Git initialization

**Way 1:**

cd ~/nameOfFolder

git clone <Link> <folderName>

Example: git clone <Link> dev1

**Way 2:**

mkdir dev2

cd dev2

git init

git remote add origin <clone with SSH>

**To get the remote changes locally:**

git pull origin master

**To view all files in directory:**

ls -la

**To view history of commits:**  
git log

git log -p -2 (p is patch 2 means last 2 entries)

git log --stat

**To view configuration:**

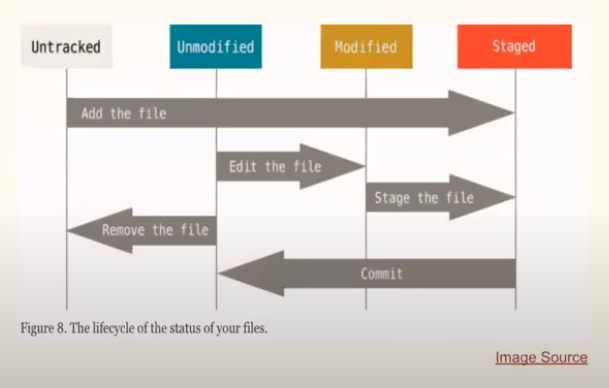
git config --list

**To create a file:**

echo ‘Hello, World’ > hello.md

**To see the status(untracked):**

git status



**To add the file: (Staged condition)**

git add hello.md

git add .

**To commit file:**

git commit -m ‘C1:master Add hello.md’ (-m is message)

**To view the changes occurred in the commit:**

git log -p <hash of the commit from “git log”>

**To commit to server:**

git push origin master(branch name)

**To view local branch:**

git branch

**To view remote or server branch:**

git branch -r

**To inspect a remote server:**

git remote show origin

If we have minor changes which were an accident in the previous commit and we don't want to use another commit then we use the amend command.

git commit --amend -m ‘C1:master Add hello.md’ s

**To ignore certain files:**

nano .gitignore

//file names

node\_modules

.DS\_Store

**Create new local branch:**

git branch b1

**Use b1 branch:**

git checkout b1

**Toggle branch:**

git checkout -

**Shortcut to create a branch and toggle to that branch:**

git branch b11; git checkout b11

These 2 commands become:

git checkout -b b11

**Delete a branch:**

git branch -D b11

**Without committing if I want to save the progress:**

git stash save ‘more change’(give a message like commit)

git status returns a clean working directory.

git stash list

// go to other branch to complete other work.

==>Come back to the node b11 in which the incomplete work was done.

git stash apply

//  if I want to apply other stash then copy from stash list:

git stash apply stash@{1}

**To delete stash:**

git stash drop stash@{1}

**To apply a stash and delete the stash:**

git stash pop

git fetch origin; git merge master -> git pull origin master

**Ignoring Files:**

Nano .gitignore

**Removing Files:**

git rm PROJECTS.md

**Renaming Files:**

git mv file\_from file\_to

**To create Tag:**

git tag -a v1.4 -m "my version 1.4"

**To view tag:**

git tag

git show v1.4

**Sharing Tags**:

git push origin v1.5

Multiple tags:

git push origin --tags

**Deleting Tags:**

git tag -d v1.4

**Show where branch pointers are pointing:**

git log --oneline --decorate

**history of your commits, showing where your branch pointers are and how your history has diverged:**

git log --oneline --decorate --graph --all

**Graphical merge tool:**

git mergetool