

Git - VCS let you keep track changes you make

Types of VCS

Centralized - on central server, single point of

Distributed - mirror copy of every developer system(git,mercurial)

Working area - can modify and create file (untracked)

Staging - files to be committed (tracked)

Commit - files are stored in local git repo

Advantages :

Offline work, collaborate with team, fast and lightweight, track changes

Commands :

Git --version -

mkdir folder - create folder or repo

Cd repo - move into repo

Git init - .git file will get generated

Git add filename - add particular file

Git add -all

Git status - show the status of repo (tracked or untracked)

Git commit -m "Message"

If no message is given in commit it will open vi editor use :q to quit

Git diff - difference of last two commit

Git log - entire history

Git show - last commit

Git show hash_code(id) - particular commit

Git log -n : n can be any numbers

Git ls-files - list of all files

Git rm - - cached <file name> - remove tracked and untracked file

Git clean -f : remove untracked file

Git branch branchName - to create a new branch

Git branch - display all branch

Git merge - merge branch

Git checkout branch -

Git stash - switch branch without commit

Git clone - local and remote repo

Git branch -d branchName

git remote add origin

<https://BarathMatthew@bitbucket.org/barathworkspace/firstrepo.git>

Git push origin branch

Git pull origin branch

Pull request - only for github , bitbucket (its a feature in online hosting service)

```
D:\bitFolder>git remote -v
origin  https://BarathMatthew@bitbucket.org/barathworkspace/firstrepo.git (fetch)
origin  https://BarathMatthew@bitbucket.org/barathworkspace/firstrepo.git (push)
```

```
D:\GitHubPractice>git branch -a
* master
remotes/origin/main
```