Exercise 3

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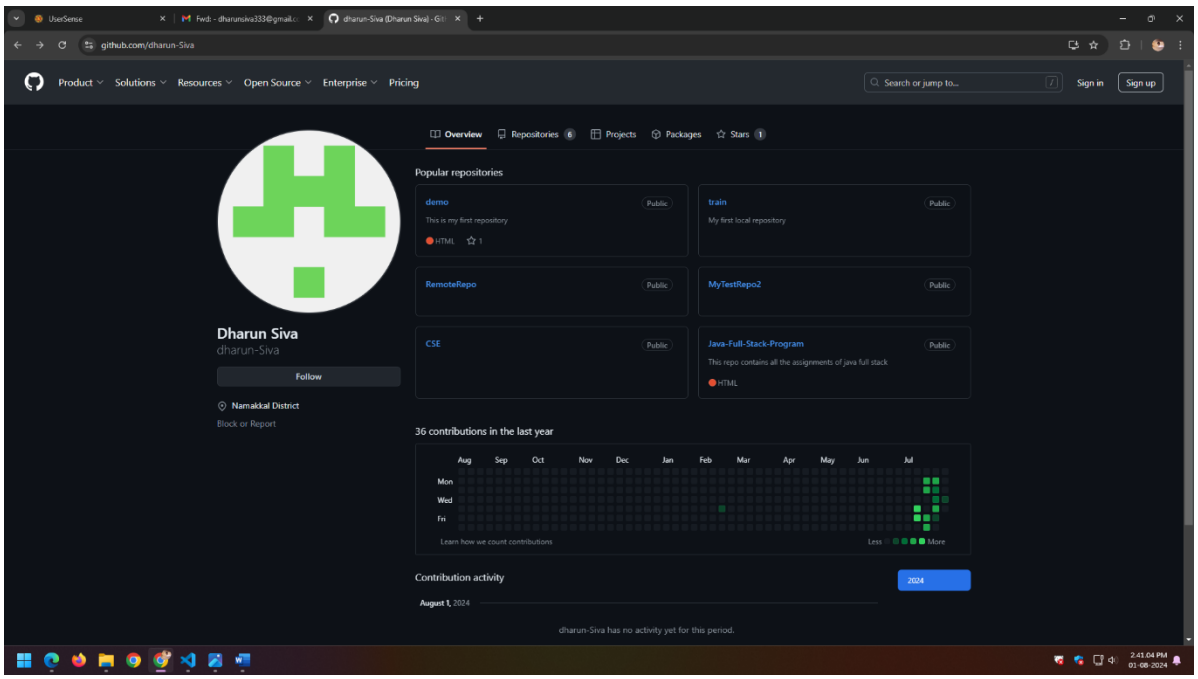
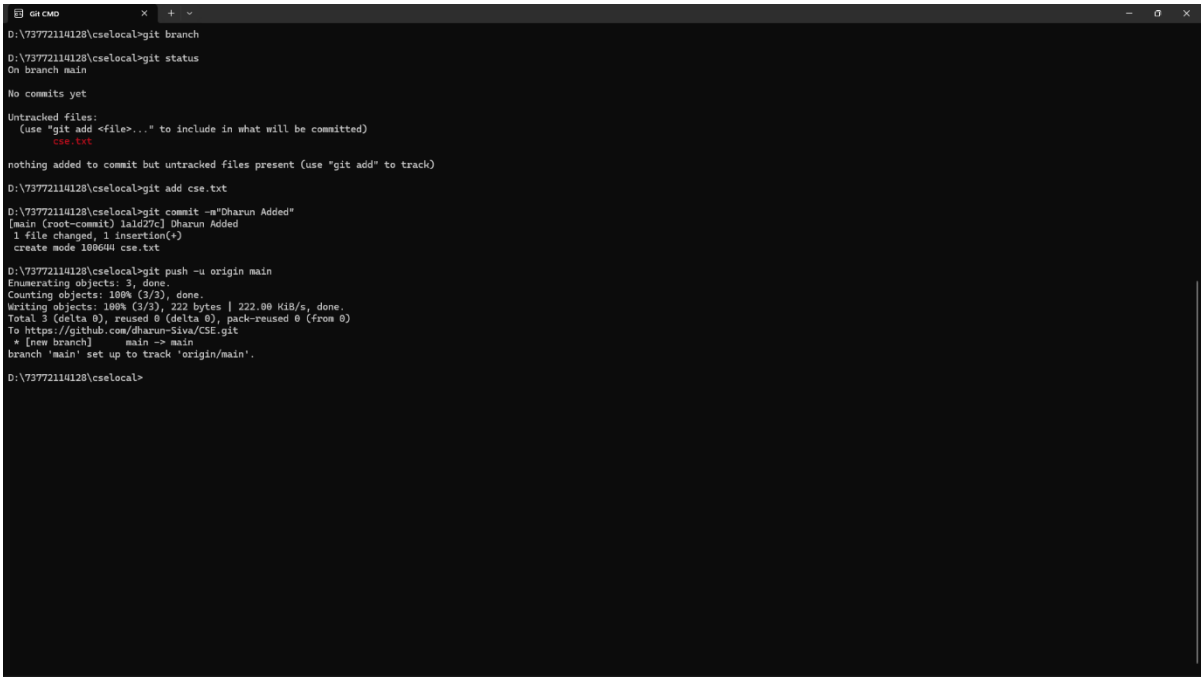
College: K S Rangasamy college of Technology

Screenshots

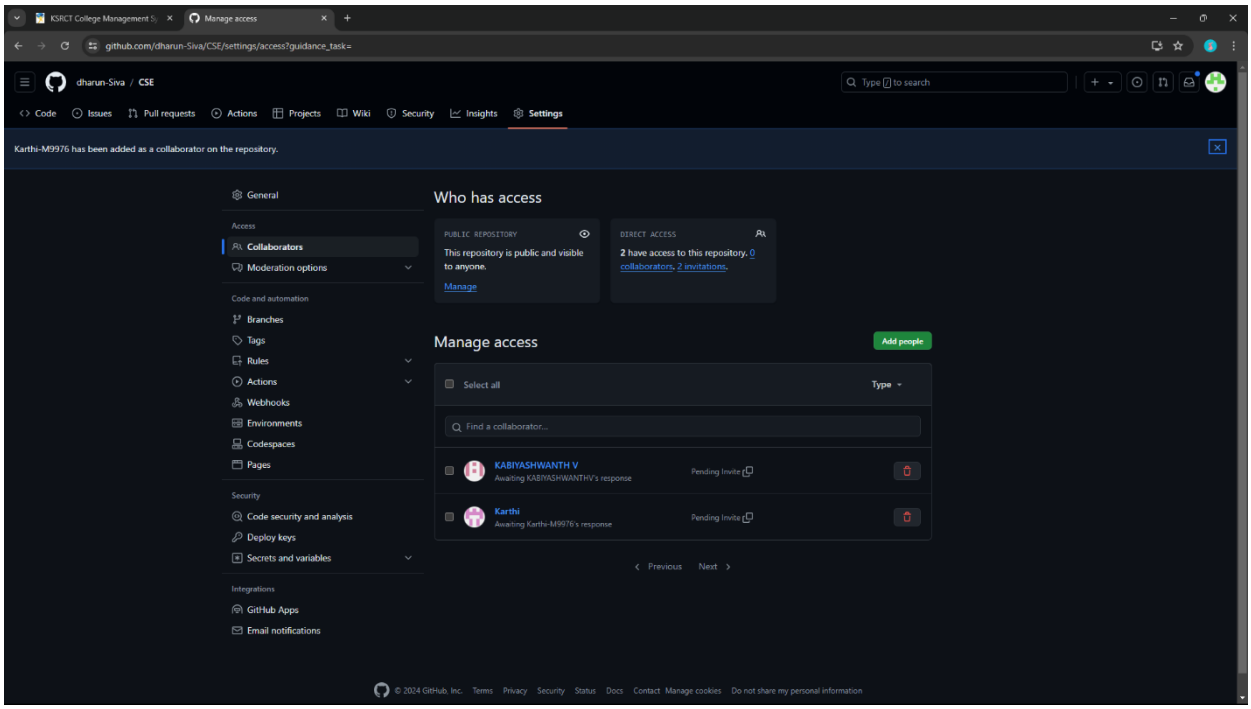
1. **First, one person in the group should create a public repository using their GitHub account.**



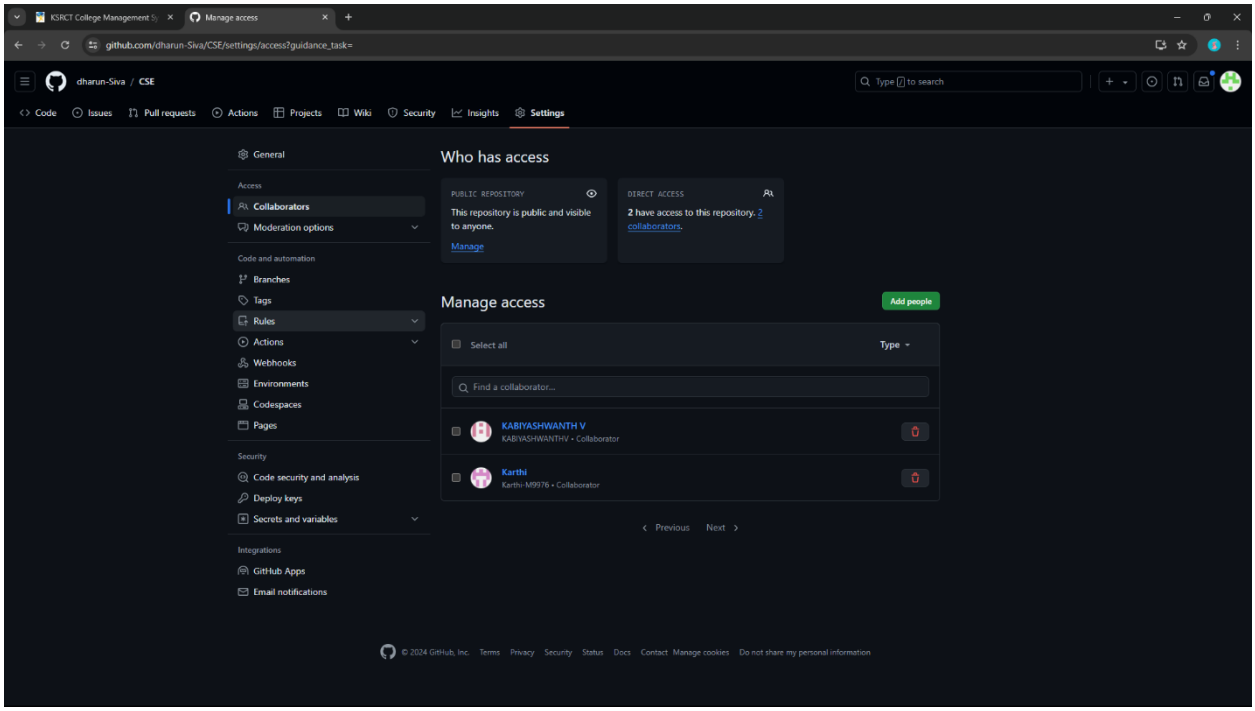
2. **This same person should then follow the instructions from GitHub to add a remote, and then push their repository. Do not forget the –u flag, as suggested by GitHub**



3. All of the other members of the group should then be added as collaborators, so they can commit to the repository also.

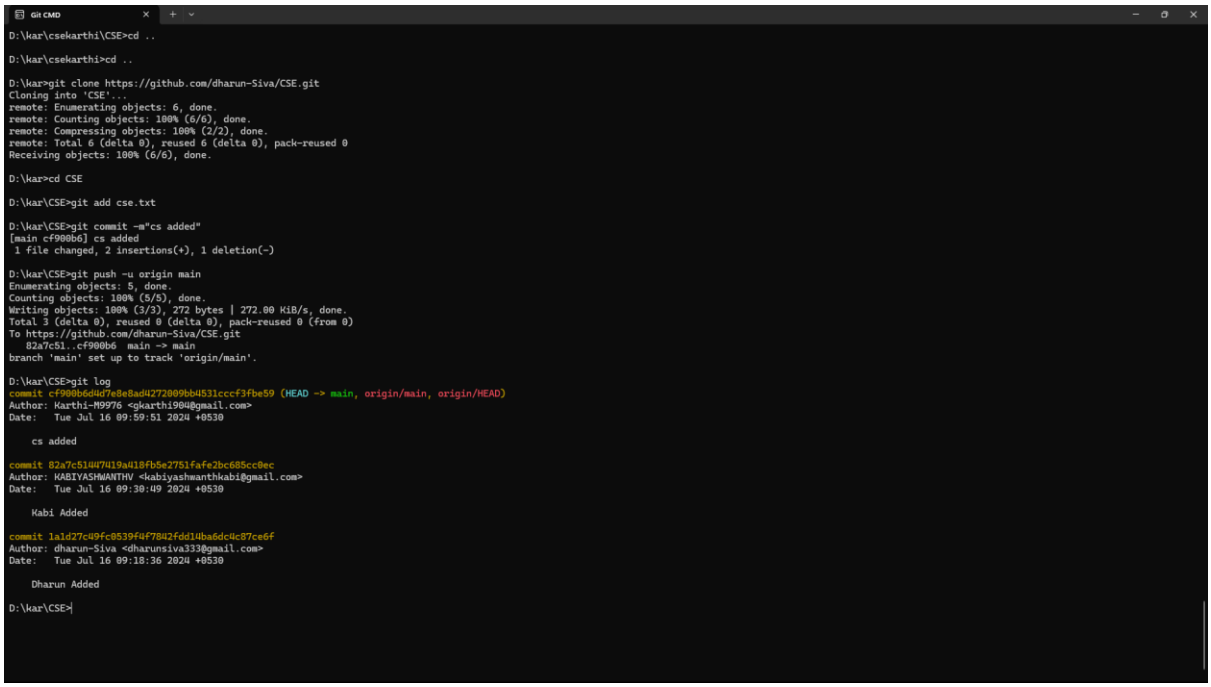


4.Next, everyone else in the group should clone the repository from GitHub. Verify that the context of the repository is what is expected.



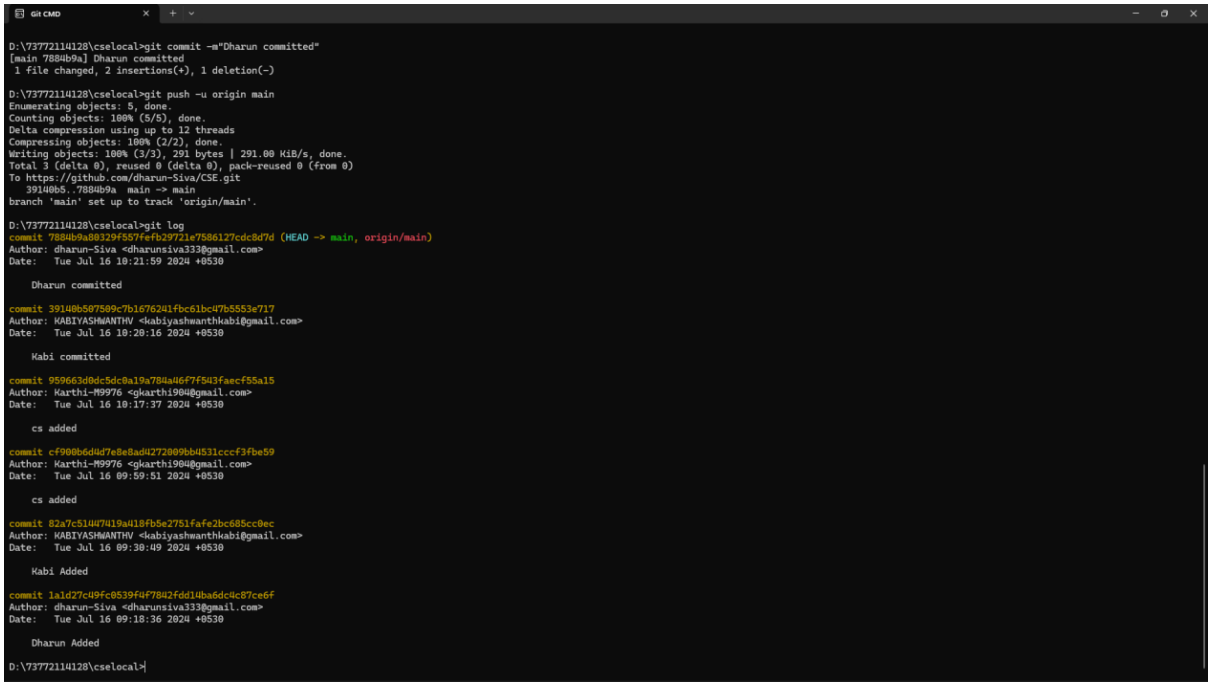
5. One of the group members who just cloned should now make a local commit, then push it. Everyone should verify that when they pull, that commit is added to their local repository

```
D:\737721141150\csekabi\CSE>git push -u origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Writing objects: 100% (3/3), 281 bytes | 281.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/dharun-Siva/CSE.git
   1a1d27c..82a7c51  main -> main
branch 'main' set up to track 'origin/main'.
```

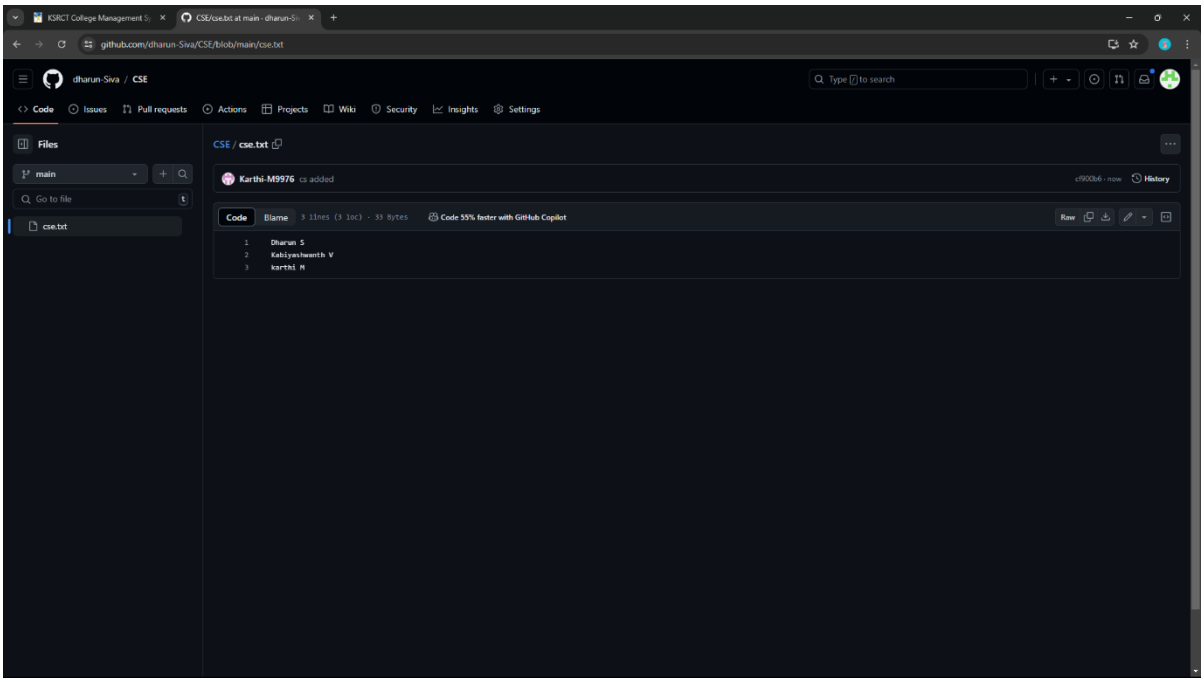


```
Git CMD

D:\kar\csekarthi\CSE>cd ..

D:\kar\csekarthi>cd ..

D:\kar>git clone https://github.com/dharun-Siva/CSE.git
Cloning into 'CSE'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 6 (delta 0), reused 6 (delta 0), pack-reused 0
Receiving objects: 100% (6/6), done.

D:\kar>cd CSE

D:\kar\CSE>git add cse.txt

D:\kar\CSE>git commit -m"cs added"
[main cf900b6] cs added
 1 file changed, 2 insertions(+), 1 deletion(-)

D:\kar\CSE>git push -u origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Writing objects: 100% (3/3), 272 bytes | 272.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/dharun-Siva/CSE.git
   82a7c51..cf900b6  main -> main
branch 'main' set up to track 'origin/main'.

D:\kar\CSE>git log
commit cf900b6d4d7e8e8ad4272009bb4531cccf3fbe59 (HEAD -> main, origin/main, origin/HEAD)
Author: Karthi-M9976 <gkarthi984@gmail.com>
Date:   Tue Jul 16 09:59:51 2024 +0530

    cs added

commit 82a7c5144f7419a418fb5e2751fafe2bc685cc0ec
Author: KABIYASHWANTHV <kabiyashwanthkabi@gmail.com>
Date:   Tue Jul 16 09:30:49 2024 +0530

    Kabi Added

commit 1a1d27c49fc8539f4f7842fdd14ba6dc4c87ce6f
Author: dharun-Siva <dharunsiva333@gmail.com>
Date:   Tue Jul 16 09:18:36 2024 +0530

    Dharun Added

D:\kar\CSE>
```

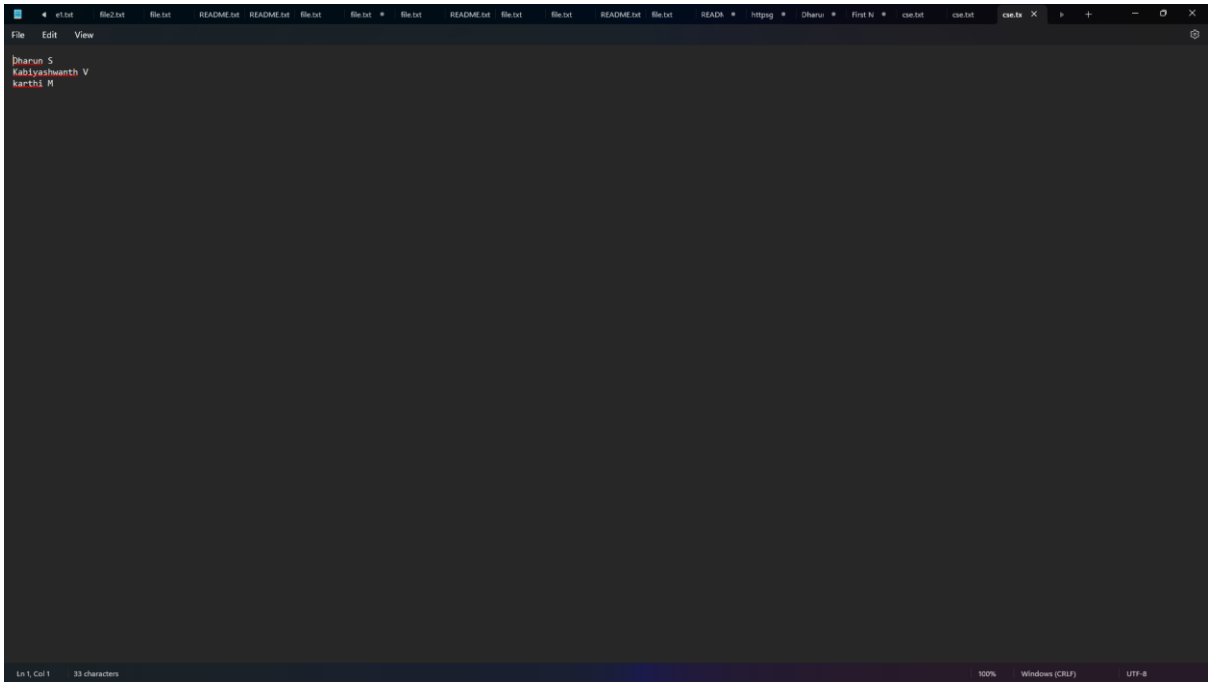
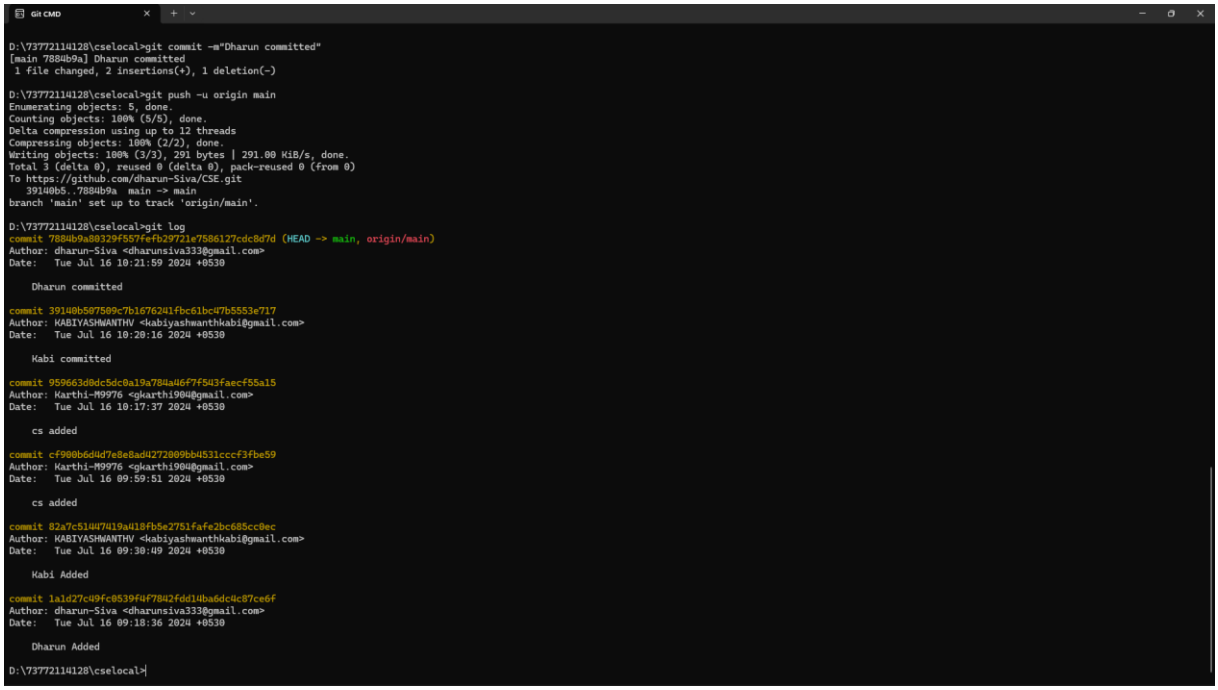
6. Look at each other's git log output. Notice how the SHA-1 is the same for a given commit across every copy of the repository. Why is this important?



7. Two members of the group should now make a commit locally, and race to push it. To keep things simple, be sure to edit different files. What happens to the runner-up?



8. The runner-up should now pull. As a group, look at the output of the command. Additionally, look at the git log, and notice that there is a merge commit. You may also wish to view the DAG in gitk.



9.Repeat the last two steps a couple of times, to practice.