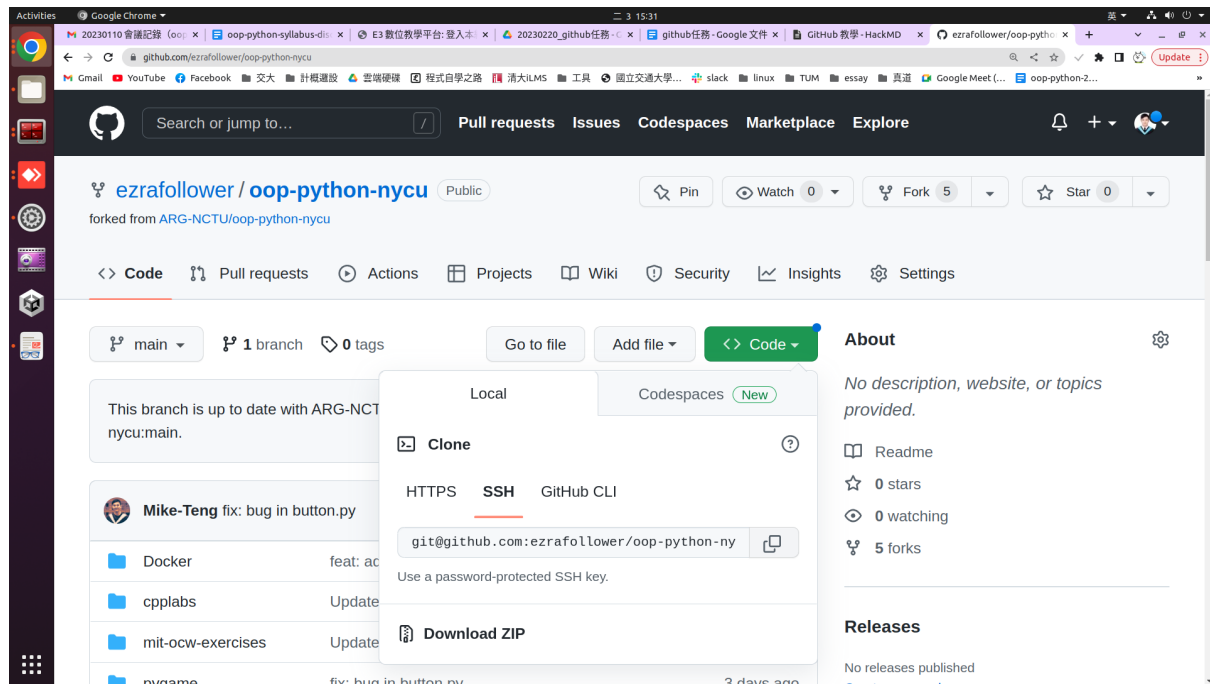
\$ cd ~/.ssh

\$ ls

找.pub檔

任務三

回到自己複製的專案, 點選clone按鈕並且複製SSHKEY_URL



在terminal輸入git clone SSHKEY_URL將專案clone到電腦本地端

```
chenyi@chenyi:~$ git clone git@github.com:ezrafollower/oop-python-nycu.git
Cloning into 'oop-python-nycu'...
remote: Enumerating objects: 256, done.
remote: Counting objects: 100% (65/65), done.
remote: Compressing objects: 100% (39/39), done.
remote: Total 256 (delta 32), reused 45 (delta 25), pack-reused 191
Receiving objects: 100% (256/256), 2.49 MiB | 1.61 MiB/s, done.
Resolving deltas: 100% (100/100), done.
chenyi@chenyi:~$ cd oop-python-nycu/
chenyi@chenyi:~/oop-python-nycu$ ls
colab_jupyter.sh  Docker  docker_run.sh  pygame  tutorials
cpplabs          docker_join.sh  mit-ocw-exercises  README.md
chenyi@chenyi:~/oop-python-nycu$
```

任務四

用git status 查目前狀況 (應該up to date)

寫一個myname.txt檔案, 內容是你的名字與學號

vim使用方法<https://vim.rtorr.com/>

再用git status 查目前狀況 (應該顯示有一個untracked file)

```
chenyi@chenyi:~/oop-python-nycu$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
chenyi@chenyi:~/oop-python-nycu$ vim myname.txt
chenyi@chenyi:~/oop-python-nycu$ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
  myname.txt

nothing added to commit but untracked files present (use "git add" to track)
chenyi@chenyi:~/oop-python-nycu$ cat myname.txt
ChenYi
310512009
chenyi@chenyi:~/oop-python-nycu$
```

任務五

使用git add <file> 將myname.txt加入要更新的版本

使用git commit -m "訊息" 設定這個版本的註解

使用git push 將版本推/送上雲端

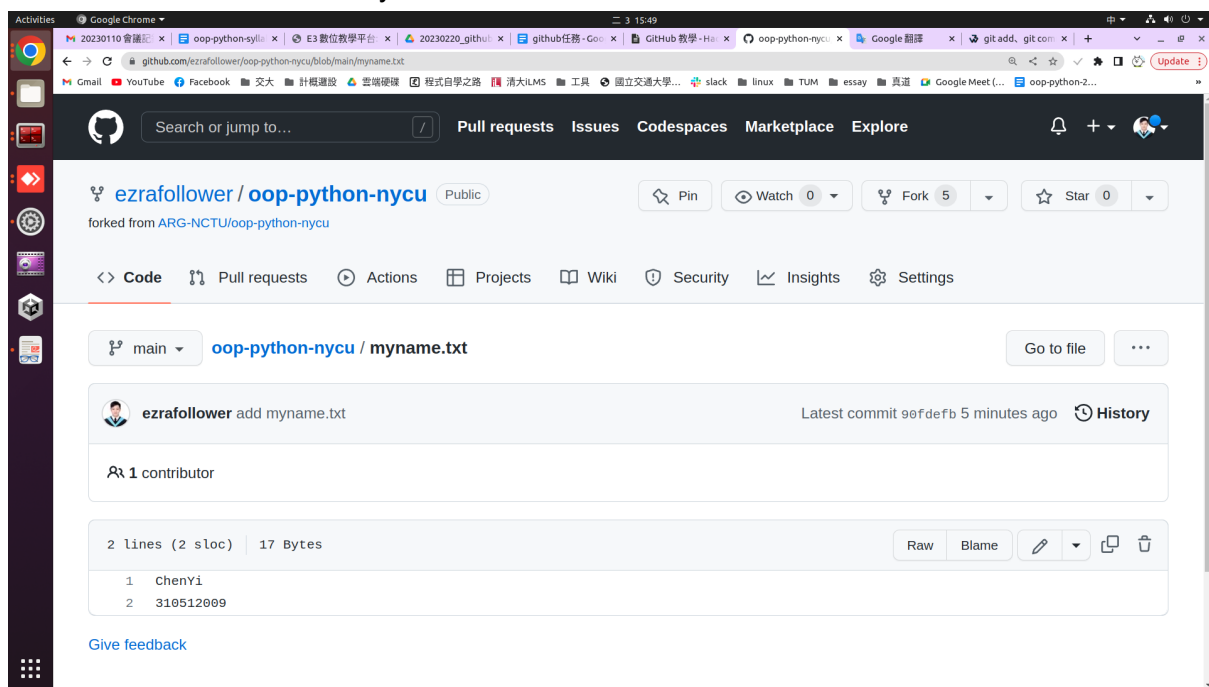
```
chenyi@chenyi:~/oop-python-nycu$ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        myname.txt

nothing added to commit but untracked files present (use "git add" to track)
chenyi@chenyi:~/oop-python-nycu$ git add myname.txt
chenyi@chenyi:~/oop-python-nycu$ git commit -m "add myname.txt"
[main 90fdefb] add myname.txt
1 file changed, 2 insertions(+)
create mode 100644 myname.txt
chenyi@chenyi:~/oop-python-nycu$ git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 294 bytes | 294.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:ezrafollower/oop-python-nycu.git
   4a83e95..90fdefb  main -> main
chenyi@chenyi:~/oop-python-nycu$
```

任務六

回到自己網頁的專案，確認myname.txt已經成功加入專案



如今你已經學會如何在本地端新增或更新檔案，以及推送上雲端的步驟指令！

任務七

推送上雲端的步驟指令學完後，接著是從雲端將更新更新至本機端的指令

- 1.先在雲端直接更改檔案(加上系級)
- 2.git pull 來更新本機檔案

```

Already up to date.
leowang707@leowang707-R0G-Strix-G512LV-G512LV:~/oop-python-nycu$ git pull
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 642 bytes | 642.00 KiB/s, done.
From github.com:leowang707/oop-python-nycu
 4604427..769ea51  main    -> origin/main
Updating 4604427..769ea51
Fast-forward
 leowang.txt | 1 +
 1 file changed, 1 insertion(+)
leowang707@leowang707-R0G-Strix-G512LV-G512LV:~/oop-python-nycu$

```

找助教demo

任務八

一組選一個組長的帳號建立一個專案, group1_project, 設定為public

ARG-NCTU / ARG-NCTU.github.io (Public)

62 branches 0 tags

hchengwang Merge pull request #262 from ARG-NCTU/dev1-Jule 3a9820a 16 hours ago 774 commits

File	Description	Time
IEEE_Robotics_and_Automation_S...	ieee website	4 years ago
SubT	'add_austin_photo_to_SubT_page'	2 years ago
ai-driving-olympics	minor updates	last year
courses	add aido summer 2018 to courses	4 years ago
duckietown_nctu	migrate index page as duckietown_nctu; minor modification in config.j...	6 years ago
event	website update people,event,publications	7 months ago
images	migrate index page as duckietown_nctu; minor modification in config.j...	6 years ago
img	update for index page, research page, and course page	5 years ago
materials	add materials page, change publication format	5 years ago
nycu-queen-belfast-robotics	Update index.html	10 months ago
people	Add files via upload	2 weeks ago
projects	upload image for fedhanet	17 hours ago
publications	update curl video & publications	yesterday
rc_tutorial	migrate rc_tutorial and fix config.js scripts for people	6 years ago
research	add duckiepond and brandname to research page	4 years ago
robots	update robot photos	2 years ago
robots-2022	lab website bug fix & update robots_2022 contact information + job as...	4 months ago
summer_school	migrate summer school pages from duckietown website	6 years ago

https://github.com/new

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?
[Import a repository.](#)

Repository template
 Start your repository with a template repository's contents.

Owner * **Repository name ***
 leowang707 / group1a_project ✓

Great repository names are short and memorable. Need inspiration? How about [friendly-octo-doodle?](#)

Description (optional)

☒ **Public**
 Anyone on the internet can see this repository. You choose who can commit.

☐ **Private**
 You choose who can see and commit to this repository.

Initialize this repository with:
 Skip this step if you're importing an existing repository.

☒ **Add a README file**
 This is where you can write a long description for your project. [Learn more.](#)

Add .gitignore
 Choose which files not to track from a list of templates. [Learn more.](#)

Choose a license
 A license tells others what they can and can't do with your code. [Learn more.](#)

This will set [main](#) as the default branch. Change the default name in your [settings](#).

任務九

同組其他人fork組長的專案，clone到local端，複製剛剛的專案內的myname.txt過來，將myname.txt改名為(學號).txt

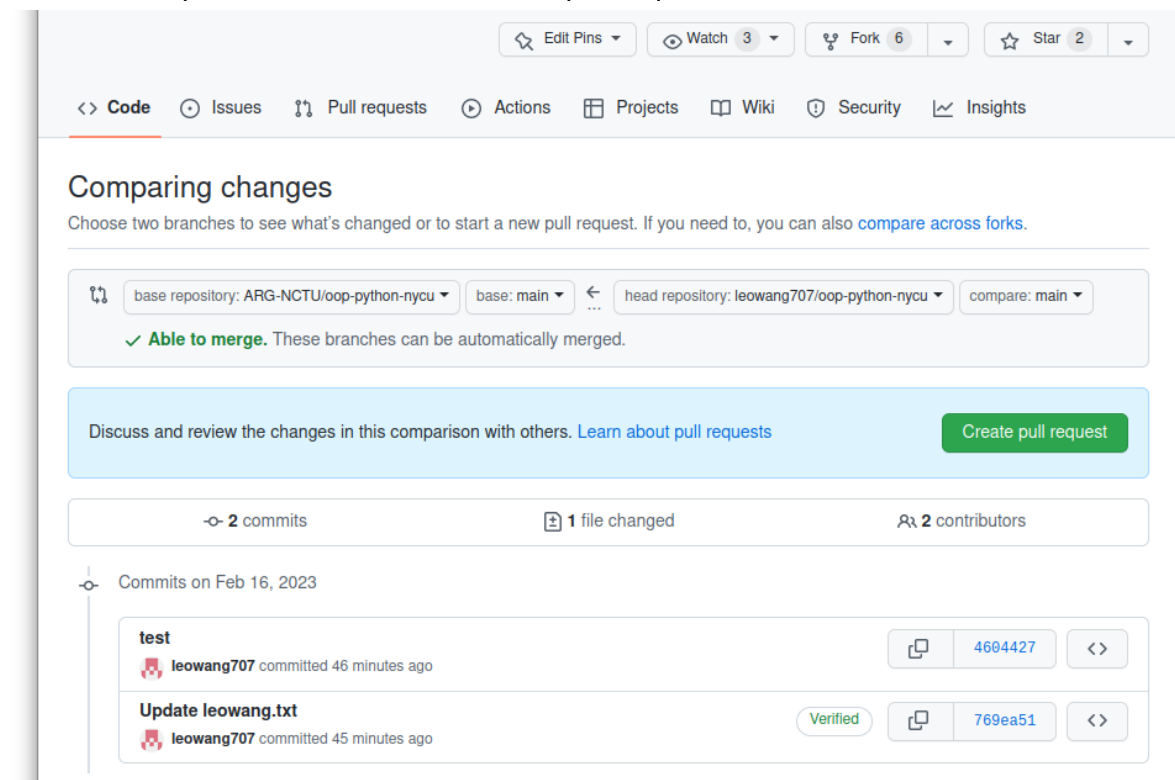
cp指令copy可以複製

mv指令move可以移動，也可以拿來改名rename

```
leowang707@leowang707-ROG-Strix-G512LV-G512LV: ~  
leowang707@leowang707-ROG-Strix-G512LV-G512LV:~$ cp oop-python-nycu/myname.txt groupTA_project/  
leowang707@leowang707-ROG-Strix-G512LV-G512LV:~$ mv groupTA_project/myname.txt groupTA_project/123456789.txt  
leowang707@leowang707-ROG-Strix-G512LV-G512LV:~$
```

任務十

將改動照步驟push回雲端，在雲端頁面按下pull request，組長接受



還是不會的話參考<https://ithelp.ithome.com.tw/m/articles/10140305>

找助教demo

任務十一

閱讀此篇敘述git stash暫存功能後，同組討論其應用情境，可google, ChatGPT更多資訊，並回答一個問題:(這個功能在我們未來同組合作做期末專案會有什麼幫助?)，實際玩一下同組的group1_project，嘗試先後進行git push, git pull等功能，看看會發生什麼事情

<https://backlog.com/git-tutorial/tw/reference/stash.html>

找助教demo