

Git and GitHub in detail

Git: Git used for version control / it is a software

GitHub: It is a platform / it is online service

Some basic Commands

- To check version: **git --version**
- To know working directory: **pwd** (present working directory)
- To know about different folders of the directory: **ls**
- To know about all hidden folders as well: **ls -a**
- **ls -la**
- To check the status : **git status**

Command to make a git setup before working with git

- `git config --global user.name "Your Name"`
- `git config --global user.email "your.email@example.com"`

These 2 commands will help u to access your git hub account and upload the code to that account

Note: global is to set the globally and u can use these commands without writing global as well

- `git config --list` : it will show all the settings that u have changed

command to push ur files on git in a new repository

- create a repo in github
- `git init`
- `git add <file name>` / `git add .`
- `git commit -m "message"`
- `git remote add origin https://github.com/yourusername/your-repo.git`
- `git push -u origin master`

Commands after Making Changes and Pushing Updates

After making changes to your project, add the changes:

- `git add .`
- `git commit -m "Describe your changes"`
- `git push`

Command to get info about all the previous commits

- `git log`
- `git log --oneline` ☐ gives the details in short

branches in git

check for branch

- `git branch`

create and checkout or switch to new branch

- `git checkout -b new-branch-name` ☐ create and switch to new branch
- `git branch branch-name` ☐ create new branch
- `git checkout branch-name/` `git switch branch name` ☐ switch to new branch
- `git branch -m <old name> <new name>` ☐ rename a branch
- `git branch -d <branch name>` ☐ delete a branch

merging of two branches

- `git merge new-branch` ☐ this adds the changes of new branch into main branch if we run this command while being in main branch

(1) command to find the process running on a particular port here lets assume 1000
`netstat -ano | findstr :1000`

(2) command to kill that process

taskkill /PID <pid> /F ☐ we will get pid from the above command