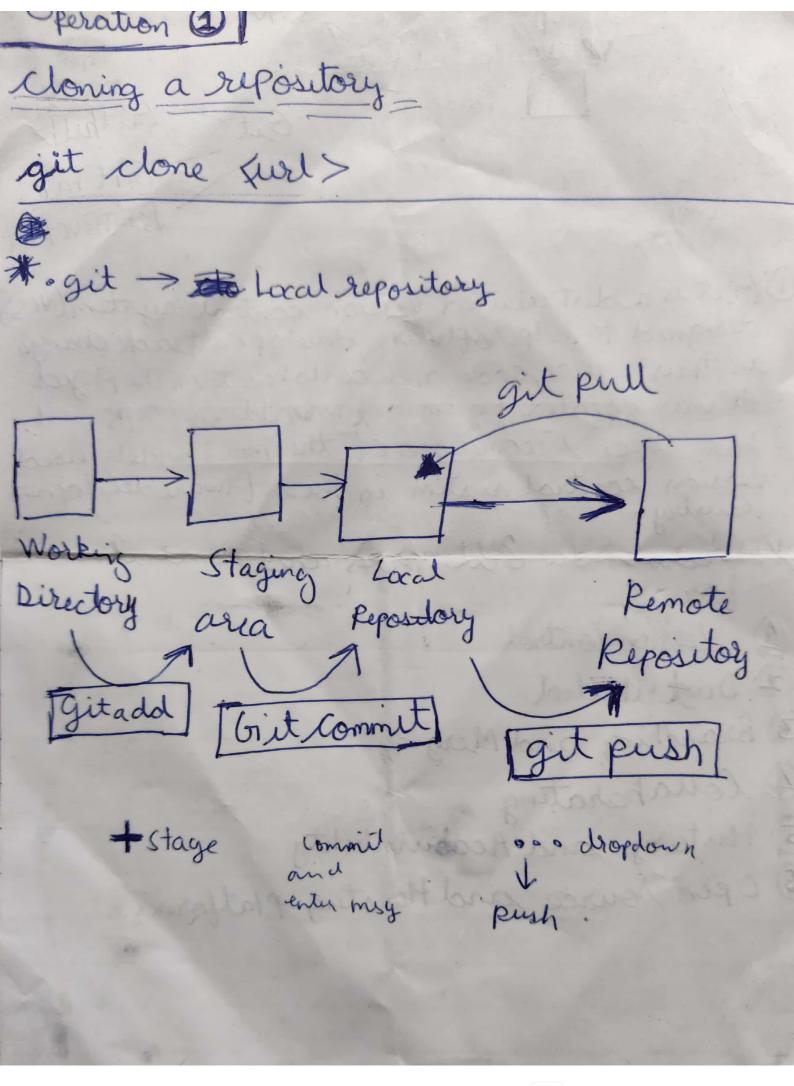
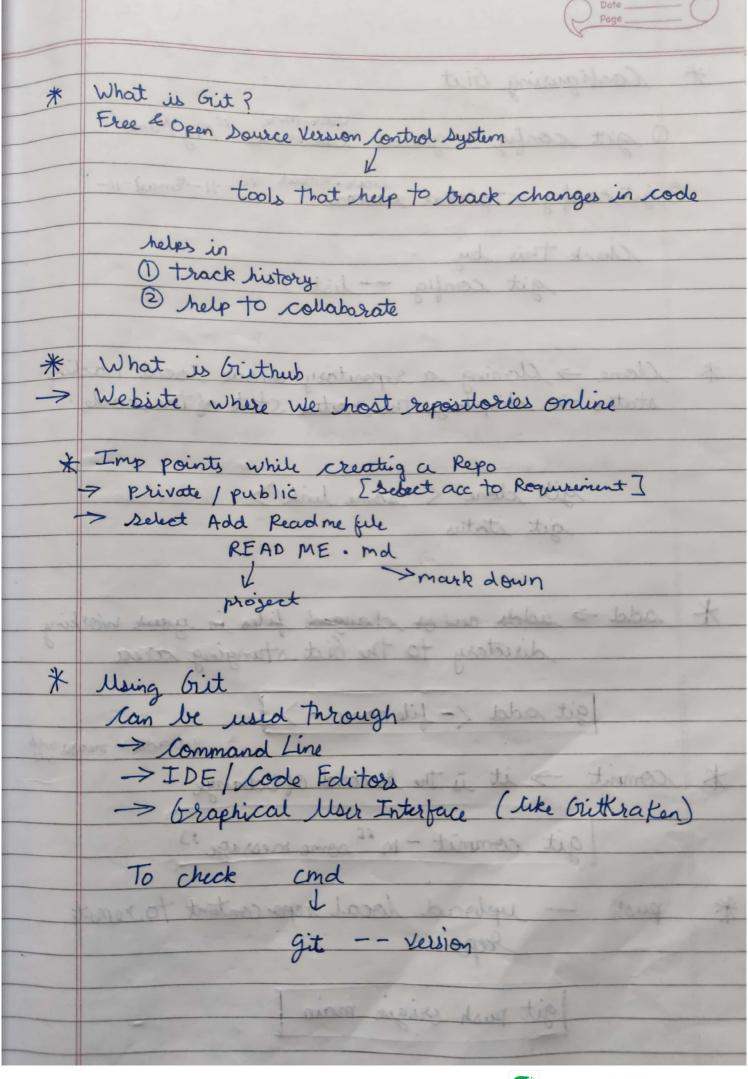


classmate 1 Version Control: Git allows developers to track changes to their codebase over time. Every time a change is made, but recode a snapshot of the entire project. This makes it easy to compare different versions of the code, revert to previous state and understand how the code has evolved. > 2 Distributed System Unlike centralized version control systems, Gid is distributed - This means That every developer working on a project has a full copy of the repository on their local machine. This local copy enables developers to work offline, make changes, commit them, and later sync those changes with the central repository or other developers repository. -> 3 Branching and Merging
One of birth powerful features is its ability to create branches - A branch is essential a seperate line of development. This allows developers to work on new features or bug fixes in isolation without affecting The main codebase. Once a feature or & fix is complete, the branch can be merged back into The main codebase. (a) Collaboration > bit facilitates collaboration among multiple developers. Each developer can work on their own branch, and when ready, They can merge their charges into shared branch, such as the "master" branch. teams to work on different features concurrently and integrate most features

Classmate (5) History and Accountability: bit maintains a detailed history of all changes made to the codebase. This includes who made each change, when it was made, and the purpose of the change (commot messages). This historical record is valuable for tracking down bugs, understanding the evolution of the project, and reviewing the work of contributors. 6 Open Source and Hosting Platforms: Many open-source projects and commercial software projects hosts their but repositoring on platforms like Github, GitLab and Bitbucket These platforms provides additional features such as issue tracking, code review, continuous integration, and more, which enables enhance the development process.





Classmate * Configuring Git O get config -- global merrance "My Name" Ogit config -- global varieties Check this by git config -- list Clone -> Cloning a repository on our local maching.

status -> displays the status state of the code. git done (- some link) git status of an analy some some add > adds new or changed files in your working directory to the birt stanging area git add (- file name - > | git add " means adds commit > it is the record of change git commit - m " some message") - upload local repo content to remote git push origin main

