

Question 3

Step 1: Create a feature branch.

```
PS C:\Users\KalaArasanJ\Desktop\GIT_assign\git_assignment> git branch -a
* main
remotes/origin/HEAD -> origin/main
remotes/origin/main
PS C:\Users\KalaArasanJ\Desktop\GIT_assign\git_assignment> git branch
* main
PS C:\Users\KalaArasanJ\Desktop\GIT_assign\git_assignment> git branch feature
```

Step 2: Switch to the new branch.

```
PS C:\Users\KalaArasanJ\Desktop\GIT_assign\git_assignment> git branch
feature
* main
PS C:\Users\KalaArasanJ\Desktop\GIT_assign\git_assignment> git checkout feature
Switched to branch 'feature'
PS C:\Users\KalaArasanJ\Desktop\GIT_assign\git_assignment>
GIT_assign > git_assignment > q1.txt
```

Step 3: open the file and make some changes to it.

```
PS C:\Users\KalaArasanJ\Desktop\GIT_assign\git_assignment> git status
On branch feature1
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   f1.txt
    modified:   q2.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    ff1.txt

no changes added to commit (use "git add" and/or "git commit -a")
PS C:\Users\KalaArasanJ\Desktop\GIT_assign\git_assignment>
```

Step 4: Add and commit the changes to the new branch.

```
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment> git add .
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment> git commit -m "q2.txt modified"
[feature 1227c8b] q2.txt modified
1 file changed, 1 insertion(+), 1 deletion(-)
```

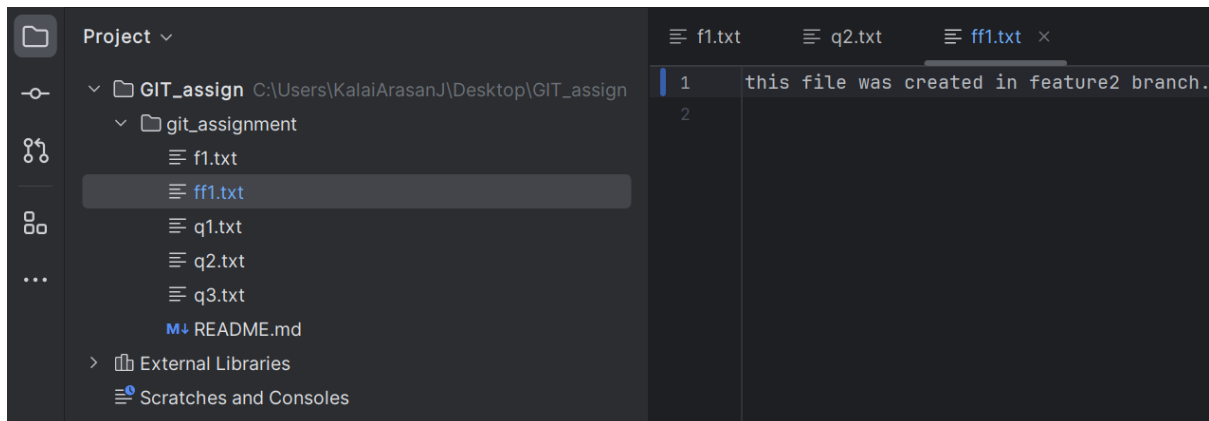
Step 5: Push the changes to the new feature branch.

```
... PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment> git push origin feature
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 276 bytes | 276.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/kalai1217/git_assignment.git
5ff37c7..1227c8b feature -> feature
```

Step 6: Create a pull request.

The screenshot shows a GitHub pull request page for the repository 'kalai1217/git_assignment'. The pull request is titled 'q2.txt modified #3' and is created by user 'kalai1217'. It shows a merge from the 'feature' branch to the 'main' branch. The pull request is currently in progress, with no reviews or assignees. A conflict is detected in the file 'q2.txt', with the message 'This branch has conflicts that must be resolved'. The conflict is resolved by the user 'kalai1217'.

Step 6: As another user in the master branch make some changes to the same file.



Step 7: Add and commit the changes to the master branch.

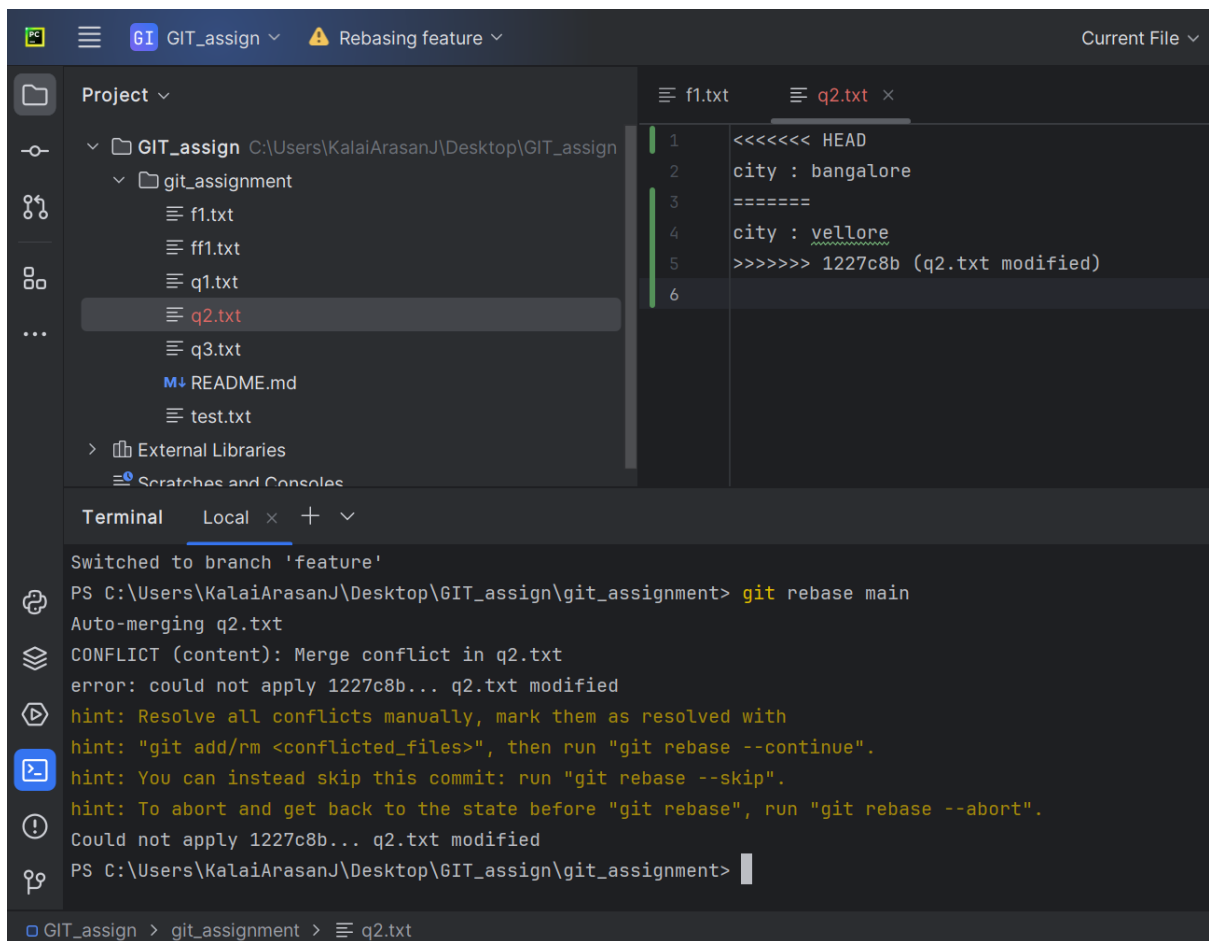
```
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment> git add .
...
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment> git commit -m "q2.txt modified"
[feature 1227c8b] q2.txt modified
1 file changed, 1 insertion(+), 1 deletion(-)
```

Step 8: Push the changes to the master branch.

```
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment> git push origin main
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (6/6), 550 bytes | 550.00 KiB/s, done.
Total 6 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
To https://github.com/kalai1217/git_assignment.git
   137e38f..f4129f8  main -> main
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment> git checkout feature
Switched to branch 'feature'
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment> git rebase main
Auto-merging q2.txt
CONFLICT (content): Merge conflict in q2.txt
error: could not apply 1227c8b... q2.txt modified
hint: Resolve all conflicts manually, mark them as resolved with
hint: "git add/rm <conflicted_files>", then run "git rebase --continue".
hint: You can instead skip this commit: run "git rebase --skip".
hint: To abort and get back to the state before "git rebase", run "git rebase --abort".
Could not apply 1227c8b... q2.txt modified
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment> git status
interactive rebase in progress; onto f4129f8
Last command done (1 command done):
```

Note : There will be a conflict in the pull request, how do we resolve it??

Hint: git rebase



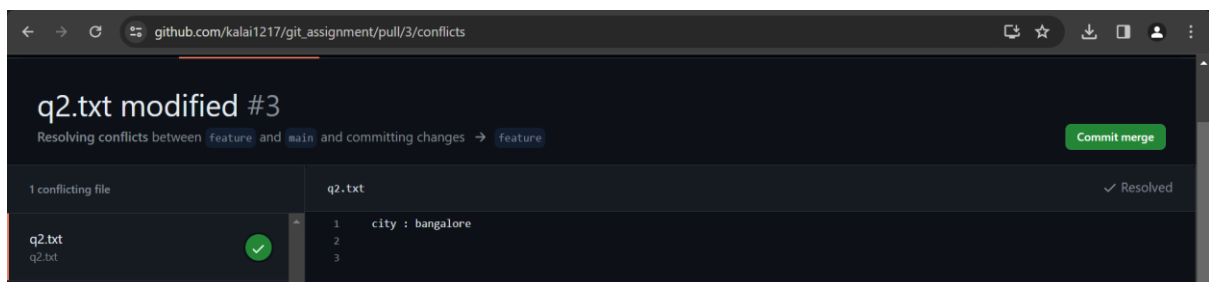
The screenshot shows the Visual Studio Code interface with a project named 'GIT_assign' at the path 'C:\Users\KalaiArasanJ\Desktop\GIT_assign'. The file explorer on the left shows a subdirectory 'git_assignment' containing files 'f1.txt', 'ff1.txt', 'q1.txt', 'q2.txt' (selected), 'q3.txt', 'README.md', and 'test.txt'. The editor window shows 'q2.txt' with the following content:

```
1 <<<<<< HEAD
2 city : bangalore
3 =====
4 city : vellore
5 >>>>>> 1227c8b (q2.txt modified)
6
```

The terminal at the bottom shows the following commands and output:

```
Switched to branch 'feature'
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment> git rebase main
Auto-merging q2.txt
CONFLICT (content): Merge conflict in q2.txt
error: could not apply 1227c8b... q2.txt modified
hint: Resolve all conflicts manually, mark them as resolved with
hint: "git add/rm <conflicted_files>", then run "git rebase --continue".
hint: You can instead skip this commit: run "git rebase --skip".
hint: To abort and get back to the state before "git rebase", run "git rebase --abort".
Could not apply 1227c8b... q2.txt modified
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment>
```

The status bar at the bottom indicates 'GIT_assign > git_assignment > q2.txt'.



```
Terminal Local x + v
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment> git status
interactive rebase in progress; onto f4129f8
Last command done (1 command done):
pick 1227c8b q2.txt modified
No commands remaining.
... You are currently rebasing branch 'feature' on 'f4129f8'.
     (fix conflicts and then run "git rebase --continue")
     (use "git rebase --skip" to skip this patch)
     (use "git rebase --abort" to check out the original branch)

Unmerged paths:
  (use "git restore --staged <file>..." to unstage)
  (use "git add <file>..." to mark resolution)
        both modified:   q2.txt

no changes added to commit (use "git add" and/or "git commit -a")
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment> git add .
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment> git commit -m "conflict resolved"
[detached HEAD 5c28467] conflict resolved
 1 file changed, 2 insertions(+), 1 deletion(-)
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment> git push origin feature
Everything up-to-date
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment>
```

□ GIT_assign > git_assignment > q2.txt