

Prathamansh Jasrotia(6401411) Git-HOL-3-SOLUTION

Please follow the instruction to complete the hands-on. Each instruction expects a command for the Git Bash.

Branching:

1. Create a new branch **"GitNewBranch"**.
2. List all the local and remote branches available in the current trunk. Observe the **"*"** mark which denote the current pointing branch.
3. Switch to the newly created branch. Add some files to it with some contents.
4. Commit the changes to the branch.
5. Check the status with **"git status"** command.

Solution:-

```
Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~
$ mkdir git-handson

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~
$ cd git-handson

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson
$ git init
Initialized empty Git repository in C:/Users/Prathamansh Jasrotia/git-handson/.git/

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (master)
$ echo "# Git Hands-on Lab" > README.md

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (master)
$ git add README.md
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (master)
$ git commit -m "Initial commit on master"
[master (root-commit) cbc2337] Initial commit on master
1 file changed, 1 insertion(+)
 create mode 100644 README.md

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (master)
$ git branch
* master

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (master)
$ git branch --show-current
master

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (master)
$ git branch -m main master
fatal: no branch named 'main'

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (master)
$ git checkout -b GitNewBranch
Switched to a new branch 'GitNewBranch'

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (GitNewBranch)
$ git branch
* GitNewBranch
  master

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (GitNewBranch)
$ git branch -a
* GitNewBranch
```

```

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (GitNewBranch)
$ echo "Hello from GitNewBranch" > feature.txt

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (GitNewBranch)
$ mkdir src

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (GitNewBranch)
$ cat > src/demo.txt <<'EOF'
> This is demo file
> Edited in GitNewBranch
> EOF

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (GitNewBranch)
$ git add .
warning: in the working copy of 'feature.txt', LF will be replaced by CRLF the n
ext time Git touches it
warning: in the working copy of 'src/demo.txt', LF will be replaced by CRLF the
next time Git touches it

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (GitNewBranch)
$ git commit -m "Add feature.txt and src/demo.txt on GitNewBranch"
[GitNewBranch a229cff] Add feature.txt and src/demo.txt on GitNewBranch
2 files changed, 3 insertions(+)
create mode 100644 feature.txt
create mode 100644 src/demo.txt

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (GitNewBranch)
$ git status
On branch GitNewBranch
nothing to commit, working tree clean

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (GitNewBranch)
$ git checkout master
Switched to branch 'master'

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (master)
$ git diff master..GitNewBranch
diff --git a/feature.txt b/feature.txt
new file mode 100644
index 0000000..b7f77f0
--- /dev/null
+++ b/feature.txt
@@ -0,0 +1 @@
+Hello from GitNewBranch
diff --git a/src/demo.txt b/src/demo.txt
new file mode 100644
index 0000000..ddd79b1
--- /dev/null
+++ b/src/demo.txt
@@ -0,0 +1,2 @@

```

```

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (master)
$ git diff --name-only master..GitNewBranch
feature.txt
src/demo.txt

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (master)
$ git log --oneline master..GitNewBranch
a229cff (GitNewBranch) Add feature.txt and src/demo.txt on GitNewBranch

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (master)
$ git merge GitNewBranch
Updating cbc2337..a229cff
Fast-forward
 feature.txt | 1 +
 src/demo.txt | 2 ++
 2 files changed, 3 insertions(+)
 create mode 100644 feature.txt
 create mode 100644 src/demo.txt

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (master)
$ git merge --no-ff GitNewBranch -m "Merge GitNewBranch into master"
Already up to date.

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (master)
$ git status
On branch master
nothing to commit, working tree clean

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (master)
$ git mergetool

This message is displayed because 'merge.tool' is not configured.
See 'git mergetool --tool-help' or 'git help config' for more details.
'git mergetool' will now attempt to use one of the following tools:
opendiff kdiff3 tkdiff xxdiff meld tortoisemerge gvimdiff diffuse diffmerge ecme
rge p4merge araxis bc codecompare smerge emerge vimdiff nvimdiff
No files need merging

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (master)
$ git add <file(s)>
bash: syntax error near unexpected token `('

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (master)
$ git commit
On branch master
nothing to commit, working tree clean

```

```

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (master)
$ git remote add origin https://gitlab.com/gitdemo4541432/git3.git

Prathamansh Jasrotia@DESKTOP-JJJJGNV MINGW64 ~/git-handson (master)
$ git push -u origin master
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (8/8), 666 bytes | 333.00 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/gitdemo4541432/git3/-/merge_requests/new?merge_requ
est%5Bsource_branch%5D=master
remote:
To https://gitlab.com/gitdemo4541432/git3.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.

```