First go and create a directory make sure your directories are not empty git focus on files not on directories

git init -> used to to create a .git directory which contain all configs and versions of files
git status -> is used to check status of your files if red they are untracked
git add . -> used to track all the files in current directory or we can give file name
git commit -m “message of what changes you made”-> used to commit the files
git config –global user.email “email” -> used to create a git repo for all the git repos
git config –local user.email “email” -> used to create a git repo for single repo
git config –global user.name“name”-> user name of your git

To create a repository

-> go to git and click on new
-> give your repository name
-> put it either private or public
-> and click create

Remote connecting to github

git remote add origin https link -> to remotely connect to your github repo
git branch -M main -> used to create a main branch
git push -u origin -> used to push the files in local system to github repo
git push origin branch name -> used to push to that particular branch
git remote remove origin -> used to remove the remote origin

If you modify anything it says modified then add the file and commit it
When you commit it it won't update on github only when you push it update

git log -> to see all the commits
git show commit id -> used to see all the
git log --oneline -> to show small commit ids
git config -l -> to see details of user and stuff
git pull -> used to get all updated from repo if others changed in repo

Branches are used in agile model when set of features in an iteration will stored in branch and main stable version will be on main branch when everything is working fine then it we can merge them (when we create a branch the files will be same on it too)

git branch -c branch name -> used to create a branch
git checkout branch name -> to switch to that brach
git rm file-> is used to remove the file
git switch branch name -> same as git checkout
git branch -a -> is used to see branches
vim .gitignore -> in this file if you put other file name git ignore it
git merge brachname -> used to
git push --all origin -> used to push all origin
git checkout file name -> is used to rollback a file if not staged or committed
git diff -> is used to check what are changes made
git diff --cached -> used to see changes of file after staged
git restore --staged file name -> used to revert the change after staged to unstaged
git diff commit id..previous commit id -> to see what are changes
git revert commit id or HEAD-> used to roll back to that commit
git reset --hard commit id -> used to revert to that point of commit and all after that will will be gone

cat.git/config -> used to see all info

To SSH into git

->cd to main directory
-> ssh-keygen.exe
-> ls /.ssh/
-> cat /.ssh/id_rsa.pub
-> now copy the public key text
-> go to github and settings
-> click ssh and gpc key
-> click create ssh key and put the text in here and save it

git push -uf origin master -> used to forcefully push to repo