

HW1

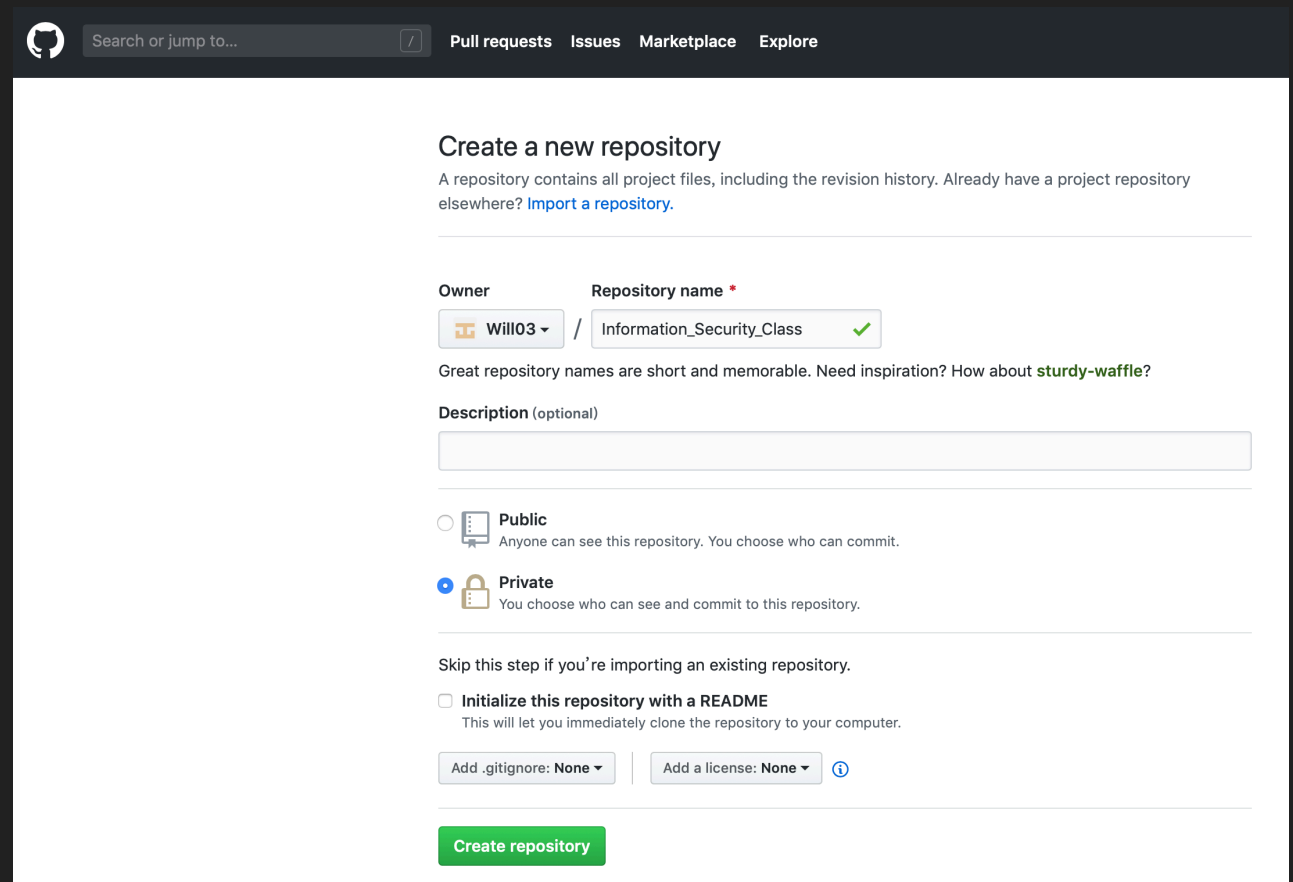
2019/9/26



寫題目之前你需要...

- 有一個 github 帳號
- 一個組員
- 上表單填寫 你們的學號 和 github id
 - 連結：<https://forms.gle/oAbxFawcoBaFRvvv8>

建立 github 專案

Repository name: Information_Security_Class





 Search or jump to...  Pull requests Issues Marketplace Explore

Create a new repository


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


Owner **Repository name ***

 Will03 / Information_Security_Class 

Great repository names are short and memorable. Need inspiration? How about **sturdy-waffle?**




Description (optional)

☐  **Public**
Anyone can see this repository. You choose who can commit.

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

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

☐ **Initialize this repository with a README**
This will let you immediately clone the repository to your computer.

Add .gitignore: **None**  | Add a license: **None**  

[Create repository](#)

Collaborator

- 將 connlabtw 加入 Collaborator 名單

The screenshot shows the GitHub repository settings page for a repository named 'Information_Security_Class'. The repository is set to 'Private'. The 'Settings' tab is selected, and the 'Collaborators' section is active. The page indicates that the repository currently has no collaborators. A search bar is provided to add collaborators, with the text 'Search by username, full name or email address'. Below the search bar, the text states: 'You'll only be able to find a GitHub user by their email address if they've chosen to list it publicly. Otherwise, use their username instead.' The search bar contains the text 'connlabtw', and a dropdown menu shows a suggestion for 'connlabtw' with a GitHub logo. An 'Add collaborator' button is visible to the right of the search bar.

Information_Security_Class Private

Unwatch 1 Star 0 Fork 0

Issues 0 Pull requests 0 Projects 0 Wiki Security Insights Settings

Collaborators Push access to the repository

This repository doesn't have any collaborators yet. Use the form below to add a collaborator.

Search by username, full name or email address

You'll only be able to find a GitHub user by their email address if they've chosen to list it publicly. Otherwise, use their username instead.

connlabtw

connlabtw

Add collaborator

Programing Language

- C
- Python
- C++

作業繳交

- 程式碼部分 - github
- 說明文件部分 - moodle

說明文件部分

- 沒有格式限定
- 證明code是你寫的

分工

四資工四 B10415052 葉力維 Encrypt

四資工四 B10415030 黃智威 Decrypt

開發環境

Ubuntu18.04 Python3

範例

1. Caesar cipher

Input:

Key : 7

Ciphertext: RLLWNVNVPUNULCLYNPCLBW

Output:

Decrypt: keepgoingnevergiveup

```
def decryptCaesar(key,origin):  
    ans = ''  
    mvKey=int(key) % 26
```

Coding Style

Input

```
./Encrypt{suffix} {Cipher} {Key} {Plaintext}  
./Decrypt{suffix} {Cipher} {Key} {Ciphertext}
```

Output

```
{Plaintext} or {Ciphertext}
```

{Cipher}

```
caesar  
playfair  
vernam  
row  
rail_fence
```


Example

Python example

Input: `./Encrypt.py caesar 7 keepgoingnevergiveup`

Output: RLLWNVPUNULCLYNPCLBW

Input `./Decrypt.py caesar 7 RLLWNVPUNULCLYNPCLBW`

Output: keepgoingnevergiveup



Plaintext 請用小寫
Ciphertext 請用大寫
Key 請用大寫

C example

Input: `./Encrypt vernam CON keepgoingnevergiveup`

Output: IKJFCKHLIFJTJVTMEC][

Input: `./Decrypt vernam CON IKJFCKHLIFJTJVTMEC][`

Output: keepgoingnevergiveup

Troubleshooting

- 如果輸出結果不是全英文的時候請單就英文的部分做大小寫轉換即可