**Installing git on mac**

* git version

**Help Commands**

* git help
* git help config
* git help command

### **Git Configurations**

* pwd
* git config --global user.name “Albert Sunil”
* git config --global user.email [albert.sunild@gmail.com](mailto:albert.sunild@gmail.com)
* git config --global --list
* cat ~/ .gitconfig

### **Working with Git**

* git init *foldername* (*it creates new folder with folder name as ”foldername*”)
* git init (*git initialises in the working directory*)

### **First Commit**

* git add filename (*filename gets added to the working git project)*
* git status (*lets you know if there are updates in the folder or not)*
* git commit -m “Initial Commit” (*commit with message)*
* git commit

**Working Locally Commands**

* git commit -am “Committing all the modified files” (*Skipping add command)*
* git add . (*Adds all the modified file to the stagging env)*
* git commit -m “Coming all the modified files in the stagging env”

**Getting Historical**

* git log (*gets the history of the changes made in the directory)*
* git log --online --graph --decorate --color

**Removing files**

* git rm file
* git commit -m “Deleting the file”

----------------------------------------------------------------------------------

* rm file
* git add -u
* git commit -m “Deleting the file using rm method”

**Moving files**

* git mv file foldername
* git status
* git commit -m “moving file to new folder”

**Ignoring Files**

* git mate .gitignore
* \*.log (*add this line inside the gitignore file which will ignore all the files with .log within the folder)*

**Setting Up SSH Authentication**

* cd ~
* cd .ssh
* mkdir .ssh
* cd .ssh
* ssh-keygen -t rsa -C “[albert.sunild@gmail.com](mailto:albert.sunild@gmail.com)”
* mate is\_rsa.pub
* ssh -T git@github.com

**Upgradation in git**

* *Earlier the default branch was “master” as default. Git version 2.28 and later the default branch is “main”.*

**How to change the branch name in the UI**

* *Go to profile 🡪 Settings 🡪 Repositories 🡪 Repository default branch 🡪 provide branch name accordingly*

**How to change the branch name through terminal**

* git branch -m main
* git init -b main git-demo
* git config --global init.defaultBranch main

**Git Push and Clone**

* git push
* git clone
* git remote add origin <https://github.com/albertsunild/git-demo.git>
* git push origin main
* git push origin push