

what is git?

- GIT is a version control system which is used to track changes in the files/folders.
- GIT is also used to collaborate within the team.
- GIT is open-source and free to use.
- when multiple developers are working together git provides a collaboration between them.

what is GITHUB?

- GITHUB is a website to upload your repositories online.
- GITHUB is used to store codes/data permanently.
- GITHUB provides backup's.
- GITHUB provides visual interface of your repo's.
- GITHUB makes collaboration easier.

installation of git and GitHub:-

intallation of git and GitHub.

GIT -> <https://git-scm.com/downloads/win>

GITHUB -><https://github.com/>

- create account -> email -> password -> username ->

puzzle -> create for free -> login

-> create new repository -> repo name -> public -> create repository.

- we have to work on pushing and pulling the code into repo by using "GIT COMMANDS".

- before pushing and pulling the code for the very firsttime in Git ,
- we have to configure the settings like email & username.

- git config --global user.email "example@gmail.com"

- git config --global user.name "username"

commands:-

git init :- this command initialize the repository in the local machine.

- once repo inttilized all the files inside the folder will be in untracked files list.

git status :- to check the status of the changes in the file/folder

git add filename:- to add the untracked file to stagin area(tracked files).

- when we have multiple file for tracking we use the command called "git add ."
- once we use thid above command all untracked files become tracked files and they are ready to push into remote repo.

git commit -m "message":- this command is used to write commit messages for the changes done for the files.

git push:- it is used to push the tracked files from local repo to remote repo.

1. git remote add origin "url of the remoterepo"
2. git push -u origin master

git log:- this command is used to see the log history.

note:- once we push the code to the remote repo and again if we made some changes in the file that changes will not update directly on the remote repo. we have to commit again and we have to push it agin to remote repo by using commands like git add . , git commit , git push.

git clone:-it is used to clone the copy of repo into local ,machine

- 1.create a new folder on desktop.
- 2.clone the repo by using command called

- git init
- git clone urloftherepo
- navigate to git folder
- cd foldername

- make changes to the files / add new file then
- git add .
- git commit - m "msg"
- git push -u origin master