

# Git

→ git → free & open source [version control system]

→ tools that help to track changes in code

1> track history

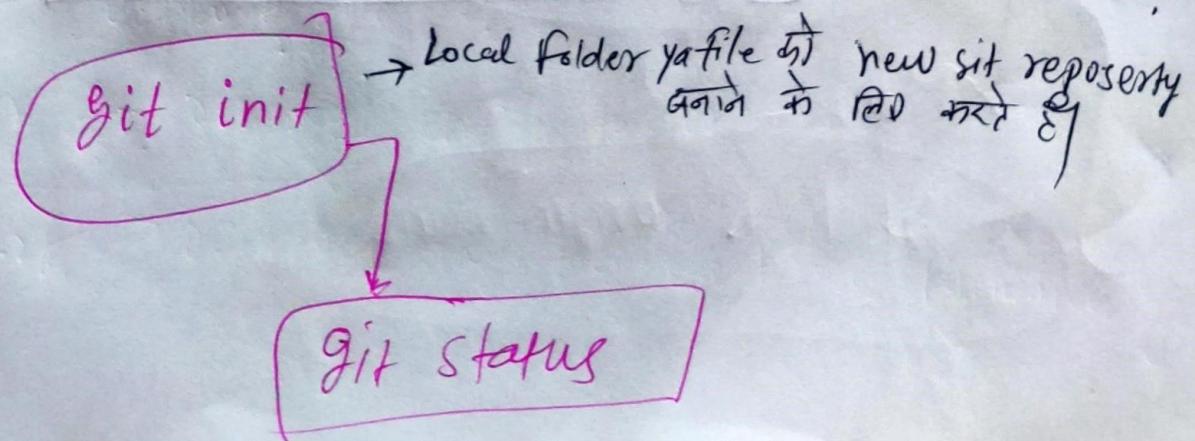
2> help to collaborate

3> fast

## Using git

- Command line → most use.
- IDE/Code Editor (like Vs Code)
- Graphical User Interface (like GitKraken)

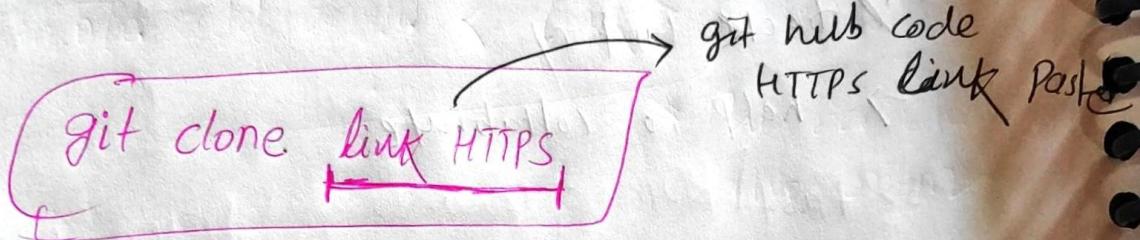
Git status → ~~git status~~, तो कैप्ट के फैले परेंट के पास करें।



## out in vs code terminal

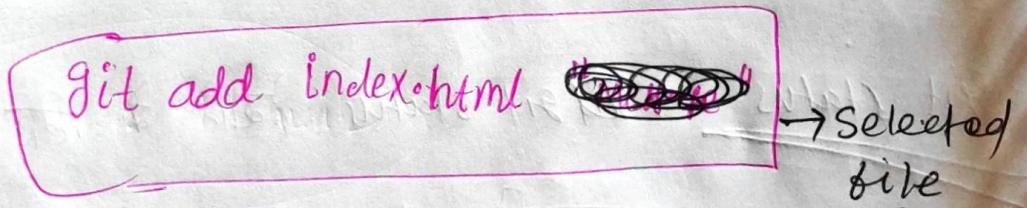
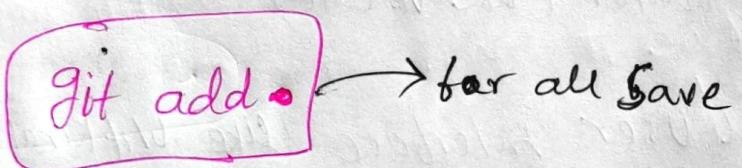
step ①

To add the github folder and files



step ②

▷ add - Code edit in vs and you create a new file and folder to add then write.



② Commit - git's record the changes

git Commit -m "Message"

③ push - to finally upload your code in github to the new repository and update

git push origin main

one short for push ~~edited~~ file in vs code or save codit  
~~New~~ This for send new file on github

git add .  
git Commit -m "Message"  
git push origin main

## Basic Command

init → Used to create a new git repo in vs code and push

git init

git remote add origin <--link>

\* This for change the origin

git remove -v

git branch

git branch -M main

git Push origin main

Process to push New folder on  
github on Vs code

Upload your New folder & file on Github in  
Vs code terminal  
using  
git

## Process

Step 1

git init

Step 2

git add .

Step 3

git Commit -m "Message"

Step 4

Create repository on github

Step 5

COPY the HTTPS code link = "..."

Step 6

git remote add origin "link paste"

Step 7

git Push origin main

## Code flow

Github

Code change



Commit

git branch

Local git

Code change



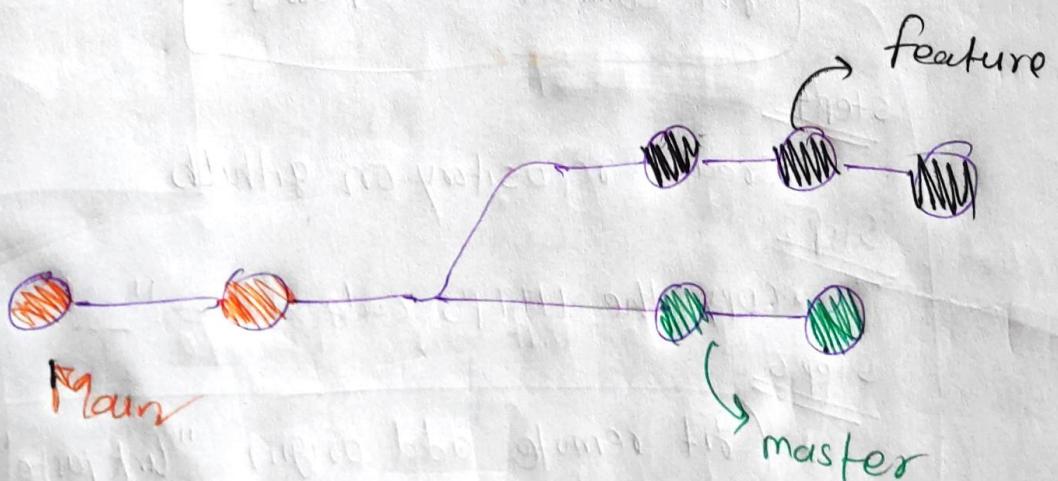
"add"



"Commit"



"push"



## Branch Commands

→ New branch नये से full code लेंगे  
old को update करना यह बदले change  
एवं अपेक्षित work या random bug  
मिल जाएगा तो तब its good.  
also each member work through different  
branches

git branch → to check branch

git branch -M main → to rename branch

git checkout <branch name> → to navigate switch

git checkout -b <New branch name> → to create new branch

git branch -d <branch name> → to delete branch

Note →

→ delete branch - यहाँ आप main branch से इसके

git branch -d ~~Main~~ करेगा तो ye error out  
आएगा कि विलय branch से ही उसको delete नहीं  
कर सकते हैं।

push New branch

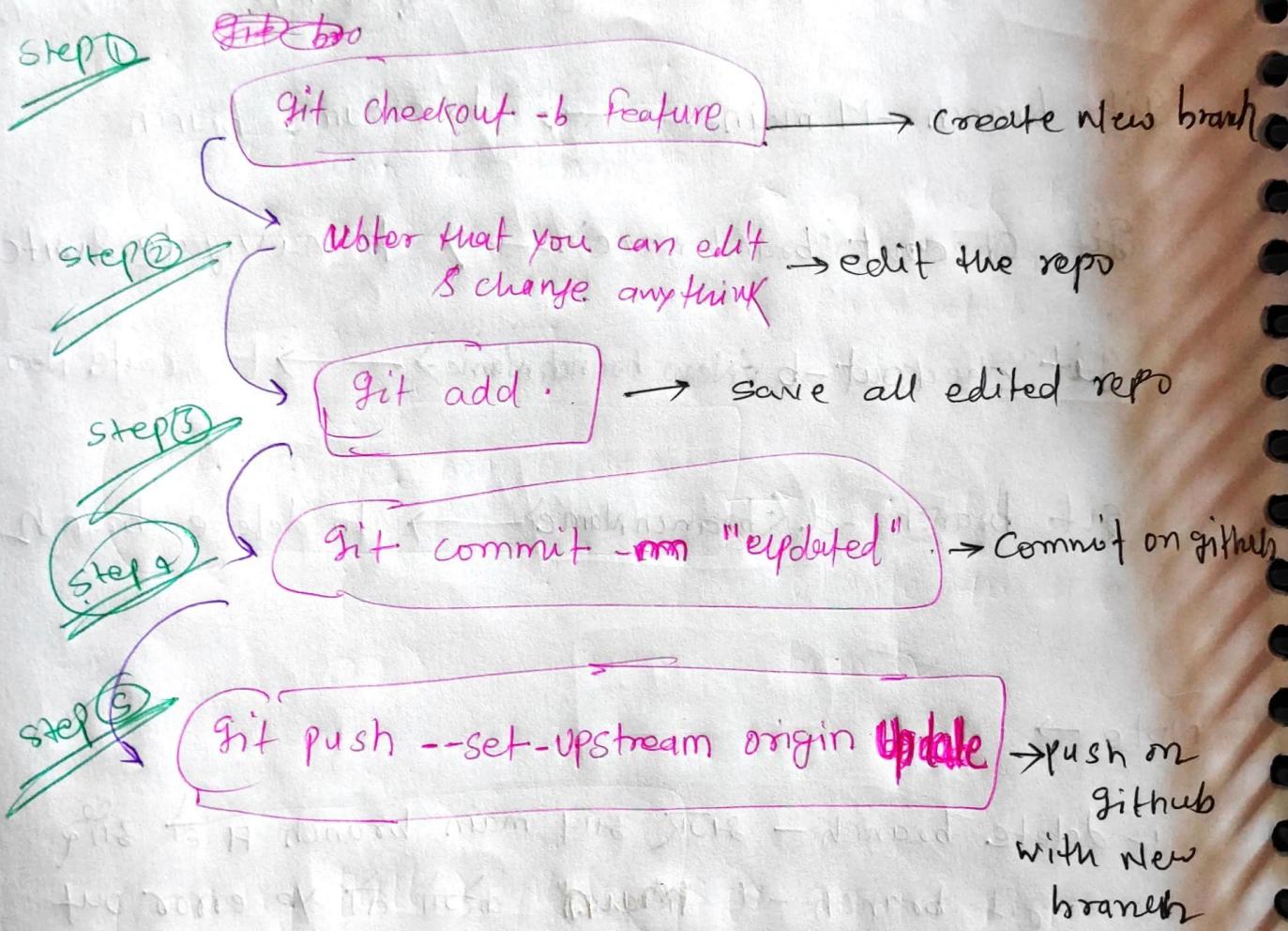
to full project

git push --set-upstream origin [update]

New  
branch  
Name

## adding New branch terminal code

Rish now your branch **main**



### Note =

New branch  $\nwarrow$  change git add or delete  
करने से उत्तर branch  $\nwarrow$  effect होती  
है।

## Basic Command

step

GitHub → local machine

(git pull origin branch)

Note →

github में यहाँ change को edit के vs code terminal  
में update करने के लिए pull का use करेंगे

step

local machine → GitHub

(git push origin branch)

Note -

vs code terminal में यहाँ change को github  
में update करने के लिए push use करेंगे

## merge code

→ यह एक नया branch है जो कि change करके दे सकता है  
branch को इसी changed को main branch में add  
कर merge करते हैं तो git merge use करते हैं।

git diff branch name

→ for check difference  
what changed in  
current branch

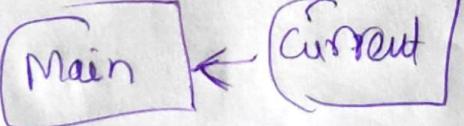
git merge branch name

→ for add current  
change to the main  
branch

or

Using pull request  
on github

→ git add के पास main branch  
में diff करते हैं।  
diff करने के लिए team member  
easily understand  
कर सकते हैं।



~~Fix~~

## Fixing method

Case① : stage change

(git reset filename)

→ Particular file के Recent change को reset करता है।

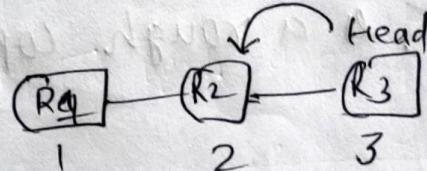
(git reset)

→ ऐसा file के Recent change को Reset करता है।

Case②

(git reset HEAD ~1)

→ एक single Commit के change को do back



Case③

(git log)

→ सबसे प्रारंभिक commit का full detail का लाभ hash की देता है।

(git reset Commit hash)

→ एक recent commit के unchange करता है।

(git reset --hard Commit hash)

→ ऐसे Recent changes को delete करता है।

## Forking

- fork का option GitHub पर होता है।
- अब आपको दूसरे person का code/repo में edit करना।  
इसे तो आप directly नहीं पाऊगो तब use आता है fork option।
- उमेरे दूसरे person का repo को आप fork करका तो उसका same name वाला repo आपके account में add हो जाएगा।
- Then आप इसकी edit कर सकते हैं।
- fork is a rough copy.