

Git - HOL - 3

What I have done :

- Created a new branch named GitNewBranch using Git Bash.
- Switched to GitNewBranch and added a new file feature.txt and folder testfolder.
- Committed the changes locally in the new branch.
- Switched back to the master branch.
- Compared differences between GitNewBranch and master using git diff.
- Merged GitNewBranch into master using git merge.
- Verified the merge history using git log --oneline --graph --decorate.
- Deleted the GitNewBranch locally after successful merge.
- Pushed the branch to GitLab using git push.
- Created and submitted a **Merge Request** in GitLab from GitNewBranch to master.
- Merged the request in GitLab UI and deleted the branch from remote.

Screenshots :

```
MINGW64: c:/Users/iswar/GitDemo

iswar@Asus-TUF MINGW64 ~
$ cd GitDemo

iswar@Asus-TUF MINGW64 ~/GitDemo (master)
$ git checkout -b GitNewBranch
Switched to a new branch 'GitNewBranch'

iswar@Asus-TUF MINGW64 ~/GitDemo (GitNewBranch)
$ git branch
* GitNewBranch
  master

iswar@Asus-TUF MINGW64 ~/GitDemo (GitNewBranch)
$ echo "This is a new folder" > feature.txt

iswar@Asus-TUF MINGW64 ~/GitDemo (GitNewBranch)
$ mkdir testfolder

iswar@Asus-TUF MINGW64 ~/GitDemo (GitNewBranch)
$ echo "Folder file content" > testfolder/test.txt

iswar@Asus-TUF MINGW64 ~/GitDemo (GitNewBranch)
$ git add .
warning: in the working copy of 'feature.txt', LF will be replaced by CRLF th
warning: in the working copy of 'testfolder/test.txt', LF will be replaced by
uches it

iswar@Asus-TUF MINGW64 ~/GitDemo (GitNewBranch)
$ git commit -m "Added feature.txt and textfolder in GitNewBranch"
[GitNewBranch c0b3643] Added feature.txt and textfolder in GitNewBranch
 2 files changed, 2 insertions(+)
 create mode 100644 feature.txt
 create mode 100644 testfolder/test.txt

iswar@Asus-TUF MINGW64 ~/GitDemo (GitNewBranch)
$ git status
On branch GitNewBranch
nothing to commit, working tree clean

iswar@Asus-TUF MINGW64 ~/GitDemo (GitNewBranch)
$
```

```
iswar@Asus-TUF MINGW64 ~/GitDemo (GitNewBranch)
$ git checkout master
Switched to branch 'master'
Your branch is ahead of 'origin/master' by 1 commit.
(use "git push" to publish your local commits)

iswar@Asus-TUF MINGW64 ~/GitDemo (master)
$ git diff master..GitNewBranch
diff --git a/feature.txt b/feature.txt
new file mode 100644
index 0000000..be454af
--- /dev/null
+++ b/feature.txt
@@ -0,0 +1 @@
+This is a new folder
diff --git a/testfolder/test.txt b/testfolder/test.txt
new file mode 100644
index 0000000..17d0bbb
--- /dev/null
+++ b/testfolder/test.txt
@@ -0,0 +1 @@
+Folder file content

iswar@Asus-TUF MINGW64 ~/GitDemo (master)
$ git merge GitNewBranch
Updating f42aeed..c0b3643
Fast-forward
   feature.txt      | 1 +
  testfolder/test.txt | 1 +
  2 files changed, 2 insertions(+)
  create mode 100644 feature.txt
  create mode 100644 testfolder/test.txt

iswar@Asus-TUF MINGW64 ~/GitDemo (master)
$ git log --online --graph --decorate
fatal: unrecognized argument: --online

iswar@Asus-TUF MINGW64 ~/GitDemo (master)
$ git log --oneline --graph --decorate
* c0b3643 (HEAD -> master, GitNewBranch) Added feature.txt and testfolder in GitNewBranch
* f42aeed Added .gitignore to ignore .log files and log folder
* fa9b177 (origin/master) Initial commit Added welcome.txt file
```

```
iswar@Asus-TUF MINGW64 ~/GitDemo (master)
$ ^C

iswar@Asus-TUF MINGW64 ~/GitDemo (master)
$ git branch
* master

iswar@Asus-TUF MINGW64 ~/GitDemo (master)
$ git pull origin master --allow-unrelated-histories
From https://gitlab.com/iswarya-raj-group/GitDemo
 * branch                master      -> FETCH_HEAD
Already up to date.

iswar@Asus-TUF MINGW64 ~/GitDemo (master)
$ git push origin master
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 12 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (8/8), 761 bytes | 761.00 KiB/s, done.
Total 8 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: To create a merge request for master, visit:
remote:   https://gitlab.com/iswarya-raj-group/GitDemo/-/merge_requests/new?merge_request%5Bsource_branch%5D=master
remote:
To https://gitlab.com/iswarya-raj-group/GitDemo.git
   fa9b177..c0b3643  master -> master

iswar@Asus-TUF MINGW64 ~/GitDemo (master)
$ |
```