PRE-JOINING LEARNING PATH

VERSION CONTROL

Q. What is Git?

Ans. Git is a version control system, It is a tool that helps to track changes in code.

Q. Commands used mostly in GitHub.

(i) git clone [url]: retrieve an entire repository from a hosted location via URL

(ii) git status: show modified files in working directory, staged for your next commit git

(iii) add [file]: add a file as it looks now to your next commit (stage)

(iv) git commit -m "[descriptive message]": commit your staged content as a new commit snapshot

(v) git push [alias] [branch]: Transmit local branch commits to the remote repository branch

(vi) git pull: fetch and merge any commits from the tracking remote branch

Q. How to create Repository from local environment?

Step 1: Run "git init" command.

Step 2: go to github.com and create a new repository without readme.md file.

Step 3: Run "git remote add origin [link]" command.

(Run "git remote -v" command for checking the remote origin)

Step 4: Run "git branch" to check branch of repository where code is going to push. And then run "git branch -M main" command to change name of master branch to main branch.

Q. How to merge branch in github?

=> Follow this step:

git branch (to check branch)

git branch -M main (to rename branch)

git checkout <branch name> (to navigate)

git checkout -b <new branch name> (to create new branch)

git branch -d <branch name> (to delete branch)

git merge [branch] (merge branch)

git diff: diff of what is changed but not staged

Q. How to undo changes in github?

Ans: git reset : clear staging area, rewrite working tree from specified commit