Git Commands:

| pwd | present working directory | |
|--|--|--|
| Is | list content | |
| gitversion | gives the git version | |
| git configglobal user.name "name" | declaring the name of the user | |
| git configglobal user.email "email.com" | declaring the user email | |
| git configlist | will give out the list of things in git including the git username and email | |
| git status | checking the status of the git repo | |
| git init | initializing git | |
| git adda or git add . | adding all the files to staging area | |
| git commit -m "some message" | commits all the staged files in to repo | |
| git log | shows all the commits in the repo | |
| git log -p | shows all the commits and the changes done in the previous commits | |
| git logstat | shows all the changes as a short summary about the previous commits | |
| git logpretty=oneline git logpretty=short git logpretty=full | shows all the changes as a short summary in the previous commits in a single line | |
| git logsince=2.days | changesof the commits in the past 2 days | |
| git-scm website and find the formats for log display | to see the ways in which the git logs can be formatted | |
| q | exit log | |
| git add filename.txt | adding the only file to the staging area instead of all the files | |
| rm -rf .git | the folder will be removed as a git folder | |
| git clone httpsgit newname | cloning a git repo from github to the local folder | |
| touch error.log | creating a file named error.log using the linux commands | |
| touch .gitignore | creating a folder called .gitignore | |
| *.log | if this command is written in the gitigniore file, all the files with the .log will be ignored | |
| foldername/ | if this command is given in the gitignore file. all the contents in the folder- foldername will be ignored | |
| git diff | compares the things in the working directory and the staging area | |
| git diffstaged | compares the things in the staging area and the last commit | |
| git commit -a -m " message" | this function will skip the staging area and directly the changes will be committed> but the newly added untracked file will not be committed | |
| git rm | removing the file from the folder using the git command, once a file is removed in this way, git will add this in to stagingarea as well | |
| git mv filename.txt filename_renamed.txt | renaming the file in the folder using git command, once does through this way, git will add it in to staging area | |
| git rmcached filename.txt | the file is removed from being tracked - this has to be run only after the file is put in the gitignore | |
| rm -rf .git | removing the git repo | |
| git commit amend | To do modifications in previous commit message | |
| git restorestaged filename.txt | to unstage a staged file in repo | |
| git restore filename.txt | to discard the changes in the working directory | |
| git checkout filename.txt | this command will restore the file to previously committed state, so any new changes that were made will be removed and lastcommitted file changes are restored | |
| git checkout -f | this command will restore all the files in the git repo and you'll lose all the changes done to all the files | |
| git remote | a repository on the internet (website) - Github (Github is a website hosting our repo on internet) | |
| git remote add origin <url></url> | adding a url to the current repo as a remote (Origin is an alias kept for the url being added, It can be added as anything) | |
| git remote -v | it will show all the remote repos available right now from where we are currently pushing and pulling the code from and to | |
| git push -u origin master | Pushing changes from the current repo to remote repo on Github website to master branch | |
| git push origin branch name | pushing all the changes from the current working directory to the new branch_name in the repo | |
| git push origin branch name:NewBranch | pushing all the changes to branch in remote while renaming the new branch_name in local to NewBranch name in remote | |
| git configglobal alias.alias_name actual_name | replacing the name of the command you use to something more convenient alias name | |
| git checkout -b develop | a new branch is created called 'develop' and the working directory is switched to 'develop' | |
| git checkout develop | Switched to an existing branch - develop (mot creating a new branch) | |
| git branch | shows all the branches available in repo | |
| git merge branch_name | merging the branch_name branch to the master/main branch of the git repo If merge conflicts occur, in VS code, the changes are displayed, you have to accept the incoming changes to finalize the newchanges that you made as the final changes | |
| git branch -v | to view every branch's last commit | |
| git branchmerged | this will display all the branches that are already merged | |
| git branchno-merged | this will display all the branches that are not yet merged | |
| git branch -d branch_name | Deleting an existing branch> this will give error if branch is not already merged | |
| git branch -D branch_name | Deleting an existing branch> no error irrespective of merging | |
| git push -d origin branch_name | deleting the branch in remote repo in Github website (origin is the alias of the github website) | |
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Vim Editor commands

| i | insert> command for writing in vim editor |
|---------------|---|
| escape button | you'll be able to enter the commands |
| :wq enter | will save the changes in the Vim editor |

Generating ssh keys

| ssh-keygen -t rsa -b 4096 -C "hashfaq176@gmail.com" | Generating a new ssh key |
|---|---|
| eval \$(ssh-agent -s) | To run the ssh |
| ssh-add ~/.ssh/id_rsa | to add ssh private key to our ssh agent |
| tail ~/.ssh/id_rsa.pub | adding ssh key to github account |