

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
```

```
MINGW64:/c/Users/mohan/GitDemo
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:

This screenshot shows a GitHub commit page for the repository 'mohana5056 / GitDemo'. The commit is titled 'Add branchfile.txt in GitNewBranch' and was made by user 'mohana' 1 minute ago. The commit hash is 23ddf69. The page shows a diff for the file 'branchfile.txt', which contains the text 'This is content for GitNewBranch'. The diff shows a single line added. Below the diff, there is a 'Comments' section with a 'Lock conversation' button and a 'Subscribe' button. The browser's address bar shows the URL: <https://github.com/mohana5056/GitDemo/commit/23ddf69a4a171abfd8f9e71f199c184f24cbf503>. The Windows taskbar at the bottom shows the time as 18:18 on 10-08-2025.

This screenshot shows a GitHub file page for the repository 'mohana5056 / GitDemo'. The file is 'branchfile.txt' and is located in the 'main' branch. The file was added by user 'mohana' 1 minute ago. The file content is 'This is content for GitNewBranch'. The page shows the file's metadata, including its size (33 Bytes) and the number of lines (1 line). The browser's address bar shows the URL: <https://github.com/mohana5056/GitDemo/blob/main/branchfile.txt>. The Windows taskbar at the bottom shows the time as 18:18 on 10-08-2025.