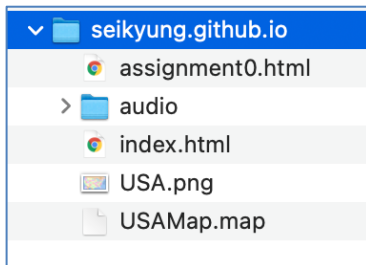


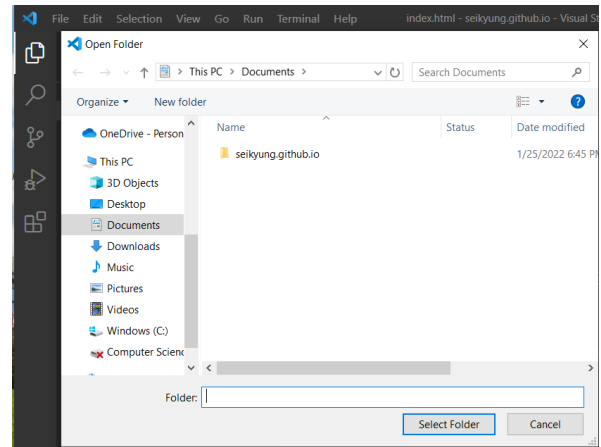
Web Application Development

In this lab, we will publish your web pages to GitHub.

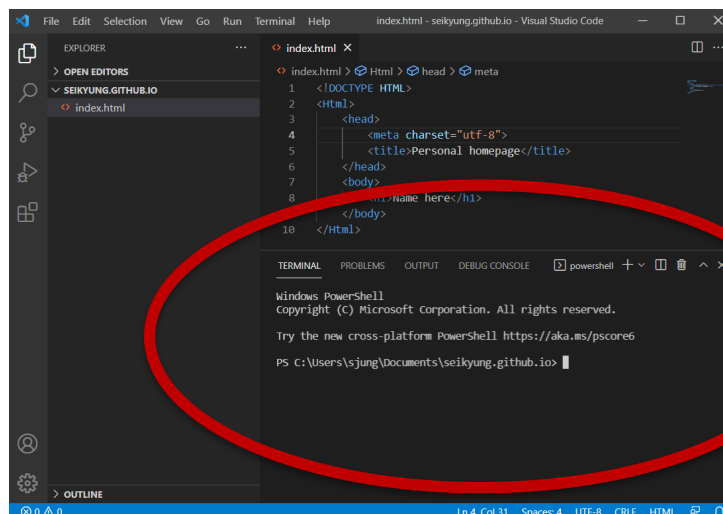
1. Install Visual Studio Code (if you haven't already done so):
<https://code.visualstudio.com/>
2. Install GIT (if you haven't already done so):
<https://git-scm.com/>
3. Create an account on Github (if you haven't already done so):
<https://github.com/join>
4. Add your name to your Github account (profile) so I know who you are:
<https://github.com/settings/profile>
5. Let's create a new folder (e.g., yourName.github.io). Mine is Seikyung.github.io
Create an index.html (or move/copy what you created in class)



This is what my file folder looks like.
You only need index.html for now.



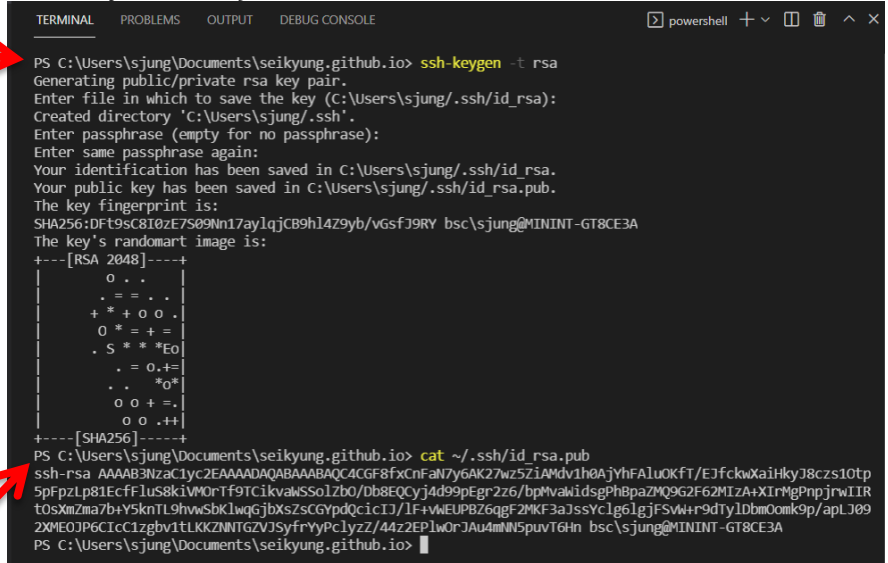
6. Let's open yourName.github.io folder: VSCode → File → Open Folder
Open VSCode terminal: VSCode → Terminal → New terminal
Alternatively, you can open **git bash** (Windows) or **Terminal** (Mac)



Web Application Development

7. Generate SSH Key (if you haven't already done so):

Type:
`ssh-keygen -t rsa`
This will generate SSH Key



```
TERMINAL  PROBLEMS  OUTPUT  DEBUG CONSOLE
PS C:\Users\sjung\Documents\seikyung.github.io> ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (C:\Users\sjung\.ssh\id_rsa):
Created directory 'C:\Users\sjung\.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in C:\Users\sjung\.ssh\id_rsa.
Your public key has been saved in C:\Users\sjung\.ssh\id_rsa.pub.
The key fingerprint is:
SHA256:DfT9sC8I0zE7S09Nn17aylqjCB9hl4Z9yb/vGsfJ9RY bsc:seikyung@MININT-GT8CE3A
The key's randomart image is:
+---[RSA 2048]-----+
|  . . . |
| . = . . |
| + * + 0 0 . |
| 0 * = + = |
| . S * * *Eo |
| . = 0.+ = |
| . . *O* |
| 0 0 + = . |
| 0 0 . + + |
+---[SHA256]-----+
PS C:\Users\sjung\Documents\seikyung.github.io> cat ~/.ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCA4CGF8fxCnFaN7y6AK27wz5ZiAMdv1h0AjYhFAIuOKfT/EJfckwXaiHkyJ8czs10tp
5pFpZLp81EcFFluS8kiVMorTf9TCikvawSSolZbo/Db8EQCyj4d99pEgr2z6/bpMvawidsgPhBpaZMQ9G2F62MIzA+XIRMGpnpjrwiIR
tOSXmZma7b+Y5knTL9hvwSbKlwqGjbXsZsCGYpdQcicID/1F+vWUEUPBZ6qgF2MKF3aJssvc1g61gJfSvw+r9dTylDbmOomk9p/apLJ09
2XME0JP6Cic1zgbv1tLKZINITGZVJSyfrYyPcIyZ/44z2EP1wOrJAu4mMNSpuvT6Hn bsc:seikyung@MININT-GT8CE3A
PS C:\Users\sjung\Documents\seikyung.github.io>
```

Type:
`cat ~/.ssh/id_rsa.pub`
This will show your public key
We will need this key. So do not
close the terminal. Or copy &
paste somewhere else.

Miscellaneous things to avoid errors:

We will need to run 3 commands:

```
ssh-keyscan -t rsa github.com >> ~/.ssh/known_hosts
```

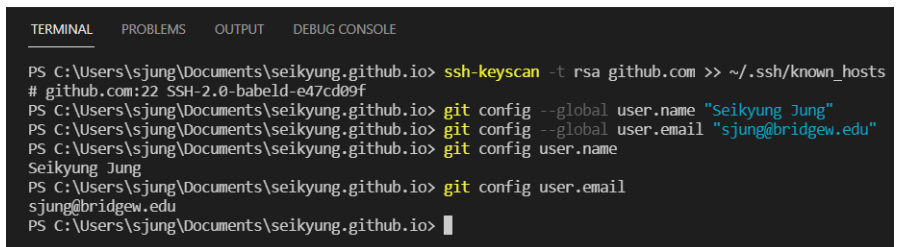
```
git config --global user.name "Your name here. Do not put my name"
```

```
git config --global user.email "Your email here. Do not put my email"
```

To confirm your name and email address:

```
git config user.name
```

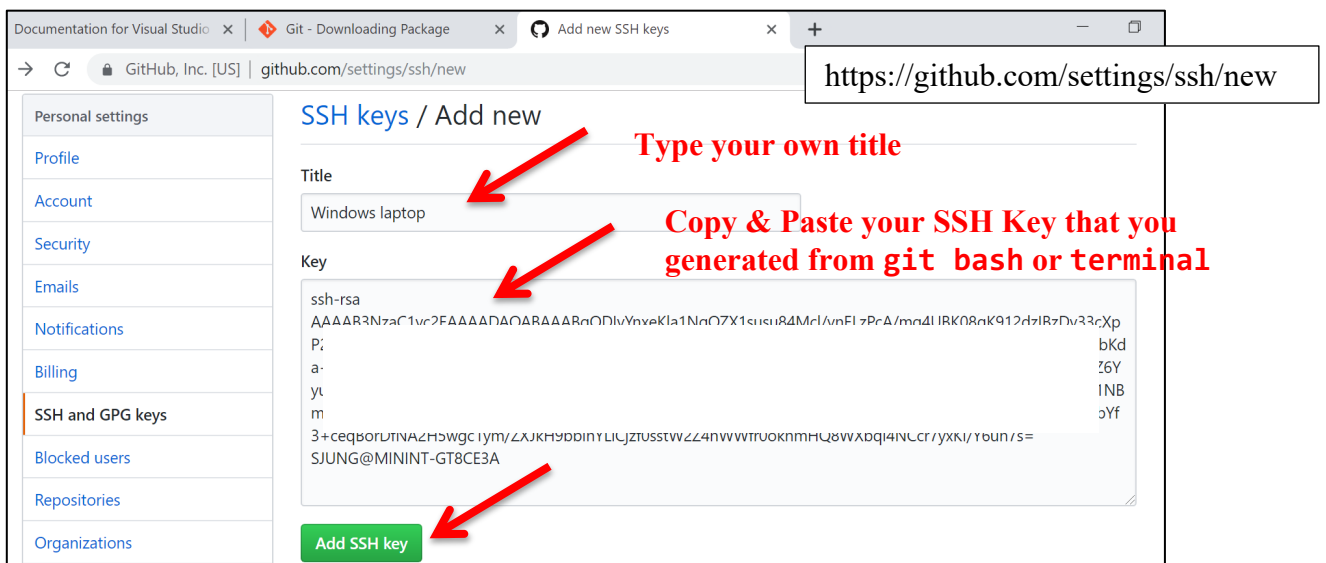
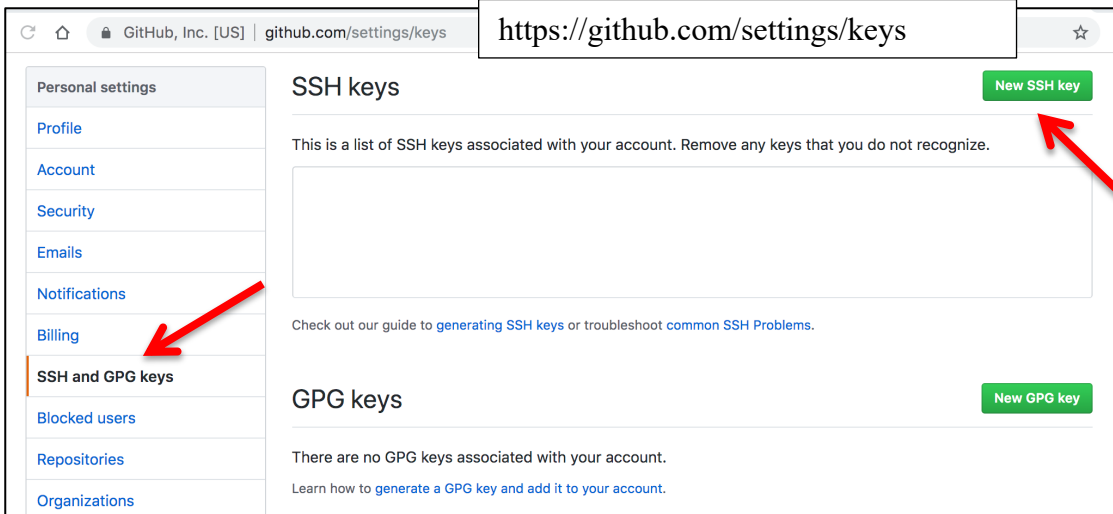
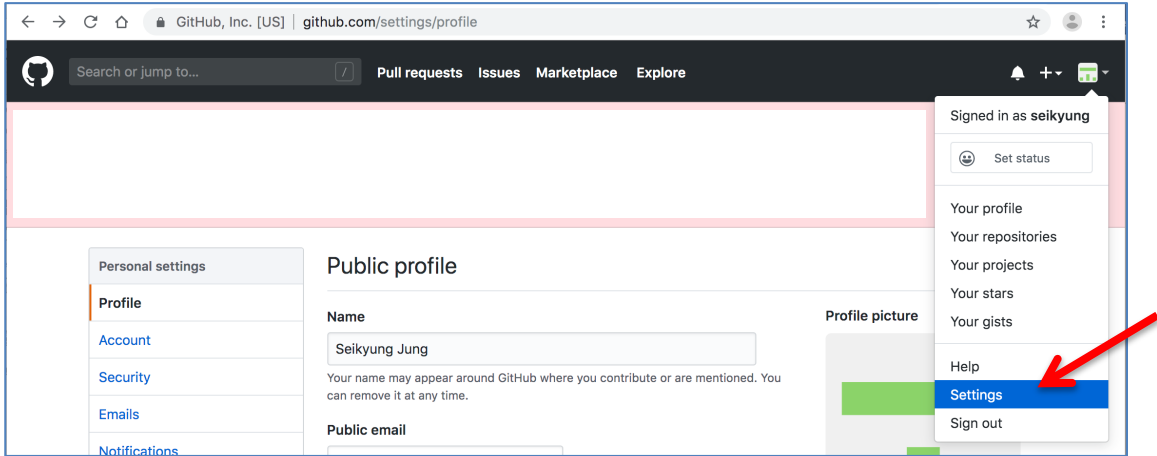
```
git config user.email
```



```
TERMINAL  PROBLEMS  OUTPUT  DEBUG CONSOLE
PS C:\Users\sjung\Documents\seikyung.github.io> ssh-keyscan -t rsa github.com >> ~/.ssh/known_hosts
# github.com:22 SSH-2.0-babeld-e47cd09f
PS C:\Users\sjung\Documents\seikyung.github.io> git config --global user.name "Seikyung Jung"
PS C:\Users\sjung\Documents\seikyung.github.io> git config --global user.email "sjung@bridgew.edu"
PS C:\Users\sjung\Documents\seikyung.github.io> git config user.name
Seikyung Jung
PS C:\Users\sjung\Documents\seikyung.github.io> git config user.email
sjung@bridgew.edu
PS C:\Users\sjung\Documents\seikyung.github.io>
```

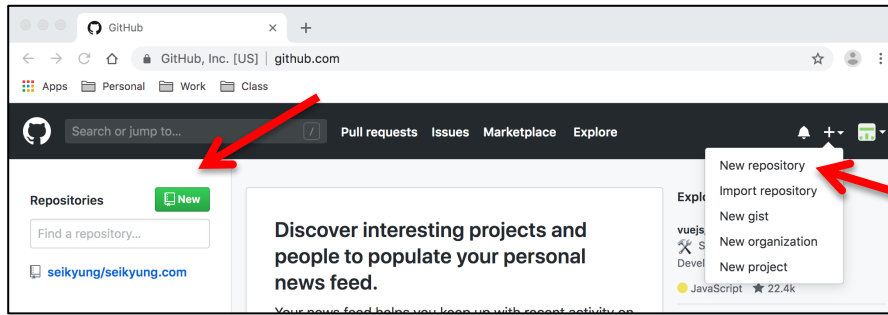
Web Application Development

8. Setup SSH key from GitHub (if you haven't already done so):

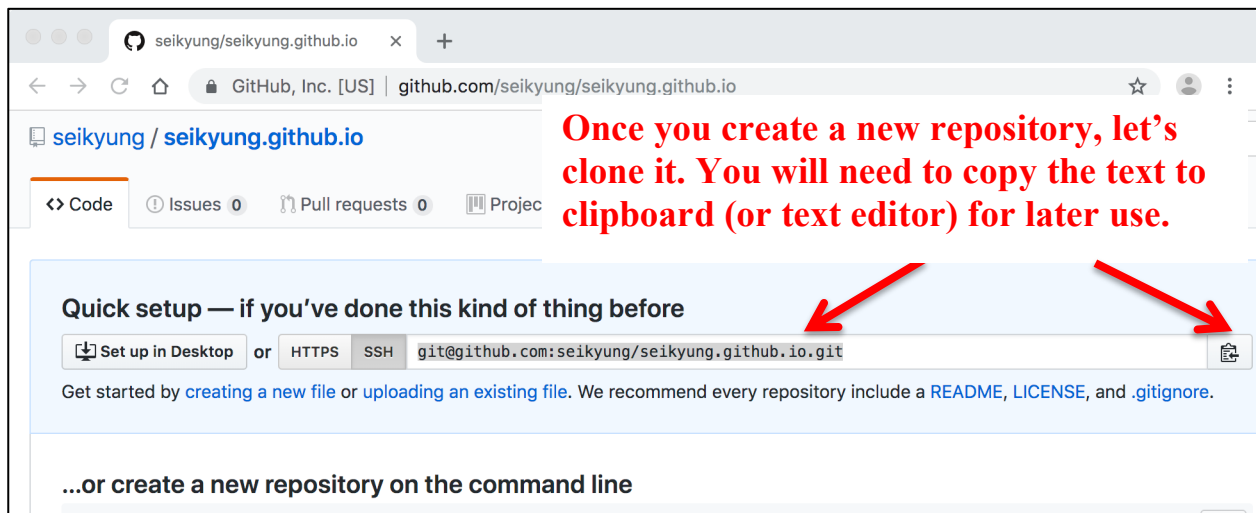


Web Application Development

9. Create a new repository



A screenshot of the 'Create a new repository' form on GitHub. The URL bar shows 'https://github.com/new'. The form has fields for 'Owner' (seikyung) and 'Repository name' (seikyung.github.io). A red arrow points to the repository name field. Below the name field, there is a description field and a 'Public' radio button selected. At the bottom, there is a green 'Create repository' button. A red arrow points to this button. A red text box on the right says: 'You must have your own githubID. DO NOT type mine. YourID.github.io'.

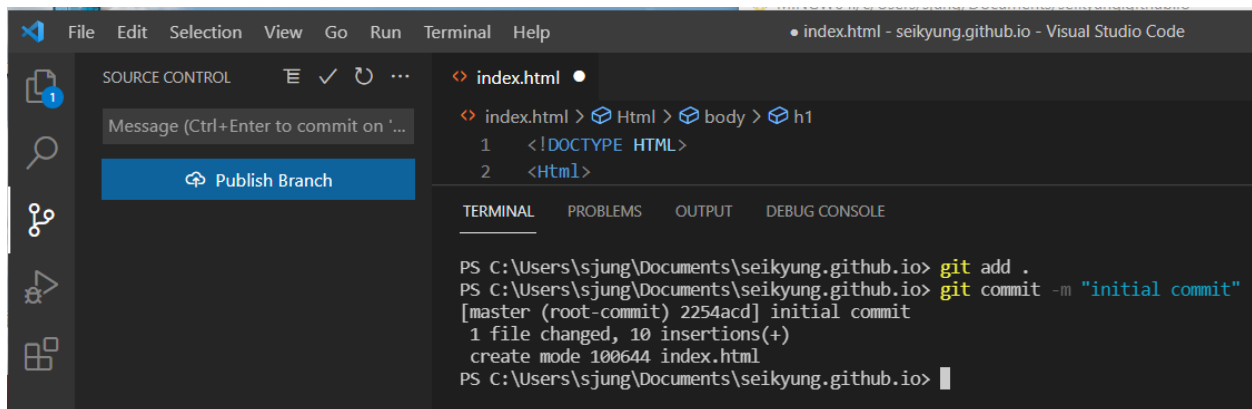
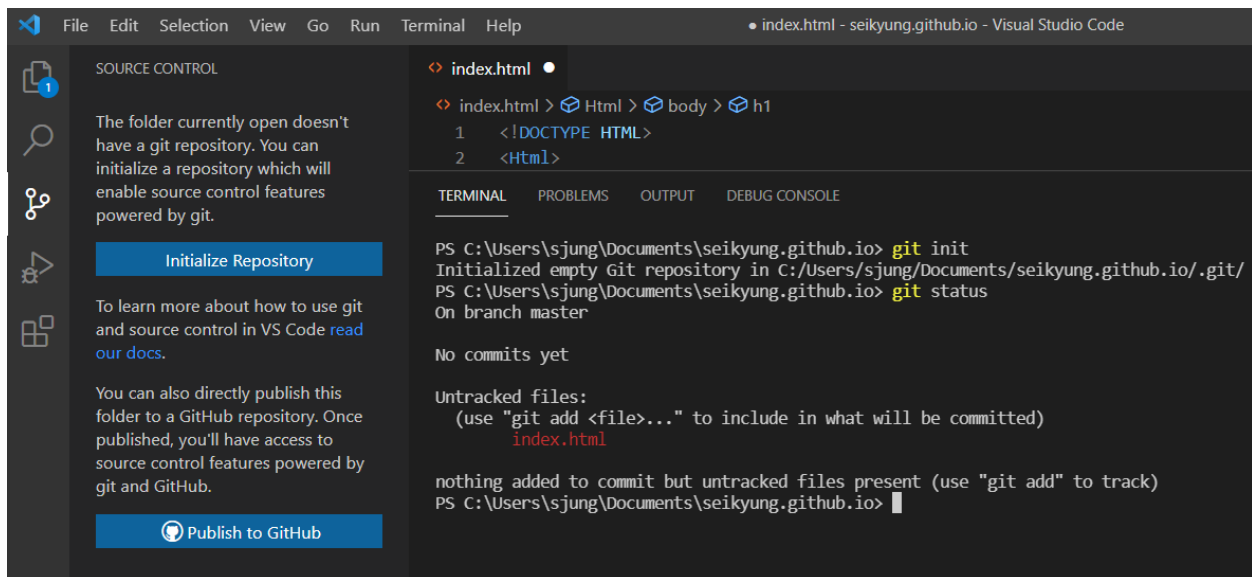


Web Application Development

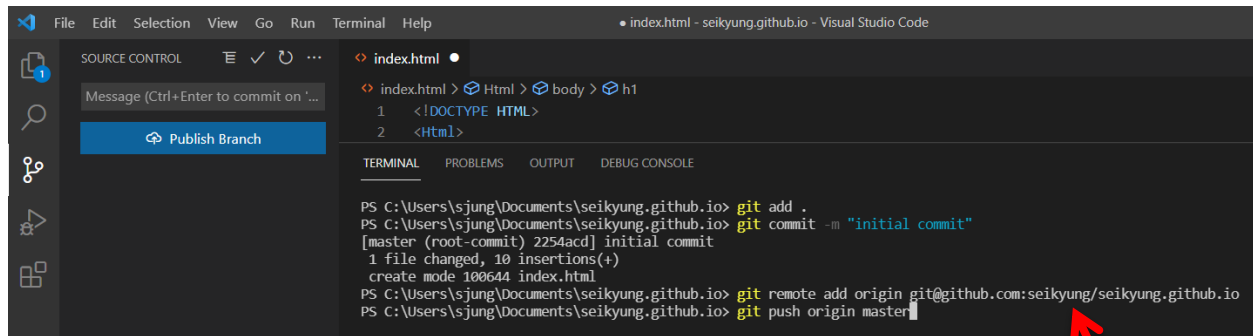
10. Open Visual Studio Code → terminal

We will use 6 git commands:

```
git init
git status
git add
git commit
git remote
git push
```



Web Application Development



```
PS C:\Users\sjung\Documents\seikyung.github.io> git add .
PS C:\Users\sjung\Documents\seikyung.github.io> git commit -m "initial commit"
[master (root-commit) 2254acd] initial commit
1 file changed, 10 insertions(+)
create mode 100644 index.html
PS C:\Users\sjung\Documents\seikyung.github.io> git remote add origin git@github.com:seikyung/seikyung.github.io
PS C:\Users\sjung\Documents\seikyung.github.io> git push origin master
```

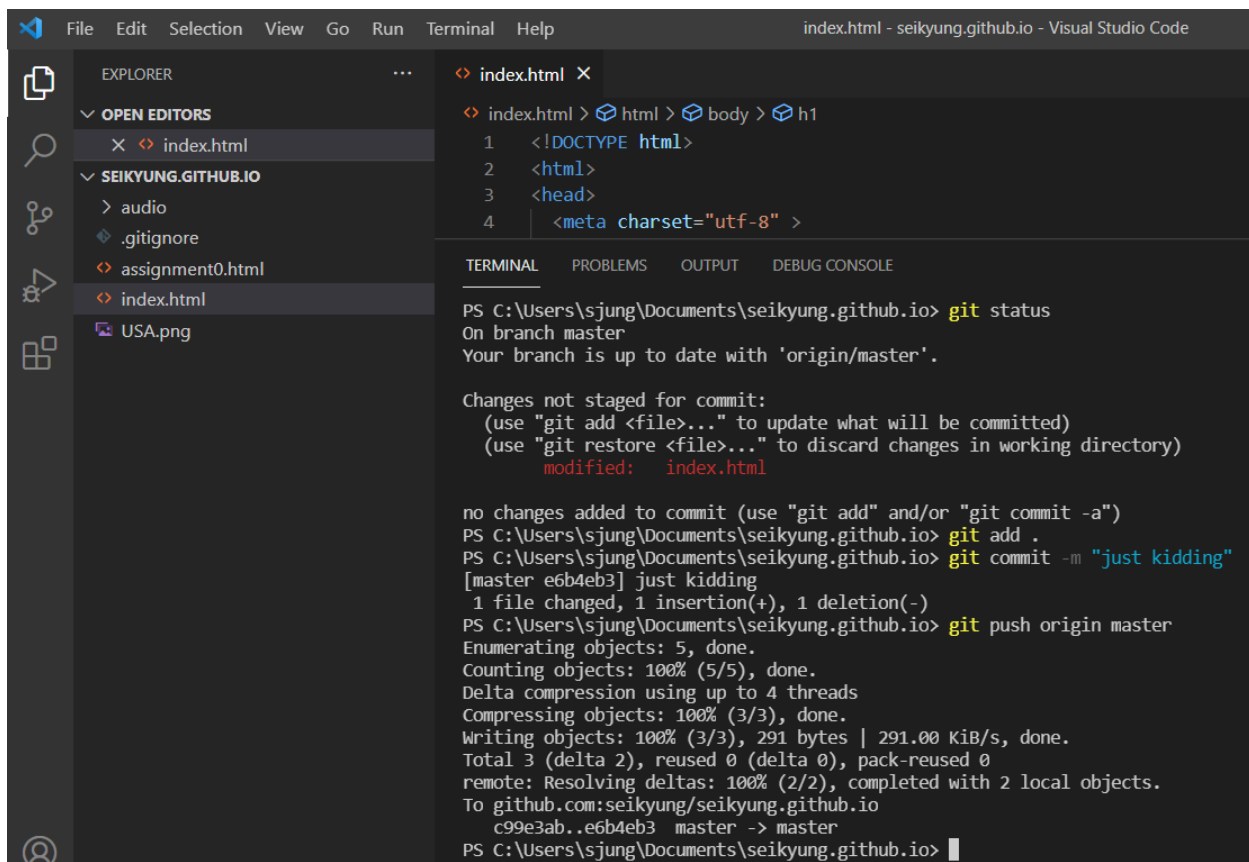
Copy & paste this from YOUR github repository. You should have your own text. DO NOT copy&paste mine.

11. Whenever you modify code, you will need to run these 4 git commands:

```
git status
git add
git commit
git push
```

git init and git remote is just one-time commands.

git pull and git clone commands are also useful, but we will not use it for now.



```
PS C:\Users\sjung\Documents\seikyung.github.io> git status
On branch master
Your branch is up to date with 'origin/master'.

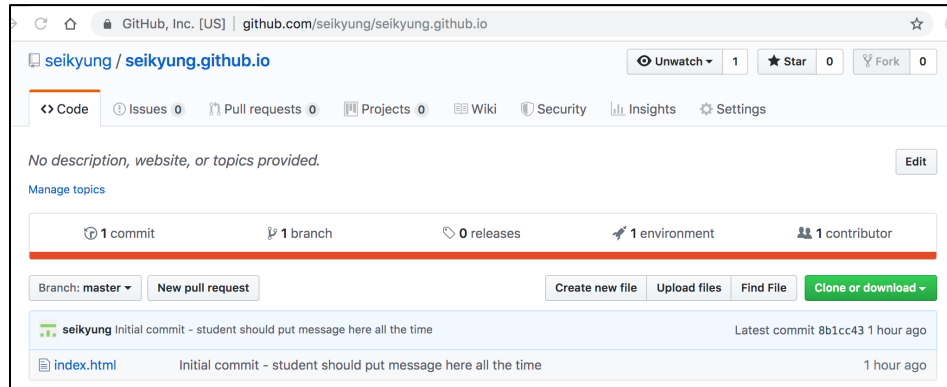
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   index.html

no changes added to commit (use "git add" and/or "git commit -a")
PS C:\Users\sjung\Documents\seikyung.github.io> git add .
PS C:\Users\sjung\Documents\seikyung.github.io> git commit -m "just kidding"
[master e6b4eb3] just kidding
1 file changed, 1 insertion(+), 1 deletion(-)
PS C:\Users\sjung\Documents\seikyung.github.io> git push origin master
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 291 bytes | 291.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To github.com:seikyung/seikyung.github.io
c99e3ab..e6b4eb3 master -> master
PS C:\Users\sjung\Documents\seikyung.github.io>
```

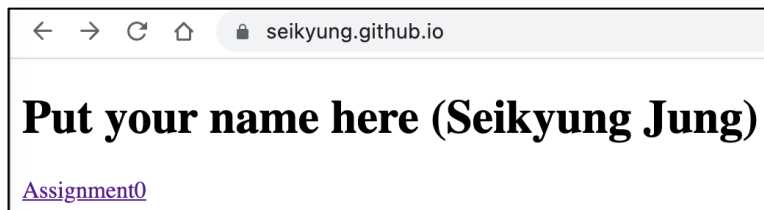
Web Application Development

12. Back to GitHub

Go to your GitHub repository and refresh the browser. You should see `index.html` file.



Visit <https://YourGitHubID.github.io/>



Can you see your web site? Hooray! You have your first web site, publicly available! You should have your name visible.

Enter your link to <https://tinyurl.com/ybs3pshv>

Now you are ready to do our first assignment. We will talk about this in class.