

## **Exercise 3**

**Name : Dharun S**

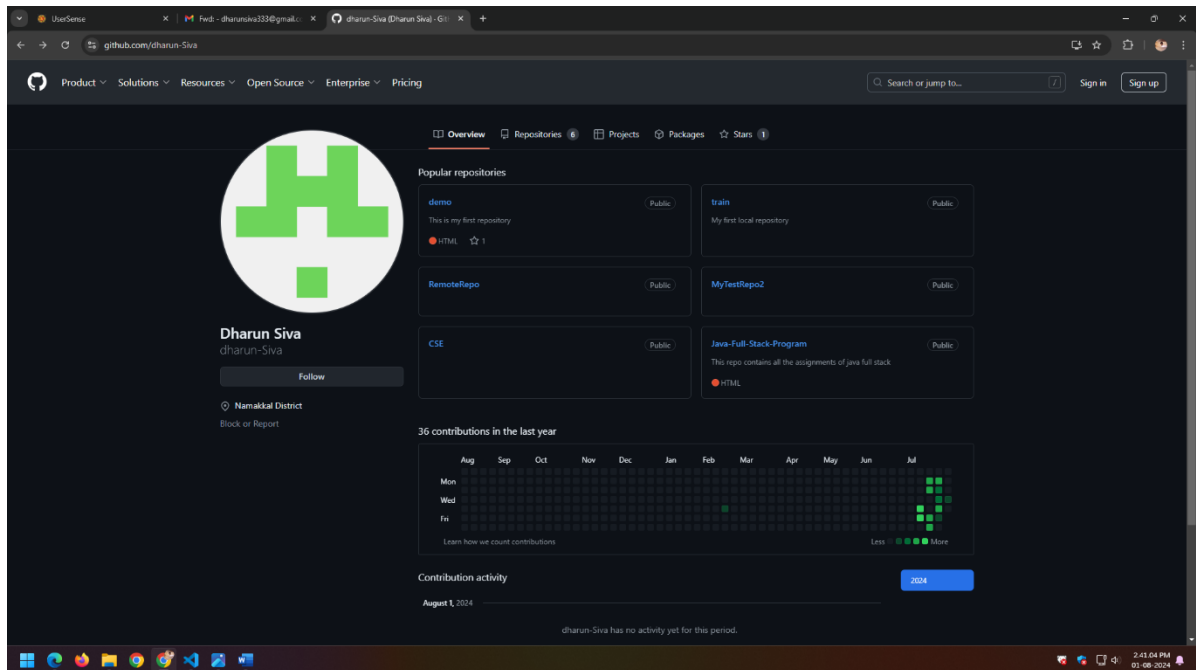
**Reg No : 73772114128**

**Dept : B.E\_Computer Science and Engineering**

**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

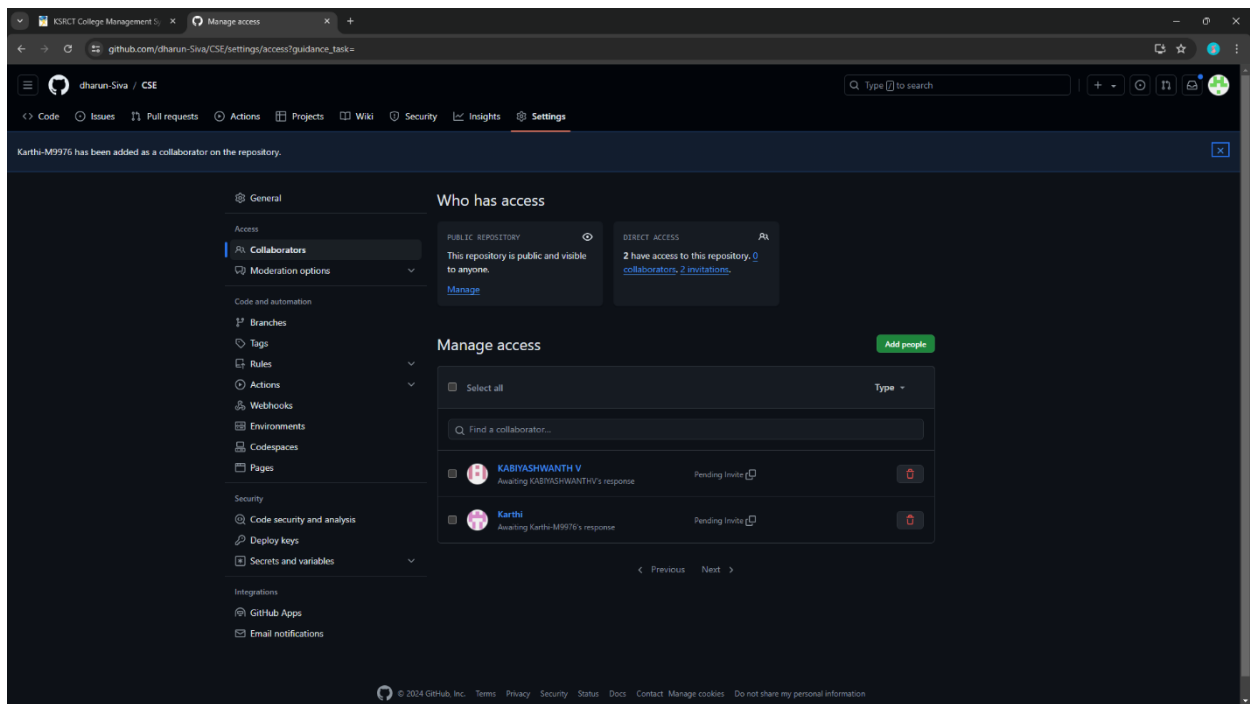
```
git cmo
D:\73772114128\cse\local>git branch
D:\73772114128\cse\local>git status
On branch main

No commits yet

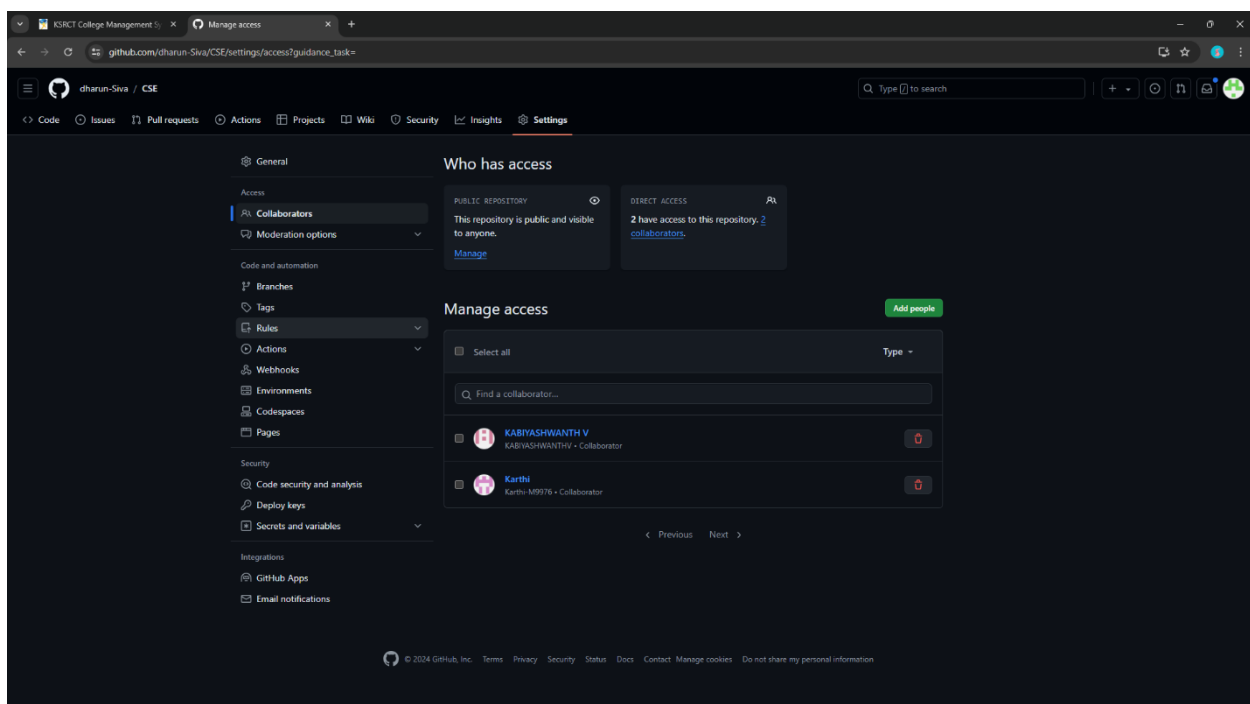
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    cse.txt

nothing added to commit but untracked files present (use "git add" to track)
D:\73772114128\cse\local>git add cse.txt
D:\73772114128\cse\local>git commit -m"Dharun Added"
[main (root-commit) 1ald27c] Dharun Added
 1 file changed, 1 insertion(+)
 create mode 100644 cse.txt
D:\73772114128\cse\local>git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 222 bytes | 222.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/dharun-Siva/CSE.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
D:\73772114128\cse\local>
```

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

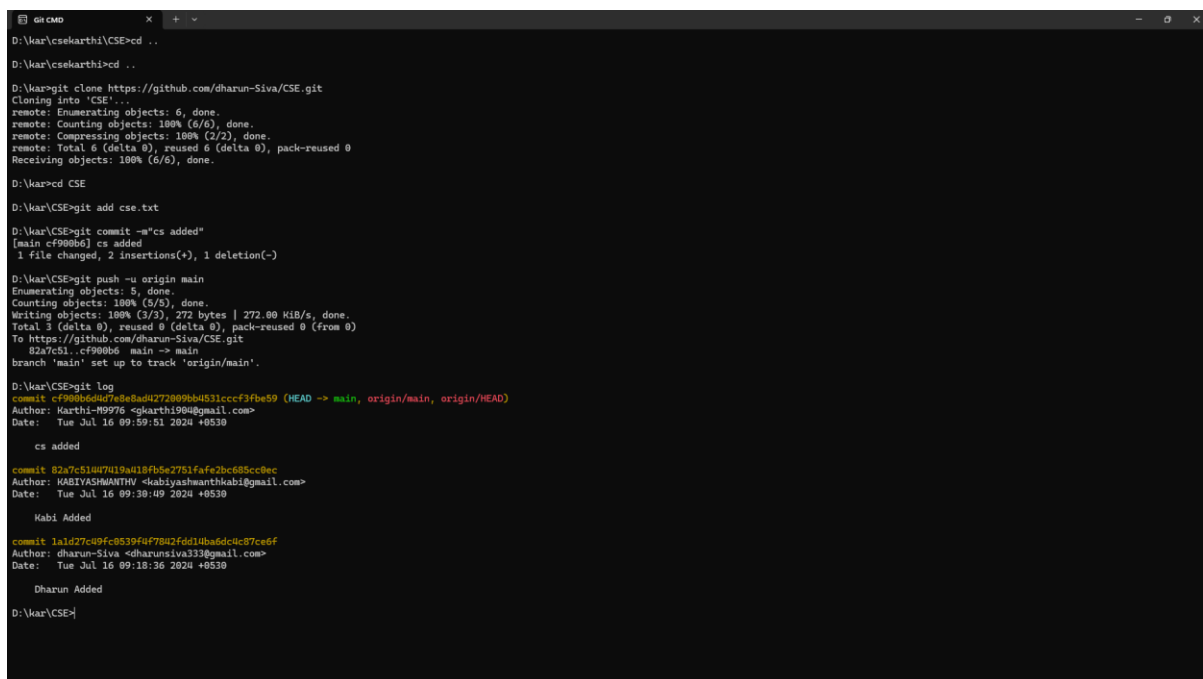


**4.Next, everyone else in the group should clone the repository from GitHub. Verify that the context of the repository is what is expected.**



**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:\73772114150\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 cmdo
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: 5, 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 (from 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 cf900b6d87d8e8ad42728099b41531ccc43fbc59 (HEAD -> main, origin/main, origin/HEAD)
Author: Harthi-H9976 <gkarthi9904@gmail.com>
Date: Tue Jul 16 09:59:51 2024 +0530

    cs added

commit 82a7c51047419a418fb5e2751afa2bc685cc0ec
Author: KABIYASHMANTHV <kabiyashmanthkabi@gmail.com>
Date: Tue Jul 16 09:38:49 2024 +0530

    Kabi Added

commit 1a1d27c09fc0539f4f7802fdd14ba6dc0c87ce6f
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?**

```
D:\V3772114128\cse\local-git commit -m"Dharun committed"
[main 7884b9a] Dharun committed
1 file changed, 2 insertions(+), 1 deletion(-)

D:\V3772114128\cse\local-git push -u origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 291 bytes | 291.00 MiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/dharun-Siva/CSE.git
39140b5..7884b9a main -> main
branch 'main' set up to track 'origin/main'.

D:\V3772114128\cse\local-git log
commit 7884b9a8329f5f57febf29721e7586127cdc8d7d (HEAD -> main, origin/main)
Author: dharun-Siva <dharunsiva333@gmail.com>
Date: Tue Jul 16 10:21:59 2024 +0530

    Dharun committed

commit 39140b507599c7b1676241fbc61bc07b5553e717
Author: KABIYASHANANTHV <kabiyashwanthkabi@gmail.com>
Date: Tue Jul 16 10:20:16 2024 +0530

    Kabi committed

commit 959663d0dc5dc0a19a7884d6f7f543faecf55a15
Author: Karthi-M9976 <gkarthi990@gmail.com>
Date: Tue Jul 16 10:17:37 2024 +0530

    cs added

commit cf900b6d0d47e8e8a4d272009b0b0511ccc3f3e59
Author: Karthi-M9976 <gkarthi990@gmail.com>
Date: Tue Jul 16 09:59:51 2024 +0530

    cs added

commit 82a7c51407419a418fb5e2751fafe2bc685cc0ec
Author: KABIYASHANANTHV <kabiyashwanthkabi@gmail.com>
Date: Tue Jul 16 09:38:49 2024 +0530

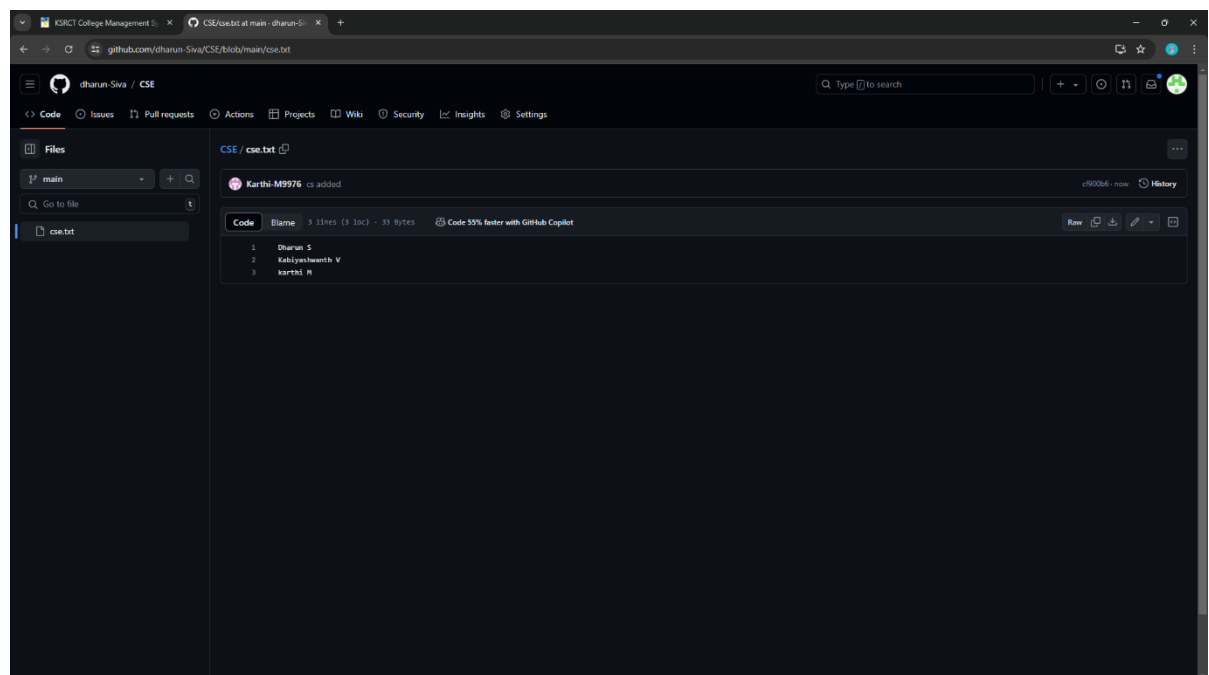
    Kabi Added

commit 1a1d27c49fc8539f4f78a2fdd14ba6dc4c87ce6f
Author: dharun-Siva <dharunsiva333@gmail.com>
Date: Tue Jul 16 09:18:36 2024 +0530

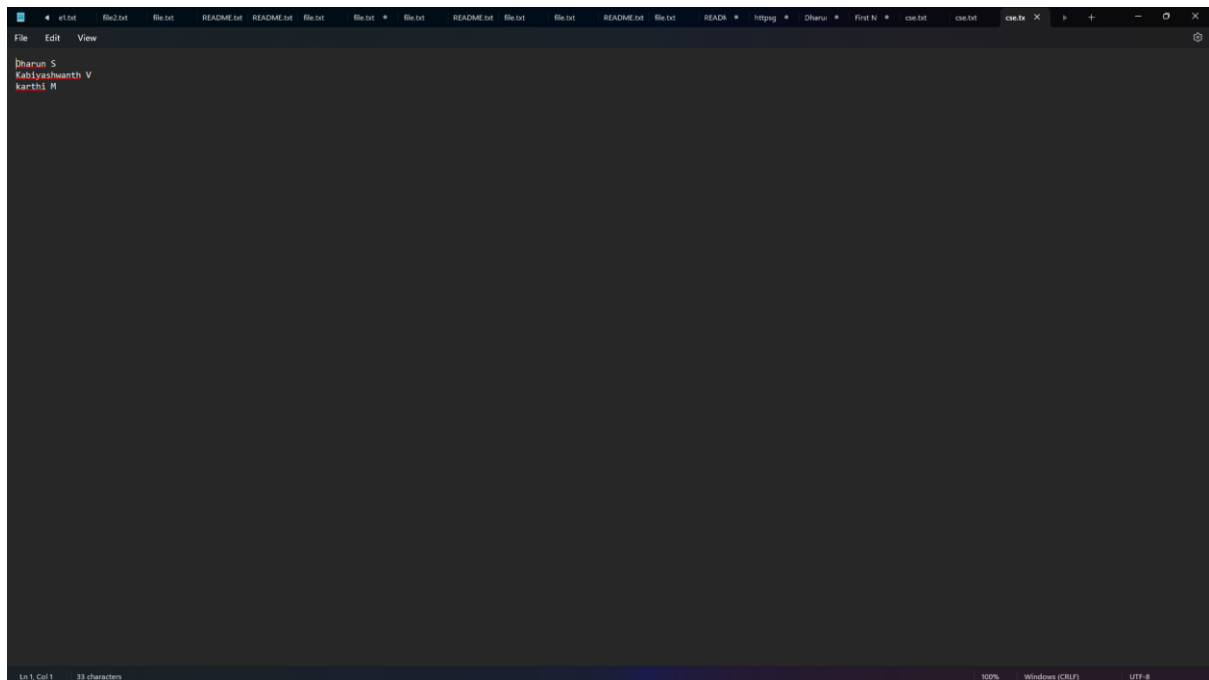
    Dharun Added

D:\V3772114128\cse\local->
```

**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?**



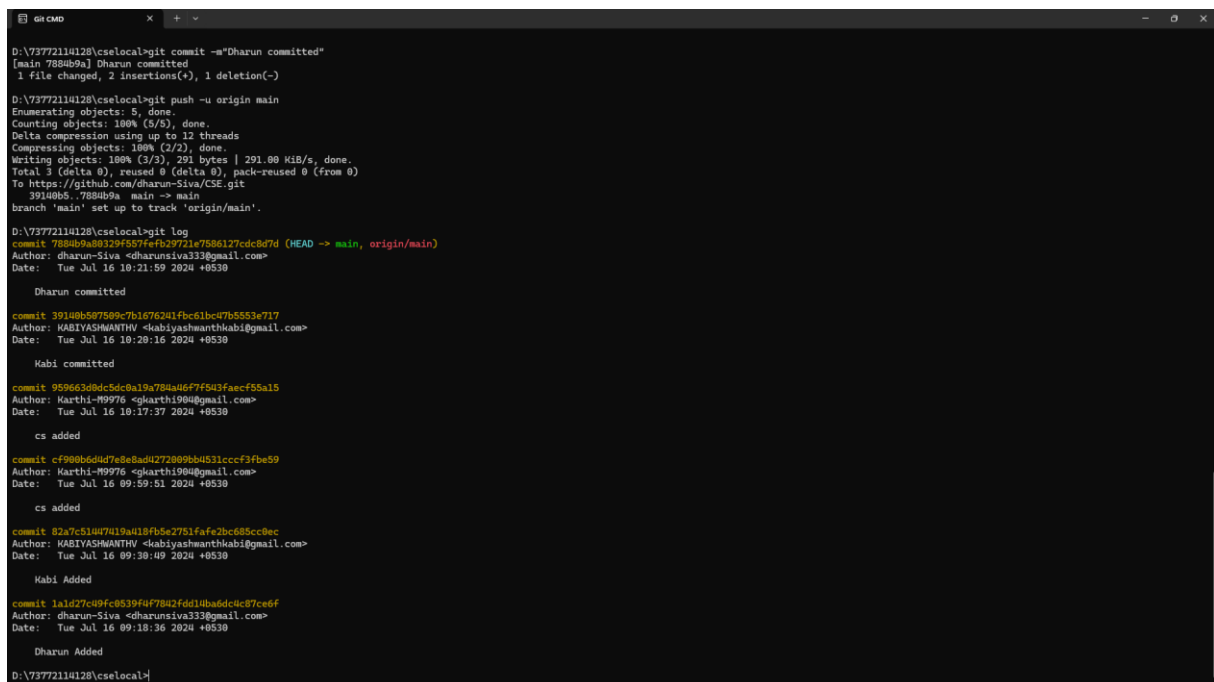
**8. The runner-up should now pull. As a group, look at the output of the command. Additionally, look at the git log, and notice that there is a merge commit. You may also wish to view the DAG in gitk.**



A screenshot of a code editor window with a dark theme. The editor shows a git commit message in a monospaced font. The message is:   
Dharun S  
Kabyashwanth V  
Karthi N  
The editor has a menu bar with 'File', 'Edit', and 'View'. The status bar at the bottom indicates 'Ln 1, Col 1', '33 characters', '100%', 'Windows (CRLF)', and 'UTF-8'.

```
Dharun S
Kabyashwanth V
Karthi N
```

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



A screenshot of a terminal window with a dark theme. It shows a series of git commands and their output. The commands include:   
1. `git commit -m "Dharun committed"` - Output shows the commit was successful with 1 file changed.   
2. `git push -u origin main` - Output shows the push was successful to the main branch.   
3. `git log` - Output shows the commit history.   
4. `git commit -m "Kabi committed"` - Output shows the commit was successful.   
5. `git commit -m "cs added"` - Output shows the commit was successful.   
6. `git commit -m "Kabi Added"` - Output shows the commit was successful.   
7. `git commit -m "Dharun Added"` - Output shows the commit was successful.   
The terminal shows the full output for each command, including object counting, compression, and the resulting commit hash and author information.

```
D:\V3772214128\cse\local>git commit -m "Dharun committed"
[main 7884b9a] Dharun committed
1 file changed, 2 insertions(+), 1 deletion(-)

D:\V3772214128\cse\local>git push -u origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 291 bytes | 291.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/dharun-siva/CS.git
   39140b5..7884b9a  main -> main
branch 'main' set up to track 'origin/main'.

D:\V3772214128\cse\local>git log
commit 7884b9a8329f557f4e29721e7586127cdc8d7d (HEAD -> main, origin/main)
Author: dharun-siva <dharunsiva333@gmail.com>
Date: Tue Jul 16 10:21:59 2024 +0530

    Dharun committed

commit 39140b50785927b167c3d1fb41bc47b5531e717
Author: KABIYASHWANATHV <kabyashwanthkabi@gmail.com>
Date: Tue Jul 16 10:20:16 2024 +0530

    Kabi committed

commit 95963d8dc5dc8a19a784a46f7f93faecf55a15
Author: Karthi-R9976 <gkarthi9904@gmail.com>
Date: Tue Jul 16 10:17:37 2024 +0530

    cs added

commit c9986d4d7a8a8d41722089a4d31cccf3be59
Author: Karthi-R9976 <gkarthi9904@gmail.com>
Date: Tue Jul 16 09:59:51 2024 +0530

    cs added

commit 82a7c51407419a418fbbe2751fafe2bc685cc8ec
Author: KABIYASHWANATHV <kabyashwanthkabi@gmail.com>
Date: Tue Jul 16 09:38:49 2024 +0530

    Kabi Added

commit 1a1d27c49fc853849f7812fdd14b6ddc87ce6f
Author: dharun-siva <dharunsiva333@gmail.com>
Date: Tue Jul 16 09:18:36 2024 +0530

    Dharun Added

D:\V3772214128\cse\local>
```

