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1. Fork below public repository to your account. Then clone the repository locally. Create

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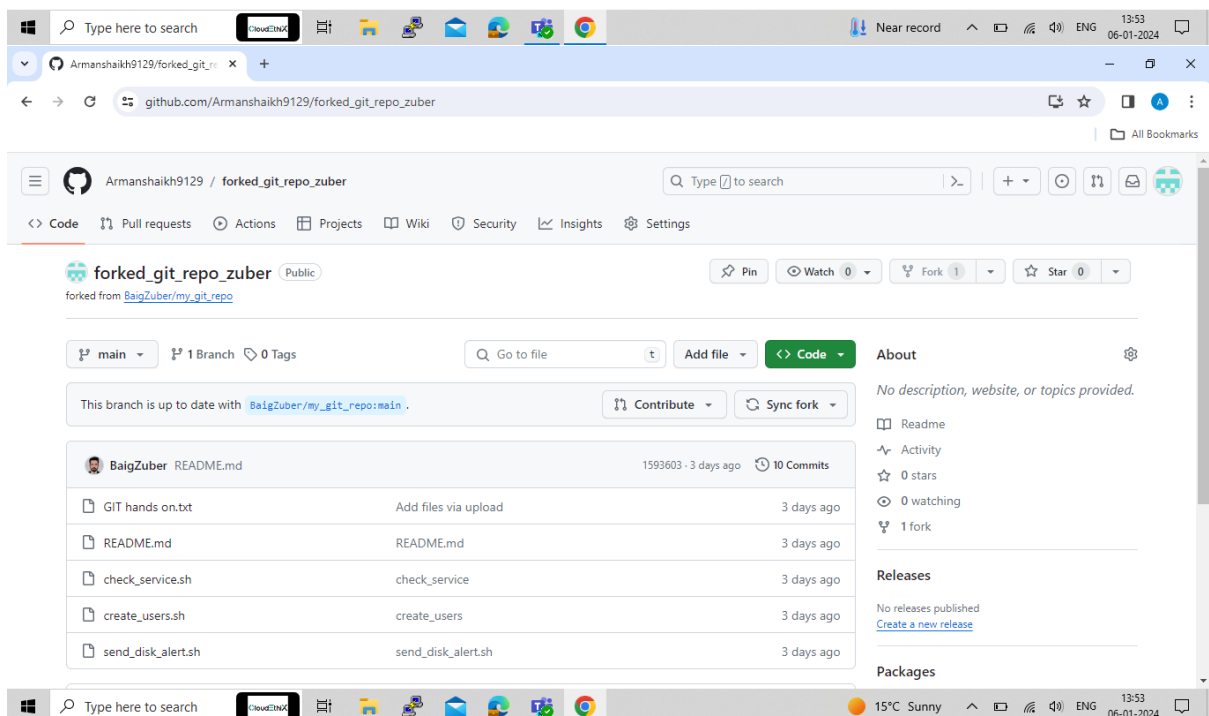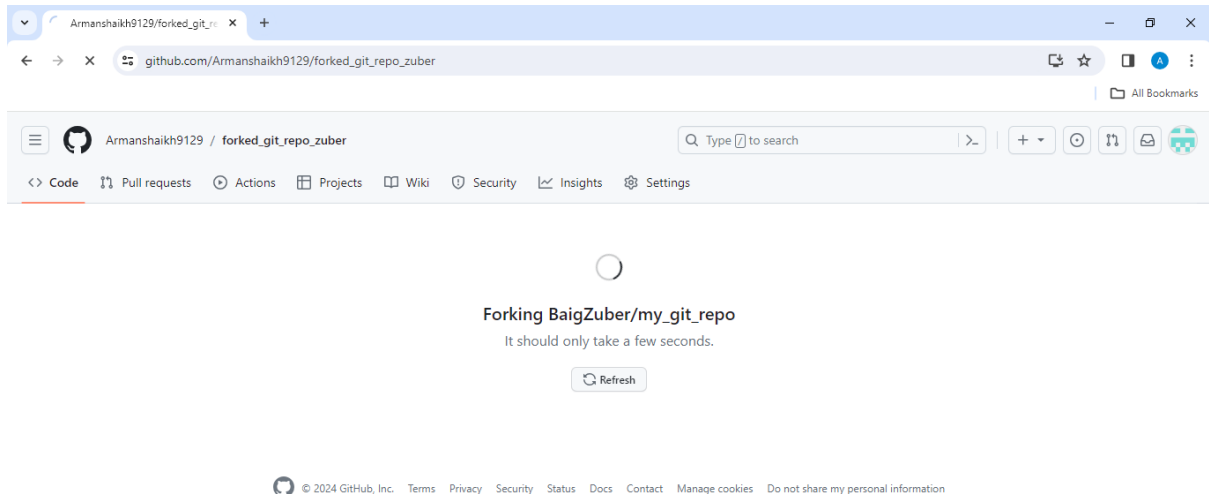
2 branches cloud_dev01. Then add cloud_dev02 to that repository locally and hello.txt , moto.txt and world.txt to one branch and add another 3 files to another branch. Then push cloud_dev02 branch to the Forked repository on the remote.

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root@DESKTOP-0ANCI6F:~/project-cloud3 (cloud_dev01)# git commit -m "files are added"

[cloud_dev01 (root-commit) 0d6dd99] files are added

 3 files changed, 0 insertions(+), 0 deletions(-)

 create mode 100644 hello.txt

 create mode 100644 moto.txt

 create mode 100644 world.txt

root@DESKTOP-0ANCI6F:~/project-cloud3 (cloud_dev01)# git branch -l

* cloud_dev01

root@DESKTOP-0ANCI6F:~/project-cloud3 (cloud_dev01)# git branch master

root@DESKTOP-0ANCI6F:~/project-cloud3 (cloud_dev01)# git branch -l

* cloud_dev01

  master

root@DESKTOP-0ANCI6F:~/project-cloud3 (cloud_dev01)# git checkout master

Switched to branch 'master'

root@DESKTOP-0ANCI6F:~/project-cloud3 (master)# git branch cloud_dev02

root@DESKTOP-0ANCI6F:~/project-cloud3 (master)# git branch -l

  cloud_dev01

  cloud_dev02

* master

root@DESKTOP-0ANCI6F:~/project-cloud3 (cloud_dev01)# git remote -v

origin git@github.com:Armanshaikh9129/forked_git_repo_zuber.git (fetch)

origin git@github.com:Armanshaikh9129/forked_git_repo_zuber.git (push)

```
root@DESKTOP-0ANCI6F:~/project-cloud3 (cloud_dev02)# git push -u origin cloud_dev02

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% (3/3), 225 bytes | 56.00 KiB/s, done.

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

remote:

remote: Create a pull request for 'cloud_dev02' on GitHub by visiting:

remote:     https://github.com/Armanshaikh9129/forked_git_repo_zuber/pull/new/cloud_dev02

remote:

To github.com:Armanshaikh9129/forked_git_repo_zuber.git

 * [new branch]     cloud_dev02 -> cloud_dev02
```

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 2. Create a remote repository merge_confilct_demo. Add some files in the remote master branch. Clone the repository locally. Create 2 branches locally named demo/merge and demo/conflicts. Add a merge.txt file in both branches with some data like "Hello CloudEthiX…." And "Fello CloudEthiX…." respectively and commit. Then merge demo/conflicts branch to demo/merge branch and solve the merge conflicts

===

 root@DESKTOP-0ANCI6F:~/project4 (master)# git pull origin master

remote: Enumerating objects: 7, done.

remote: Counting objects: 100% (7/7), done.

remote: Compressing objects: 100% (4/4), done.

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

Unpacking objects: 100% (6/6), 1.34 KiB | 36.00 KiB/s, done.

From github.com:Armanshaikh9129/Data_hub

 * branch   master   -> FETCH_HEAD

 * [new branch]   master   -> origin/master

Updating b70e8cf..58ffb81

Fast-forward

 Customer_review | 1 +

 data_analytics | 1 +

 2 files changed, 2 insertions(+)

 create mode 100644 Customer_review

 create mode 100644 data_analytics

root@DESKTOP-0ANCI6F:~/project4 (master)# ls

Customer_review README.md data_analytics

root@DESKTOP-0ANCI6F:~/project4 (demo/conflicts|MERGING)# vi merge.txt

root@DESKTOP-0ANCI6F:~/project4 (demo/conflicts|MERGING)# cat merge.txt

<<<<<<< HEAD

hello CloudEthiX….

=======

fello CloudEthiX….

>>>>>>> demo/merge

root@DESKTOP-0ANCI6F:~/project4 (demo/conflicts|MERGING)# git status

On branch demo/conflicts

You have unmerged paths.

  (fix conflicts and run "git commit")

  (use "git merge --abort" to abort the merge)

Unmerged paths:

  (use "git add <file>..." to mark resolution)

       both added: merge.txt

no changes added to commit (use "git add" and/or "git commit -a")

root@DESKTOP-0ANCI6F:~/project4 (demo/conflicts|MERGING)# vi merge.txt

root@DESKTOP-0ANCI6F:~/project4 (demo/conflicts|MERGING)# git add merge.txt

root@DESKTOP-0ANCI6F:~/project4 (demo/conflicts|MERGING)# git commit -m "merge conflicts solved"

[demo/conflicts 9eadfaa] merge conflicts solved

root@DESKTOP-0ANCI6F:~/project4 (demo/conflicts)# git status

On branch demo/conflicts

nothing to commit, working tree clean

===

3. Create PR to merge the cloud_dev02 branch to Forked repository. Approve the PR and merge cloud_dev02 branch to master branch remotely.

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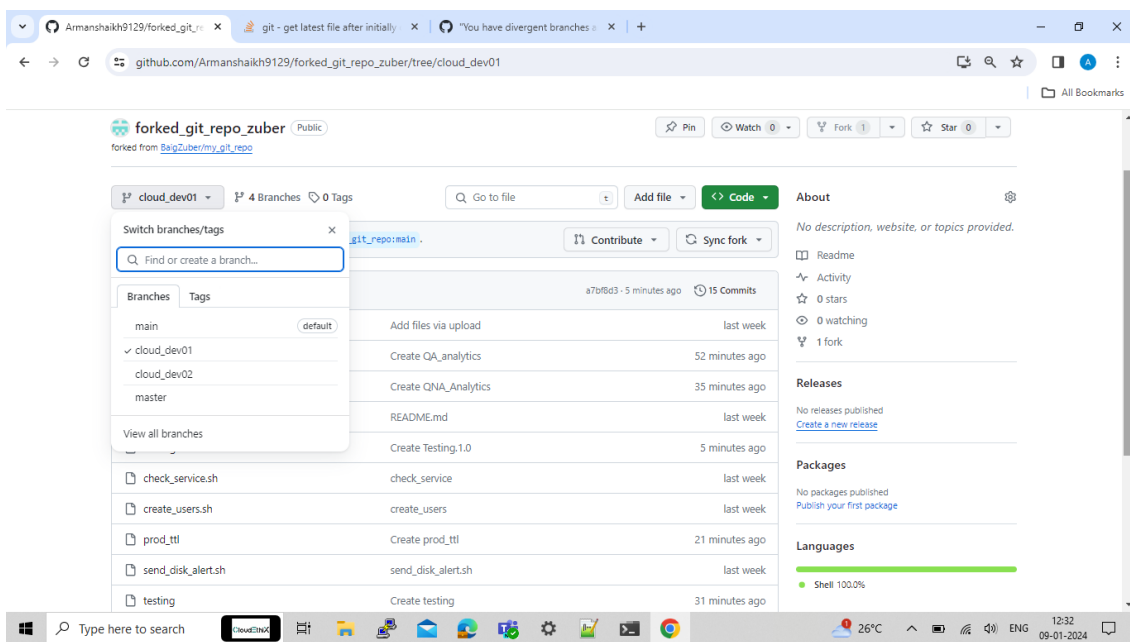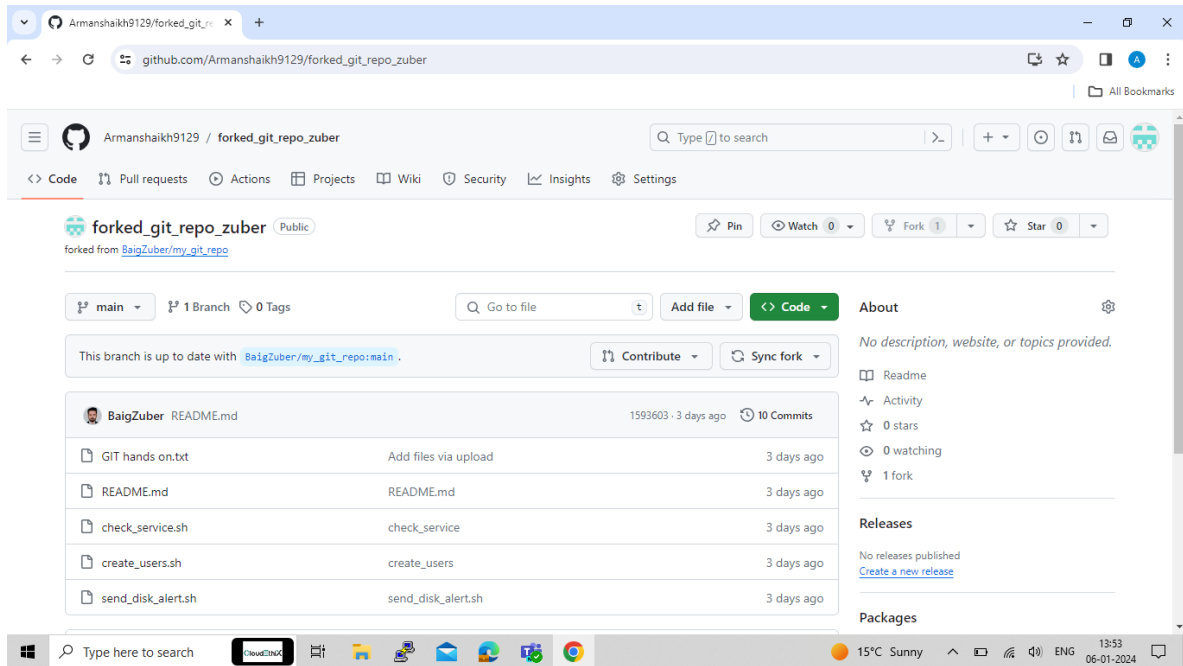
4. Fetch latest changes from master branch of remote forked repository to local master branch. Then merge forked remote master branch with local master branch. Check If all the latest files are there. Then checkout to local cloud_dev03 branch locally. Then Pull latest changes from the remote master branch.

==

root@DESKTOP-0ANCI6F:~/project-cloud3 (cloud_dev02)# git branch -l

  cloud_dev01

* cloud_dev02

  master

root@DESKTOP-0ANCI6F:~/project-cloud3 (cloud_dev02)# git cheeckout master

git: 'cheeckout' is not a git command. See 'git --help'.

The most similar command is

    checkout

root@DESKTOP-0ANCI6F:~/project-cloud3 (cloud_dev02)# git checkout master

Switched to branch 'master'

root@DESKTOP-0ANCI6F:~/project-cloud3 (master)# git pull origin master

remote: Enumerating objects: 30, done.

remote: Counting objects: 100% (30/30), done.

remote: Compressing objects: 100% (24/24), done.

remote: Total 30 (delta 7), reused 0 (delta 0), pack-reused 0

Unpacking objects: 100% (30/30), 9.67 KiB | 291.00 KiB/s, done.

From github.com:Armanshaikh9129/forked_git_repo_zuber

 * branch   master   -> FETCH_HEAD

 * [new branch]   master   -> origin/master

root@DESKTOP-0ANCI6F:~/project5/forked_git_repo_zuber (main)# ls

'GIT hands on.txt'   QA_analytics   QNA_Analytics   README.md   check_service.sh   create_users.sh send_disk_alert.sh   testing

root@DESKTOP-0ANCI6F:~/project5/forked_git_repo_zuber (main)# git pull --rebase origin master

From github.com:Armanshaikh9129/forked_git_repo_zuber

 * branch   master   -> FETCH_HEAD

Successfully rebased and updated refs/heads/main.

root@DESKTOP-0ANCI6F:~/project5/forked_git_repo_zuber (main)# ls --- added file from remote (prod_ttl)

'GIT hands on.txt'   QNA_Analytics   check_service.sh   prod_ttl   testing

 QA_analytics   README.md   create_users.sh   send_disk_alert.sh

root@DESKTOP-0ANCI6F:~/project5/forked_git_repo_zuber (main)#

root@DESKTOP-0ANCI6F:~/project5/forked_git_repo_zuber (cloud_dev03)# git pull origin master

remote: Enumerating objects: 3, done.

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

remote: Compressing objects: 100% (2/2), done.

remote: Total 2 (delta 1), reused 0 (delta 0), pack-reused 0

Unpacking objects: 100% (2/2), 623 bytes | 311.00 KiB/s, done.

From github.com:Armanshaikh9129/forked_git_repo_zuber

 * branch   master   -> FETCH_HEAD

  66e020b..a7bf8d3 master   -> origin/master

Updating 66e020b..a7bf8d3

Fast-forward

 Testing.1.0 | 1 +

 1 file changed, 1 insertion(+)

 create mode 100644 Testing.1.0

root@DESKTOP-0ANCI6F:~/project5/forked_git_repo_zuber (cloud_dev03)# ls

'GIT hands on.txt'   QNA_Analytics   Testing.1.0   create_users.sh   send_disk_alert.sh

 QA_analytics   README.md   check_service.sh   prod_ttl   testing

root@DESKTOP-0ANCI6F:~/project5/forked_git_repo_zuber (cloud_dev03)#

===

5. Checkout to the cloud_dev01 branch locally and rebase the remote master branch of the forked repository.

===

root@DESKTOP-0ANCI6F:~/project5/forked_git_repo_zuber (cloud_dev03)# git branch cloud_dev01

root@DESKTOP-0ANCI6F:~/project5/forked_git_repo_zuber (cloud_dev03)# git checkout cloud_dev01

Switched to branch 'cloud_dev01'

root@DESKTOP-0ANCI6F:~/project5/forked_git_repo_zuber (cloud_dev01)# ls

'GIT hands on.txt'   QNA_Analytics   Testing.1.0   create_users.sh   send_disk_alert.sh

 QA_analytics   README.md   check_service.sh   prod_ttl   testing

root@DESKTOP-0ANCI6F:~/project5/forked_git_repo_zuber (cloud_dev01)# git rebase origin master

Successfully rebased and updated refs/heads/master.

root@DESKTOP-0ANCI6F:~/project5/forked_git_repo_zuber (master)# git push origin cloud_dev01

Total 0 (delta 0), reused 0 (delta 0), pack-reused 0

remote:

remote: Create a pull request for 'cloud_dev01' on GitHub by visiting:

remote: https://github.com/Armanshaikh9129/forked_git_repo_zuber/pull/new/cloud_dev01

remote:

To github.com:Armanshaikh9129/forked_git_repo_zuber.git

 * [new branch]   cloud_dev01 -> cloud_dev01

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. Create one repository locally. Commit any 3 files to the local repository. And the revert back the commits.

==

Initialized empty Git repository in /root/commit/.git/

root@DESKTOP-0ANCI6F:~/commit (master)# touch reportfy2023.xml

root@DESKTOP-0ANCI6F:~/commit (master)# touch QNA.txt

root@DESKTOP-0ANCI6F:~/commit (master)# touch prodxfs.txt

root@DESKTOP-0ANCI6F:~/commit (master)# git add .

root@DESKTOP-0ANCI6F:~/commit (master)# git commit -m "files are added"

[master (root-commit) 4bbaf8c] files are added

 3 files changed, 0 insertions(+), 0 deletions(-)

 create mode 100644 QNA.txt

 create mode 100644 prodxfs.txt

 create mode 100644 reportfy2023.xml

root@DESKTOP-0ANCI6F:~/commit (master)# git status

On branch master

nothing to commit, working tree clean

root@DESKTOP-0ANCI6F:~/commit (master)# git log

commit 4bbaf8c1e2f4e71897a8d7d18fa79a47772613b7 (HEAD -> master)

Author: arman12 <arman912@gmail.com>

Date: Tue Jan 9 12:35:59 2024 +0530

    files are added

root@DESKTOP-0ANCI6F:~/commit (master)# git revert 4bbaf8c1

[master f289e03] Revert "files are added"

 3 files changed, 0 insertions(+), 0 deletions(-)

 delete mode 100644 QNA.txt

 delete mode 100644 prodxfs.txt

delete mode 100644 reportfy2023.xml

root@DESKTOP-0ANCI6F:~/commit (master)# ls

root@DESKTOP-0ANCI6F:~/commit (master)# git log

commit f289e03fb5f7c2c8bc8efe99b8241706878e6ccd (HEAD -> master)

Author: arman12 <arman912@gmail.com>

Date: Tue Jan 9 12:37:38 2024 +0530

   Revert "files are added"

   This reverts commit 4bbaf8c1e2f4e71897a8d7d18fa79a47772613b7.

commit 4bbaf8c1e2f4e71897a8d7d18fa79a47772613b7

Author: arman12 <arman912@gmail.com>

Date: Tue Jan 9 12:35:59 2024 +0530

   files are added

==

7. Create one local repository. commit some files to the local master branch. Checkout to master_02 branch. Create 2 more files. Add those to the staging area. Create stash area and those files. Then list and delete the stash.

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root@DESKTOP-0ANCI6F:~/commit (master_02)# touch stash_file

root@DESKTOP-0ANCI6F:~/commit (master_02)# echo "Stash Test" >stash_file

root@DESKTOP-0ANCI6F:~/commit (master_02)# git add stash_file

root@DESKTOP-0ANCI6F:~/commit (master_02)# git checkout master

A   stash_file

Switched to branch 'master'

root@DESKTOP-0ANCI6F:~/commit (master)# git checkout master_02

A   stash_file

Switched to branch 'master_02'

root@DESKTOP-0ANCI6F:~/commit (master_02)# git status

On branch master_02

Changes to be committed:

  (use "git restore --staged <file>..." to unstage)

    new file: stash_file

root@DESKTOP-0ANCI6F:~/commit (master_02)# git stash list

stash@{0}: On master_02: My changes

root@DESKTOP-0ANCI6F:~/commit (master_02)# git stash drop stash@{0}

Dropped stash@{0} (57fa2e984eb08c6dd05e6661c7d965f74236c9a7)

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8. Create a local repository, initialise it and create 3 branches: develop, hotfix and release. Checkout to hotfix branch and commit cloudethix.txt and once committed amend the commit message

==

root@DESKTOP-0ANCI6F:~/assign (hotfix)# git add cloudethix.txt

root@DESKTOP-0ANCI6F:~/assign (hotfix)# git commit -m "the file has been added"

[hotfix 6426f1b] the file has been added

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

 create mode 100644 assign/cloudethix.txt

root@DESKTOP-0ANCI6F:~/assign (hotfix)# git log --oneline

6426f1b (HEAD -> hotfix) the file has been added

546447d (release, master, develop) files commite

e15dbd8 adding file for practice

root@DESKTOP-0ANCI6F:~/assign (hotfix)# git commit --amend -m "Adding cloudethix.txt file to enable login settings."

[hotfix edc311b] Adding cloudethix.txt file to enable login settings.

 Date: Tue Jan 9 13:02:05 2024 +0530

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

 create mode 100644 assign/cloudethix.txt

root@DESKTOP-0ANCI6F:~/assign (hotfix)# git log

commit edc311bc352bb486c29983947a2ece238ba3631b (HEAD -> hotfix)

Author: arman <armansk9129@gmail.com>

Date: Tue Jan 9 13:02:05 2024 +0530

  Adding cloudethix.txt file to enable login settings.

commit e15dbd8e0270f80c9ee8de04f62f32c74c36060b

Author: arman <armansk9129@gmail.com>

Date: Wed Jan 3 13:22:06 2024 +0530

  adding file for practice