

Git & Github

Mehrab
①

Two parts → Local (My computer)
→ Remote (cloud)

Local

Working Directory (Work) → Stage → Local Repository (Folder) → Remote Cloud
(add) → commit → push

Terminal name: gitbash

git init → initialize a folder into git surveillance

git clone URL → will make a local folder exactly as the cloud repository

ls → list of the folder

git status → will show what is changed. (summary)

git reset → will reset

Git staging: (we take the changes into stage, Not the files)

git add --add { will take all files into stages

git add -A

Then check status

to get back → git reset

Mehrab
②

staging

git add . → will take everything only from the folder

git add filename → will stage only the file

git add *.file.extension → will stage the same name file

If any file is deleted and I want that back

git reset --hard

git rm file → will delete the file and auto stage

git commit (kind of save)

stage extra file / After staging we will commit.

git commit -m "Comments"

Then check via status

everything will be saved in the local repositories

git reset HEAD~ → Will reset into the Working Directory

Branching

git branch → will show how many working Directory Branch

git branch new_name → will create a branch and will copy the main branches

git checkout branch_name → will go to the branch

The local repository will not have two branches visible but it will do the thing in the same folder invisibly.

Merging Branches:

git merge main -m "comment" → Subbranch will have everything from main

↑
We have to checkout to subbranch first to merge or add data from main to subbranch

Then change into main by checkout

git merge subbranchname

now main will have everything from subbranch.

Mehrab

①

Push to remote from local machine to cloud/github

git push origin branch-name

If there's branch it will assign to that otherwise will create new.

It brings from remote to local → git pull

Merging branches

git merge main → "main" or "master" branch will have everything from main

He have to checkout to branch first to merge or add data from main to branch

Then change into the main of checkout

git merge branch-name

now main will have everything from branch