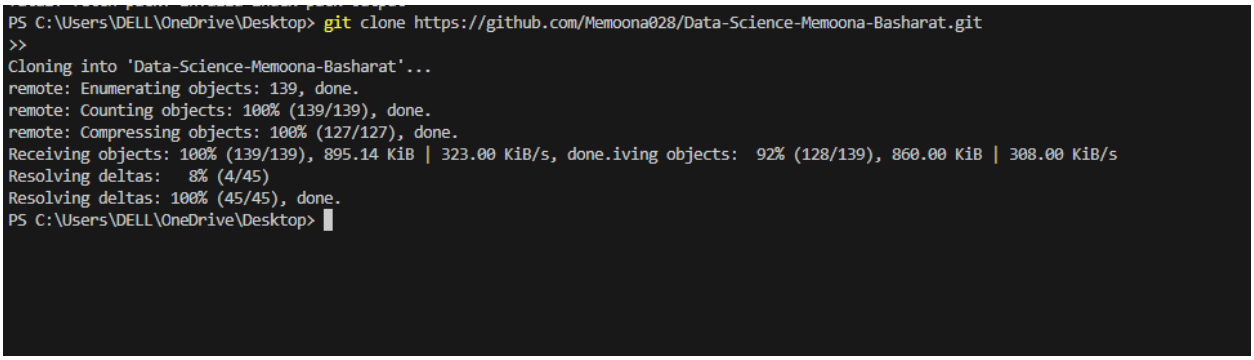
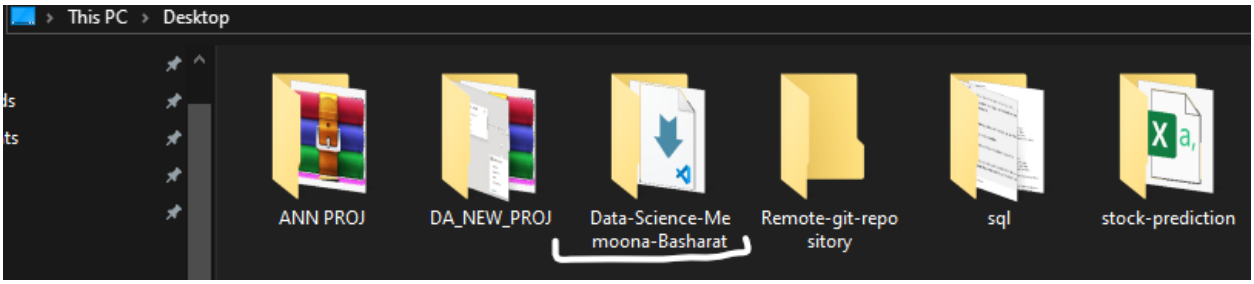
Remote Repositories in Git

- A remote repository, when referred to in the context of GitHub or similar platforms such as Gitlab, typically means the repository hosted on their servers (online). This remote repository is accessible over the internet and serves as a centralized location where your project's codebase is stored. It allows for collaboration, version control, backup, and various other features that facilitate software development and teamwork(collaborative).
- When you clone a repository from GitHub to your local machine, you create a local copy of that remote repository (Below is the example for that too). Changes made locally can be pushed (uploaded) back to the remote repository on GitHub, enabling synchronization and collaboration with others who have access to the same remote repository.

1- *Clone* the Remote repository to your local machine.



2- Now checking our destined folder which is Desktop in my case.



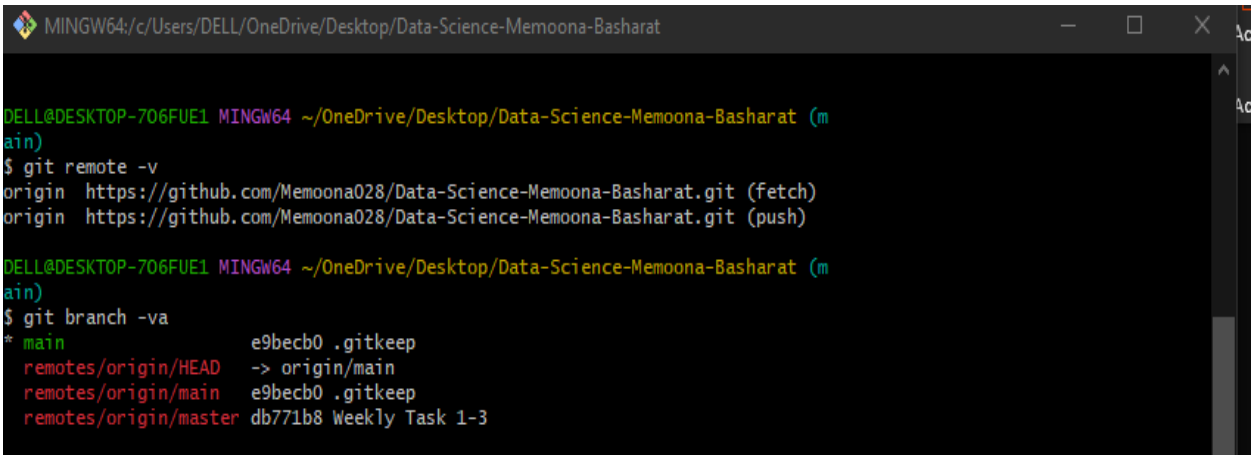
3- Now select that folder and click on Open with git bash.

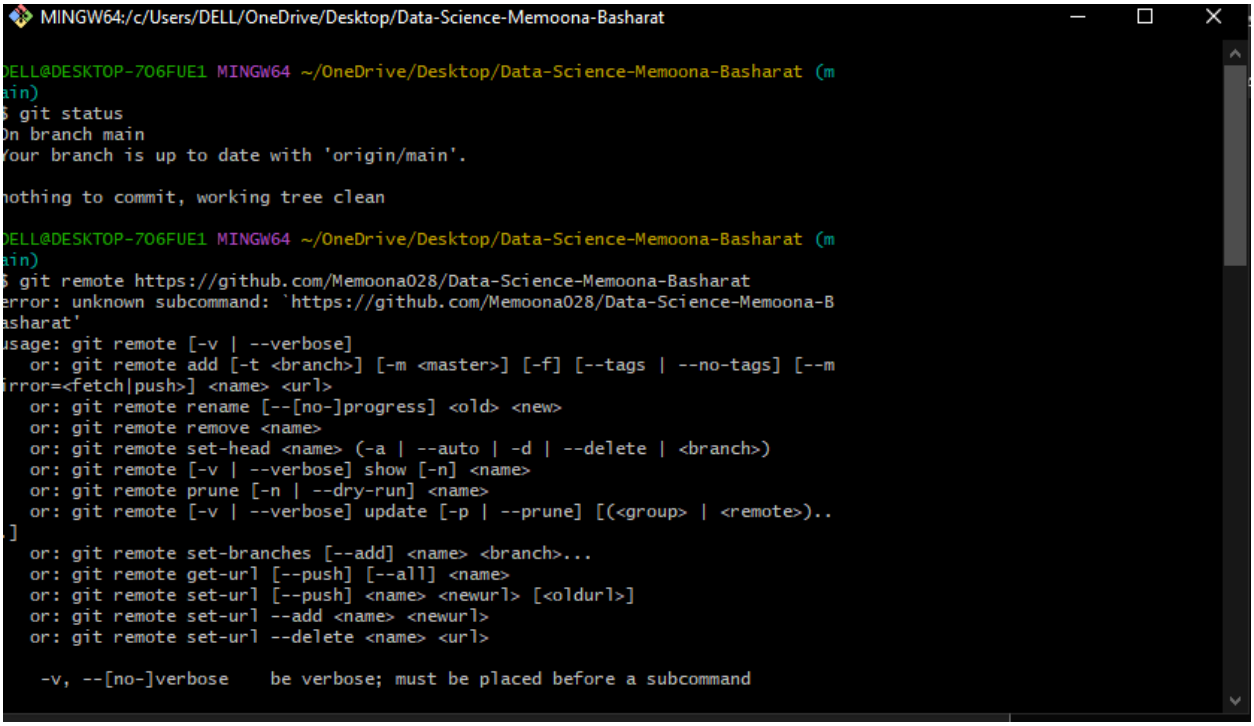
4- `git remote -v`: Lists all remote repositories associated with the current local repository along with their URLs. In my case my remote repository URL

5- `git branch -va`: Lists all branches (local and remote) available in the repository, including remote-tracking branches

➔ v: verbose (showing detailed output)

➔ va: verbose all


MINGW64:/c/Users/DELL/OneDrive/Desktop/Data-Science-Memoona-Basharat
DELL@DESKTOP-7O6FUE1 MINGW64 ~/OneDrive/Desktop/Data-Science-Memoona-Basharat (m
ain)
$ git remote -v
origin https://github.com/Memoona028/Data-Science-Memoona-Basharat.git (fetch)
origin https://github.com/Memoona028/Data-Science-Memoona-Basharat.git (push)
DELL@DESKTOP-7O6FUE1 MINGW64 ~/OneDrive/Desktop/Data-Science-Memoona-Basharat (m
ain)
$ git branch -va
* main   e9becb0 .gitkeep
  remotes/origin/HEAD -> origin/main
  remotes/origin/main e9becb0 .gitkeep
  remotes/origin/master db771b8 Weekly Task 1-3


MINGW64:/c/Users/DELL/OneDrive/Desktop/Data-Science-Memoona-Basharat
DELL@DESKTOP-7O6FUE1 MINGW64 ~/OneDrive/Desktop/Data-Science-Memoona-Basharat (m
ain)
$ git status
On branch main
Your branch is up to date with 'origin/main'.
nothing to commit, working tree clean
DELL@DESKTOP-7O6FUE1 MINGW64 ~/OneDrive/Desktop/Data-Science-Memoona-Basharat (m
ain)
$ git remote https://github.com/Memoona028/Data-Science-Memoona-Basharat
error: unknown subcommand: `https://github.com/Memoona028/Data-Science-Memoona-B
asharat'
usage: git remote [-v | --verbose]
   or: git remote add [-t <branch>] [-m <master>] [-f] [--tags | --no-tags] [--m
irror=<fetch|push>] <name> <url>
   or: git remote rename [--[no-]progress] <old> <new>
   or: git remote remove <name>
   or: git remote set-head <name> (-a | --auto | -d | --delete | <branch>)
   or: git remote [-v | --verbose] show [-n] <name>
   or: git remote prune [-n | --dry-run] <name>
   or: git remote [-v | --verbose] update [-p | --prune] [(<group> | <remote>)..
.]
   or: git remote set-branches [--add] <name> <branch>...
   or: git remote get-url [--push] [--all] <name>
   or: git remote set-url [--push] <name> <newurl> [<oldurl>]
   or: git remote set-url --add <name> <newurl>
   or: git remote set-url --delete <name> <url>
    -v, --[no-]verbose   be verbose; must be placed before a subcommand