Please follow the instructions to complete the hands-on. This file contains all the screenshots of hands on labs outputs.

1. Verify if master is in clean state.

```
ujwalhiranwar@zenetsu15:~/Documents/code/GitDemo$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
```

2. Create a branch "GitWork". Add a file "hello.xml".

```
ujwalhiranwar@zenetsu15:~/Documents/code/GitDemo$ git status
On branch GitWork
Changes to be committed:
   (use "git restore --staged <file>..." to unstage)
        new file: hello.xml
```

3. Update the content of "hello.xml" and observe the status

```
ujwalhiranwar@zenetsu15:~/Documents/code/GitDemo$ git status
On branch GitWork
Changes to be committed:
   (use "git restore --staged <file>..." to unstage)
        new file: hello.xml

Changes not staged for commit:
   (use "git add <file>..." to update what will be committed)
   (use "git restore <file>..." to discard changes in working directory)
        modified: hello.xml
```

4. Commit the changes to reflect in the branch

```
ujwalhiranwar@zenetsu15:~/Documents/code/GitDemo$ git commit -m "commited changes"
[GitWork daba26b] commited changes
1 file changed, 1 insertion(+)
create mode 100644 hello.xml
```

5. Add a file "hello.xml" to the master and add some different content than previous.

```
ujwalhiranwar@zenetsu15:~/Documents/code/GitDemo$ git status
On branch main
Changes to be committed:
   (use "git restore --staged <file>..." to unstage)
        new file: hello.xml
```

6. Commit the changes to the master

```
ujwalhiranwar@zenetsu15:~/Documents/code/GitDemo$ git commit -m "changes commited to master"
[main dcfc8a7] changes commited to master
1 file changed, 1 insertion(+)
create mode 100644 hello.xml
```

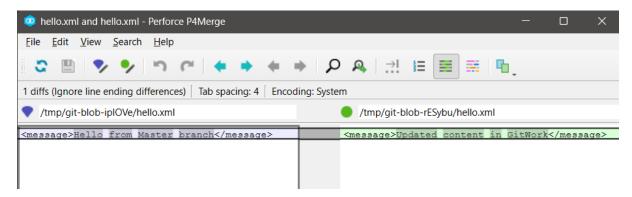
7. Observe the log by executing "git log --oneline --graph --decorate"

```
ujwalhiranwar@zenetsu15:~/Documents/code/GitDemo$ git log --oneline --graph --decorate
* dcfc8a7 (HEAD -> main) changes committed to master
* 54d4215 changes made
* bb21dda Edit welcome.txt
* 37cf3ce committed
* 630d214 Edit README.md
* 96cf604 Edit README.md
* f104c3f Initial commit
```

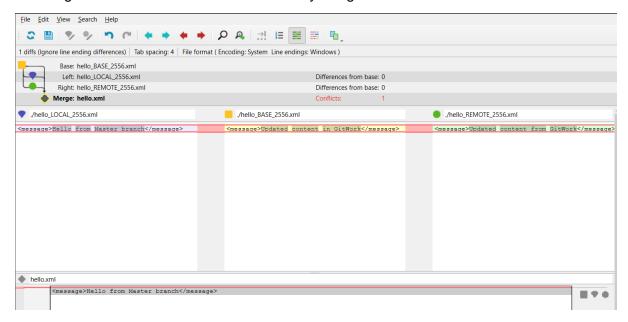
8. Check the differences with Git diff tool

```
ujwalhiranwar@zenetsu15:~/Documents/code/GitDemo$ git diff main GitWork
diff --git a/hello.xml b/hello.xml
index 7feff86..7bb41e7 100644
--- a/hello.xml
+++ b/hello.xml
@@ -1 +1 @@
-<message>Hello from Master branch</message>
+<message>Updated content in GitWork</message>
```

9. For better visualization, use P4Merge tool to list out all the differences between master and branch



10. Merge the branch to the master Use 3-way merge tool to resolve the conflict.



11. Commit the changes to the master, once done with conflict

```
ujwalhiranwar@zenetsu15:~/Documents/code/GitDemo$ git commit -m "commited in main" [main cfa4e28] commited in main
1 file changed, 2 insertions(+), 2 deletions(-)
```

12. Observe the git status and add backup file to the .gitignore file.

```
ujwalhiranwar@zenetsu15:~/Documents/code/GitDemo$ git status
On branch main
nothing to commit, working tree clean
ujwalhiranwar@zenetsu15:~/Documents/code/GitDemo$ echo "*.bak" >> .gitignore
```

13. Commit the changes to the .gitignore

```
ujwalhiranwar@zenetsu15:~/Documents/code/GitDemo$ git add .
ujwalhiranwar@zenetsu15:~/Documents/code/GitDemo$ git commit -m "recent changes commited"
[main f581e0f] recent changes commited
1 file changed, 1 insertion(+)
create mode 100644 .gitignore
```

14. List out all the available branches

```
ujwalhiranwar@zenetsu15:~/Documents/code/GitDemo$ git branch -a
   GitWork
* main
ujwalhiranwar@zenetsu15:~/Documents/code/GitDemo$ |
```

15. Delete the branch, which merge to master.

```
ujwalhiranwar@zenetsu15:~/Documents/code/GitDemo$ git branch -d GitWork Deleted branch GitWork (was 982c465).
ujwalhiranwar@zenetsu15:~/Documents/code/GitDemo$ |
```

16. Observe the log by executing "git log --oneline --graph --decorate"

```
ujwalhiranwar@zenetsu15:~/Documents/code/GitDemo$ git log --oneline --graph --decorate
* f581e0f (HEAD -> main) recent changes commited
* cfa4e28 commited in main
* d28f8f3 commited in main
|
| * 982c465 changed it
* | 07fb066 commited
| |
| * daba26b commited changes
* | dcfc8a7 changes commited to master
|//
* 54d4215 changes made
* bb21dda Edit welcome.txt
* 37cf3ce commited
* 630d214 Edit README.md
* 96cf604 Edit README.md
* f104c3f Initial commit
```