Git

Version Control System is a tools that helps to track changes in code Git is a Version Control System. It is:

popular

free & Open Source

fast & scalable

1) toack the history 2) collaborate



Clone & Status

Clone - Cloning a repository on our local machine

git clone <- some link ->

status - displays the state of the code

git status

remote local
[Github] [laptop IPC]

cd - charge directory

ed - charge directory

PS C:\Users\hp\Downloads\harsh demo vs code\bothub-harshlearning> ls

Directory: C:\Users\hp\Downloads\harsh demo vs code\bothub-harshlearning

Mode	LastWriteTime	Length Name
-a	14-07-2025 06:50 PM	68 README.md

PS C:\Users\hp\Downloads\harsh demo vs code\bothub-harshlearning>

untracked

new files that git doesn't yet track

modified

changed

staged

file is ready to be committed

unmodified

unchanged

Add & Commit

add - adds new or changed files in your working directory to the Git staging area.

git add <- file name ->

commit - it is the record of change

git commit -m "some message"

Push Command



push - upload local repo content to remote repo

git push origin main

Init Command

init - used to create a new git repo

git init

git remote add origin <- link ->

git remote -v (to verify remote)

git branch (to check branch)

git branch - M main (to rename branch)

git push origin main

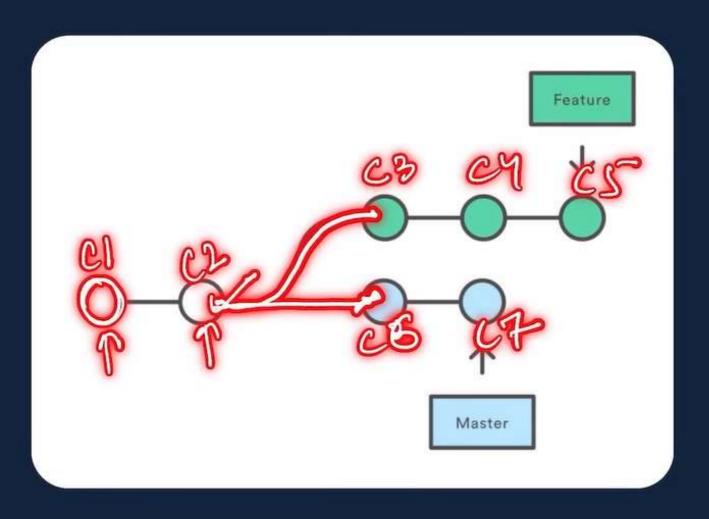
git push-u origin main set som

WorkFlow



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Git Branches



Branch Commands

```
git branch (to check branch)

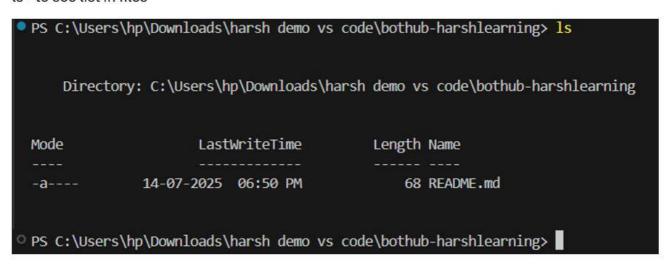
git branch -M main (to rename branch)

git checkout <- branch name -> (to navigate)

git checkout -b <- new branch name -> (to create new branch)

git branch -d <- branch name -> (to delete branch)
```

ls - to see list in files



Ls -a = this $\underline{\text{show}}$ the hidden files.

Merging Code



Way 1

git diff <- branch name->

(to compare commits, branches, files & more)

git merge <- branch name->

(to merge 2 branches)

Way 2

Create a PR

