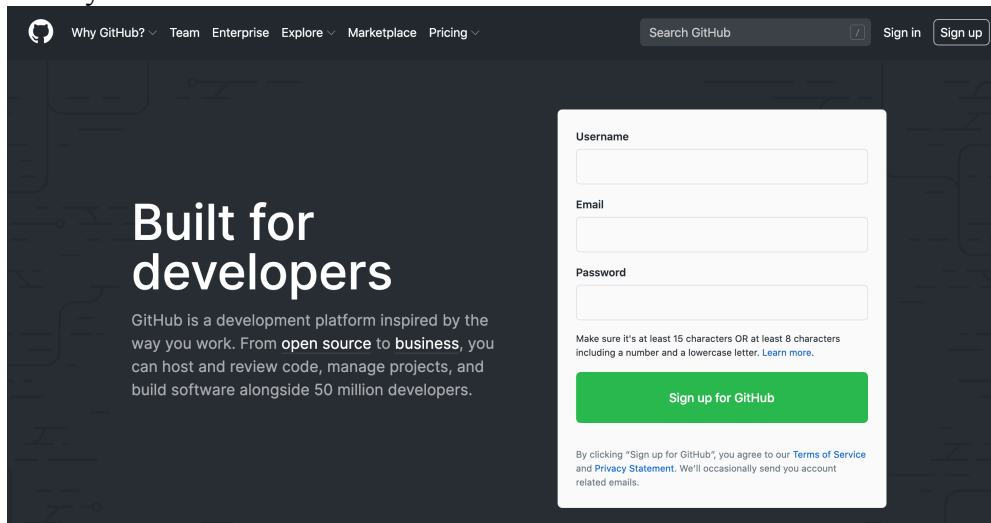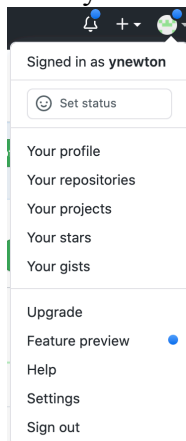**San José State University**
Computer Science Department
CS151, Object Oriented Design and Programming, 07, Spring 2021

Quick guide to using github:

1. In a browser of your choice go to github.com and create an account or login if you already have an account

2. Once you have an account and login, go to the menu on the upper right:

3. Click on your repositories
4. Click on "New" button
5. Fill in the fields. Make sure to name your repo "**SJSU_CS151_S2021**", make sure your repository is private, add README upon initialization

github tutorial

6. Click "Create repository" button
7. Click on "Code" button and copy the URL in the text box:
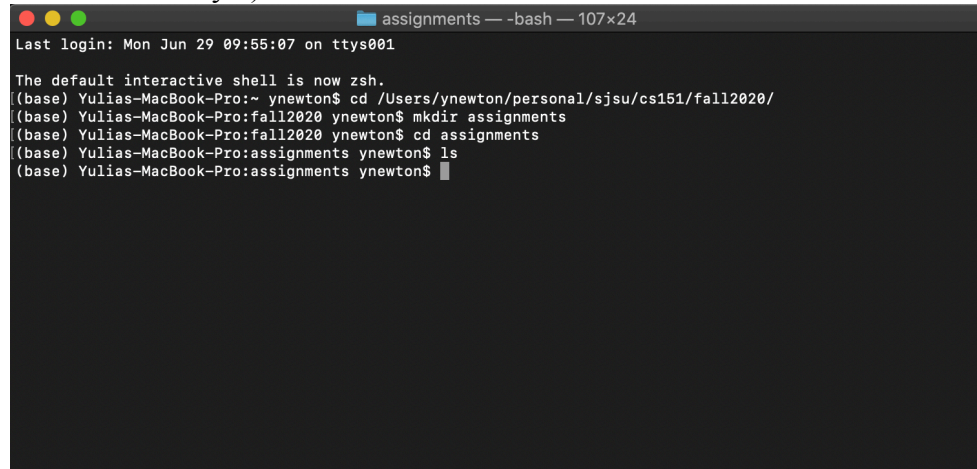
8. Go to the terminal/command line window on your computer/laptop and navigate to the directory where you would like to create and work on files for this class
   a. Use *cd* command to go to a directory
      i. E.g. "*cd my_directory*" goes to the directory called my_directory
   b. Use *mkdir* command to create a new directory
      i. E.g. "*mkdir my_directory*" creates a directory named my_directory
   c. Use *pwd* command to show full path of where you currently are
      i. E.g. "*pwd*" displays full path, no additional parameters are needed
   d. Use ls command to show the content of the current directory
      i. E.g. "*ls*" displays the contents without any additional parameters

Below is an example of my terminal window. I navigated to "/Users/ynewton/personal/ sjsu/cs151/spring2021/" directory, created a new directory named "assignments" in there, navigated into the newly created directory, and listed the contents (there are no files or directories in it yet).
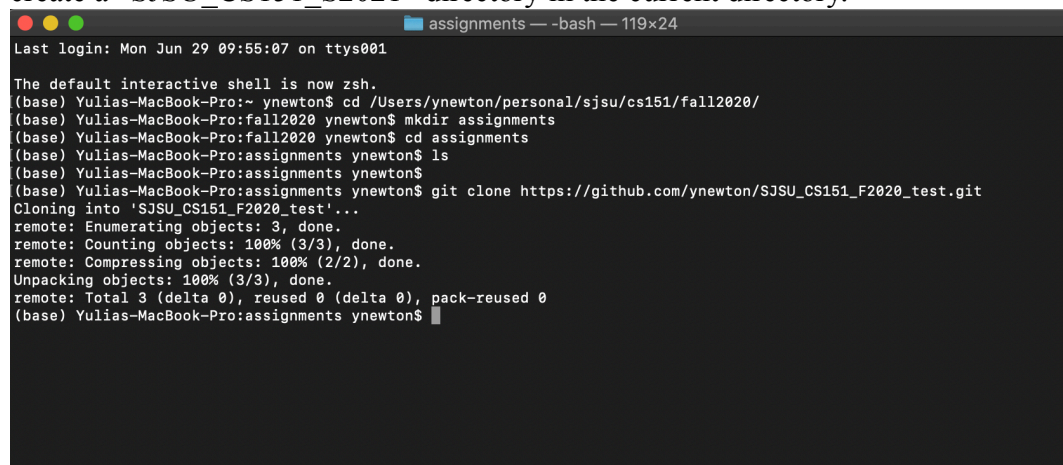
```
● ● ●                        assignments — -bash — 107×24
Last login: Mon Jun 29 09:55:07 on ttys001

The default interactive shell is now zsh.
(base) Yulias-MacBook-Pro:~ ynewton$ cd /Users/ynewton/personal/sjsu/cs151/fall2020/
(base) Yulias-MacBook-Pro:fall2020 ynewton$ mkdir assignments
(base) Yulias-MacBook-Pro:fall2020 ynewton$ cd assignments
(base) Yulias-MacBook-Pro:assignments ynewton$ ls
(base) Yulias-MacBook-Pro:assignments ynewton$
```

9. Type in the following command "*git clone paste_url_you_copied_from_the_repo_here*". You will see some output from this command as the repo is being linked to. It will also create a "SJSU_CS151_S2021" directory in the current directory.

```
● ● ●                        assignments — -bash — 119×24
Last login: Mon Jun 29 09:55:07 on ttys001

The default interactive shell is now zsh.
(base) Yulias-MacBook-Pro:~ ynewton$ cd /Users/ynewton/personal/sjsu/cs151/fall2020/
(base) Yulias-MacBook-Pro:fall2020 ynewton$ mkdir assignments
(base) Yulias-MacBook-Pro:fall2020 ynewton$ cd assignments
(base) Yulias-MacBook-Pro:assignments ynewton$ ls
(base) Yulias-MacBook-Pro:assignments ynewton$
(base) Yulias-MacBook-Pro:assignments ynewton$ git clone https://github.com/ynewton/SJSU_CS151_F2020_test.git
Cloning into 'SJSU_CS151_F2020_test'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (2/2), done.
Unpacking objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
(base) Yulias-MacBook-Pro:assignments ynewton$
```

10. Go into SJSU_CS151_S2021 directory by using this command "*cd SJSU_CS151_S2021*"
11. Create "Assignment1" directory by using this command "*mkdir Assignment1*"
    a. You can also create Assignment2, Assignment3, Assignment4, Assignment5, Assignment6, and Assignment7 directories at this time using mkdir command. However, you can also create them later when you are working on those assignments.
12. Create "about_me.txt" file using your favorite text editor and place it in the previously created Assignment1 directory. You can also use one of the command line editors to do that (e.g. vi or vim). Create the contents of this file as was directed in the instructions for

this assignment. Don't forget to save the file. Now your Assignment1 directory should list one file named "about_me.txt". You now made changes to your project which are not in git repo yet.

13. You can view the status of your repository to confirm which changes have not been committed/pushed yet. Use "*git status*" command for that.
    Here, it tells me that Assignment1 directory is not currently being tracked by my repository. Assignment2, Assignment3, and so on directories I created are not displayed here because the repository only tracks files and not empty directories. As soon you place appropriate files into those directories they will show up in the output of "*git status*" command as not being tracked yet.

14. To add it to my repository I just need to type in "*git add Assignment1*" command

15. Now we have to commit this change to the local repository by using the following command:

git commit -m "these are my assignment1 changes"

```
                    ■ SJSU_CS151_F2020_test — -bash — 109×23
(base) Yulias-MacBook-Pro:SJSU_CS151_F2020_test ynewton$
(base) Yulias-MacBook-Pro:SJSU_CS151_F2020_test ynewton$
(base) Yulias-MacBook-Pro:SJSU_CS151_F2020_test ynewton$
(base) Yulias-MacBook-Pro:SJSU_CS151_F2020_test ynewton$
(base) Yulias-MacBook-Pro:SJSU_CS151_F2020_test ynewton$
(base) Yulias-MacBook-Pro:SJSU_CS151_F2020_test ynewton$
(base) Yulias-MacBook-Pro:SJSU_CS151_F2020_test ynewton$
(base) Yulias-MacBook-Pro:SJSU_CS151_F2020_test ynewton$
(base) Yulias-MacBook-Pro:SJSU_CS151_F2020_test ynewton$
(base) Yulias-MacBook-Pro:SJSU_CS151_F2020_test ynewton$
(base) Yulias-MacBook-Pro:SJSU_CS151_F2020_test ynewton$
(base) Yulias-MacBook-Pro:SJSU_CS151_F2020_test ynewton$ git commit -m "these are my assignment1 changes"
[master 38ba850] these are my assignment1 changes
 1 file changed, 12 insertions(+)
 create mode 100644 Assignment1/about_me.txt
(base) Yulias-MacBook-Pro:SJSU_CS151_F2020_test ynewton$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
(base) Yulias-MacBook-Pro:SJSU_CS151_F2020_test ynewton$ █
```

16. The changes have now been committed to the local repository but have not been pushed to the remote repository server yet. To do that use "*git push*" command

```
                    ■ SJSU_CS151_F2020_test — -bash — 109×23
(base) Yulias-MacBook-Pro:SJSU_CS151_F2020_test ynewton$
(base) Yulias-MacBook-Pro:SJSU_CS151_F2020_test ynewton$
(base) Yulias-MacBook-Pro:SJSU_CS151_F2020_test ynewton$
(base) Yulias-MacBook-Pro:SJSU_CS151_F2020_test ynewton$ git commit -m "these are my assignment1 changes"
[master 38ba850] these are my assignment1 changes
 1 file changed, 12 insertions(+)
 create mode 100644 Assignment1/about_me.txt
(base) Yulias-MacBook-Pro:SJSU_CS151_F2020_test ynewton$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
(base) Yulias-MacBook-Pro:SJSU_CS151_F2020_test ynewton$ git push
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% (4/4), 708 bytes | 708.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0)
To https://github.com/ynewton/SJSU_CS151_F2020_test.git
   19f4195..38ba850  master -> master
(base) Yulias-MacBook-Pro:SJSU_CS151_F2020_test ynewton$ █
```

17. Go back to your repo in the browser and refresh it. You will see the Assignment1 directory show up in your repository

⠃ Branch: master ▾		Go to file	Add file ▾	⬇ Code ▾
⬤⬤ ynewton authored and ynewton committed 38ba850 4 minutes ago		⏱ **2** commits	⠃ **1** branch	⬙ **0** tags
📁 Assignment1	these are my assignment1 changes			4 minutes ago
📄 README.md	Initial commit			1 hour ago

18. Feel free to edit README.md by clicking the edit/pencil button in the upper right of it.