

Exercise 3

Name : Karthi M

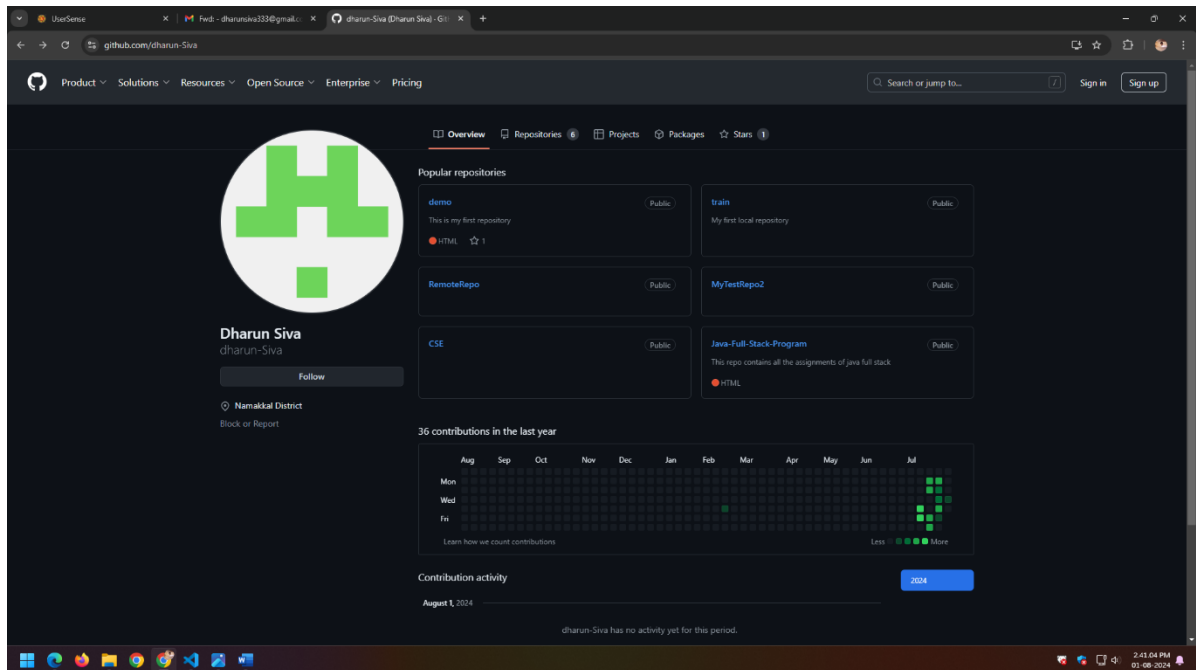
Reg No : 73772114153

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

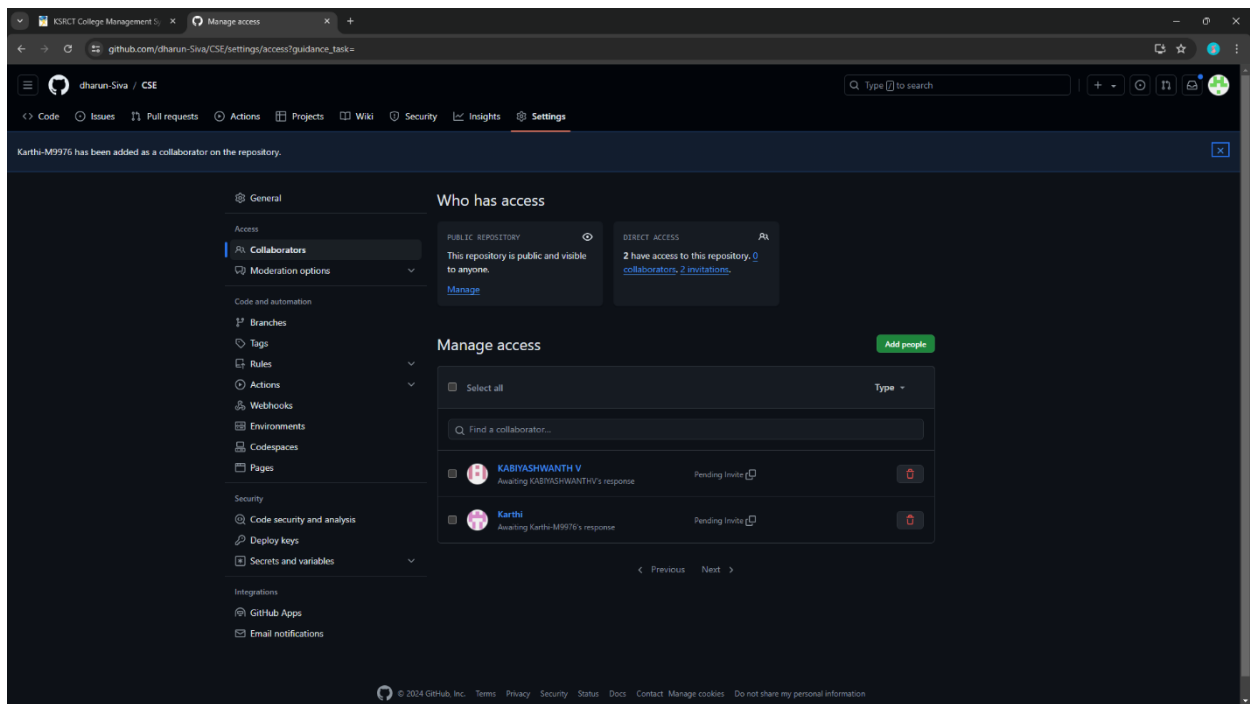
```
git cmo
D:\73772114128\cse\local>git branch
D:\73772114128\cse\local>git status
On branch main

No commits yet

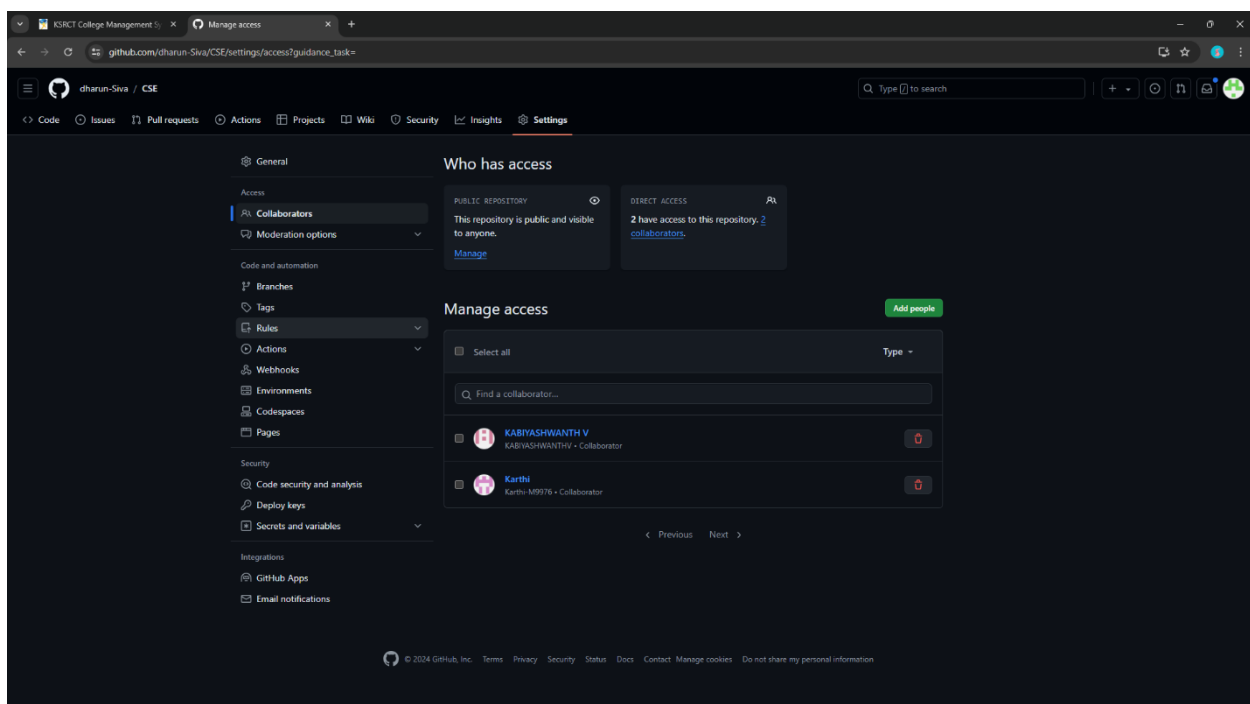
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    cse.txt

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.

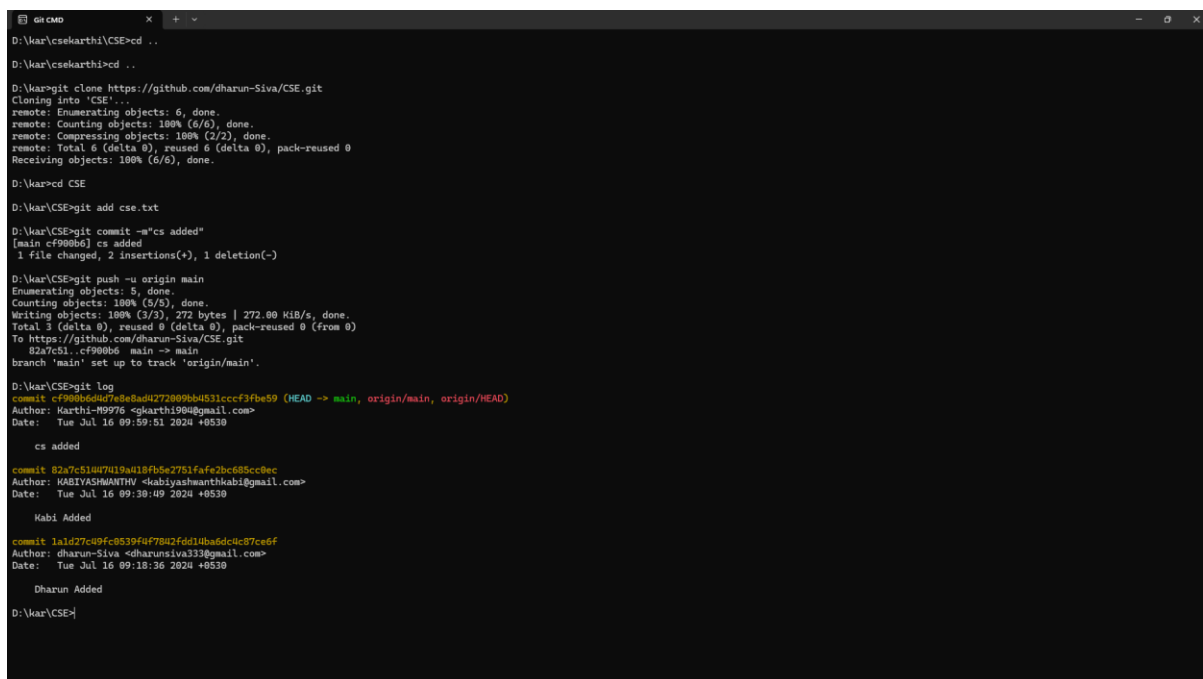


4.Next, everyone else in the group should clone the repository from GitHub. Verify that the context of the repository is what is expected.



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 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: 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
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 cf900b6d87d8e8ad42728099b4b531ccc43fbc59 (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 <gkarthi984@gmail.com>
Date: Tue Jul 16 10:17:37 2024 +0530

    cs added

commit cf900b6d0d47e8e8a4d272009b4b511ccc3f3e59
Author: Karthi-M9976 <gkarthi984@gmail.com>
Date: Tue Jul 16 09:59:51 2024 +0530

    cs added

commit 82a7c514d7419a418fb5e2751fafe2bc685cc0ec
Author: KABIYASHANANTHV <kabiyashwanthkabi@gmail.com>
Date: Tue Jul 16 09:38:49 2024 +0530

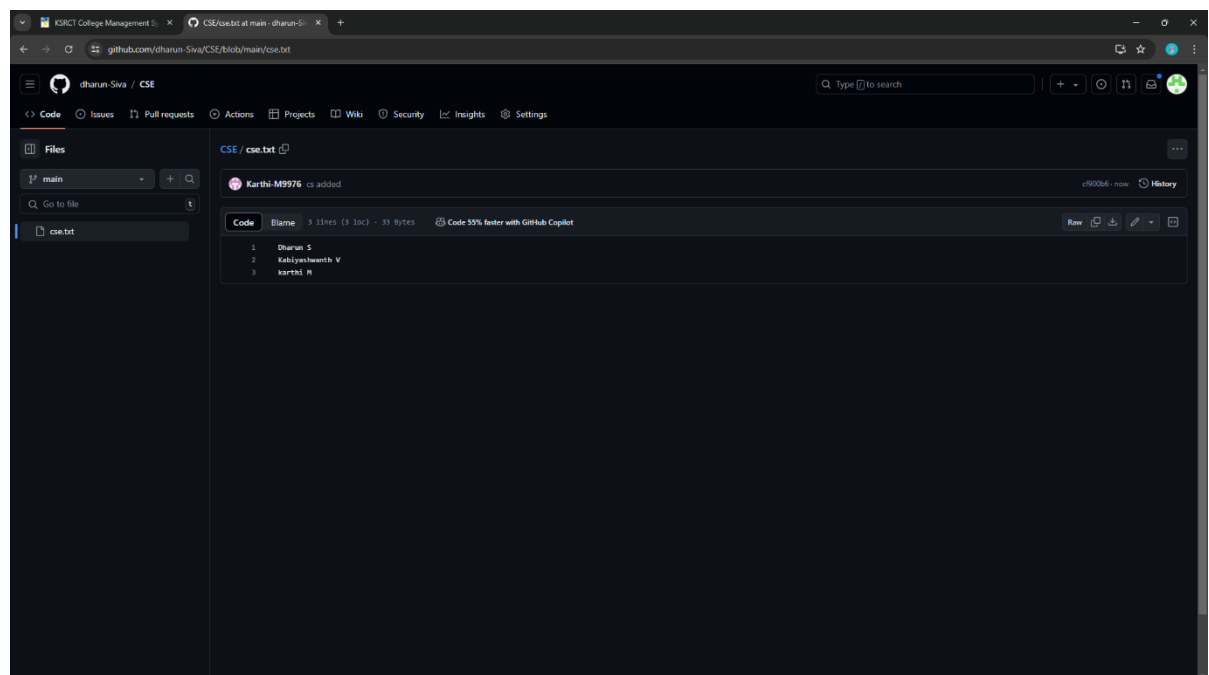
    Kabi Added

commit 1a1d27c49fc8539f4f78d2fdd14ba6dc4c87ce6f
Author: dharun-Siva <dharunsiva333@gmail.com>
Date: Tue Jul 16 09:18:36 2024 +0530

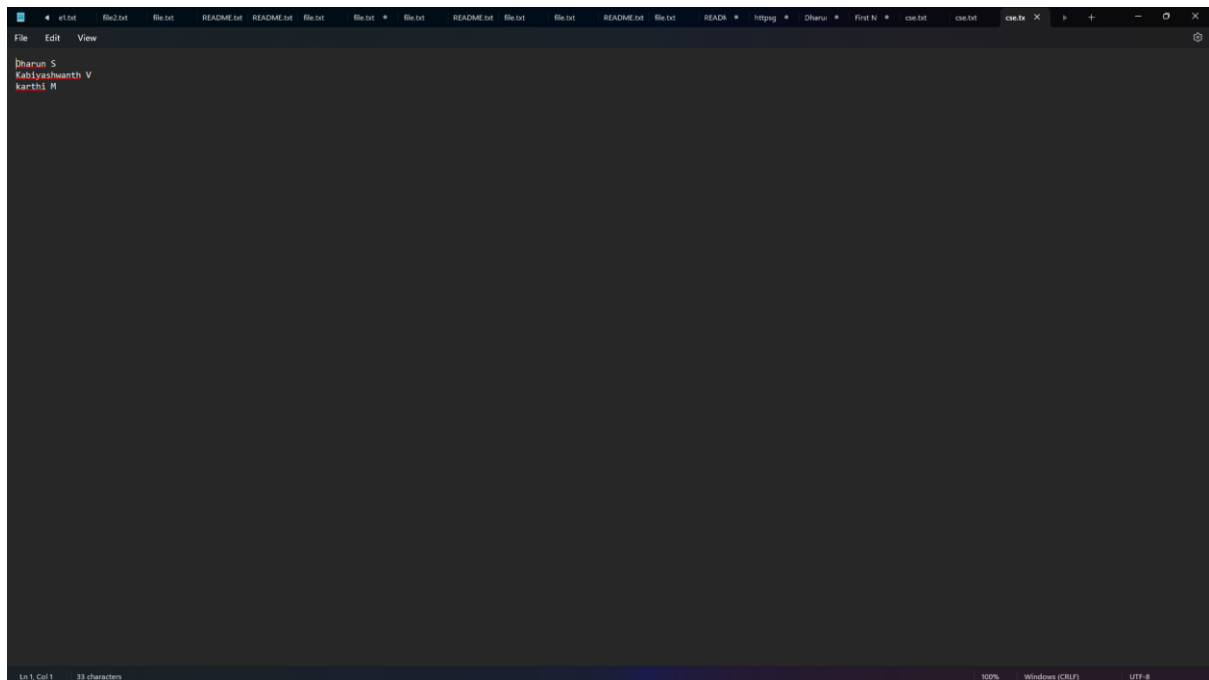
    Dharun Added

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?

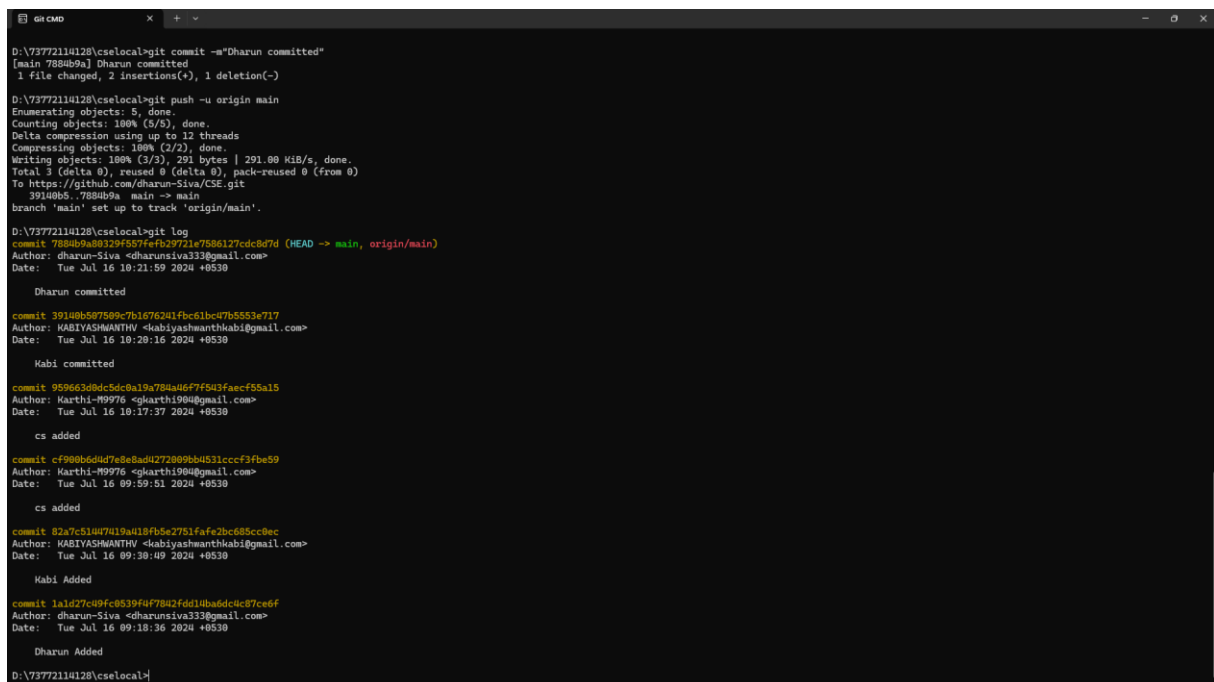


8. The runner-up should now pull. As a group, look at the output of the command. Additionally, look at the git log, and notice that there is a merge commit. You may also wish to view the DAG in gitk.



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' and '33 characters'.

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



A screenshot of a terminal window showing a series of git commands and their output. The commands and output are as follows:
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 7884b9a8329f557fe429721e7586127cdc8d7d (HEAD -> main, origin/main)
Author: dharun-siva <dharunsiva333@gmail.com>
Date: Tue Jul 16 10:21:59 2024 +0530

Dharun committed

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

Kabi committed

commit 95963d8dc5dc8a19a784a6677f93faecf55a15
Author: Karthi-M9976 <gkarthi9904@gmail.com>
Date: Tue Jul 16 10:17:37 2024 +0530

cs added

commit cf986d6dd7a8a8d41722089a4d31cccf3be59
Author: Karthi-M9976 <gkarthi9904@gmail.com>
Date: Tue Jul 16 09:59:51 2024 +0530

cs added

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

Kabi Added

commit 1a1d27c09fc053b49f7812fdd14b6ddc87ce6f
Author: dharun-siva <dharunsiva333@gmail.com>
Date: Tue Jul 16 09:18:36 2024 +0530

Dharun Added

D:\V3772214128\cse\local>

