Git And Github

- Centralized VCS vs Distributed VCS.

- Github - web-based hosting services for git repositories

- push - send changes to a repository
  pull - grab changes from a repository

- git clone → Bring to local machine
  git add → Add to staging area
  git commit → save files to git
  git pull → downloading changes from remote to local.
  git push → uploads your commits to a git repo

- git init → initialize empty git repository in the folder
  git status
  git add . → Add all the changes to the staging area.
  git status → Current status
  git commit -m "Initial commit" -m "Along with redme"
                    ↓
                message
  git remote -v → Check the existence of remote repo.
  git remote add origin "remote repo link"
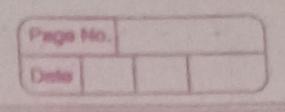 git push origin master → push all the changes to master
        -u (upsteam) ↙   branch of the remote repo.

- git clone "remote repo link" → fetching folder & working
                                    history to local machine

- git branch → current branch
  git checkout -b feature → create a new branch and switch to
                            the newly created branch.
  git checkout main → switch to main branch.
  git diff feature → different from the current branch
  git merge X
  pull request → way for us to merge changes from one branch to
                 another.

- Merge Conflicts

- Delete the branch you no longer need after merging.
  git branch -d branch name

- git merge main - merging a branch into main.

- Branches should have latest copy of main otherwise lead to merge conflict.

- HEAD - represents the current branch.