Git Introduction

Sunday, August 28, 2022 11:03 PM

- 1. pwd :--- present working directory
- 2. git config --global user.name "anurag" :--- set username
- 3. git config --global user.email "anuragkumargupta02@gmail.com" :--- set email
- **4. git config user.name :---** show username
- **5. git config user.email :---** show email
- **6. git status** :--- this is used to see the status of git repo weather everything is commit or not or what things I need to commit etc.
- 7. git init :--- to initialize the a folder as a git repo
- 8. git add --a :--- to add all file in stagging area for commit
- 9. git commit -m "message for commit" :--- used to commit the changes
- **10. git log :---** used to see the previous commit
- 11. rm -rf .git :--- this is used to delete all the content of the specified folder or file here folder name Is .git
- **12. git clone URL name(name is optional) :--** used to clone the code base in local repo hosted in the given URL and want to save this code base in local by giving a name or if we do not give the name then it is clone as same name which is present in
 - the URL
- **13. touch filename.txt :---** create blank file of given name ex : touch error.txt
- **14. .gitignore** :--- in this file we mention the file name or directory name which we want to ignore means not want to store in the git repository.
- 15. git diff:-- is used to compare working directory and staging area
- 16. git diff --staged :-- is used to compare purana git commit with present staging area
- **17. git commit -a -m "message" :---** this command is used to direct commit the file in git repo skipping the staging stage
- **18. git rm fileName.extension :---** used to delete file from git and do commit after it will remove file first from local git repo after that it is commit to the git
- 19. git mv oldfilename newfilename :--- rename file name
- 20. git rm --cached filename: --- used to untrack the file
- 21. git log p :--- it show details like who when and what changes are made in previous times
- **22. git log --stat** :- give the compressed summary of changes
- 23. git log --pretty = oneline
- 24. git log --pretty = short
- 25. git log --pretty = full
- 26. git log --since=2.days/months/years
- 27. git commit -aamand :--- used to append the changes with existing commit
- 28. git restore -- staged fileName :--- used to unstagge the files from the staging stage
- **29. git checkout -- filename :---** this command is used to undo the changed or back to previous commit for a particular file it restore the previous file and remove the current changes
- **30. git checkout -f :---** it is used to back to previous commit and lossing all the current changes including all file and folders
- **31. git restore filename :---** used to undo the specific file chnages

Git Remote :-GIT HUB

- **32.** Shift + insert se gitbash mai paste hota hai
- 33. Git remote add origin url (remote git repo add)

35 **SETUP GIT HUB**

setup remote repo means create an account in git hub site and create a repository in git hub

Step1. First create git repository in local

Setp2. open git bash in the local repository

Step3. run this command in local repot this coomand is given by github repository only git remote add origin https://github.com/anuraggrd/gitTutorial.git"

Here origin is the alise name of this url. You can alise name as per your choise

Step 4. git remote -v Step 5. git push -u origin master

Step 6 how to generate SSH key

go to this url here all the	https://docs.github.com/en/authentication/connecting-to-github-
detailss are given	with-ssh/generating-a-new-ssh-key-and-adding-it-to-the-ssh-agent

Pub key is saved in :- Your public key has been saved in /c/Users/dell/.ssh/id_rsa.pub

Setps to generate pub key all commands are line by line

ssh-keygen -t rsa -b 4096 -C anuragkumargupta02@gmail.com eval "\$(ssh-agent -s)" ssh-add ~/.ssh/id_rsa tail ~/.ssh/id_rsa.pub

Now put the key generated by above commnad into git hub new ssh key

36. git config --global alias.ci commit :-- this command is used to createing the alise of existing command

- a. We can short any commad according to our convenience example
- b. I want use git st for in place of git status
- c. For this we have to create allise of status command
- d. Like git config --global alias.st status
- 37. git checkout -b develop :-- this is used to create new branch in local and enter into it
- 38. git checkout branchName :- switch from one branch to another here branchname show which branch you want to go
- 39. git branch :-- shows the no. of branches pesent in local repo
- 40. git merge branchName: this branchName is name of branch from where I have to bring the change to present branch
- 41. git branch -v :-- ued to show commit of all banches
- 42. git branch --merged :-- already meraged branch
- 43. git branch --no -merged :-- already not merged branch

- 44. git branch -d develop : used to delete the branch : here develop is name of the branch which is going to delete
- 45. git push origin develop :-- this will push the develop branch of local to remote server that is git hub
- 46. git push origin master :--this will push the all change of master branch to the hithub master branch
- 47. Git push -d origin deblop :- this will delete the deblop branch from remote or in hithub site
- 48. **Git reset --hard HEAD^** :--- suppose we do a wrong commit and want to undo this or remove this commit with all the changes are also remove
- 49. **Git reset --soft previousCommitCode :---** suppose we do a wrong commit and I want to go back to previous commit but the preset change will still present than we do this command
- 50. **git pull :---** bring all the changes from remote to local
- 51. git push :--- bring local changes to remote