3. Git - HOL

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1) Exercise 3: GitNewBranch

Solution:

```
MINGW64:/c/Users/mohan/GitDemo                                    —    □    ×

mohan@mohanapriya MINGW64 ~ (master)
$ cd ~/GitDemo

mohan@mohanapriya MINGW64 ~/GitDemo (main)
$ git branch GitNewBranch

mohan@mohanapriya MINGW64 ~/GitDemo (main)
$ git branch -a
  GitNewBranch
* main
  remotes/origin/main
  remotes/origin/master

mohan@mohanapriya MINGW64 ~/GitDemo (main)
$ git checkout GitNewBranch
Switched to branch 'GitNewBranch'

mohan@mohanapriya MINGW64 ~/GitDemo (GitNewBranch)
$ echo "This is content for GitNewBranch" > branchfile.txt
```

```
mohan@mohanapriya MINGW64 ~/GitDemo (GitNewBranch)
$ git add branchfile.txt
warning: in the working copy of 'branchfile.txt', LF will be replaced by CRLF the next time Git touches
 it

mohan@mohanapriya MINGW64 ~/GitDemo (GitNewBranch)
$ git commit -m "Add branchfile.txt in GitNewBranch"
[GitNewBranch 57d366c] Add branchfile.txt in GitNewBranch
 1 file changed, 1 insertion(+)
 create mode 100644 branchfile.txt

mohan@mohanapriya MINGW64 ~/GitDemo (GitNewBranch)
$ git status
On branch GitNewBranch
nothing to commit, working tree clean

mohan@mohanapriya MINGW64 ~/GitDemo (GitNewBranch)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

mohan@mohanapriya MINGW64 ~/GitDemo (main)
$ git diff GitNewBranch
diff --git a/branchfile.txt b/branchfile.txt
deleted file mode 100644
index d982aa6..0000000
--- a/branchfile.txt
+++ /dev/null
@@ -1 +0,0 @@
-This is content for GitNewBranch
```

```
mohan@mohanapriya MINGW64 ~/GitDemo (main)
$ git difftool GitNewBranch

Viewing (1/1): 'branchfile.txt'
Launch 'p4merge' [Y/n]? n
```

```
mohan@mohanapriya MINGW64 ~/GitDemo (main)
$ git nerge GitNewBranch
git: 'nerge' is not a git command. See 'git --help'.

The most similar command is
        merge

mohan@mohanapriya MINGW64 ~/GitDemo (main)
$ git merge GitNewBranch
Updating 13e6739..57d366c
Fast-forward
 branchfile.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 branchfile.txt

mohan@mohanapriya MINGW64 ~/GitDemo (main)
$ git log --oneline --graph --decorate
* 57d366c (HEAD -> main, GitNewBranch) Add branchfile.txt in GitNewBranch
* 13e6739 (origin/main) Add .gitignore to ignore *.log and log/ folder
* 57a9496 Initial commit: added welcome.txt
* 9c63db2 Initial commit

mohan@mohanapriya MINGW64 ~/GitDemo (main)
$ git branch -d GitNewBranch
Deleted branch GitNewBranch (was 57d366c).

mohan@mohanapriya MINGW64 ~/GitDemo (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
```

```
mohan@mohanapriya MINGW64 ~/GitDemo (main)
$ git checkout main
Already on 'main'
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

mohan@mohanapriya MINGW64 ~/GitDemo (main)
$ git pull origin main --rebase
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 965 bytes | 45.00 KiB/s, done.
From https://github.com/mohana5056/GitDemo
 * branch            main       -> FETCH_HEAD
   13e6739..813ec77  main       -> origin/main
Successfully rebased and updated refs/heads/main.

mohan@mohanapriya MINGW64 ~/GitDemo (main)
$ git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 402 bytes | 402.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/mohana5056/GitDemo.git
   813ec77..23ddf69  main -> main
```

OUTPUT: