**Git & Github**

* Git is used for source code management (SCM)
* Git works on distributed source code management method.
* DSCM means when we write code and push it to remote repo our code is also stored in local machine
* Git manages all the code which we have written in git environment
* Github is used to store code remotely.
* We can clone any github repository but for that our local machine should have git environment.
* We can clone any repo but we have to connect to that repo
* To connect with repo we have two methods
* We can perform it by taking ssh or by taking ssh link which is present in repo available on github
* For ssh we have to perform sshkeygen in local machine and after that we have to store ssh public key on github.
* Github will get to know that for this machine access is granted.
* And for http method when we try to push code into github we have to generate general token which is preset in developer option
* Git provides branches
* Main is default branch
* Various developers works on various branches here git provide functionality where after all development work we can merge all code to main branch.

**Git Commands**

1. Git init 🡪 it will create git environment
2. git config --global user.name <username> 🡪 assign username
3. git config --global user.email <email> 🡪 assign email
4. git status 🡪 shows status of file
5. git add 🡪 adds file to staging area
6. git commit 🡪 adds messahe to file “short summary”
7. git remote –v 🡪 shows fetch and push link of repo
8. git remote add origin <origin link> 🡪 add repo to push and fetch
9. git remote remove origin 🡪 remove fetch and push link
10. git logs 🡪shows commit id and commit message for each commit
11. git push origin main 🡪 push local machine code to remote repo