**Week 8 GIT EX 4**

# go to repository folder

cd ~/GitDemo

# switch to master and check status

git checkout master git status

# create and switch to a new branch

git branch GitWork git checkout GitWork

1. **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"

1. **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"

# switch to master

git checkout master

1. **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"

# check commit history

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

# show differences between master and branch

git diff master GitWork

# merge branch into master (will cause conflict)

git merge GitWork

# resolve conflict

notepad++ hello.xml

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

# stage and commit after resolving

git add hello.xml

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

1. **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"

# delete the merged branch

git branch -d GitWork

# view final log

git log --oneline --graph --decorate

**OUTPUT**

