3. Git-HOL

Branching:

```
C:\Users\USER>git checkout -b GitNewBranch
Switched to a new branch 'GitNewBranch'

C:\Users\USER>git branch
* GitNewBranch
  Main
  master

C:\Users\USER>echo "this is the content in GitNewBranch" > branchfile.tx
t

C:\Users\USER>git add branchfile.txt

C:\Users\USER>git commit -m "Add branch file.txt in GitNewBranch"
[GitNewBranch 5a8eb53] Add branch file.txt in GitNewBranch
 1 file changed, 1 insertion(+)
 create mode 100644 branchfile.txt

C:\Users\USER>git status
warning: could not open directory 'Application Data/': Permission denied
warning: could not open directory 'Cookies/': Permission denied
warning: could not open directory 'Local Settings/': Permission denied
warning: could not open directory 'My Documents/': Permission denied
warning: could not open directory 'NetHood/': Permission denied
warning: could not open directory 'PrintHood/': Permission denied
warning: could not open directory 'Recent/': Permission denied
warning: could not open directory 'SendTo/': Permission denied
warning: could not open directory 'Start Menu/': Permission denied
warning: could not open directory 'Templates/': Permission denied
On branch GitNewBranch
```

Merging:

```
C:\Users\USER>git checkout main
M        Desktop/HBS/ReusableComponents/ReusableComponents
Already on 'main'

C:\Users\USER>git diff --name-only main..GitNewBranch
branchfile.txt

C:\Users\USER>git diff main..GitNewBranch
diff --git a/branchfile.txt b/branchfile.txt
new file mode 100644
index 0000000..174ead1
--- /dev/null
+++ b/branchfile.txt
@@ -0,0 +1 @@
+"this is the content in GitNewBranch"

C:\Users\USER>git difftool main..GitNewBranch

This message is displayed because 'diff.tool' is not configured.
See 'git difftool --tool-help' or 'git help config' for more details.
'git difftool' will now attempt to use one of the following tools:
kompare emerge vimdiff nvimdiff

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

```
C:\Users\USER>git merge GitNewBranch
Updating 91008b4..5a8eb53
Fast-forward
 branchfile.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 branchfile.txt

C:\Users\USER>git log --online --graph --decorate -all
error: switch 'l' expects a numerical value

C:\Users\USER>git log --online --graph --decorate -all
error: switch 'l' expects a numerical value

C:\Users\USER>git branch -d GitNewBranch
Deleted branch GitNewBranch (was 5a8eb53).

C:\Users\USER>git status
warning: could not open directory 'Application Data/': Permission denied
warning: could not open directory 'Cookies/': Permission denied
warning: could not open directory 'Local Settings/': Permission denied
warning: could not open directory 'My Documents/': Permission denied
warning: could not open directory 'NetHood/': Permission denied
warning: could not open directory 'PrintHood/': Permission denied
warning: could not open directory 'Recent/': Permission denied
warning: could not open directory 'SendTo/': Permission denied
warning: could not open directory 'Start Menu/': Permission denied
warning: could not open directory 'Templates/': Permission denied
On branch main
```