## GIT LAB ASSIGNMENT → 03

NAME: KEERTHIKA B

BRANCH: B.E

DEPT : COMPUTER SCIENCE AND

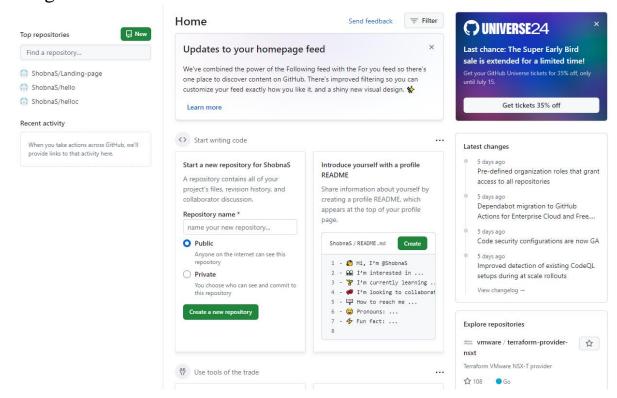
ENGINEERING

YEAR : IV - YEAR

COLLEGE: KSRIET

DATE : 15.07.2024

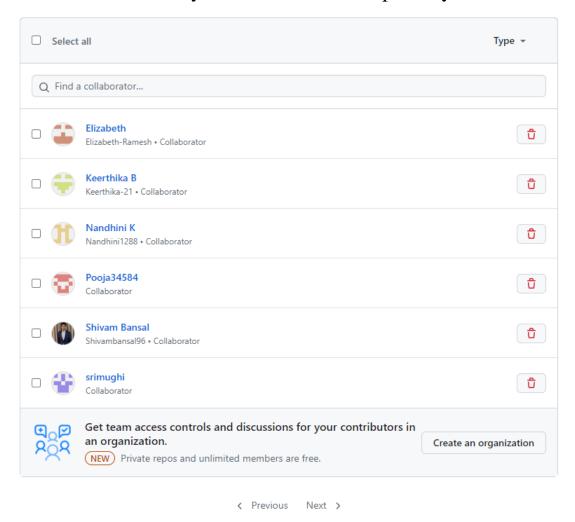
1. First, one person in the group should create a public repository using their GitHub account.



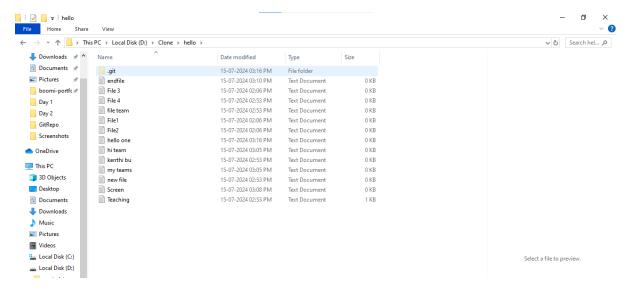
2. This same person should then follow the instructions from GitHub to add a remote, and then push their repository. Do not forget the –u flag, as suggested by GitHub!

```
:\Users\home>D:
:\>cd MyGitLocalRepo
:\MyGitLocalRepo>cd Git
:\MyGitLocalRepo>cd Git
:\MyGitLocalRepo\git \sqrt \ls-tree master
00644 blob e69de29bb2d1d6434b8b29ae775ad8c2e48c5391 File1.txt
00644 blob e69de29bb2d1d6434b8b29ae775ad8c2e48c5391 File2.txt
:\MyGitLocalRepo\git>git status
n branch master
othing to commit, working tree clean
:\MyGitLocalRepo\git>git remote add origin https://github.com/ShobnaS/hello.git
:\MyGitLocalRepo\git>git push -u origin master
numerating objects: 3, done.
ounting objects: 100% (3/3), done.
elta compression using up to 4 threads
ompressing objects: 100% (2/2), done.
riting objects: 100% (3/3), 226 bytes | 226.00 KiB/s, done.
otal 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
o https://github.com/ShobnaS/hello.git
'[new branch] master -> master
ranch 'master' set up to track 'origin/master'.
```

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 (use git log to check for it)

```
C:\Users\home>D:

O:\>cd Clone

O:\Clone>cd hello

O:\Clone\hello>git add .

O:\Clone\hello>git commit -m"Long"

[master 7516c7f] Long

O:\Clone\hello>git push origin master

Enumerating objects: 100% (9/9), done.

Oelta compression using up to 4 threads

Compressing objects: 100% (6/6), done.

Oelta compression using up to 4 threads

Total 6 (delta 3), reused 0 (delta 0), pack-reused 0 (from 0)

remote: Resolving deltas: 100% (3/3), completed with 1 local object.

To https://github.com/ShobnaS/hello

S7c59d9..7516c7f master -> master

D:\Clone\hello>git pull origin master

remote: Counting objects: 100% (3/3), done.

remote: Counting objects: 100% (3/3), done.

remote: Counting objects: 100% (3/3), done.

remote: Total 6 (delta 3), reused 6 (delta 3), pack-reused 0

Jnpacking objects: 100% (6/6), 608 bytes | 40.00 KiB/s, done.

From https://github.com/ShobnaS/hello

* branch master -> FETCH_HEAD

7516c7f..51ff4a1 master -> origin/master

Jpdating 7516c7f..51ff4a1

Fast-forward

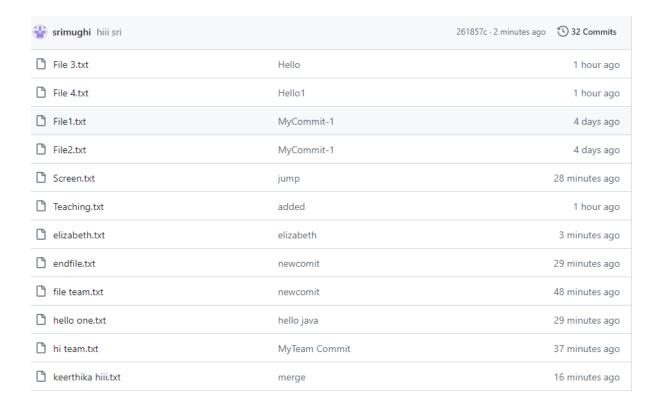
hello one.txt | 0

1 file changed, 0 insertions(+), 0 deletions(-)

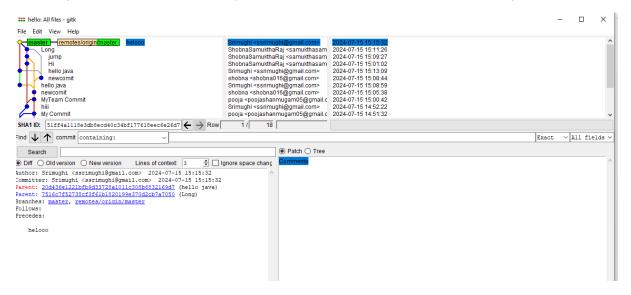
create mode 100644 hello one.txt
```

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.

```
D:\MyGitLocalRepo\git>git add .
D:\MyGitLocalRepo\git>git commit -m"Hello"
[master 1e13039] Hello
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 File 3.txt
D:\MyGitLocalRepo\git>git status
On branch master

Your branch is ahead of 'origin/master' by 1 commit.

(use "git push" to publish your local commits)
nothing to commit, working tree clean
D:\MyGitLocalRepo\git>git remote add origin https://github.com/ShobnaS/hello.git
error: remote origin already exists.
D:\MyGitLocalRepo\git>git push -u origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 248 bytes | 248.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Shobnas/hello.git
1648de0..le13039 master -> master
branch 'master' set up to track 'origin/master'.
D:\MyGitLocalRepo\git>git add .
D:\MyGitLocalRepo\git>git commit -m"Hello1"
 On branch master
Your branch is up to date with 'origin/master'.
nothing to commit, working tree clean
D:\MyGitLocalRepo\git>git remote add origin https://github.com/ShobnaS/hello.git
error: remote origin already exists.
D:\MyGitLocalRepo\git>git push -u origin master
branch 'master' set up to track 'origin/master'.
Everything up-to-date
D:\MyGitLocalRepo\git>git remote add origin https://github.com/ShobnaS/hello.git
error: remote origin already exists.
D:\MyGitLocalRepo\git>git push -u origin master
branch 'master' set up to track 'origin/master'.
Everything up-to-date
D:\MyGitLocalRepo\git>git add .
D:\MyGitLocalRepo\git>git commit -m"Hello1"
[master 1020a19] Hello1
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 File 4.txt
D:\MyGitLocalRepo\git>git remote add origin https://github.com/ShobnaS/hello.git
error: remote origin already exists.
D:\MyGitLocalRepo\git>git push -u origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 4 threads
```