WEEK 8 EXERCISES

Hands On 1

```
Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8
$ mkdir GitDemo

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8
$ cd GitDemo

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo
$ git init
Initialized empty Git repository in E:/Cognizant/Weekly Excercise/Week8/GitDemo/.git
/

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (master)
$ echo "Welcome to Git Demo" >welcome.txt

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (master)
$ git add welcome.txt
warning: in the working copy of 'welcome.txt', LF will be replaced by CRLF the next
time Git touches it

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (master)
$ ^C

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (master)
$ git commit -m "Initial commit"
[master (root-commit) f4d7815] Initial commit
 1 file changed, 1 insertion(+)
 create mode 100644 welcome.txt

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (master)
$ git remote add origin https://github.com/Lakshanya-V-H/GitDemo.git

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (master)
$ git branch -M main

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (main)
$ git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 244 bytes | 244.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Lakshanya-V-H/GitDemo.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (main)
```
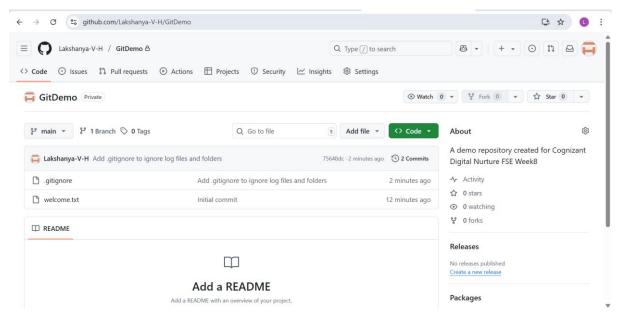
Lakshanya-V-H / **GitDemo** 🔒

Type / to search

<> Code   ⊙ Issues   ⇵ Pull requests   ⊙ Actions   ⊞ Projects   ⊘ Security   ⌁ Insights   ⚙ Settings

GitDemo Private

👁 Watch 0 ⌄   ⑂ Fork 0 ⌄   ☆ Star 0 ⌄

⑂ main ⌄   ⑂ 1 Branch   ⊘ 0 Tags

Go to file   t   Add file ⌄   <> Code ⌄

🚍 **Lakshanya-V-H** Initial commit

f4d7815 · 2 minutes ago   ⊙ **1 Commit**

📄 welcome.txt   Initial commit   2 minutes ago

📖 README

📖

Add a README

Add a README with an overview of your project.

Add a README

About

A demo repository created for Cognizant Digital Nurture FSE Week8

⩗ Activity
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⑂ 0 forks

Releases

No releases published
Create a new release

Packages

Hands On 2


```
Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/weekly Excercise/Week8/GitDemo (main)
$ echo "This is a sample log file" > error.log

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/weekly Excercise/Week8/GitDemo (main)
$ mkdir log

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/weekly Excercise/Week8/GitDemo (main)
$ echo "Folder test" > log/test.txt

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/weekly Excercise/Week8/GitDemo (main)
$ touch .gitignore

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/weekly Excercise/Week8/GitDemo (main)
$ notepad .gitignore

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/weekly Excercise/Week8/GitDemo (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .gitignore

nothing added to commit but untracked files present (use "git add" to track)

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/weekly Excercise/Week8/GitDemo (main)
$ git add .gitignore

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/weekly Excercise/Week8/GitDemo (main)
$ git commit -m "Add .gitignore to ignore log files and folders"
[main 75648dc] Add .gitignore to ignore log files and folders
 1 file changed, 2 insertions(+)
 create mode 100644 .gitignore

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/weekly Excercise/Week8/GitDemo (main)
$ git check-ignore -v error.log
.gitignore:1:*.log      error.log

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/weekly Excercise/Week8/GitDemo (main)
$
```

Hands On 3

```
Lak@LAPTOP-CJVVBOA4 MINGW64 ~
$ git config --global diff.tool p4merge

Lak@LAPTOP-CJVVBOA4 MINGW64 ~
$ git config --global difftool.p4merge.path "D:\P4Merge\p4vinst64.exe"

Lak@LAPTOP-CJVVBOA4 MINGW64 ~
$ git config --global merge.tool p4merge

Lak@LAPTOP-CJVVBOA4 MINGW64 ~
$ git config --global mergetool.p4merge.path "D:\P4Merge\p4vinst64.exe"

Lak@LAPTOP-CJVVBOA4 MINGW64 ~
$ git config --global --get diff.tool
p4merge

Lak@LAPTOP-CJVVBOA4 MINGW64 ~
$ git config --global --get merge.tool
p4merge

Lak@LAPTOP-CJVVBOA4 MINGW64 ~
$ git config --global --list | grep p4merge
diff.tool=p4merge
difftool.p4merge.path=D:\P4Merge\p4vinst64.exe
merge.tool=p4merge
mergetool.p4merge.path=D:\P4Merge\p4vinst64.exe

Lak@LAPTOP-CJVVBOA4 MINGW64 ~
$ |
```

```
MINGW64:/e/Cognizant/Weekly Excercise/Week8/GitDemo                                      —    □    ✕

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/week8
$ cd GitDemo

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/week8/GitDemo (main)
$ git rev-parse --is-inside-work-tree
true

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/weekly Excercise/week8/GitDemo (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/week8/GitDemo (main)
$ git branch --show-current
main

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/week8/GitDemo (main)
$ git checkout -b GitNewBranch
Switched to a new branch 'GitNewBranch'

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/week8/GitDemo (GitNewBranc
h)
$ git branch -a
* GitNewBranch
  main
  remotes/origin/main

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/weekly Excercise/week8/GitDemo (GitNewBranc
h)
$ echo "This file lives on GitNewBranch" > branchfile.txt

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/weekly Excercise/week8/GitDemo (GitNewBranc
h)
$ git add branchfile.txt
warning: in the working copy of 'branchfile.txt', LF will be replaced by CRLF the ne
xt time Git touches it

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/weekly Excercise/week8/GitDemo (GitNewBranc
h)
$ git commit -m "Add branchfile.txt in GitNewBranch"
[GitNewBranch 8980d29] Add branchfile.txt in GitNewBranch
 1 file changed, 1 insertion(+)
 create mode 100644 branchfile.txt

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/week8/GitDemo (GitNewBranc
```

```
MINGW64:/e/Cognizant/Weekly Excercise/Week8/GitDemo                                      —    □    ✕

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/weekly Excercise/week8/GitDemo (GitNewBranc
h)
$ git status
On branch GitNewBranch
nothing to commit, working tree clean

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/weekly Excercise/week8/GitDemo (GitNewBranc
h)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/week8/GitDemo (main)
$ git diff main..GitNewBranch
diff --git a/branchfile.txt b/branchfile.txt
new file mode 100644
index 0000000..7642f1d
--- /dev/null
+++ b/branchfile.txt
@@ -0,0 +1 @@
+This file lives on GitNewBranch

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/weekly Excercise/week8/GitDemo (main)
$ git difftool main..GitNewBranch

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

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/weekly Excercise/week8/GitDemo (main)
$ git merge GitNewBranch
Updating 75648dc..8980d29
Fast-forward
 branchfile.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 branchfile.txt

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/weekly Excercise/week8/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

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/week8/GitDemo (main)
$ git log --online --graph --decorate --all
fatal: unrecognized argument: --online
```

```
Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (main)
$ git log --oneline --graph --decorate --all
* 8980d29 (HEAD -> main, GitNewBranch) Add branchfile.txt in GitNewBranch
* 75648dc (origin/main) Add .gitignore to ignore log files and folders
* f4d7815 Initial commit

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (main)
$ git branch -d GitNewBranch
Deleted branch GitNewBranch (was 8980d29).

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/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

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (main)
$ git branch -a
* main
  remotes/origin/main

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (main)
$ git log --oneline --graph --decorate -n 20
* 8980d29 (HEAD -> main) Add branchfile.txt in GitNewBranch
* 75648dc (origin/main) Add .gitignore to ignore log files and folders
* f4d7815 Initial commit

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (main)
$ |
```

Hands On 4


```
Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (main)
$ git checkout main
Already on 'main'
Your branch is up to date with 'origin/main'.

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (main)
$ git checkout -b GitWork
Switched to a new branch 'GitWork'

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (GitWork)
$ echo "<message>Hello from GitWork</message>" > hello.xml

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (GitWork)
$ echo "<message>Updated content in GitWork branch</message>" > hello.xml
git status
On branch GitWork
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        hello.xml

nothing added to commit but untracked files present (use "git add" to track)

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (GitWork)
$ git add hello.xml
warning: in the working copy of 'hello.xml', LF will be replaced by CRLF the next ti
me Git touches it

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (GitWork)
$ git commit -m "Add hello.xml in GitWork branch"
[GitWork 6f911ad] Add hello.xml in GitWork branch
 1 file changed, 1 insertion(+)
 create mode 100644 hello.xml

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (GitWork)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (main)
$ echo "<message>Hello from main branch</message>" > hello.xml
```



```
Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (main)
$ git add hello.xml
warning: in the working copy of 'hello.xml', LF will be replaced by CRLF the next ti
me Git touches it

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (main)
$ git commit -m "Add hello.xml in main branch"
[main 5daf940] Add hello.xml in main branch
 1 file changed, 1 insertion(+)
 create mode 100644 hello.xml

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (main)
$

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (main)
$ git log --oneline --graph --decorate --all
* 5daf940 (HEAD -> main) Add hello.xml in main branch
| * 6f911ad (GitWork) Add hello.xml in GitWork branch
|/
* 8980d29 (origin/main) Add branchfile.txt in GitNewBranch
* 75648dc Add .gitignore to ignore log files and folders
* f4d7815 Initial commit

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (main)
$ git diff main GitWork
diff --git a/hello.xml b/hello.xml
index dc8ea3d..ebf1841 100644
--- a/hello.xml
+++ b/hello.xml
@@ -1 +1 @@
-<message>Hello from main branch</message>
+<message>Updated content in GitWork branch</message>

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (main)
$ git merge GitWork
Auto-merging hello.xml
CONFLICT (add/add): Merge conflict in hello.xml
Automatic merge failed; fix conflicts and then commit the result.

Lak@LAPTOP-CJVVBOA4 MINGW64 /e/Cognizant/Weekly Excercise/Week8/GitDemo (main|MERGIN
G)
$ cat hello.xml
<<<<<<< HEAD
<message>Hello from main branch</message>
=======
<message>Updated content in GitWork branch</message>
>>>>>>> GitWork
```