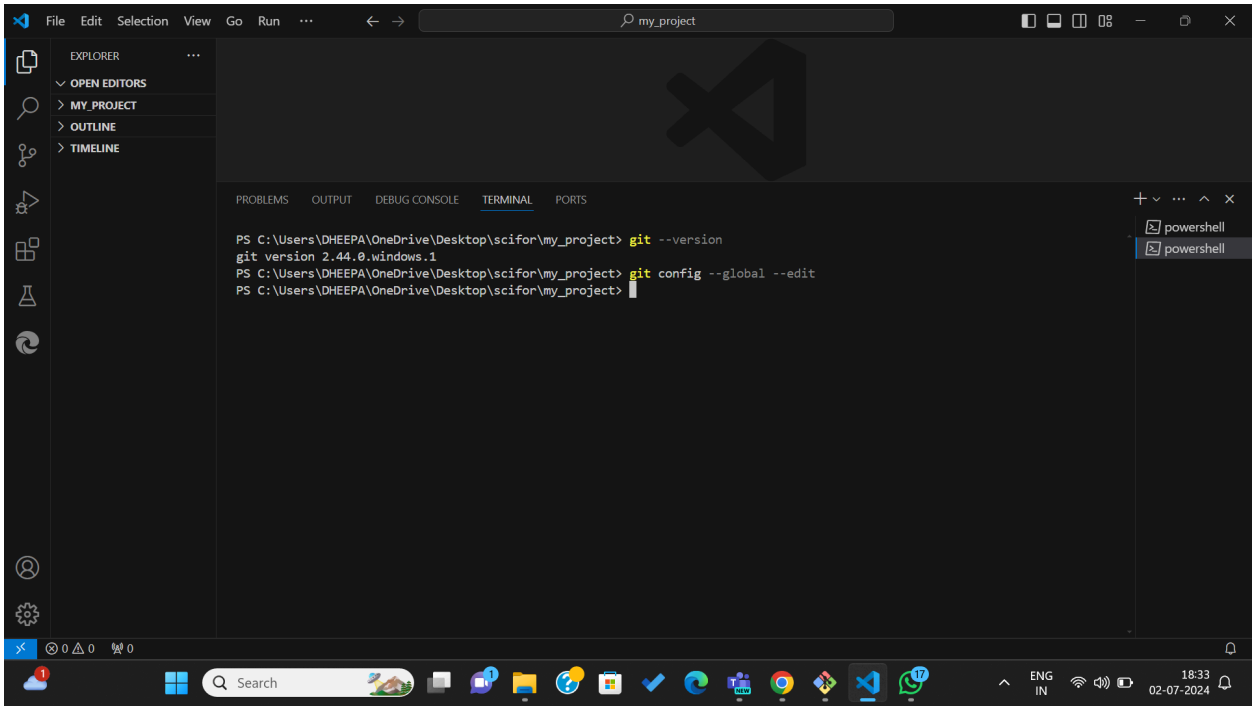
Git vs Github

Git	Github
It is a software	It is a service
It is installed locally on the system	It is hosted on web
It is a command line tool	It is a graphical interface
It is a version control tool	Git repository hosting tool
No user management	Built in user management

Git commands

1. git config -The git config command is used initially to configure the user.name and user.email. This specifies what email id and username will be used from a local repository.

   When git config is used with --global flag, it writes the settings to all repositories on the computer.

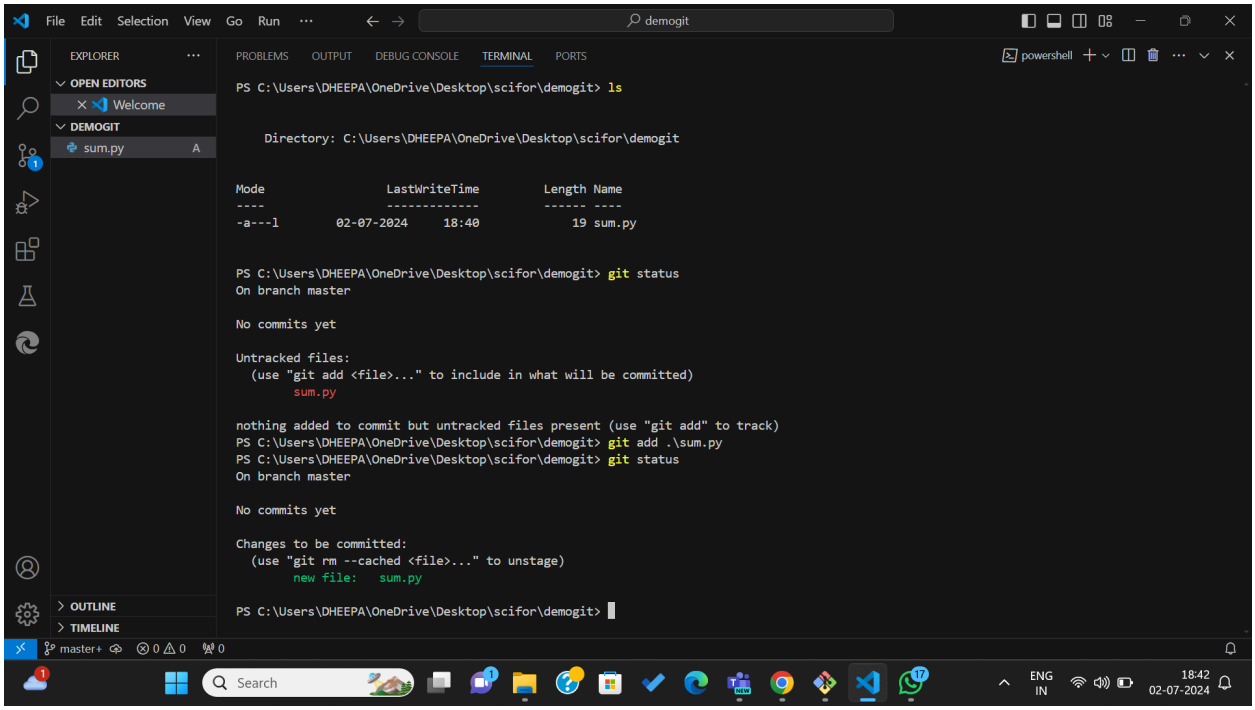


2. git init- Initialize a local Git repository

   After the git init command is used, a .git folder is created in the directory with some subdirectories. Once the repository is initialized, the process of creating other files begins.

3. git status- The git status command tells the current state of the repository.

   The command provides the current working branch. If the files are in the staging area, but not committed, it will be shown by the git status. Also, if there are no changes, it will show the message no changes to commit, working directory clean.

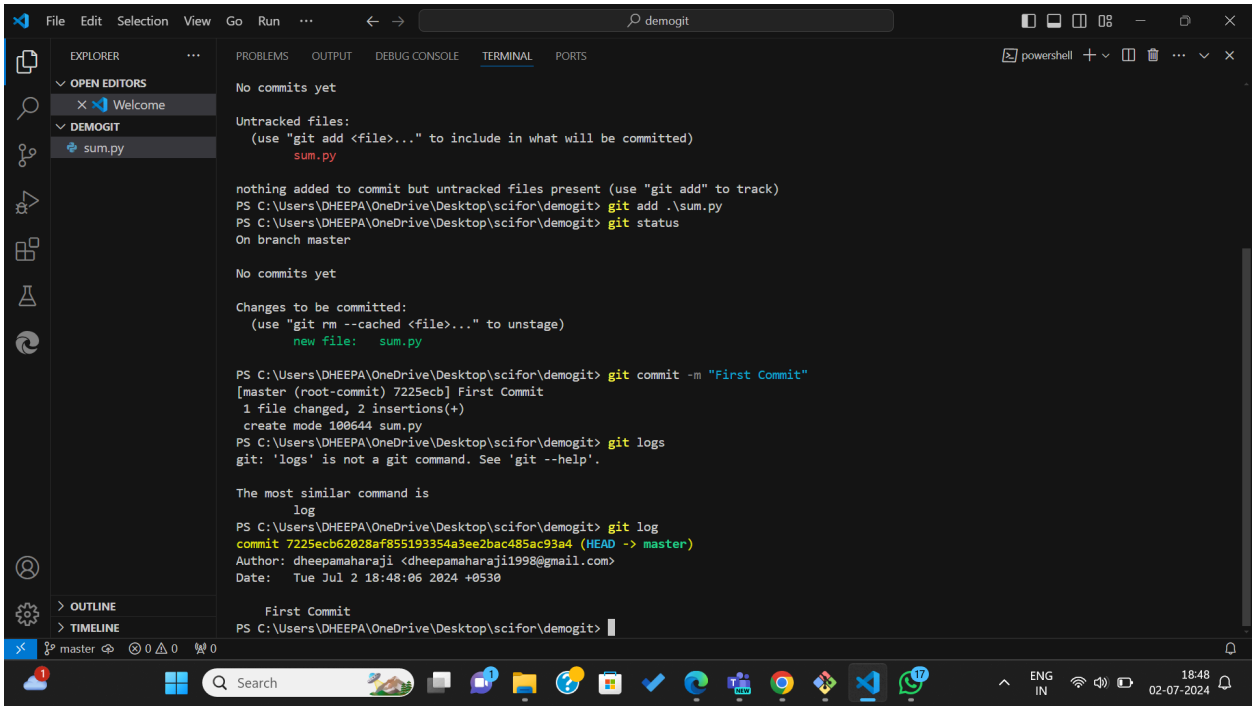


4. git add - Add command is used after checking the status of the files, to add those files to the staging area.

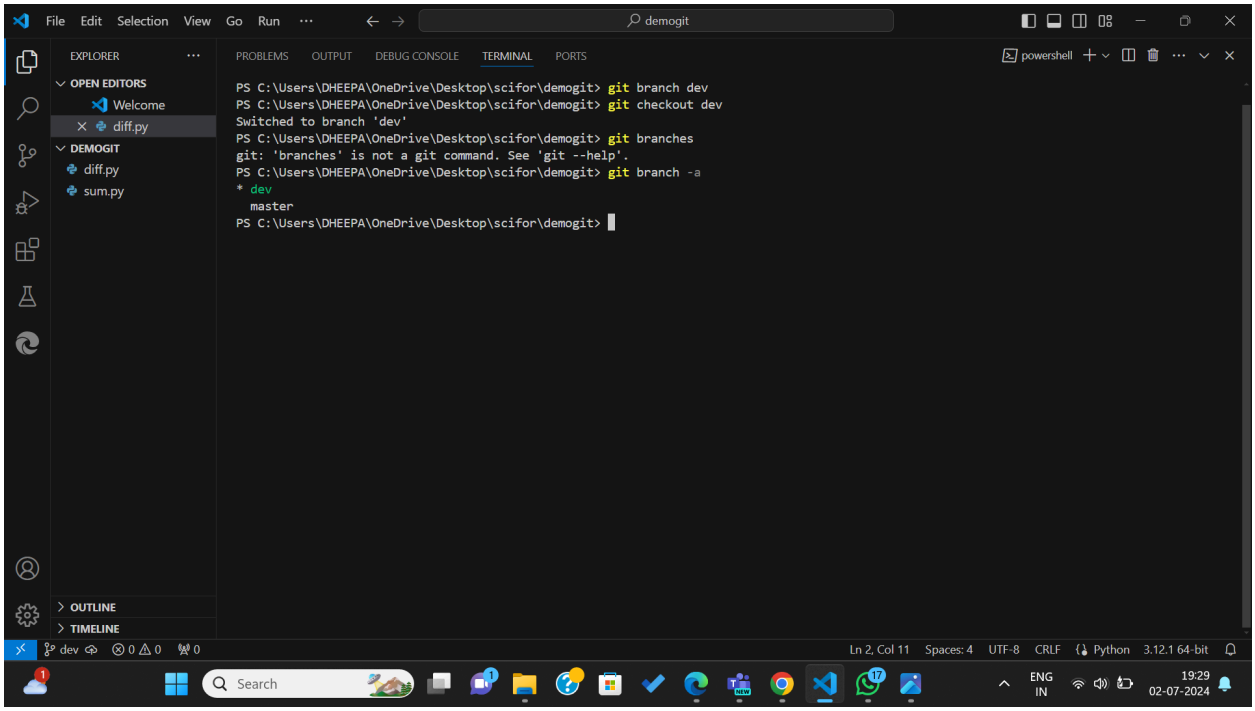
   Before running the commit command, "git add" is used to add any new or modified files.

5. git commit - The commit command makes sure that the changes are saved to the local repository.

   The command "git commit –m <message>" allows you to describe everyone and help them understand what has happened.

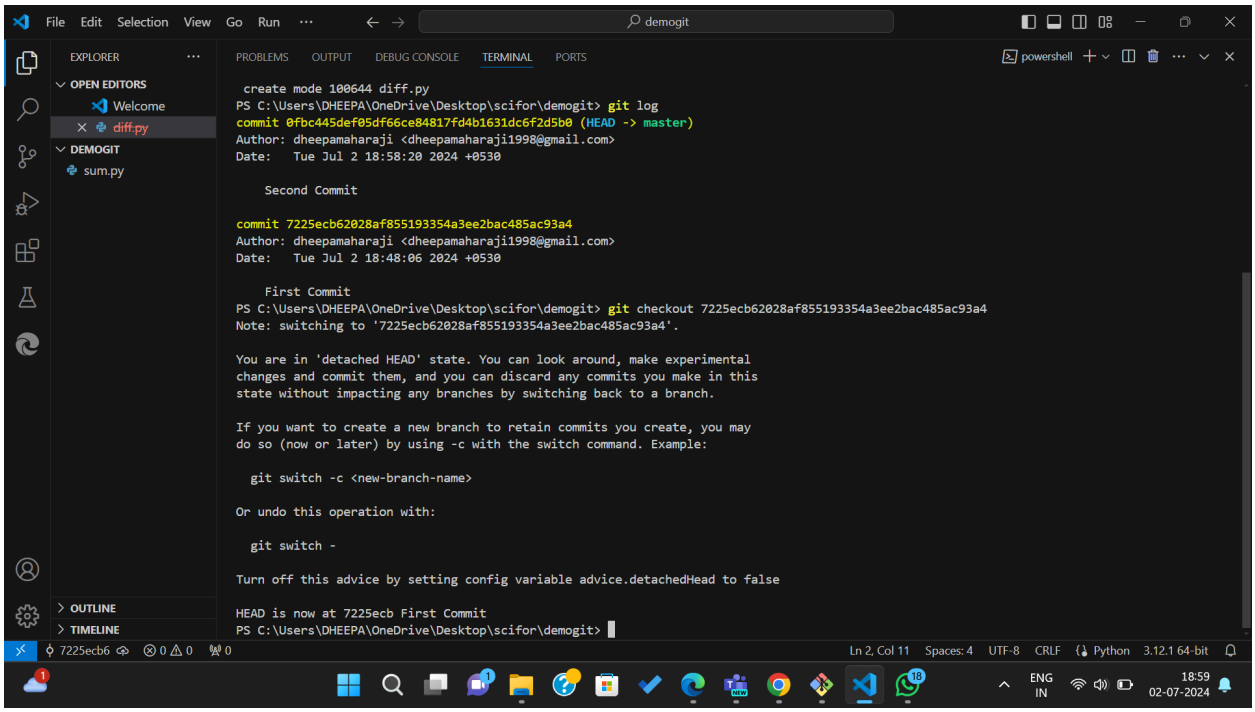


6. git branch - The git branch command is used to determine what branch the local repository is on.
   The command enables adding and deleting a branch.

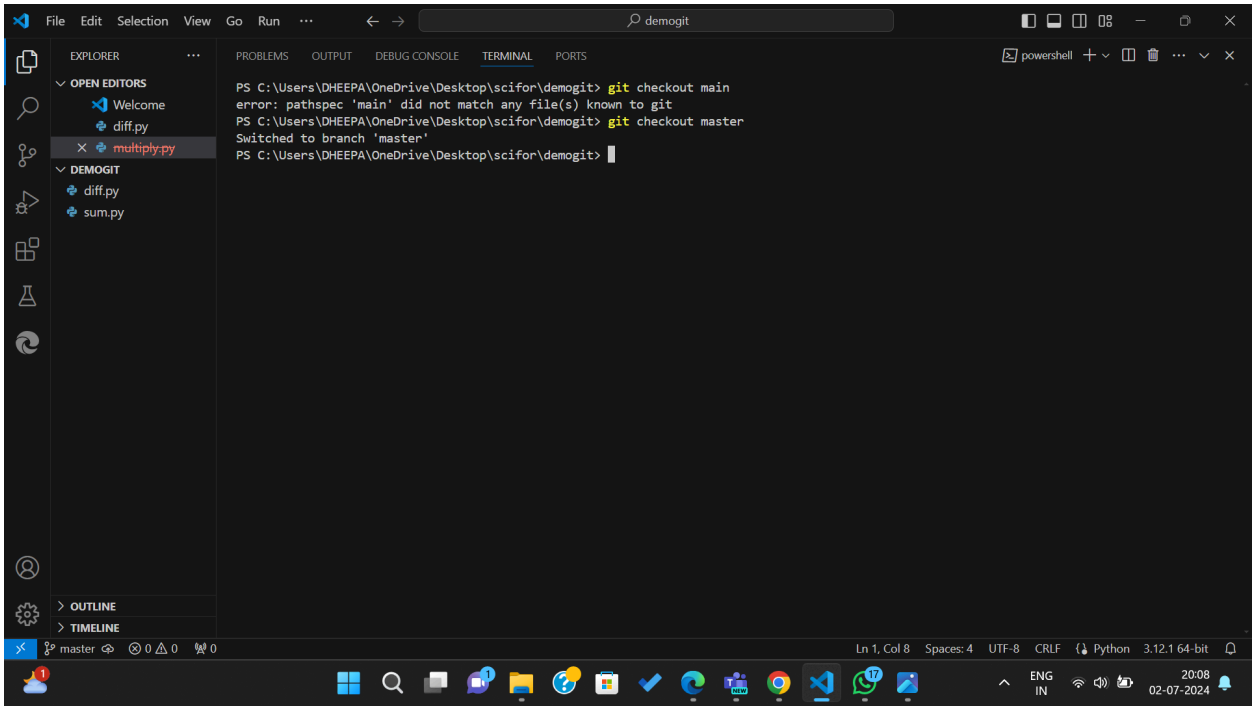


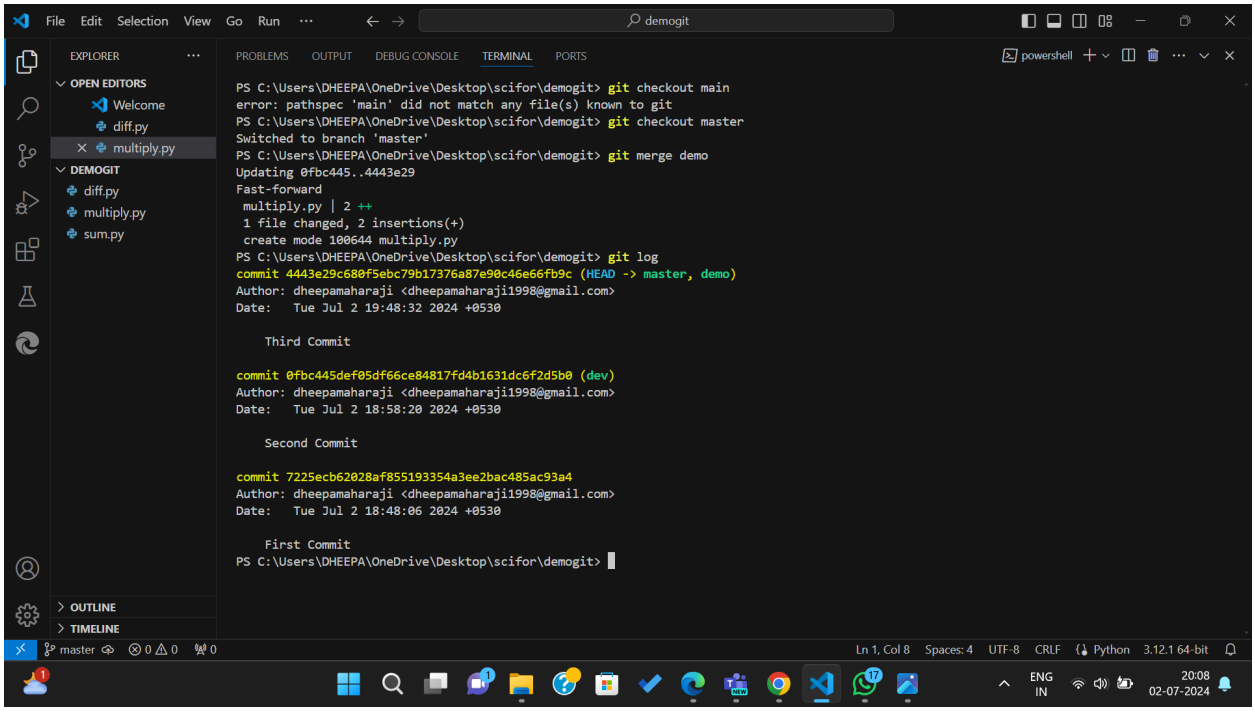
7. git checkout - The git checkout command is used to switch branches, whenever the work is to be started on a different branch.

   The command works on three separate entities: files, commits, and branches.



8. git merge - The git merge command is used to integrate the branches together. The command combines the changes from one branch to another branch. It is used to merge the changes in the staging branch to the stable branch.





9. git remote - The git remote command is used to create, view, and delete connections to other repositories.

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11. git clone - The git clone command is used to create a local working copy of an existing remote repository.

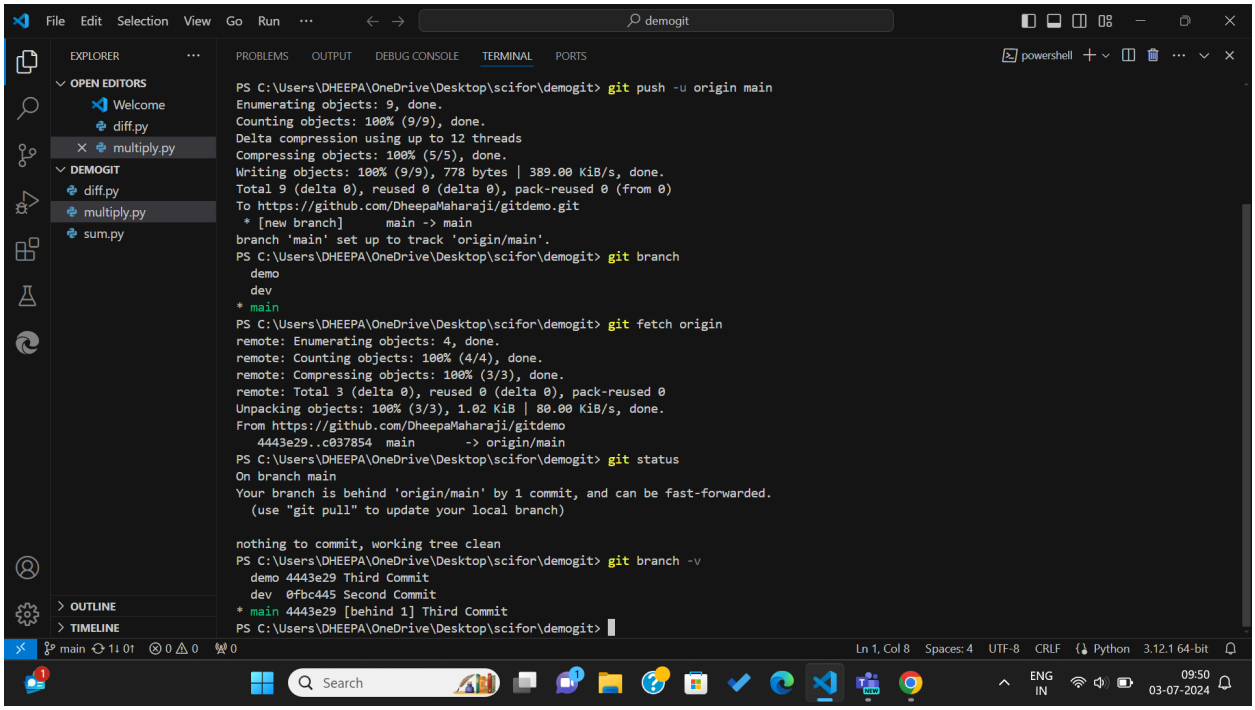
    The command downloads the remote repository to the computer. It is equivalent to the Git init command when working with a remote repository.

12. git pull - The git pull command is used to fetch and merge changes from the remote repository to the local repository.

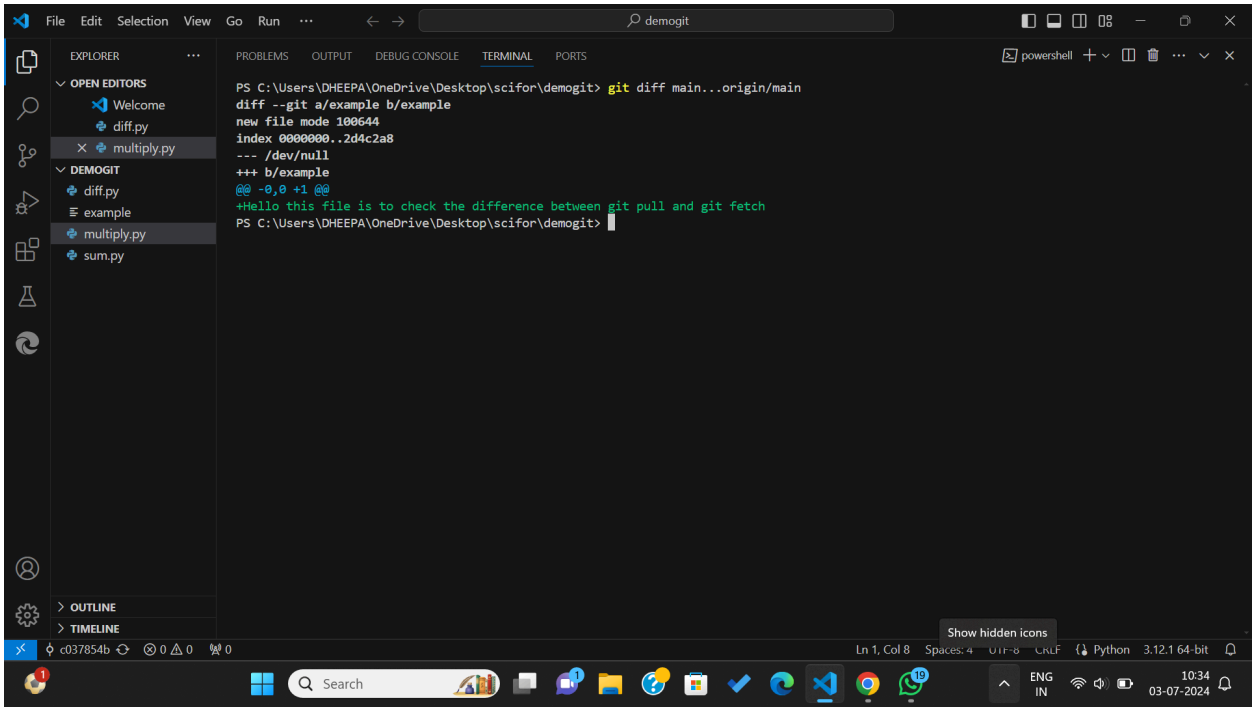
    The command "git pull origin master" copies all the files from the master branch of the remote repository to the local repository.

13. git push -The command git push is used to transfer the commits or pushing the content from the local repository to the remote repository.

    The command is used after a local repository has been modified, and the modifications are to be shared with the remote team members.



14. git fetch - The git fetch command downloads all new commits from the remote repository but does not merge them with your local copy



15. git rebase - Git rebase in standard mode will automatically take the commits in your current working branch and apply them to the head of the passed branch.