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- Git -> Git is an online version control tool. Git tracks the change in file where the git is initialized and added. It stores the file locally.
- Github -> Github stores repository on cloud. With the help of github more than one developer can contribute in same program.
- Where we can run git command?
 - → We can run git command in terminal, power cell window, VS code terminal, Linux terminal, e.t.c.
- Advantage of using git and github :-
 - Branching and merging.
 - Collaboration.
 - Tracking the history
- Commands of Git :
 - git config --global user.name <name> -> Use to add username.
 - ➢ git config --global user.email <email> -> Use to add Email.
 - git config user.name -> Use to view Username.
 - git config user.email -> Use to view Email.
 - ➢ git init > Use to initialize git in a folder.
 - ➢ git add <file name> -> Use to add git in the file whose
 name is mentioned. If we want to add git in all file present
 in the folder then we can use "-A" instead of <file name>.
 - git git status -> Gives the status of the file present in the folder where git is initialized.

- git commit -am <message> -> Used to commit a change in the file. Commit makes a checkpoint where we can visit again by resetting or reverting.
- git log -> Use to view all commit details.
- ➢ git log -1 -> Use to view last one commit detail.
- git reset --hard <commit id> -> Use to visit any past commit by mentioning commit id. If we use reset command then commit after that commit will be delete.
- git revert <commit id > -> Revert is same as reset. But in revert command the mentioned commit id detail will be copy in another commit after the current commit.
- > git branch <name> -> Use to create a branch in git.
- git checkout <name> ->Use to switch branch.
- git checkout -b <name> -> Use to create and switch the branch simultaneously.
- ➢ git branch -d <name> -> Use to delete the branch.
- git branch -> Use to view the list of created branches.
- ➢ git merge <branch name> -> Use to merge the mentioned branch in the master/main branch. Before using merge, we have to switch in master/main branch.
- ➢ git clone <github url> → Used to copy all the folder and
 file present in that repository on github in the local
 device.
- git push <remote> <branch> -> Use to push the changed folder/file in github.
- git remote add <name> <url> -> Use to add a remote of mentioned name of mentioned url.
- git remote remove <name> -> Use to delete remote of mentioned name.
- Steps to Create pull request and push in github:
 - a. Fork from the github.

- b. Copy the link of the repository from your pprepository section.
- c. Run git clone command in the directory where you have to copy the file.
- d. Change the directory using "cd" in which repository created.
- e. Create a branch.
- f. Modify the file / folder.
- g. Commit the change using git commit command.
- h. Push the modified repository using git push command.
- i. Go to github and your repository section and on that repository that we have cloned.
- j. Click on compare and create pull request. If compare and create pull request is not visible then click to sync fork option.
- k. After clicking on compare and create pull request, fill description and title and submit it.