Data Page 2

Now, in git, it monitors our changes so g to do so git has its own repository (folder) named as "git"

But "git" is hidden.

To get this folder we use 4. git init : git initialize Shows all the hidden folder; Lidden one hidden one NOTE: any folder that starts with is hidden We can also see what is inside git folder by using Ls .git ". Now we gonna make change in 'project', we are adding that file me named as "c names".

To do so we use 6. Touch command, used to create new file (Linux Command command: touch names txt.

names text file is created. To check wheater the history of project is maintained anywhere, To know it we use command 7. Status: show the status of the project, any change ar modification done on the project Command: git status. Now as you did git status are see an untracked file, currently this file is not tracked by git, so to make git track this file we use (3) add command; its a process of committing that this General: @ git add. [if we use only. is tracks all the files]

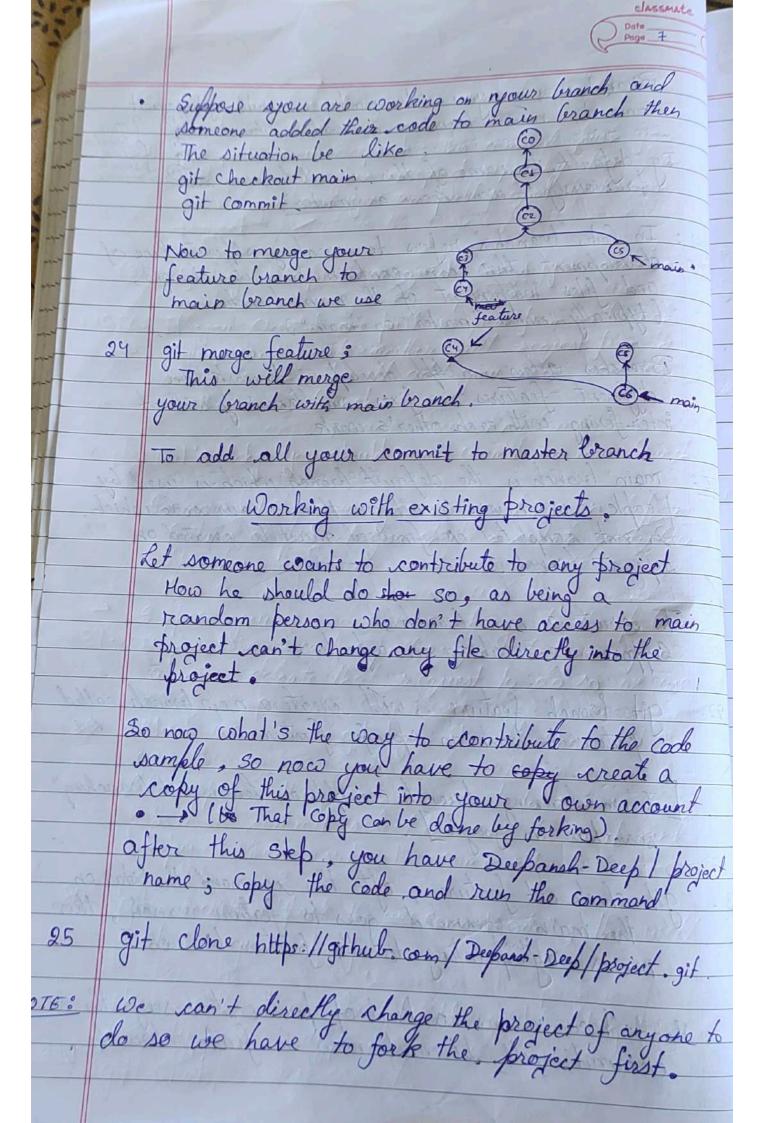
@ git names. txt [only specifice file will be tracked]

Now to save it permanently we can write a mag git commit -m "names. Ext file added" The commit is the order you give to save the charge you made in the git repository. Now we wanna go in our names file to add few names or to make any change Vi names txt; with this command i eim in the txt file I created to add any text i want. Lat names txt; it display what all names I data have been added in the txt file. Now we need to commit again about the changes in the names file we write "git edd." 30 now git knows about the changes Now if we see that we don't want to commit these changes so we we remove them by git restore -- Staged names. Ext after this command the names text files changes is again unstaged To now see the entire history of the project git log; this command gives all the date and 13 time when these changes were made

| 3 | classmate |
|-------|---|
| | Classmate Data Page 4 |
| 250 | - 001 / 01 |
| | To deleate a file we use 'rm' command |
| 14 | rm - rf names. txt.; with this names file is |
| | deleated. |
| 2 | Nosa His allies alle I muited less cross |
| | Now this deletion is added and committed by you as a mistake; |
| -8 | Here now in the file we see 3 commits |
| | Most Aunoran Anthream of the same of the same |
| • | NOTE: you cannot remove I commit from middle to |
| | commit we we have to copy the hash of |
| | the commit above which we wonna restore |
| | and then the command |
| 15 | ail roat "the lat" of Fact and a state of the color |
| 10. | git reset "the hash" ef 5.95 43909f 504e 9 do Ocff 6065fc. |
| | now to check when we press git log we will see |
| | only one commit which has been selected, |
| | Rest all the commit went to unstaged or say backstaged. |
| * | Company to the property that a second second |
| | to backstone where you clow't commo delete it but |
| | it must be Kebt sale away from main broject thes |
| | Sometimes its like sending some of the changes to backstage where you clon't wanna delete it but it must be Kept safe away from main project these we use commands |
| | here we changed 2 commit so first we use |
| 184 4 | here we changed 2 commit so first we use add' command then 'Stash' command |
| | a de forma de la companya del companya de la companya del companya de la companya del companya de la companya de la companya de la companya del companya de la companya dela companya de la companya dela companya dela companya de la |
| 16. | gif stash |
| 10100 | 1 - 1 6 : 11 D - 1 1 D - 1 1 C: - C |
| 1 | low, to bring all the stashed file back [ic from backstage to front we use, |
| | rack stage to front we use, |
| 17. | oit clash bal |
| | git stash pop. |
| | |

Now you think the stash files are not important and you don't need them, then you can permanently remove them by git stash clear Now learning Crithul First we create out github account, create a repository. Now are want to add remote repository to local repository to do so we use Use git remote add origin "URL" [here will is the copied unt of your repo · add here means adding a new URL.
· origin is the name of URL you are going to add. Now we use git remote -v; this will show the URL attached to this folder (all the URLs) git push origin master; This will add your local file to remote repositaries in other words it will push local file to remote repositaries as you do this Command it will ask your githut fassword for Github OAuth Application (Git credential manager) with gist, repo, and workflow scopes was becently authorized to access your account. after this your names . Ext file will be added to your repo,

Branches; as you add commits or write git commit command, new branches get added like 3 By default the name of this is called main sinchers forms previously it was known as master? Proper: In Git, "tranches" refers to creating seperate line of Defination development that can contain commits, changes, and files independent of the main branche (typically named "master" or "main") Branches allow multiple developers to work von different features or fixes simultaneously without interfering with each other's work. NOTE: main branch is the default branch which is used by people, we never commit on this as our code which is not completed or finalised must be created on seperate branch. To create a new branch; Suppose we working on a feature 22. git branch feature; will create a new branch called feature to work on specific feature I om learning branch concepts on Learn Git branching"
searched in google] git check out feature; after this command the star on the main command goes to feature branch, this means my repointing to the feature branch. Head here means a kind of pointer that say the new commit will be made now in feature branch.



The code which you farked from and the URL you copied is known as upstream und, now to use on it use command. 96. git remote add upstream "parte une" after we do this command we can see 2 URL's Oxigin: which is mine upstream from where you forked after forking use to close command git clone "une" [forom your account] Now you can add changes Now after changes, we now wanna merge our changes to the main project main branch so we create a full request How to do full request. Tirst create a seperate Branch; after forking the main project from other account to your main account, then copy the code, then make changes, after cloning the one For changing from main branch to your coustom branch we use 27 git branch Doepansh; creates a new branch named Deepansh 28 git checkout Deepansh; main branch switched to Deepansh branch Now here we change, git Commit -m " Deeparsh added his details"

| - | Date Page 9 |
|-------------|--|
| 1000 | D) to appload this changes, we new a command. |
| Q | The state of the s |
| | git push origin deepants; This command push your changes to your copied repository then from there you can give a pull request to the main project w |
| | project was give a puis request to the main |
| (9 | If they accept the request, Congo! you are done |
| | The state of the s |
| 13016 | you can't create another pull request from the |
| 80100 | if you created one pull request from a branch you can't create another pull request from the same branch, it will add your new commits to the same branch. |
| Total | A STATE OF THE PARTY OF THE PAR |
| | That's why you should never commit on main branch. |
| | So now When your you are working on different |
| | So now When your you are working on different features or project you should a create a different branches. |
| -> | Suppose you added a new change to the & branch |
| - 181 | Deeparsh and sent a pull request but now you wanna deleate that request to do so we use |
| -1550 | TARESTAND RESIDENCE SERVICE SE |
| 8,8 | Phrst we write git log; it will show all the |
| Longe | Let suppose their are 3 commit to remove the |
| | Let suppose their are 3 commit to remove the Top most rommit select the one below it and expert it, then write the command |
| DESCRIPTION | The court of the c |
| 30. | Stash your change |
| <u>K</u> | git reset " pask the one commit code"; this will Stash your change. |
| 2 | Now with this do git add.; it will go to stash git stash; |
| 30.1 | git Stash; |
| | |

The manually by which we did in 's stops can be done by single command. 82. git pull upstream main; git pull command its syncs your internally does the same thing its syncs your forked project to the original project's main Granch Here all the folders are in the local forder not in the apstream, to sync now apstream we use 83 git push origin main Merge Conflicts and Squashing Commits Gncepts Pick and Squash: 1, 2,3,4 (Tx+ files) Suppose we have 4 commits to merge all commits to a single commit, we use the command. 34. git rebase -i " paste" here we paste the Commit code above the one we need you will get a dash board with no of commit (4) pick d9dd724 1 bick C9 69ee 2 bich 759d6443 pick 673d4404 To squash; 2, 3 & 4 remove the pick in front and write s instead this will merge the comm · Squash means whichever one is listed as pick morge it into previous commit

· Merge Conflicts and how to resolve them.

Lets say I changed line 3 and someone else changed line 3 git will get confused whose change should be taken.

To do resolve this issue you have to overwrite the code if you want your change to be taken remove the someone's else change or vice versa, this will resolve the conflict.

BY

-Deepansh_Deep