Git Command line basics

Working dir → Staging Area → repository
               add                  commit


$ git --version

$ git config --global user.name "Zongming Yang"
$ git config --global user.email "[zongmiy@clemson.edu](zongmiy@clemson.edu)"

$ git config --list
$ git config --help | git help config, git help <verb> or git <verb> --help

1. initialize a repository from existing code
$ git init

2. before first commit
$ git status
add .gitignore file:



  .DS_store
  .project
  .xxx


3. add files to staging area



$ git add note.txt
$ git add -A
$ git reset note.txt
$ git reset

4. commit locally
$ git commit -m "some message"
$ git log

5. cloning a remote repo
$ git clone <url> <destination>

6. view info about remote repository
$ git remote -v
$ git branch -a // show all branch including remote repo
$ git branch // show local branch

7.  push changes

## PUSHING CHANGES

### COMMIT CHANGES LIKE WE DID PREVIOUSLY

```
$ git diff
$ git status
$ git add -A
$ git commit -m "Modified multiply function"
```

### THEN PUSH:

```
$ git pull origin master
$ git push origin master
```

8. create a branch for desired feature
$ git branch cal-divide
$ git branch
$ git checkout cal-divide // switch to this branch
$ git branch

9. push branch to remote after commit

```
$ git push -u origin calc-divide

$ git branch -a
```

10. merge a branch

## MERGE A BRANCH

```
$ git checkout master

$ git pull origin master

$ git branch --merged

$ git merge calc-divide

$ git push origin master
```

11. delete a branch

# DELETING A BRANCH

```
$ git branch --merged

$ git branch -d calc-divide

$ git branch -a

$ git push origin --delete calc-divide
```

$ git branch -d xxx // delete locally
$ git push origin –delete xxx // delete remotely