Student git access

Everything that follows assumes that your are on one of the CS department Linux machines.

Initial setup   There's some one time setup you need to do for you usage of git:

1. Let git know your name
   ```
   git config --global user.name "Jane Smith"
   ```

2. Let git know your email
   ```
   git config --global user.email "jane.smith@slu.edu"
   ```

3. Set your preferred editor (you can also use vi, emacs, etc.)
   ```
   git config --global core.editor "nano"
   ```

4. If you get a strange error asking for one more config, copy and paste the "simple" option (sometimes you will not get this one, but I've seen it come up for several students this semester)

For any course you take that uses git you need to setup access to the course repository and your personal repository within the course. Make a directory for the course and cd into it.

1. Create the initial course repository.
   ```
   git clone git@git.cs.slu.edu:courses/spring18/csci3200/course
   ```

2. Add in your personal course repository (where you put in your own userid in at the end of the command below)
   ```
   git clone git@git.cs.slu.edu:courses/spring18/csci3200/youruserid
   ```

This will create two directories. The first is the shared course repository and the second is your personal repository for the course.

   Important note: Make sure that these are in some subdirectory, since every course you use here at SLU from here on out will probably generate a git folder called course and a git folder with your userid. This will be confusing if they are all in your home directory!

Getting course materials   To download everything from the course repository. Change directory it the course directory (course)
   ```
   git pull
   ```

Completing an assignment   Your instructor will give you the name of an assignment, e.g. `assignment1`

1. Change directory to your personal repository (your userid)

2. Create a directory for the assignment (e.g. assignment 1)

3. Create/edit any files you need to for the assignment

4. For each file that is part of the assignment, add them to the repository
   `git add filename`

5. Commit your changes
   `git commit -a`
   You will need to entry a log message describing the changes you have made.

6. Upload the changes
   `git push`

See instructor comments and grades   If your instructor makes any edits to your files or upload comments you can access them as follows

1. Change directory to your personal repository (your userid)

2. Access the assignment
   `git pull`

3. Look at any files your want to

Accessing from outside CS environment   Git uses a ssh public/private keypair. You will need to copy your private key from hopper into the appropriate ssh directory on your computer. How to do this depends on the OS you are using.

Learning more about git   There are a variety of good information sources online about git. For example `https://www.atlassian.com/git/tutorials`