GitHub assignment

Q. Create a file. Make changes to the file using different branches, merge all the branches to the main branch, and resolve the conflicts.

1. To make changes to the file harini.txt, create a new branch sample and checkout the branch.

2. Make some changes to the file harini.txt

```
 harini@LAPTOP-65RQKFGU:/mnt/c/Users/Harini Pravin/Desktop/Grp_8$ git branch
    develop
    example
    master
(base) harini@LAPTOP-65RQKFGU:/mnt/c/Users/Harini Pravin/Desktop/Grp_8$ git checkout -b sample
    harini.txt
Svitched to a new branch 'sample'
(base) harini@LAPTOP-65RQKFGU:/mnt/c/Users/Harini Pravin/Desktop/Grp_8$ Is
    innimi@LAPTOP-65RQKFGU:/mnt/c/Users/Harini Pravin/Desktop/Grp_8$ cat harini.txt
(base) harini@LAPTOP-65RQKFGU:/mnt/c/Users/Harini Pravin/Desktop/Grp_8$ cat harini.txt
this is our first git assignment
this is develop phase
this is second line
Harini added a line as an example
(base) harini@LAPTOP-65RQKFGU:/mnt/c/Users/Harini Pravin/Desktop/Grp_8$ echo "adding a last line for the assignment" >>
harini.txt
(base) harini@LAPTOP-65RQKFGU:/mnt/c/Users/Harini Pravin/Desktop/Grp_8$
```

3. Git add and commit the changes. You can check the status with git status.

```
(base) harini@LAPTOP-65RQKFGU:/mnt/c/Users/Harini Pravin/Desktop/Grp_8$ git branch
develop
example
* master
(base) harini@LAPTOP-65RQKFGU:/mnt/c/Users/Harini Pravin/Desktop/Grp_8$ git checkout -b sample
% master
(base) harini@LAPTOP-65RQKFGU:/mnt/c/Users/Harini Pravin/Desktop/Grp_8$ git checkout -b sample
% harini.txt
Switched to a new branch 'sample'
(base) harini@LAPTOP-65RQKFGU:/mnt/c/Users/Harini Pravin/Desktop/Grp_8$ ls
% harini.txt Olamide_first.txt README.md shishi.txt
(base) harini@LAPTOP-65RQKFGU:/mnt/c/Users/Harini Pravin/Desktop/Grp_8$ cat harini.txt
this is our first git assignment
this is develop phase
this is second line
Harini added a line as an example
(base) harini@LAPTOP-65RQKFGU:/mnt/c/Users/Harini Pravin/Desktop/Grp_8$ echo "adding a last line for the assignment" >>
harini.txt
(base) harini@LAPTOP-65RQKFGU:/mnt/c/Users/Harini Pravin/Desktop/Grp_8$ git add .
(base) harini@LAPTOP-65RQKFGU:/mnt/c/Users/Harini Pravin/Desktop/Grp_8$ git commit -m "last changes"
[sample d175d86] last changes
1 file changed, 2 insertions(+)
(base) harini@LAPTOP-65RQKFGU:/mnt/c/Users/Harini Pravin/Desktop/Grp_8$ git status
On branch sample
nothing to commit, working directory clean
(base) harini@LAPTOP-65RQKFGU:/mnt/c/Users/Harini Pravin/Desktop/Grp_8$

in the changed, 2 insertions(+)
(base) harini@LAPTOP-65RQKFGU:/mnt/c/Users/Harini Pravin/Desktop/Grp_8$

if in changed, 2 insertions(+)
(base) harini@LAPTOP-65RQKFGU:/mnt/c/Users/Harini Pravin/Desktop/Grp_8$

in the changed, 2 insertions(+)
```

4. Push the changes to the remote repo (The remote repo has already been added using git remote add origin 'url')

```
(base) harini@LAPTOP-65RQKFGU:/mnt/c/Users/Harini Pravin/Desktop/Grp_8$ git push origin sample Counting objects: 9, done.

Delta compression using up to 4 threads.

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

Writing objects: 100% (9/9), 965 bytes | 0 bytes/s, done.

Total 9 (delta 4), reused 0 (delta 0)

remote: Resolving deltas: 100% (4/4), completed with 1 local object.

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

remote: https://github.com/xrander/Grp_8/pull/new/sample

remote:

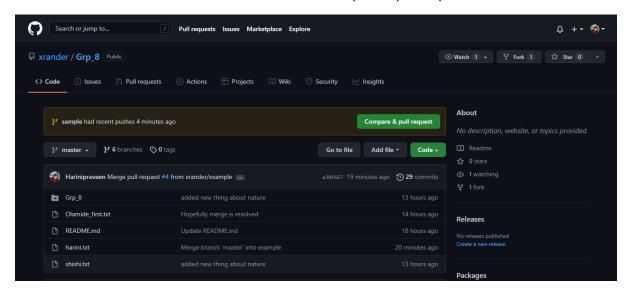
To git@github.com:xrander/Grp_8.git

* [new branch] sample -> sample

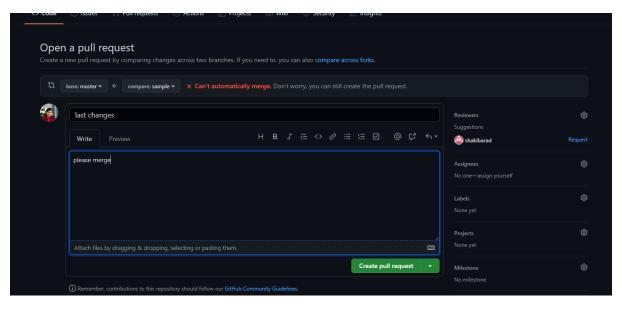
(base) harini@LAPTOP-65RQKFGU:/mnt/c/Users/Harini Pravin/Desktop/Grp_8$
```

5. Create a pull request and try to merge the branch to the master branch. We encounter a merge conflict since all the team members are working on the same file using different branches.

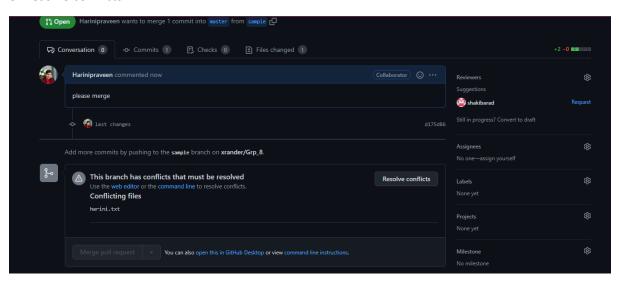
6. Let's use the GitHub to resolve the conflicts. Click compare & pull request.



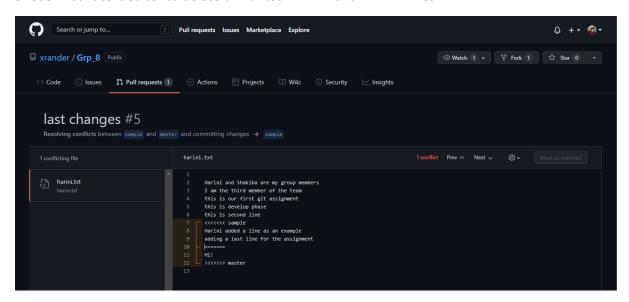
7. Create pull request.



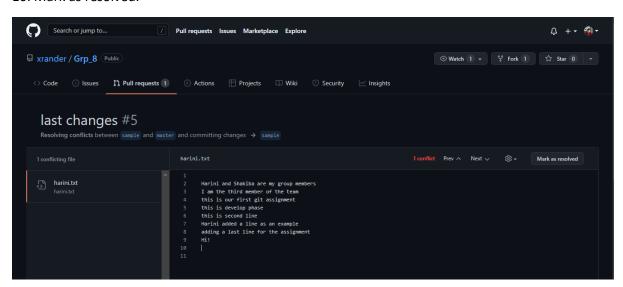
8. Resolve conflicts.



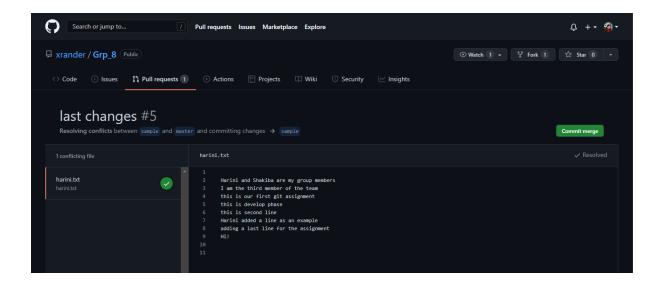
9. Use in built text editor to delete unwanted <<<< and ===== lines.



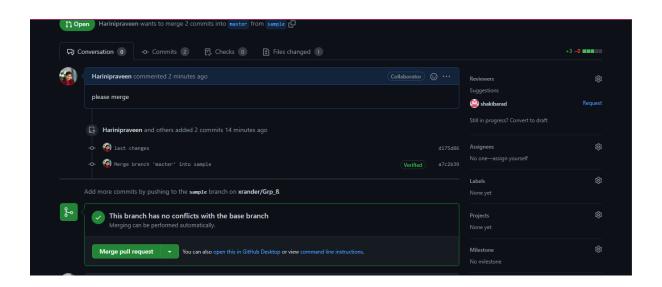
10. Mark as resolved.



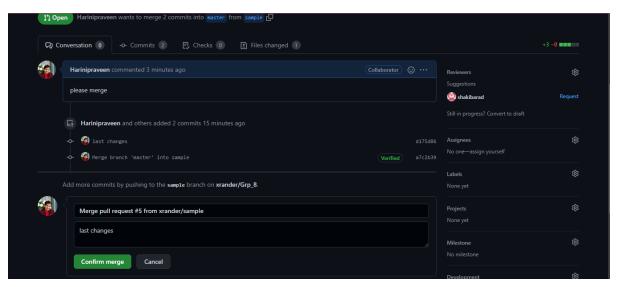
11. Commit merge



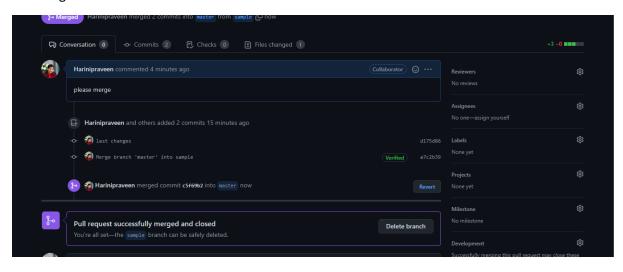
12. Merge pull request.



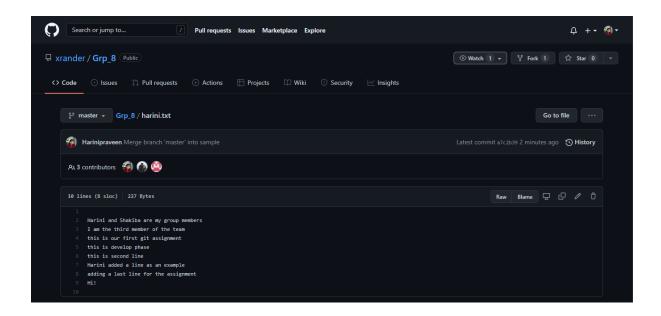
13. Confirm merge.

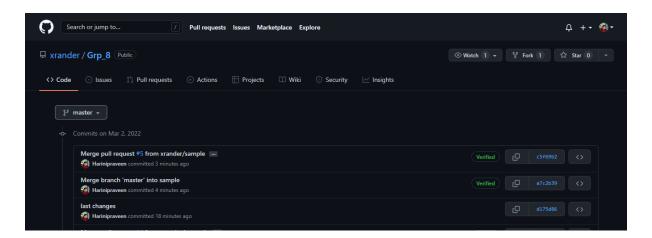


14. Merge successful



15. All the changes are now in the master branch.





16. We can fork the repository of the main creator and have the repo in our GitHub page. Click fetch and merge to keep the repo updated as per the main repo.

