

Aim: Program to Generate log

Theory:-

Logs -> Logs are nothing but the history which we can see in git by using the code git log. It contains all the past commits, insertions and deletions in it which we can see any time.

✧ **Why logs ->** Logs helps to check that what were the changes in the code or any other file and by whom. It also contains the number of insertions and deletions including at which time it was changed.

First of all create a local repository using Git. For this, you have to make a folder in your device, right click and select “**Git Bash Here**”. This opens the Git terminal. To create a new local repository, use the command “**git init**” and it creates a folder **.git**

✧ When we use GIT for the first time, we have to give the user name and email so that if I am going to change in project, it will be visible to all.

For this, we use command →

“git config --global user.name Name”

“git config --global user.email email”

For verifying the user’s name and email, we use →

“git config --global user.name”

“git config --global user.email”

Some Important Commands:

- **ls →** It gives the file names in the folder.

- **ls -la** → Gives the hidden files also.
 - **git status** → Displays the state of the working directory and the staged snapshot.
 - **touch filename** → This command creates a new file in the repository.
 - **Clear** → It clears the terminal.
 - **rm -rf .git** → It removes the repository.
 - **git log** → displays all of the commits in a repository's history
 - **git diff** → It compares my working tree to staging area.
- ✧ Now, we have to create some files in the repository. Suppose we created index.html Now type git status:

git log: *The git log command displays a record of the commits in a Git repository. By default, the git log command displays a commit hash, the commit message, and other commit metadata.*

Snapshots –

```
commit fd0efed81cc5ed66b28e79324755b4b37633bd78 (HEAD -> master, origin/master)
Author: Aaryan Sood <aaryan0020.be21@chitkara.edu.in>
Date: Sat Apr 9 20:40:46 2022 +0530

    THIS IS A MIRROR REPOSITORY

commit fe7d35243ec3bfc35fc200a9319458a99e7b511c
Author: Aaryan Sood <aaryan0020.be21@chitkara.edu.in>
Date: Sat Apr 9 20:07:08 2022 +0530

    ADDED TimeComplexity.java

commit dd363c1cd7a372b2b4d38c85c5ff8d1f752220
Author: Aaryan Sood <aaryan0020.be21@chitkara.edu.in>
Date: Sat Apr 9 20:06:36 2022 +0530

    ADDED PATTERNS-3

commit ae00b8808ec9a3b2e041b3f6a6efb2d9f83d2f82
Author: Aaryan Sood <aaryan0020.be21@chitkara.edu.in>
Date: Sat Apr 9 20:04:46 2022 +0530

    ADDED PATTERNS-1

commit 74662e6944048a24015a975e5f7174d8c636d35b
Author: Aaryan Sood <aaryan0020.be21@chitkara.edu.in>
Date: Sat Apr 9 20:03:39 2022 +0530

    ADDED RECURSION-3

commit c13802ce3ed6878baf916a8b1423e419eb287380
Author: Aaryan Sood <aaryan0020.be21@chitkara.edu.in>
Date: Sat Apr 9 20:02:50 2022 +0530

    ADDED REDCURSION-2

:|
```