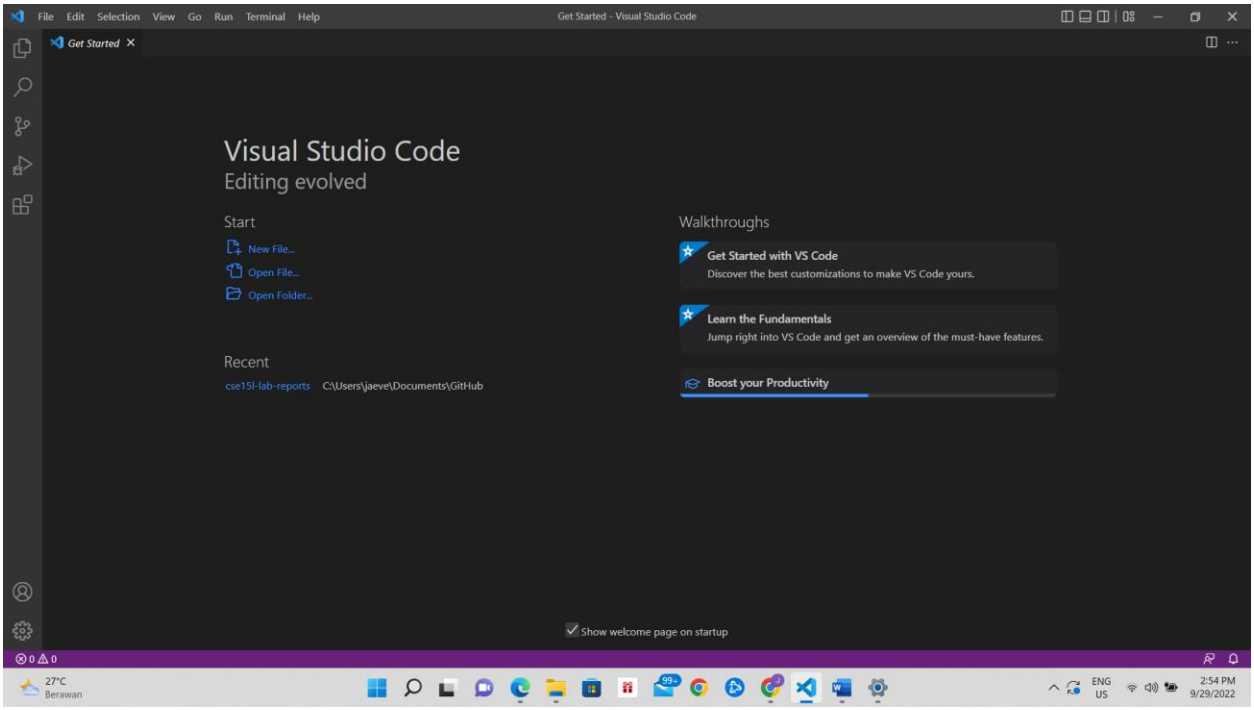
I first installed visual studio code which was simply done by doing a quick google search. Then, I had to make sure that OpenSSH client was in my computer. I checked it in the options tab of my settings in optional features. After downloading visual studio code, my screen looked like this:



Then I remotely connected into the server by running the line ssh cse15lfa22ft@ieng6.ucsd.edu (my login for this account was not working yet so I used jtanuwidjaja@ieng6.ucsd.edu) in my terminal. The terminal then shows the following lines in my screen:

```
You are using 0% CPU on this system

Cluster Status
Hostname      Time    #Users  Load  Averages
ieng6-201   14:55:02   15  0.27,  0.11,  0.06
ieng6-202   14:55:01   8   0.17,  0.16,  0.11
ieng6-203   14:55:01   18  0.08,  0.07,  0.05



To see all available software packages, type "prep -l" at the command prompt,
or "prep -h" for more options.
```

After I tried the command “ls -lat” the following lines appeared:

```
-rw-r-----   1 jtanuwidjaja ieng6_staff    30 Sep 29 15:01 hello.txt
drwxr-s---   6 jtanuwidjaja ieng6_staff  4096 Sep 29 15:01 .
-rw-r--r--   1 jtanuwidjaja ieng6_staff  1111 Sep 29 14:59 .modulesbegenv
-rw-r-----   1 jtanuwidjaja ieng6_staff     0 Sep 29 14:20 .motd
drwxr-sr-x   2 jtanuwidjaja ieng6_staff  4096 Sep 29 14:20 perl5
drwxr-sr-x   3 jtanuwidjaja ieng6_staff  4096 Sep 29 14:20 .local
drwxr-sr-x   3 jtanuwidjaja ieng6_staff  4096 Sep 29 14:20 .config
drwxr-sr-x   3 jtanuwidjaja ieng6_staff  4096 Sep 29 14:20 .cache
drwxr-sr-x 166 root         ieng6_staff 16384 May 31 14:38 ..
-rwxr-x---   1 jtanuwidjaja ieng6_staff   290 May 31 14:38 .zshrc
-rwxr-x---   1 jtanuwidjaja ieng6_staff   481 May 31 14:38 .zshenv
-rwxr-x---   1 jtanuwidjaja ieng6_staff  1931 May 31 14:38 .zprofile
-rwxr-x---   1 jtanuwidjaja ieng6_staff  1961 May 31 14:38 .profile
```

After I tried the command “cat /home/linux/ieng6/cs15lfa22/public/hello.txt” the following lines appeared:

```
[jtanuwidjaja@ieng6-201]:~:7$ cat /home/linux/ieng6/cs15lfa22/public/hello.txt
Hi! Welcome to CSE15L Fall 22
```

I then logged out of the remote server in my terminal by running the exit command. And made a file WhereAmI.java with its contents based on what is given in the lab assignment. Running scp WhereAmI.java jtanuwidjaja@ieng6.ucsd.edu:~/, my terminal displays the following results:

```
PS C:\Users\jaeve> cd Desktop
PS C:\Users\jaeve\Desktop> scp WhereAmI.java jtanuwidjaja@ieng6.ucsd.edu:~/
Password:
WhereAmI.java
PS C:\Users\jaeve\Desktop>
```

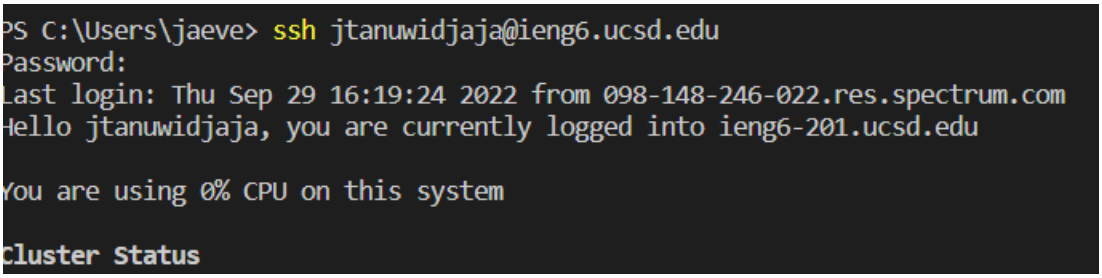
After logging in to ssh with ls, the file is now in my home directory:

```
To see all available software pack
or "prep -h" for more options.
[jtanuwidjaja@ieng6-201]:~:13$ ls
WhereAmI.java  hello.txt  perl5
[jtanuwidjaja@ieng6-201]:~:14$
```

After running “java WhereAmI”:

```
jtanuwidjaja
/home/linux/ieng6/oce/07/jtanuwidjaja
/home/linux/ieng6/oce/07/jtanuwidjaja
[jtanuwidjaja@ieng6-201]:~:16$
```

After running the commands instructed in step 7 of the lab, I was able to login without using a password:



As for optimizing remote running, I think that having a text file of the command to log in to your ssh is a good idea for reducing the keystrokes that will be used to log on. For example I can copy all the required lines of code that I would use to login and simply copy and paste it into the next time I login into the terminal saving all the time typing it manually every single time.