3. Git-HOL

Branching:

```
ADMIN@DESKTOP-OUB4RGS MINGW64 ~/GitDemo (main)
$ git checkout -b GitNewBranch
Switched to a new branch 'GitNewBranch'
```

```
ADMIN@DESKTOP-OUB4RGS MINGW64 ~/GitDemo (GitNewBranch)
$ git branch
* GitNewBranch
  main

ADMIN@DESKTOP-OUB4RGS MINGW64 ~/GitDemo (GitNewBranch)
$ echo "This is the content in GitNewBranch" > branchfile.txt

ADMIN@DESKTOP-OUB4RGS MINGW64 ~/GitDemo (GitNewBranch)
$ git add branchfile.txt
warning: in the working copy of 'branchfile.txt', LF will be replaced by CRLF th
e next time Git touches it

ADMIN@DESKTOP-OUB4RGS MINGW64 ~/GitDemo (GitNewBranch)
$ git commit -m "Add branchfile.txt in GitNewBranch"
[GitNewBranch 66b5f5c] Add branchfile.txt in GitNewBranch
 1 file changed, 1 insertion(+)
 create mode 100644 branchfile.txt

ADMIN@DESKTOP-OUB4RGS MINGW64 ~/GitDemo (GitNewBranch)
$ git status
On branch GitNewBranch
nothing to commit, working tree clean
```

Merging:


```
MINGW64:/c/Users/ADMIN/GitDemo

ADMIN@DESKTOP-OUB4RGS MINGW64 ~/GitDemo (main)
$ git checkout main
Already on 'main'
Your branch is up to date with 'origin/main'.

ADMIN@DESKTOP-OUB4RGS MINGW64 ~/GitDemo (main)
$ git diff --name-only main..GitNewBranch
branchfile.txt

ADMIN@DESKTOP-OUB4RGS MINGW64 ~/GitDemo (main)
$ git diff main..GitNewBranch
diff --git a/branchfile.txt b/branchfile.txt
new file mode 100644
index 0000000..cd19c40
--- /dev/null
+++ b/branchfile.txt
@@ -0,0 +1 @@
+This is the content in GitNewBranch

ADMIN@DESKTOP-OUB4RGS MINGW64 ~/GitDemo (main)
$ git difftool main..GitNewBranch

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

ADMIN@DESKTOP-OUB4RGS MINGW64 ~/GitDemo (main)
$ git merge GitNewBranch
Updating bc79df2..66b5f5c
Fast-forward
 branchfile.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 branchfile.txt

ADMIN@DESKTOP-OUB4RGS MINGW64 ~/GitDemo (main)
$ git log --oneline --graph --decorate -all
error: switch `l' expects a numerical value

ADMIN@DESKTOP-OUB4RGS MINGW64 ~/GitDemo (main)
$ git log --oneline --graph --decorate --all
* 66b5f5c (HEAD -> main, GitNewBranch) Add branchfile.txt in GitNewBranch
* bc79df2 (origin/main) Add .gitignore to ignore *.log files and log folder
*   64b0efa Merge branch 'main' of https://gitlab.com/kasthuriram116-group/gitde
mo
|\
| * 4907001 Initial commit
* 7b4f7fe Initial commit: add welcome.txt

ADMIN@DESKTOP-OUB4RGS MINGW64 ~/GitDemo (main)
$ git branch -d GitNewBranch
Deleted branch GitNewBranch (was 66b5f5c).

ADMIN@DESKTOP-OUB4RGS 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
```