🚀 Git and Github

- install git in laptop other than C derive
- then open terminal and config by followiing code
  - git config --global user.name ""
  - git config --global user.email ""
- Add github to your project
  - git clone paste link withot ""
  - git status
  - git pull origin main
- Add project to the github
  - git init ## to incorporate git in folder
  - Remove-Item -Recurse -Force .git #disconnect git from github
  - create repositor in github with same name of your projec and without rmd file
  - git add .
  - git commit -m "first commit"
  - git remote add origin repositor link #connect
  - git branch
  - git remote --v
  - git push -u origin main #here -u represent upstream means it always adds changes automatically in origin/main branch with
  - git push command #use onward

To signout git from github

git config --global --unset user.name
git config --global --unset user.email

- Search for Credential Manager in Windows Start
- Open Windows Credentials
- Find anything like git:https://github.com
- Click and remove/delete it

🔁 GitHub Access Types – Short Guide

1. Fork → Clone → Change → Push

- ☑ Changes go to **their GitHub fork**
- ✖ Your repo is not affected
- ☑ They can open a **pull request** to suggest changes

2. Just Clone (No Fork)

- ☑ Gets a **local copy** of your code
- ✖ Cannot push or create pull request
- ✖ Changes stay only on their computer

3. Add as Collaborator

- ☑ Clone your repo
- ☑ Push changes directly OR
- ☑ Pull request required if **branch is protected**

Git Feature Branch Workflow

This guide walks through creating a feature branch, making changes, pushing to GitHub, opening a pull request, and pulling merged code.

🪓 Git Script

```
# Step 1: Create and switch to a new feature branch
git checkout -b feature/my-feature

# Step 2: Stage all changes
git add .

# Step 3: Commit the changes
git commit -m "Add: My feature implementation"

# Step 4: Push the feature branch to GitHub
git push origin feature/my-feature

# 👉 Go to GitHub and open a Pull Request:
#    https://github.com/your-username/your-repo/branches
#    Click "Compare & pull request" next to your branch

# Step 5: (Optional) Pull the latest changes from main after merge
git checkout main
git pull origin main
```

General Git functions

☑ Create a new branch and switch to it

git checkout -b feature/my-feature

🔄 Switch to an existing branch

git checkout main

✏️ Rename current branch

git branch -m new-branch-name

✏️ Rename a specific branch (not checked out)

git branch -m old-branch-name new-branch-name

🗑 Delete a local branch

git branch -d feature/old-feature # Use -D to force delete locally
git push origin --delete feature1 # delete from github

🗑 Delete a remote branch

git push origin --delete feature/old-feature