**1)Configuring Git**

git config --global user.name "My Name"

git config --global user.email [someone@email.com](mailto:someone@email.com)

git config – list

**2)Clone & Status**

Clone - Cloning a repository on our local machine

git clone <- some link ->

status - displays the state of the code

git status

**3)Add & Commit**

add - adds new or changed files in your working directory to the Git staging area.

git add <- file name ->

commit - it is the record of change

git commit -m "some message"

**4)Push Command**

push - upload local repo content to remote repo

git push origin main

**Init Command**

init - used to create a new git repo

git init

git remote add origin <- link ->

git remote -v (to verifv remote)

git branch (to check branch)

git branch -M main (to rename branch)

git push origin main

**Branch Commands**

git branch (to check branch)

git branch -M main (to rename branch)

git checkout <• branch name ->

(to navigate)

git checkout -b <- new branch name -> (to create new branch)

git branch -d <- branch name -> (to delete branch)

**Merging Code**

Way 1

git diff <- branch name-> (to compare commits, branches, files & more)

git merge <• branch name-> (to merge 2 branches)

Way 2

Create a PR

**Pull Command**

git pull origin main

used to fetch and download content from a remote repo and immediately update the local repo to match that content.

**Undoing Changes**

Case 1: staged changes

git reset <- file name ->

git reset

Case 2: commited changes (for one commit)

git reset HEAD~1

Case 3 : commited changes (for many commits)

git reset < commit hash ->

git reset - hard <- commit hash ->