

github - git

Page No. _____

Date _____

- git init

- git add . or git add file name

- git log or git log --oneline : display commit snapshots

- gitignore : used in git repo to ignore files and folders when using git.

- gitkeep : a convention used by git user to track empty directory in a repo.

* • To create branch

→ git branch branch name

- Switch to different branch

→ git switch branch name or

git checkout branch name

- create and switch to that branch.

→ git switch -c branch name

- to merge branch

→ go to branch on which you merge (git checkout main)

→ git merge branch name (git merge --no-commit)

- Conflict when changes in same file

• to abort → git merge --abort

- rename current branch

→ git branch -m new branch name

• rename any branch

→ `git branch -m old branch new branch`

• delete branch

→ `git branch -d branch name`

* git diff

• Compare staged area with repo

→ `git diff --staged`

• Compare b/w branch

→ `git diff branch name1 branch name2`

→ `git diff branch name1 .. branch name2`

• Compare specific commit

→ `git diff commit hash1 commit hash2`

* git stash :- A built-in command in git that temporarily save changes to your working directory so you can switch branch or work on other task without committing your changes.

• `git stash` or `git stash save "note name"`

• to get all list → `git stash list`

• to apply the last stash → `git stash apply`

- To apply specific stash

→ `git stash apply "stash@{1}"`

- To remove most recent stash

→ `git stash drop`

- To remove specific stash

→ `git stash drop "stash@{3}"`

- To apply most recent stash and delete it

→ `git stash pop`

- To apply and delete a specific stash

→ `git stash pop "stash@{2}"`

* Creating tag.

- create tag → `git tag tagname`

with message → `git tag -a tagname -m "message"`

- Show all tags → `git tag`

- Tag a specific commit → `git tag tagname commit hash`

- To show details of a tag → `git show tagname`

- push to remote repo → `git push origin tagname` or
push all tags `git push --tags`

- delete local tag → `git tag -d tagname`

from remote repo → `git push origin: tagname`

- tag do not get pushed on remote repo when we use `git push`

* Git rebase: used to change the base of a branch it allows to move a branch to a new starting point.

• `git rebase main` (name of branch to which point)

* `git reflog` : that keep a record of changes made to a git repo's branch, commits and other pointers.

* `git log` : display the history of commits for a branch or file.

* Undo changes

• `undo` staged changes

→ `git reset file name` or `git reset`

• `undo commit` (before or after pushing)

→ `git reset --hard commit hash` or

`git reset --hard "HEAD@{2}"` then `push`

This command absolutely removes the pushed commit from the remote history.

→ `git reset commit hash`

it creates a new commit to undo changes. (then push)

Git: Git is a version control system (VCS) that tracks changes in computer files, especially source code in software development.
Git itself manages changes to source code over time.

Aidhub: it is a cloud based platform where we can store, share and work together with others to write code.

- git --version
- git config --global user.name "prince"
- git config --global user.email "abc@gmail.com"
- git config --list

→ git status : to display status of code.

- untracked : new file that git doesn't track yet
- modified : changed
- staged : file ready to commit (file added)
- unmodified : unchanged

→ fork : A fork is a new repo that shares code and visibility setting with the original "upstream" repo.
→ it is rough copy.

- git init : initialize the git
- git branch -m main : change master to main branch (rename)
- git remote add origin url : add new remote repo
- git push -u origin main : to set upstream to avoid use of origin main
- git remote -v → verify the remote.