**Git & GitHub**

**Git:** Git is a software. Version Control.

**GitHub:** GitHub is a online Service.

* Repo == Folder == Directory
* **Write --> Add --> Commit**

**Git Bash Commands: -**

* **Git --version:** To check git version
* **Pwd:** Present Working Directory
* **Git status:** to check is already git working or not in current folder. Always run this command before “git init”.
* **Git init:**
  + Git initialized in current folder or directroy.
  + (\*\* Working Directory).
  + .git folder create.
* **Git add:**
  + All file in current folder are ready to save in git.
  + (\*\* Staging Area)
  + Git add file.name or **git add . (. mean all)**
* **git commit:** 
  + Save as git Repo
  + (\*\* Repo)
  + **Git commit -m “commit message”**
* **Git log:**
  + All details show commit related. Who commit, when commit etc.
  + Git log --online: short details.
* **Git reflog:** All history show.
* **.gitignore:** It is a file to untrack git. Write jus file or folder name that git not commit or save or track.
* **.gitkeep:** usualy git not track any empty folder. This .gitkeep file say to git to track this any empty folder.
* **git branch:** 
  + List of all Branches & Current branch location check.
  + Git branch bug-fix: New Branch ‘bug-fix’ create
  + Switch master: switch another Branch.
  + git checkout branch: this also use switch.
  + Git switch -c dark-mode: Create a ‘dark-mode’ branch and switch.
* **Git merge bug-fix:**
  + To merger current branch to ‘bug-fix’ branch.
* **Git branch -m oldBranchName newBranchName:** Rename branch name
* **Git branch -d BranchName:** Delete branch
* **Git diff:** Difference
  + git diff --staged
* **Git push:** all repo push to gitHub online. (\*\* On Git Hub)
* **HEAD in git:** The HEAD is a pointer to the current branch that you are working on.