

### 3. Git-HOL

Branching:

```
MINGW64:/e/Coding/Week 8/GitDemo

thiru@HackSparrow MINGW64 /e/Coding/Week 8/GitDemo (main)
$ git branch GitNewBranch

thiru@HackSparrow MINGW64 /e/Coding/Week 8/GitDemo (main)
$ git branch -a
  GitNewBranch
* main
remotes/origin/main

thiru@HackSparrow MINGW64 /e/Coding/Week 8/GitDemo (main)
$ git checkout GitNewBranch
Switched to branch 'GitNewBranch'

thiru@HackSparrow MINGW64 /e/Coding/Week 8/GitDemo (GitNewBranch)
$ echo "This is content for GitNewBranch" > branchfile.txt

thiru@HackSparrow MINGW64 /e/Coding/Week 8/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

thiru@HackSparrow MINGW64 /e/Coding/Week 8/GitDemo (GitNewBranch)
$ git commit -m "Add branchfile.txt in GitNewBranch"
[GitNewBranch 828de0f] Add branchfile.txt in GitNewBranch
1 file changed, 1 insertion(+)
 create mode 100644 branchfile.txt

thiru@HackSparrow MINGW64 /e/Coding/Week 8/GitDemo (GitNewBranch)
$ git status
On branch GitNewBranch
nothing to commit, working tree clean

thiru@HackSparrow MINGW64 /e/Coding/Week 8/GitDemo (GitNewBranch)
$
```

## Merging:

```
MINGW64/e/Coding/Week 8/GitDemo

thiru@HackSparrow MINGW64 /e/Coding/Week 8/GitDemo (GitNewBranch)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

thiru@HackSparrow MINGW64 /e/Coding/Week 8/GitDemo (main)
$ git diff main GitNewBranch
diff --git a/branchfile.txt b/branchfile.txt
new file mode 100644
index 0000000..d982aa6
--- /dev/null
+++ b/branchfile.txt
@@ -0,0 +1 @@
+This is content for GitNewBranch

thiru@HackSparrow MINGW64 /e/Coding/Week 8/GitDemo (main)
$ 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 ecmerge p4merge araxis bc codecompare smerge emerge vimdiff nvimdiff
No files need merging

thiru@HackSparrow MINGW64 /e/Coding/Week 8/GitDemo (main)
$ git merge GitNewBranch
Updating 4f7334f..828de0f
Fast-forward
 branchfile.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 branchfile.txt

thiru@HackSparrow MINGW64 /e/Coding/Week 8/GitDemo (main)
$ git log --oneline --graph --decorate
* 828de0f (HEAD -> main, GitNewBranch) Add branchfile.txt in GitNewBranch
* 4f7334f (origin/main) Add .gitignore to exclude .log files and log folder
* b15a39b Merge branch 'main' of https://gitlab.com/thirumanirathish-group/gitdemo
|\
| * 89a6dae Initial commit
| * ad606c9 initial commit: add welcome.txt

thiru@HackSparrow MINGW64 /e/Coding/Week 8/GitDemo (main)
$ git branch -d GitNewBranch
Deleted branch GitNewBranch (was 828de0f).

thiru@HackSparrow MINGW64 /e/Coding/Week 8/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

thiru@HackSparrow MINGW64 /e/Coding/Week 8/GitDemo (main)
$ |
```