# Lab 4 Report

#### step 4: Log into ieng6

Command: ssh cse15lfa23ld@ieng6.ucsd.edu <enter>

```
Hello cs15lfa23ld, you are currently logged into ieng6-202.ucsd.edu

You are using 0% CPU on this system

Cluster Status
Hostname Time #Users Load Averages
ieng6-201 17:30:01 17 29.05, 30.17, 30.54
ieng6-202 17:30:01 15 4.23, 4.62, 5.53
ieng6-203 17:30:02 12 6.47, 6.79, 7.08

Sat Nov 18, 2023 5:30pm - Prepping cs15lfa23
[cs15lfa23ld@ieng6-202]:~:121$ ls
```

### step 5: Clone your fork of the repository from your Github account (using the SSH URL)

copy the SSH URL from github website

```
git clone <ctrl>v

<ctrl>v paste the coppied URL into my terminal
```

```
[cs15lfa23ld@ieng6-202]:~:129$ ls

perl5 tutor wavelet

[cs15lfa23ld@ieng6-202]:~:130$ git clone git@github.com:sangpotado/cse15llab7.git

Cloning into 'cse15llab7'...

Warning: Permanently added the RSA host key for IP address '140.82.112.4' to the list of known hosts.

remote: Enumerating objects: 62, done.

remote: Counting objects: 100% (28/28), done.

remote: Compressing objects: 100% (14/14), done.

remote: Total 62 (delta 17), reused 14 (delta 14), pack-reused 34

Receiving objects: 100% (62/62), 377.13 KiB | 1.46 MiB/s, done.

Resolving deltas: 100% (23/23), done.

[cs15lfa23ld@ieng6-202]:~:131$ □
```

## step 6: Run the tests, demonstrating that they fail

```
I used <tab> so the terminal can help me finish the words instead of typing them all out by myself cd cs<tab><enter> -> going into the lab folder

1s -> list out the files, because I don't remember exactly the file names

bash t<tab><enter> -> run bash test.sh
```

## step 7: Edit the code file to fix the failing test

Command vim L<tab>.ja<tab><enter> -> call vim to edit file, there're 2 files whose names contain ListExample, so first <tab> stopped there, I continued with the name .ja and let the 2nd <tab> finish.

```
[cs15lfa23ld@ieng6-202]:cse15llab7:134$ vim ListExamples.java
```

```
Once inside vim , I typed:

/change<enter><down><right><right>r2<esc>:wq<enter>

/change -> search for the word "change"

<enter> -> to stop searching, alternatively, I could press <esc>

<down><right><right> -> move to the character I want to change, which is '1' of "index1"

r2 -> replace '1' with '2'

<esc>:wq<enter> -> escape replace mode, then write and quit
```

```
index1 += 1;
      else {
        result.add(list2.get(index2));
        index2 += 1;
   while(index1 < list1.size()) {</pre>
      result.add(list1.get(index1));
      index1 += 1;
   while(index2 < list2.size()) {</pre>
      result.add(list2.get(index2));
     // change index1 below to index2 to fix test
      index2 += 1;
    return result;
/change
```

step 8: Run the tests, demonstrating that they now succeed

```
<up><up><up><enter> -> bash test.sh is up 2 in the history

[cs15lfa23ld@ieng6-202]:cse15llab7:135$ bash test.sh

JUnit version 4.13.2
...
Time: 0.014

OK (2 tests)
```

step 9: Commit and push the resulting change to your Github account (you can pick any commit message!)

```
git push -> push the change to Github server
[cs15lfa23ld@ieng6-202]:cse15llab7:136$ git add .
[cs15lfa23ld@ieng6-202]:cse15llab7:137$ git commit -m "done with lab4"
[main 6303fbb] done with lab4
 Committer: Sang H Do <cs15lfa23ld@ieng6-202.ucsd.edu>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:
    git config --global --edit
After doing this, you may fix the identity used for this commit with:
    git commit --amend --reset-author
 1 file changed, 1 insertion(+), 1 deletion(-)
[cs15lfa23ld@ieng6-202]:cse15llab7:138$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (1/1), done.
Writing objects: 100% (3/3), 302 bytes | 302.00 KiB/s, done.
Total 3 (delta 2), reused 2 (delta 2), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To github.com:sangpotado/cse15llab7.git
   13b3fcb..6303fbb main -> main
```

git add . -> stage all the files which were changed

git commit -m "done with lab4" -> commit the change with the message