

## Question 2

Step 1: Clone the repository you have created in GitHub.

```
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign> git clone https://github.com/kalai1217/git_assignment.git
Cloning into 'git_assignment'...
remote: Enumerating objects: 15, done.
remote: Counting objects: 100% (15/15), done.
remote: Compressing objects: 100% (11/11), done.
remote: Total 15 (delta 2), reused 5 (delta 0), pack-reused 0
Receiving objects: 100% (15/15), done.
Resolving deltas: 100% (2/2), done.
```

Step 2: Create a new branch using the command.

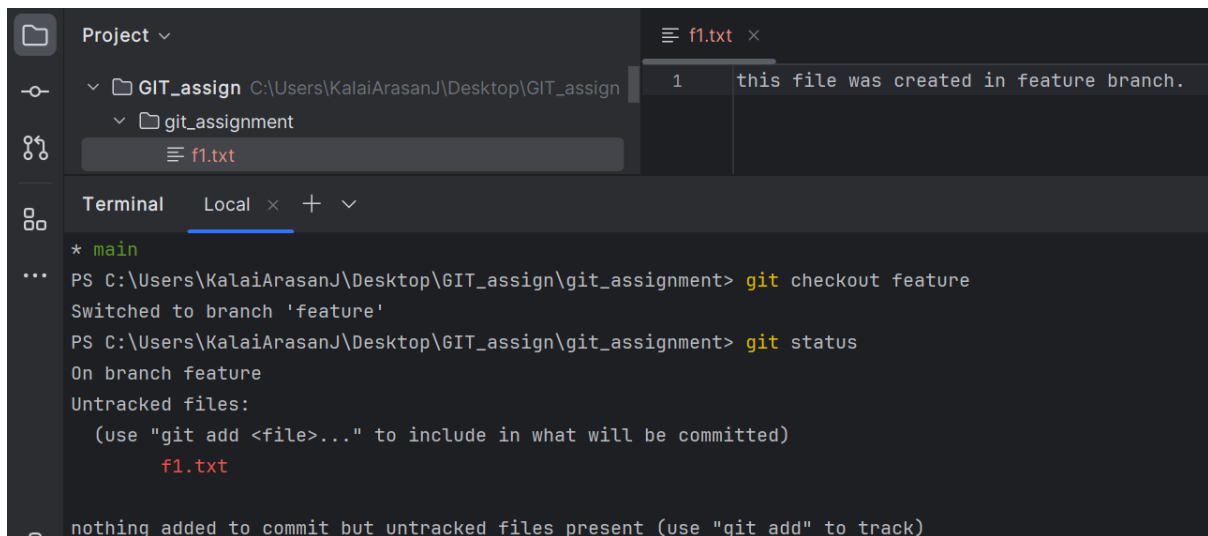
```
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment> git branch -a
* main
remotes/origin/HEAD -> origin/main
remotes/origin/main
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment> git branch
* main
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment> git branch feature
```

Step 3: Switch to the new branch.

```
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment> git branch
feature
* 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_assign > git_assignment > q1.txt
```

Step 4: Make some changes to the code in your local copy of the repository.

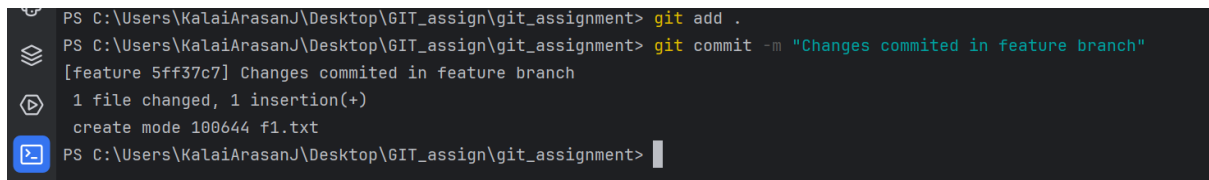


```
Project
  GIT_assign C:\Users\KalaiArasanJ\Desktop\GIT_assign
    git_assignment
      f1.txt

Terminal
  Local x + v
  * 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 status
  On branch feature
  Untracked files:
    (use "git add <file>..." to include in what will be committed)
    f1.txt

  nothing added to commit but untracked files present (use "git add" to track)
```

Step 5: Commit 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 "Changes committed in feature branch"
[feature 5ff37c7] Changes committed in feature branch
1 file changed, 1 insertion(+)
create mode 100644 f1.txt
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment>
```

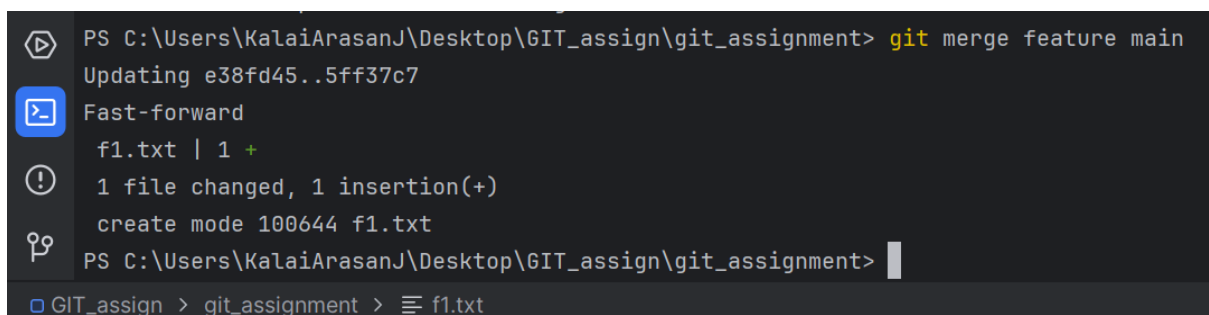
Step 6: Switch back to the original branch



```
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment> git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment>

GIT_assign > git_assignment > f1.txt
```

Step 7: Merge the new branch.



```
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment> git merge feature main
Updating e38fd45..5ff37c7
Fast-forward
 f1.txt | 1 +
1 file changed, 1 insertion(+)
create mode 100644 f1.txt
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment>

GIT_assign > git_assignment > f1.txt
```

## Step 8: Push changes to the original branch

```
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment> git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 321 bytes | 321.00 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
   e38fd45..5ff37c7  main -> main
PS C:\Users\KalaiArasanJ\Desktop\GIT_assign\git_assignment>
```

□ GIT\_assign > git\_assignment > ≡ f1.txt