**GIT and GITHUB NOTES**

Link for GitHub Notes : https://drive.google.com/drive/folder...

**GIT:** Version Control System is a tools that helps to changes in code Git is a VCS

-it is: popular,

free& Open source

fast & scalable

-1)Track the history

2)Collaborate

**Configuring git:**

**~**git config--global user.name "MY Name"

**~**git config --global user.email "some email"

**GITHUB :**Website that allows developers to store and manage their code using Git.

changes ---1)add 2)commit

***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 cotext to remote repo

-git push origin main

remote(github)<--push--local(laptop)

**INIT COMMAND**

-init-used to create a new git repo

git init

git remote addd origin<-link->

git remote-v (to verify remote)

git branch (to check branch)

git branch-M main (to rename branch)

git push origin main

***WORKFLOW OF LOCAL GIT:***

Github repo-->clone-->changes-->add-->commit-->push

***BRANCH COMMANDS***

git branch (to check 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)

***MERGING CODE***

WAY 1

GIT DIFF <- BRANCH-> (TO COMPARE COMMITS,BRANCHES,FILES,&MORE)

git merge <-branch name-> (to merge 2 branches)

WAY 2

create a PR

***PULL REQUEST***

it lets you tell others about changes you've pushed to a branch in a repository on Github.

***RESOLVING MERGE CONFLICTS***

An event that takes Git is unable to automatically resolve difference in code between two commits.

***UNDOING CHANGES***

case 1: staged changes

git reset <- file name ->

git reset

case 2: commit changes (for 1 commit)

git reset