**Exercise 3 : Git-HOL**

**Branching and Merging in GitLab**

arsha@DESKTOP-8CH3EHJ MINGW64 ~/GitDemo (main)

**$ mkdir Git3HOL**

arsha@DESKTOP-8CH3EHJ MINGW64 ~/GitDemo (main)

**$ cd Git3HOL/**

arsha@DESKTOP-8CH3EHJ MINGW64 ~/GitDemo/Git3HOL (main)

**$ git init**

Initialized empty Git repository in C:/Users/arsha/GitDemo/Git3HOL/.git/

arsha@DESKTOP-8CH3EHJ MINGW64 ~/GitDemo/Git3HOL (main)

**$ git checkout -b GitNewBranch**

Switched to a new branch 'GitNewBranch'

arsha@DESKTOP-8CH3EHJ MINGW64 ~/GitDemo/Git3HOL (GitNewBranch)

**$ echo "This is a Git branching test file." > branchfile.txt**

arsha@DESKTOP-8CH3EHJ MINGW64 ~/GitDemo/Git3HOL (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

arsha@DESKTOP-8CH3EHJ MINGW64 ~/GitDemo/Git3HOL (GitNewBranch)

**$ git commit -m "Added branchfile.txt in GitNewBranch"**

[GitNewBranch (root-commit) d6e00bc] Added branchfile.txt in GitNewBranch

1 file changed, 1 insertion(+)

create mode 100644 branchfile.txt

arsha@DESKTOP-8CH3EHJ MINGW64 ~/GitDemo/Git3HOL (GitNewBranch)

**$ git status**

On branch GitNewBranch

nothing to commit, working tree clean

arsha@DESKTOP-8CH3EHJ MINGW64 ~/GitDemo/Git3HOL (GitNewBranch)

**$ git checkout -b main**

Switched to a new branch 'main'

arsha@DESKTOP-8CH3EHJ MINGW64 ~/GitDemo/Git3HOL (main)

**$ echo "This is the main branch file." > mainfile.txt**

arsha@DESKTOP-8CH3EHJ MINGW64 ~/GitDemo/Git3HOL (main)

**$ git add mainfile.txt**

warning: in the working copy of 'mainfile.txt', LF will be replaced by CRLF the next time Git touches it

arsha@DESKTOP-8CH3EHJ MINGW64 ~/GitDemo/Git3HOL (main)

**$ git commit -m "Added mainfile.txt in main branch"**

[main 50daf89] Added mainfile.txt in main branch

1 file changed, 1 insertion(+)

create mode 100644 mainfile.txt

arsha@DESKTOP-8CH3EHJ MINGW64 ~/GitDemo/Git3HOL (main)

**$ git checkout GitNewBranch**

Switched to branch 'GitNewBranch'

arsha@DESKTOP-8CH3EHJ MINGW64 ~/GitDemo/Git3HOL (GitNewBranch)

**$ git merge main**

Updating d6e00bc..50daf89

Fast-forward

mainfile.txt | 1 +

1 file changed, 1 insertion(+)

create mode 100644 mainfile.txt

arsha@DESKTOP-8CH3EHJ MINGW64 ~/GitDemo/Git3HOL (GitNewBranch)

**$ git log --oneline --graph --all**

\* 50daf89 (HEAD -> GitNewBranch, main) Added mainfile.txt in main branch

\* d6e00bc Added branchfile.txt in GitNewBranch