Introduction:

田 Git is a distributed vension control gystem that allows multiple people to collaborate on projects simultaneously. It keeps track to changes made to files, making the it easier to mmage different vensions and mange changes from different contributors.

Flatform built arround git. It provides a hosting platform built arround git. It provides a hosting service for git repositorizes and adds a collaborative service for git repositorizes and adds a collaborative fayer on top of Git, Developers use github to stone and Sharre Code, Collaborate, Treack issues and Mange, Prosect.

Activities:

- · Install and setting up Git on My pc.
- · Creating my first Git nepository,
 once git was installed, I created my
 first Git repository using the 'git init'
 command in my project directory. This
 initialized a local repository where I could
 track changes to my project file.

· Adding and committing files:
With my reepository set up, I began adding files to it using git add [Hilenme] to stage the changes. Then I committed these changes using git commit -m "I nitial commit" to create a snapshot.

· Connecting to Git Hub;

Git Hub. I eneated an account of and set up a new nepository on the Gitthub platform.

· Pushing Files · to Gittub

Once the connection was establish. I updoaded my local nepository to Gittub by pusshing my code using the 1 git push -u. origin main command.

· Palling changes from Github.

To undesistand. How changes made by collaborate can be integrated into my Local repository. I used "command git pull origin main command.

This pull ing any neve changes from the nemote repository on crittub to my local machine.

Git Commands :-

- · Repository setup:
- > git init (initialize a new git repository)
- → git clone (clone a repository from a nomote server to your local server)
 - · Basic Snapshotting,
- -> git add [fik] (Add changes in a file)
- -> git commit-m "[message]" (Record changes
 - to the repository)
 - · Branching and Menging:
- -> git branch (List all branches in the repository)
- -> git branch [branch name] (create a new branch
- -> git branch [branch name] (Switch to a different branch)
- →git marge [branch-name] (Marge a specific brand Einto the current one)
 - · Comparison:
- git status (show the current status of file)
- -> git Log (Display the commit his tory:)
- -> git [file] (show changes between commits)
- -> git nemote v (List nemote nepositories)
- -> git nemote add [name] [un] (Add a new remote nepository)

- → git pash [reemote] [Granch] (Push changes to a (remote repository)
- -) git pull [nemote][breamch] (Fetch changes from a (nemote nepository and merge them)
- > git neset[file] (Unstage changes in a file)
- -> git eheckout -- [fik] (Discand changes in
- a file)
- -) git tag (list existing tags)
- -> git tag [tag_nome] (create a new tag)
- -> git tag -a [tag_name] -m "[message]"
- -) git stash (stash changes in the working directory)
- > git stash apply (Apply the most recently stashed changed)
- -> git stash pop (Apply the most necently stashed changel and nemove them)
- -git go config -- global user, name "[name]"
 (Set your user name)
- git config -- global user. remal "[emril] (set your remail here).