**GIT:**

* Git is a version control system tool (VCS) used to manage source code changes in software development.
* It allows multiple developers to work on a project simultaneously without interfering with each other's work, making it easier to track and manage changes over time.

**Version Control**: Git allows you to keep track of all changes made to a project, including additions, deletions, and modifications. You can revisit previous versions if needed.

**Collaboration**: Multiple developers can work on the same project at the same time without stepping on each other's toes. Git helps in merging code from different developers smoothly.

**Branching**: Git supports branching, which lets you experiment with new features in your own branch without effecting any other existing code.

**Distributed System**: Git is decentralized, meaning every developer has a full copy of the project and its history on their local machine.

**Code Review & Quality**: With Git, developers can review and discuss code changes through pull requests, which helps ensure better code quality.

Commands:

* git init ---🡪 initializing empty repository
* git remote add origin <link> -🡪 adding git remote repository link
* git add . -🡪 adding all files
* git add <FILE NAME> 🡪 adding particular
* git status 🡪 to check status
* git commit -m “COMMIT MESSAGE” 🡪 to commit
* git push -u origin master 🡪 to push origin master
* <git push –set-upstream-origin>
* git push 🡪 to push to branch
* <CREDENTIALS 🡪 userId/email, password>

**To get Existing project from GIT**

* git clone <URL> 🡪 to clone to project
* git fetch 🡪 to see latest changes
* git pull 🡪 to get latest changes into our local repository
* git checkout <branch name> 🡪 to move from one branch to another
* git checkout -b <new Branch name> <existing branch name> 🡪 to create branch from existing branch and checkout.

