

ASP.NET Core 8.0 GIT - LAB 4

Creating another branch and making some changes in it to make intentional conflicts :

```
souptik@3201Lappu:~/tempGit/git_conflict$ git checkout -b GitWork
Switched to a new branch 'GitWork'
souptik@3201Lappu:~/tempGit/git_conflict$ git branch
souptik@3201Lappu:~/tempGit/git_conflict$ touch hello.xml
souptik@3201Lappu:~/tempGit/git_conflict$ echo "Hello from GitWork branch" > hello.xml
souptik@3201Lappu:~/tempGit/git_conflict$ git add .
souptik@3201Lappu:~/tempGit/git_conflict$ git commit -m "added the hello xml file"
[GitWork (root-commit) 47a47fb] added the hello xml file
1 file changed, 1 insertion(+)
create mode 100644 hello.xml
souptik@3201Lappu:~/tempGit/git_conflict$ |
```

After saving checking the log file and the head pointer

```
souptik@3201Lappu:~/tempGit/git_conflict$ git log
commit 47a47fbfcb92f1d06f1ef21df9bbd6cc8ce2627b (HEAD -> GitWork)
Author: souptik <souptikkaran23@gmail.com>
Date: Sun Aug 10 15:47:53 2025 +0000

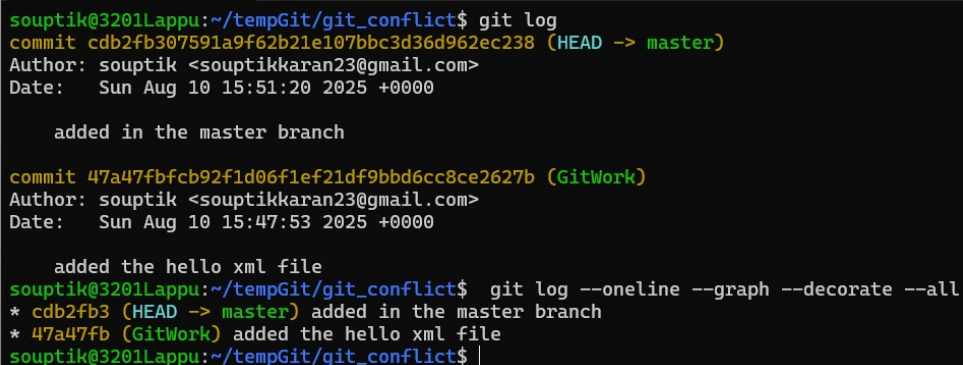
    added the hello xml file
souptik@3201Lappu:~/tempGit/git_conflict$ git log --oneline --graph --decorate --all
* 47a47fb (HEAD -> GitWork) added the hello xml file
souptik@3201Lappu:~/tempGit/git_conflict$ |
```

Save and commit in the same branch and then create another branch then save another changes there :

```
souptik@3201Lappu:~/tempGit/git_conflict$ git branch
* GitWork
  master
souptik@3201Lappu:~/tempGit/git_conflict$ git checkout master
Switched to branch 'master'
souptik@3201Lappu:~/tempGit/git_conflict$ git add hello.xml
souptik@3201Lappu:~/tempGit/git_conflict$ echo "hello world in the master branch" > hello.xml
souptik@3201Lappu:~/tempGit/git_conflict$ git add .
souptik@3201Lappu:~/tempGit/git_conflict$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   hello.xml

souptik@3201Lappu:~/tempGit/git_conflict$ git commit -m "added in the master branch"
[master cdb2fb3] added in the master branch
1 file changed, 1 insertion(+), 1 deletion(-)
souptik@3201Lappu:~/tempGit/git_conflict$ |
```

Now it will say two another branch



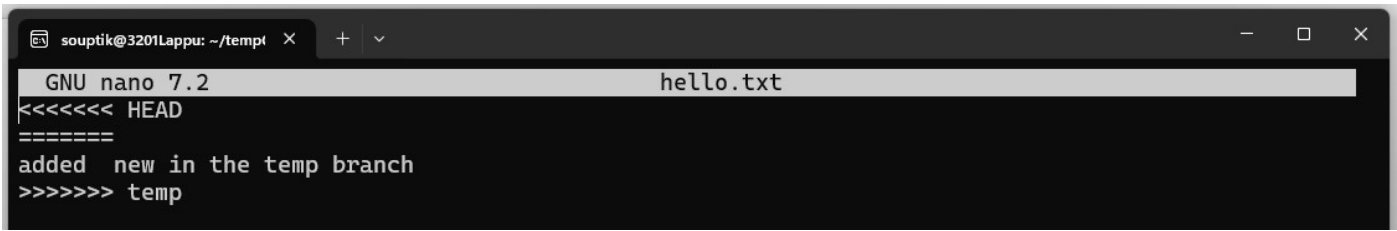
```
souptik@3201Lappu:~/tempGit/git_conflict$ git log
commit cdb2fb307591a9f62b21e107bbc3d36d962ec238 (HEAD -> master)
Author: souptik <souptikkaran23@gmail.com>
Date: Sun Aug 10 15:51:20 2025 +0000

    added in the master branch

commit 47a47fbfcb92f1d06f1ef21df9bbd6cc8ce2627b (GitWork)
Author: souptik <souptikkaran23@gmail.com>
Date: Sun Aug 10 15:47:53 2025 +0000

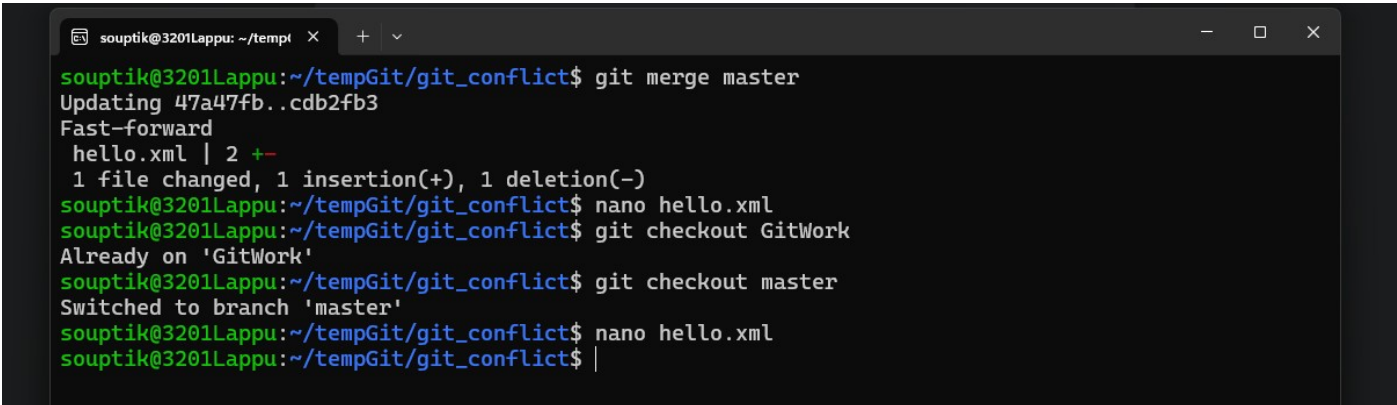
    added the hello xml file
souptik@3201Lappu:~/tempGit/git_conflict$ git log --oneline --graph --decorate --all
* cdb2fb3 (HEAD -> master) added in the master branch
* 47a47fb (GitWork) added the hello xml file
souptik@3201Lappu:~/tempGit/git_conflict$ |
```

While using the merge command some time it will show the conflict like this



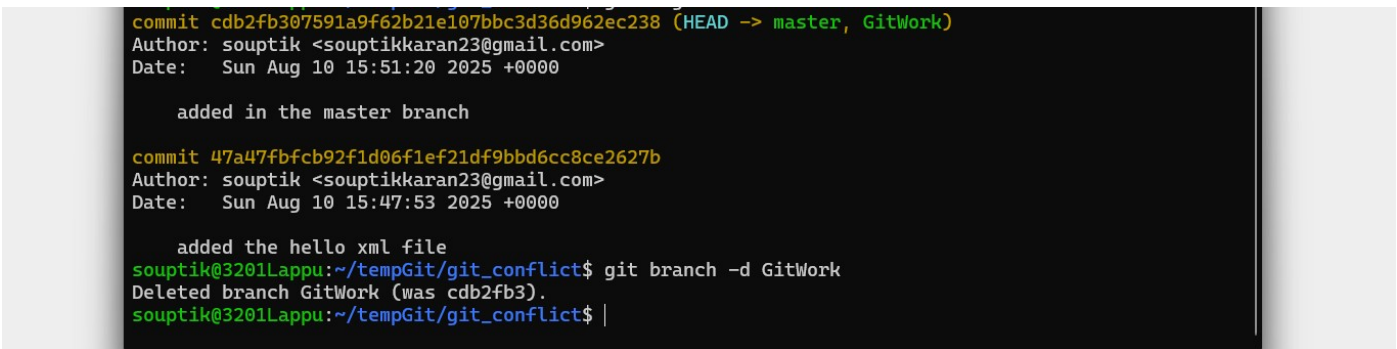
```
GNU nano 7.2 hello.txt
<<<<<< HEAD
=====
added new in the temp branch
>>>>>> temp
```

Need to manually solve the error or the conflict message :



```
souptik@3201Lappu: ~/tempGit/git_conflict$ git merge master
Updating 47a47fb..cdb2fb3
Fast-forward
 hello.xml | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
souptik@3201Lappu:~/tempGit/git_conflict$ nano hello.xml
souptik@3201Lappu:~/tempGit/git_conflict$ git checkout GitWork
Already on 'GitWork'
souptik@3201Lappu:~/tempGit/git_conflict$ git checkout master
Switched to branch 'master'
souptik@3201Lappu:~/tempGit/git_conflict$ nano hello.xml
souptik@3201Lappu:~/tempGit/git_conflict$ |
```

Then merging and seeing the logging file :



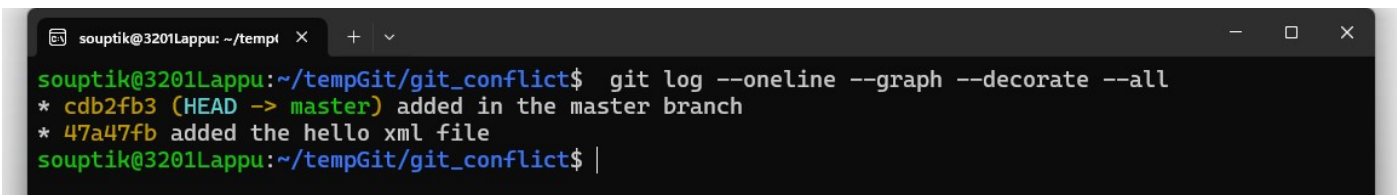
```
commit cdb2fb307591a9f62b21e107bbc3d36d962ec238 (HEAD -> master, GitWork)
Author: souptik <souptikkaran23@gmail.com>
Date: Sun Aug 10 15:51:20 2025 +0000

    added in the master branch

commit 47a47fbfcb92f1d06f1ef21df9bbd6cc8ce2627b
Author: souptik <souptikkaran23@gmail.com>
Date: Sun Aug 10 15:47:53 2025 +0000

    added the hello xml file
souptik@3201Lappu:~/tempGit/git_conflict$ git branch -d GitWork
Deleted branch GitWork (was cdb2fb3).
souptik@3201Lappu:~/tempGit/git_conflict$ |
```

Then delete the temp branch , make it clean :



```
souptik@3201Lappu:~/tempGit/git_conflict$ git log --oneline --graph --decorate --all
* cdb2fb3 (HEAD -> master) added in the master branch
* 47a47fb added the hello xml file
souptik@3201Lappu:~/tempGit/git_conflict$ |
```