

HOL-3

Source Code: [Here](#)

Output

Branching

Created new branch and switched to it

```
PS F:\Cognizant DeepSkilling\Weekly Exercises\Week-8> git branch
* main
PS F:\Cognizant DeepSkilling\Weekly Exercises\Week-8> git branch GitNewBranch
PS F:\Cognizant DeepSkilling\Weekly Exercises\Week-8> git branch
  GitNewBranch
* main
PS F:\Cognizant DeepSkilling\Weekly Exercises\Week-8> git switch GitNewBranch
Switched to branch 'GitNewBranch'
PS F:\Cognizant DeepSkilling\Weekly Exercises\Week-8> git branch
* GitNewBranch
  main
```

Added and committed new changes to new branch

```
PS F:\Cognizant DeepSkilling\Weekly Exercises\Week-8> git status
On branch GitNewBranch
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    HOL-3/

nothing added to commit but untracked files present (use "git add" to track)
PS F:\Cognizant DeepSkilling\Weekly Exercises\Week-8> git add .
PS F:\Cognizant DeepSkilling\Weekly Exercises\Week-8> git commit -m "Week-8: HOL-3 New branch created and files added"
[GitNewBranch 55372cf] Week-8: HOL-3 New branch created and files added
 1 file changed, 1 insertion(+)
 create mode 100644 Week-8/HOL-3/README.md
```

Pushed committed data to new branch

```
PS F:\Cognizant DeepSkilling\Weekly Exercises\Week-8> git push origin GitNewBranch
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 12 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (5/5), 485 bytes | 485.00 KiB/s, done.
Total 5 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
remote:
remote: Create a pull request for 'GitNewBranch' on GitHub by visiting:
remote:   https://github.com/Harsha0431/Cognizant-Digital-Nurture-4.0-JavaFSE-Exercises/pull/new/GitNewBranch
remote:
To https://github.com/Harsha0431/Cognizant-Digital-Nurture-4.0-JavaFSE-Exercises.git
 * [new branch]      GitNewBranch -> GitNewBranch
PS F:\Cognizant DeepSkilling\Weekly Exercises\Week-8> |
```

Merging

Switched to master or main branch

```

PS F:\Cognizant DeepSkillig\Weekly Exercises\Week-8> git branch
* GitNewBranch
  main
PS F:\Cognizant DeepSkillig\Weekly Exercises\Week-8> git switch main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
PS F:\Cognizant DeepSkillig\Weekly Exercises\Week-8> git branch
  GitNewBranch
* main

```

List out all the differences between main and new branch

```

PS F:\Cognizant DeepSkillig\Weekly Exercises\Week-8> git diff main..GitNewBranch
diff --git a/Week-8/HOL-3/README.md b/Week-8/HOL-3/README.md
new file mode 100644
index 0000000..3113a97
--- /dev/null
+++ b/Week-8/HOL-3/README.md
@@ -0,0 +1 @@
+Created new branch 'GitNewBranch' and committed this file in this new branch. Then, merged this new branch in main.
\ No newline at end of file
PS F:\Cognizant DeepSkillig\Weekly Exercises\Week-8> |

```

```

PS F:\Cognizant DeepSkillig\Weekly Exercises\Week-8> git diff --stat main..GitNewBranch
Week-8/HOL-3/README.md | 1 +
1 file changed, 1 insertion(+)
PS F:\Cognizant DeepSkillig\Weekly Exercises\Week-8> |

```

Merging new branch to main

```

PS F:\Cognizant DeepSkillig\Weekly Exercises\Week-8> git merge GitNewBranch
Updating 6a6e3d5..55372cf
Fast-forward
 Week-8/HOL-3/README.md | 1 +
1 file changed, 1 insertion(+)
create mode 100644 Week-8/HOL-3/README.md

```

Deleting newly created branch

```

PS F:\Cognizant DeepSkillig\Weekly Exercises\Week-8> git branch
  GitNewBranch
* main
PS F:\Cognizant DeepSkillig\Weekly Exercises\Week-8> git branch -d GitNewBranch
Deleted branch GitNewBranch (was 55372cf).
PS F:\Cognizant DeepSkillig\Weekly Exercises\Week-8> git branch
* main
PS F:\Cognizant DeepSkillig\Weekly Exercises\Week-8> |

```