

### 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 'mohana' 1 minute ago. The commit hash is 23ddf69. The page shows the commit message, the parent commit (813ec72), and a list of files changed. One file, 'branchfile.txt', is shown with a diff view indicating a single line of code was added: 'This is content for GitNewBranch'. The page also includes a search bar, a filter for files, and a comments section.

Commit 23ddf69  
mohana committed 1 minute ago

Add branchfile.txt in GitNewBranch

1 parent 813ec72 commit 23ddf69

1 file changed +1 -0 lines changed

branchfile.txt

1 + This is content for GitNewBranch

Comments 0

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This screenshot shows the GitHub file page for 'branchfile.txt' in the repository 'mohana5056 / GitDemo'. The file is located at 'GitDemo / branchfile.txt'. The page shows the file's history, with the most recent commit being 'Add branchfile.txt in GitNewBranch' by 'mohana' 1 minute ago. The file content is displayed in a code view, showing a single line of code: 'This is content for GitNewBranch'. The page also includes a search bar, a filter for files, and a list of files in the repository.

GitDemo / branchfile.txt

mohana Add branchfile.txt in GitNewBranch 23ddf69 - 1 minute ago History

Code Blame 1 lines (1 loc) · 33 Bytes

1 This is content for GitNewBranch

Files

main

Go to file

.gitignore

README.md

branchfile.txt

welcome.txt