GIT and GITHUB

- maintaining
- > saving the history of your project
- At what particular time, which person made on which change, where in the project. Git helps in doing that
- -> GITHUB is a platform, an online website that allows us to host our GIT respositories.

what is a repository?
-basically a folder where au the changes are saved.

end > (windir git, LS,

-> Terminal allows us to to manipulate the file structure using commands.

GIT: is the version control system like tech & there are so many other enline platforms that allow us to host these folders repositories or our project online so other ppl around the world can share look contribute of these are known as like Github, bit bucket, Gitlab.

cls - to clear screen in cond

Terminal allows us to manipulate the file structure usily commands.

commands: is or dir (lists all the things in that folder)

mkdir (make directory | new folder)

cd (change directory)

where is this entire history being stored? all of these histories are stored in another folder that Git provides us, this is known as a Git repository of its named git grame of the folder?

· dot in linex & mach systems, these are files that are hidden now, how do we get this folder?

git init finitialise an empty git repository

how do I see that hidden file?

LS -a or dir /a we can even see what's inside git command→ dir git

#commands! touch filename.txt fanother way to mkdir?

if touch is not recognized use npm install touch-di -g

rmdir filename fto delete filefdirectory? use del fto delete?

now git status tells the history but it is untracked in not raved

>how do we maintain these changes?

aufiles/without: just pleify file name

git add. I puts everything on staye 11staying area?

now they are ready to get pictures clicked

git commit & save updated file with changes or just save history?

notepad filename } to edit the file?

cat or type filename to display the content of the file? -> Suppose we don't want to take thepicture of that person because it has already been taken or whatever like you don't want to commit => git restore -- staged filename > now check if it is untracked | removed from staye or not git status git log {to see the history} if you want to delete the commit just copy the hosh ID of the the commit just below one like [commit?] if you want to delete 1,2 copy commit 0's hash ID (commit) git reset hashID Now, it will be removed from git log => git stash Suppose we gent some pplat back stage booz don't want to > git stash pop Sbring them back on stage?

right nor -> git stash clear & removed from backstage also? right now Now, I want my repository to be linked with my project git remote add origin orlareso what is the we're working addity the work of orl goily to be that you're with urbs to cald (can be anything) git remote -v sauthe uns that are? origin is not keyword # fork sto make changes in someone else's git push a updates history on GITHUB? repo, makes a which is not git clone & downloads the project/repo? going to change # Fork is the copy of that repo, it will not save changes the project maintainer approves your changes and merge your code via a pull request. in original tepo? git remote add upstream or Sfrom where you've forked the project?

I the main branch? 11 git branch khishi s head will now be on the knowing git checkout knows branch } all the commits made now on will go onto the khoshi branch 7 git push origin khushi I force push } when we have removing a commit from pull request by force pushing to it. I we reset it to del that? > How to sync fork from cmd? step) git fetch -- all -- prone Gauthe Wither ones that are branches Step 2:) git reset -- hard upstream/main S if doesn't work: reset the main branch of my origin git fetch upstream to the main branch of upstilam Stetch latest changes so that or local repo is up to date; git branch -r ilists branches available in # To exit the "git log" type of press "Q" upstream' remote. ? ? -> Rather than above two steps there's another way to fet !git pull upstream main & this only does it for local folders? git push origin main S to fetch it on origin utls # multiple commands can be written separated by; semi colon Edidn't work but GPT says use && instead of; I did it separately though Il worked. 2. How do I merge several commits in a single commit? git rebase -i hashID of last commit of origin armain something this will open code editor i-) interactive shell # Pick & Squash pick > means you're taking this commit s - oubove this s whichever pick you have, merge your commit in 2 fruill be merged into 1

save the file

press ctrl+w/wimor rescl:x (mai) sidelete other messages that

you don't want ?

Merge conflicts+