

# Assignment0 - Git

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Before doing this assignment, you need to know the following git operations:

- **init** the git repo and connect to **remote** repo
- **add** and **commit** files
- **push** to the remote repo
- using GitHub

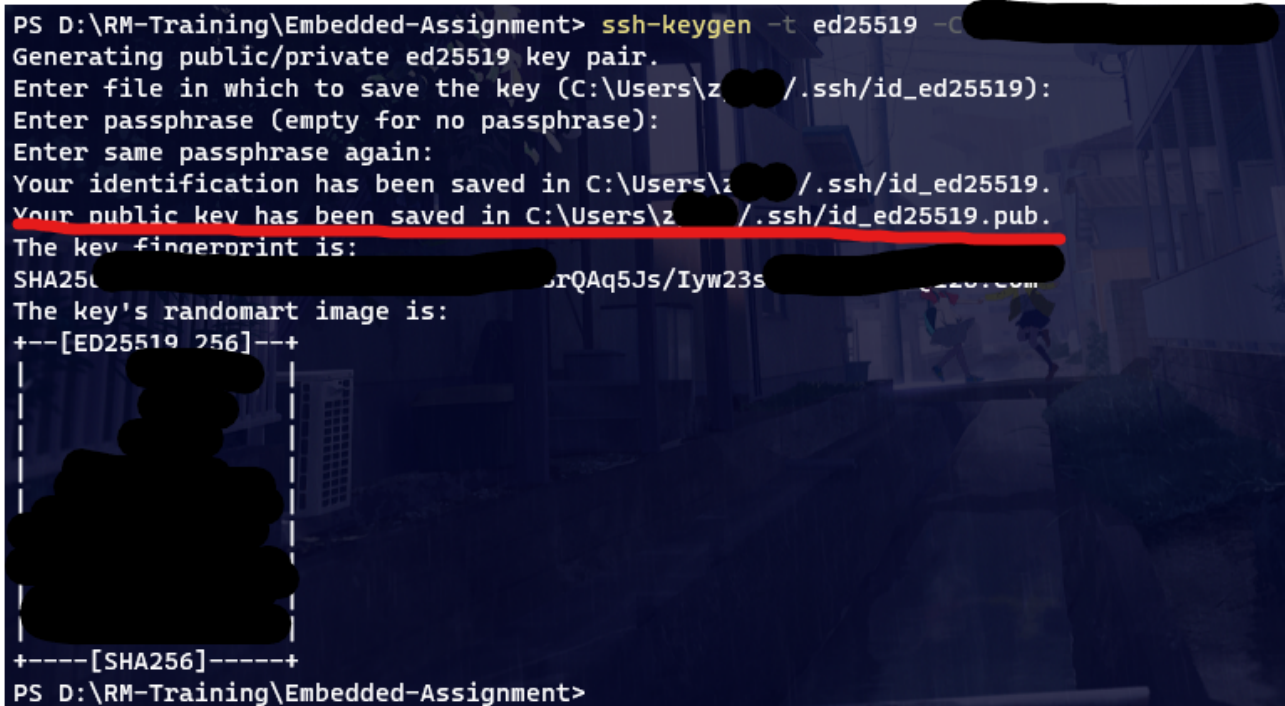
## set up your local git

1. go to [here](#) to download your git client
2. run the following two line to config your local git

```
# remember to modify the email and name 📌  
git config --global user.email "you@example.com"  
git config --global user.name "Your Name"
```

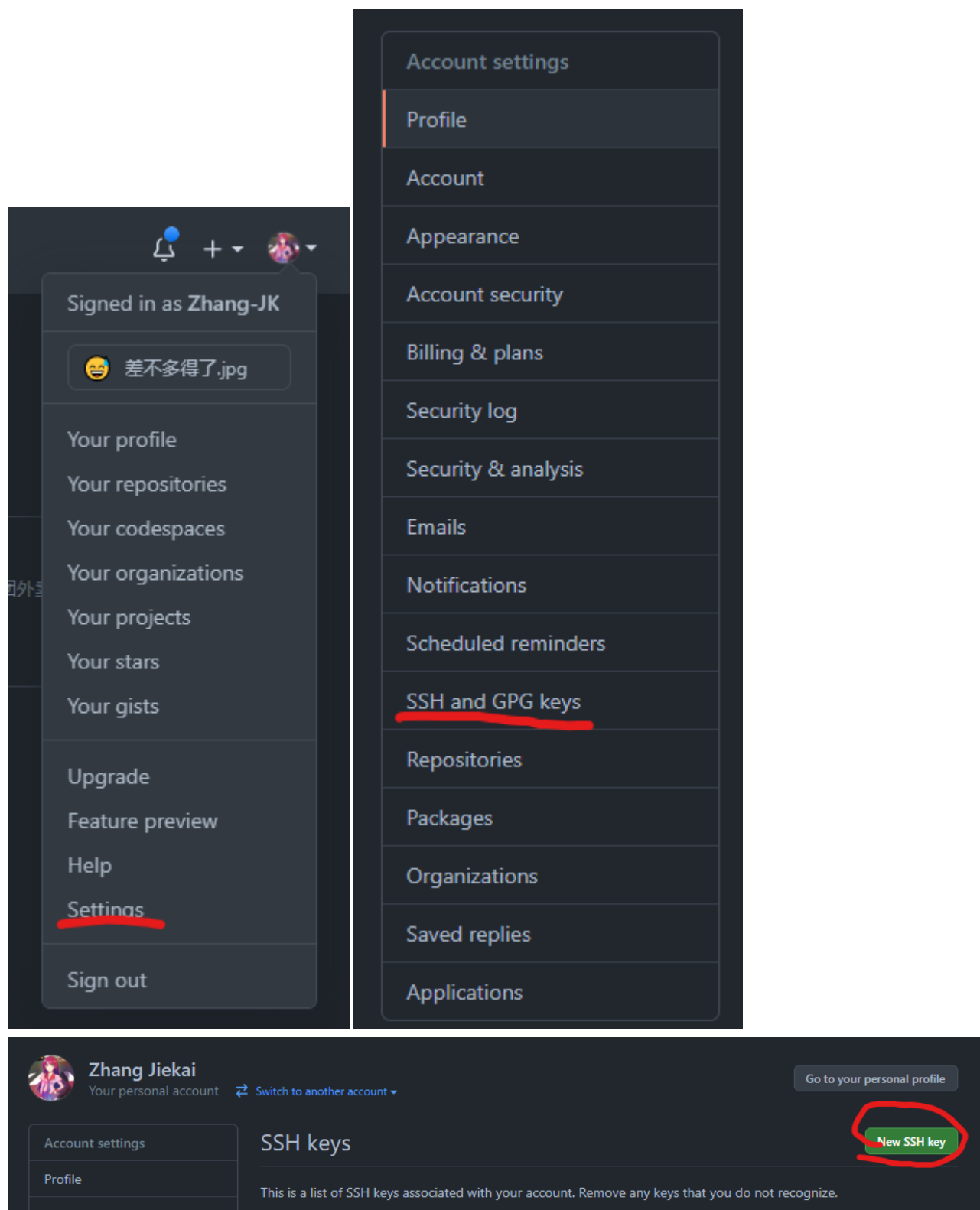
## connect to GitHub

1. Generate the ssh key run this command: `ssh-keygen -t ed25519 -C "your_email@example.com"` remember to modify the email  
after you run the code it will tell you where is the generated file(see the image below)



```
PS D:\RM-Training\Embedded-Assignment> ssh-keygen -t ed25519 -C [REDACTED]  
Generating public/private ed25519 key pair.  
Enter file in which to save the key (C:\Users\z\ssh/id_ed25519):  
Enter passphrase (empty for no passphrase):  
Enter same passphrase again:  
Your identification has been saved in C:\Users\z\ssh/id_ed25519.  
Your public key has been saved in C:\Users\z\ssh/id_ed25519.pub.  
The key fingerprint is:  
SHA256:[REDACTED]rQAq5Js/Iyw23s [REDACTED]  
The key's randomart image is:  
+--[ED25519 256]--+  
|                 |  
|                 |  
|                 |  
|                 |  
|                 |  
|                 |  
|                 |  
|                 |  
|                 |  
+-----[SHA256]-----+  
PS D:\RM-Training\Embedded-Assignment>
```

2. Copy your public key open the public key file and copy all things in it
3. Paste to GitHub go to settings -> SSH and GPG keys -> New SSH Key  
set your own title and paste the public key there



If failed, please go through the following link and try again

- [Generating a new SSH key](#)
- [Adding SSH key to your GitHub account](#)

get the remote repo

1. Import our assignment repository and make it private (follow the image below)

The screenshot shows the GitHub 'Import your project to GitHub' page. The top navigation bar has a '+' icon circled in red. A dropdown menu is open, showing options: 'New repository', 'Import repository' (underlined in red), 'New gist', 'New organization', and 'New project'. The main form has the title 'Import your project to GitHub' and the subtitle 'Import all the files, including the revision history, from another version control system.' Below this is a section 'Your old repository's clone URL' with a text input field containing 'https://github.com/hkustenterprize/RM2022-Embedded-Tutorial-Assignments'. A red arrow points to this field. Below the URL field is a link 'Learn more about the types of supported VCS.' The next section is 'Your new repository details'. It has two fields: 'Owner' with a dropdown showing 'Zhang-JK' and 'Repository Name' with an empty text input. A red arrow points to the 'Repository Name' field. Below these is the 'Privacy' section with two radio buttons: 'Public' (selected) and 'Private'. The 'Private' option is highlighted with a red arrow. At the bottom right are two buttons: 'Cancel' and 'Begin import'. A red arrow points to the 'Begin import' button.

2. Clone your own repo to local (or download zip)
3. Fill in your information in the README.md in root path
4. Add your assigned TA as a collaborator

## commit and push

- You need to submit all your code on github, and we will grade it.
- Please arrange your commits reasonably and attach appropriate commit message
- Push your code before DDL