Week 8 GIT EX 4

1. go to repository folder

cd ~/GitDemo

2. switch to master and check status

git checkout master
git status

3. create and switch to a new branch

git branch GitWork git checkout GitWork

4. add hello.xml in the branch

echo "<message>hello from branch</message>" > hello.xml
git add hello.xml
git commit -m "added hello.xml in GitWork branch"

5. update hello.xml in the branch

echo "<message>updated in branch</message>" > hello.xml
git add hello.xml
git commit -m "updated hello.xml in GitWork branch"

6. switch to master

git checkout master

7. add a different hello.xml in master

echo "<message>different content from master</message>" > hello.xml
git add hello.xml
git commit -m "added hello.xml in master"

8. check commit history

```
git log --oneline --graph --decorate --all
```

9. show differences between master and branch

10. merge branch into master (will cause conflict)

git merge GitWork

11. resolve conflict

```
notepad++ hello.xml
```

(edit file to remove conflict markers, save and close)

12. stage and commit after resolving

```
git add hello.xml
git commit -m "resolved merge conflict in hello.xml"
```

13. add backup file to .gitignore if needed

```
notepad++ .gitignore
```

(add backup file name or pattern, save and close)

```
git add .gitignore
git commit -m "added backup file to .gitignore"
```

14. delete the merged branch

git branch -d GitWork

15. view final log

git log --oneline --graph --decorate

```
new file mode 100644
index 0000000..0d1b9aa
   /dev/null
+++ b/hello.xml
@ -0.0 +1 @@
+<message>different content from master</message>
NO@DESKTOP-3CSNJRQ MINGW64 ~/GitDemo (GitWork)
$ git merge GitWork
Already up to date.
NO@DESKTOP-3CSNJRQ MINGW64 ~/GitDemo (GitWork)
$ notepad++ hello.xml
NO@DESKTOP-3CSNJRQ MINGW64 ~/GitDemo (GitWork)
$ git add hello.xml
NO@DESKTOP-3CSNJRQ MINGW64 ~/GitDemo (GitWork)
$ git commit -m "resolved merge conflict in hello.xml"
On branch GitWork
nothing to commit, working tree clean
NO@DESKTOP-3CSNJRQ MINGW64 ~/GitDemo (GitWork)
$ notepad++ .gitignore
NO@DESKTOP-3CSNJRQ MINGW64 ~/GitDemo (GitWork)
$ git add .gitignore
NO@DESKTOP-3CSNJRQ MINGW64 ~/GitDemo (GitWork)
$ git commit -m "added backup file to .gitignore"
On branch GitWork
nothing to commit, working tree clean
NO@DESKTOP-3CSNJRQ MINGW64 ~/GitDemo (GitWork)
$ git branch -d GitWork
error: cannot delete branch 'GitWork' used by worktree at 'C:/Users/DK
/GitDemo'
NO@DESKTOP-3CSNJRQ MINGW64 ~/GitDemo (GitWork)
$ git log --oneline --graph --decorate
  973877e (HEAD -> GitWork) added hello.xml in master
 5680a88 updated hello.xml in GitWork branch
  1d31fa6 added hello.xml in GitWork branch
  4212494 (origin/master, master) added branchfile.txt in GitNewBranch
  1523963 ignore log files and log folder
  1629148 updated welcome.txt
  3d322d4 added welcome.txt
NO@DESKTOP-3CSNJRQ MINGW64 ~/GitDemo (GitWork)
```