git init= to initialize an empty repository

git add . = to add all the files in CWD to staging

git diff –cached = this is done to see the changes that you made in current vs prev file

git commit -m “write commit msg” = to commit everything there in stagging to repository

git status = to check the status if there is anything to commit or not

git log = to see all the logs regarding commits that have happened

git show commit\_id:filename = this is to check older version of any file mentioned with filename

the above is suitable for one file and that too a small file, to get older version all files :

git checkout commit\_id – filename or \* = you get the older version of the all the files or only for filename

git checkout branchname – filename or \* = to retrieve back the changes

To restore the file back to its prev version incase you have done mistaks and you want the original file=

**git restore filename or .**

To restore the file back to its prev version incase you have done mistaks and you have staged the file and you want the original file back

**Git restore –staged filename or .** = to unstage the file

**git restore filename or . =** to bring back the prev version

If you staged a file and it is proper and you want it to be committed, but while it is in stage you did some mistake in file and saved it now you status will show one file to stage and one file untracked. Now undo the mistake done in untracked file

**git restore --worktree index.html**

What if we commit wrong code or unwanted changes?

**Git reset –soft HEAD^ = this only uncommit the commit**

**Git reset –hard HEAD^ = this uncommit the commit as well as undo all the changes done in the file**

git log -p -1 = to see the log of difference between last 1 commits

git log --stat = to the short summary of every commit

git log --pretty=oneline -> to see the one line summary of every commit

git log --pretty=format”%h - %an, %ar:%s” = %h is a key, %ar=author name, %ar = time till commit, %s= string

git log -S fun\_name = this is to see when a particular function was added to the script

git log --since=”2024-19-09” = commits done since “date”

git log –until=”2024-19-09” = commits done till “date”

git log –author=”Shivdatta” = to see all the commits done by Shivdatta

**To connect your existing local Repo to github repo**

git remote add origin <https://github.com/shivdattaredekar/git-Learning.git>

git branch -M main

git push -u origin main

after making any changes to file in local, to push the changes to github

git push

after making any changes to file in github, to push the changes to local

git pull

To create a new branch from an existing branch

git branch branch\_name

to move from current branch to new branch

git checkout branch\_name