## Git & Git Rub

Git: Version Control system is a tool that helps to track charges in code.

Gitt is a Varsion Control System. It is popular, frec & open source and fast & Scalable.

-> Track the Letroy of code

-> Collaborate with many developers on prijects

GH-Rub: website that allows developers to store and manage their code using but Lttps://github.com

{ folder -> repository (repos) }

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Github Account create new repository: ruderesh-patel-demo.
Make your first commit

Setting up Git

15 Install Visual Studio Code. Download Windows (Git bash) - for git user.

I'm terminal, alt -- version and tet enter.

Configuring Git :git config -- & global user name "Rudresh" git config -- global user errail "rudreshpatel 504@gmoil.com" get config & -- list Clone & Status clone - aloning a nepository on our local mechine → git clone <-gethub project link >
Status - display the state of the code -> git status. (for hidden item toshow -> ls -a') \* untracted - New files that git doesn't yet track \* modified - changed in file.

\* stoged - file is ready to be committed \* unmodified - unchanged.

Add & Commit
add- adds new or changed files in your area.
the necord of change
-> get comme
Puch Commond!  puch - upland local nepo content to remote repo content to remote repo local nepo content to remote repo local
init commond?
=> git siemote add origin remote)
-> git branch ( to nemote branch)
→ git branch - M mouri (10 /15)  → git push origin main. (git push -u origin main)  short form)

But and By party work flow-Local git - Brithub nepo clone charges the line add commit push. Git Branches + Command! → git branch (to check branch) -> git branch -M main (to rename branch) -> git checkout < branch name > (to nevigate) -> git checkout -b ( new branch name) ( to create → git branch -d (branch name) (to delete branch) Menging alde: finst method -(branch name) (to compare git diff commits, branches, files 4 more & branch name) (to merge 2 git mesige branches) Second method -Create a PR. (Poll Request)

Pull Request It lets you tell others about changes you have pushed to a branch in a nepository on Gittub. Pull Commond &--> git pull origin main used to fetch and download content from a repo to match that content. Resolving Mesige Conflicts:-An event theet takes place when git is unable to automatically nesolve différence in code between to commits, Undoing Changes 1. Case 1: 3-taged changes -> got reset < file name> → git neset Case 2; committed changes (for one commit)
get neset HEAD-1 Case 3:, Committed changes (for many commits git neset (commit hash) git reset -- hard (commit -bash)

Fork: A fork is a new suppository that showes of code and visibility settings with the original "upstream" ecopository.
Fork is a nough copy. 6 o ments broken bed words been dolded to been the product of the contests of the contests of the contests of the product of the contests of FIR down of the webs perty restole front have the and the matter than the difference of the code the Cardonal Character in Case I'm stopped charges < present a filemannes - get neset get and the season (do one top General of of or office of the many diese Homoropy bene tig