**4. Git-HOL**

C:\Users\Aswin S>mkdir git-conflict-demo

C:\Users\Aswin S>cd git-conflict-demo

C:\Users\Aswin S\git-conflict-demo>git init

Initialized empty Git repository in C:/Users/Aswin S/git-conflict-demo/.git/

C:\Users\Aswin S\git-conflict-demo>git config user.name "Aswin S"

C:\Users\Aswin S\git-conflict-demo>git config user.email "aswinsaraj@gmail.com"

C:\Users\Aswin S\git-conflict-demo>echo "# Demo repo" > README.md

C:\Users\Aswin S\git-conflict-demo>git add README.md

C:\Users\Aswin S\git-conflict-demo>git commit -m "Initial commit"

[master (root-commit) 54d25ae] Initial commit

1 file changed, 1 insertion(+)

create mode 100644 README.md

C:\Users\Aswin S\git-conflict-demo>git checkout -b GitWork

Switched to a new branch 'GitWork'

C:\Users\Aswin S\git-conflict-demo>echo ^<greeting^> > hello.xml

C:\Users\Aswin S\git-conflict-demo>echo ^<text^>Hello from GitWork branch^</text^> >> hello.xml

C:\Users\Aswin S\git-conflict-demo>echo ^</greeting^> >> hello.xml

C:\Users\Aswin S\git-conflict-demo>git add hello.xml

C:\Users\Aswin S\git-conflict-demo>git commit -m "Add hello.xml on GitWork branch"

[GitWork 9228cd4] Add hello.xml on GitWork branch

1 file changed, 3 insertions(+)

create mode 100644 hello.xml

C:\Users\Aswin S\git-conflict-demo>echo ^<text^>Hello from GitWork branch - update 1^</text^> > hello.xml

C:\Users\Aswin S\git-conflict-demo>git add hello.xml

C:\Users\Aswin S\git-conflict-demo>git commit -m "Update hello.xml in GitWork branch"

[GitWork b14d2b6] Update hello.xml in GitWork branch

1 file changed, 1 insertion(+), 3 deletions(-)

C:\Users\Aswin S\git-conflict-demo>git checkout master

Switched to branch 'master'

C:\Users\Aswin S\git-conflict-demo>echo ^<greeting^> > hello.xml

C:\Users\Aswin S\git-conflict-demo>echo ^<text^>Hello from master branch - different content^</text^> >> hello.xml

C:\Users\Aswin S\git-conflict-demo>echo ^</greeting^> >> hello.xml

C:\Users\Aswin S\git-conflict-demo>git add hello.xml

C:\Users\Aswin S\git-conflict-demo>git commit -m "Add hello.xml in master with different content"

[master 6d8918f] Add hello.xml in master with different content

1 file changed, 3 insertions(+)

create mode 100644 hello.xml

C:\Users\Aswin S\git-conflict-demo>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.

C:\Users\Aswin S\git-conflict-demo>git config --global merge.tool p4merge

C:\Users\Aswin S\git-conflict-demo>git config --global mergetool.p4merge.path "C:/Program Files/Perforce/p4merge.exe"

C:\Users\Aswin S\git-conflict-demo>git config --global mergetool.keepBackup false

C:\Users\Aswin S\git-conflict-demo>git mergetool

Merging:

hello.xml

Normal merge conflict for 'hello.xml':

{local}: created file

{remote}: created file

Launch 'p4merge'...

Merge completed successfully.

C:\Users\Aswin S\git-conflict-demo>git add hello.xml

C:\Users\Aswin S\git-conflict-demo>git commit -m "Merge GitWork into master - resolved conflict via P4Merge"

[master 1302259] Merge GitWork into master - resolved conflict via P4Merge

C:\Users\Aswin S\git-conflict-demo>echo \*.orig > .gitignore

C:\Users\Aswin S\git-conflict-demo>git add .gitignore

C:\Users\Aswin S\git-conflict-demo>git commit -m "Ignore merge backup files"

[master 2abf3e1] Ignore merge backup files

1 file changed, 1 insertion(+)

create mode 100644 .gitignore

C:\Users\Aswin S\git-conflict-demo>git branch -d GitWork

Deleted branch GitWork (was b14d2b6).

C:\Users\Aswin S\git-conflict-demo>git log --oneline --graph --decorate

\* 2abf3e1 (HEAD -> master) Ignore merge backup files

\* 1302259 Merge GitWork into master - resolved conflict via P4Merge

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| \* b14d2b6 Update hello.xml in GitWork branch

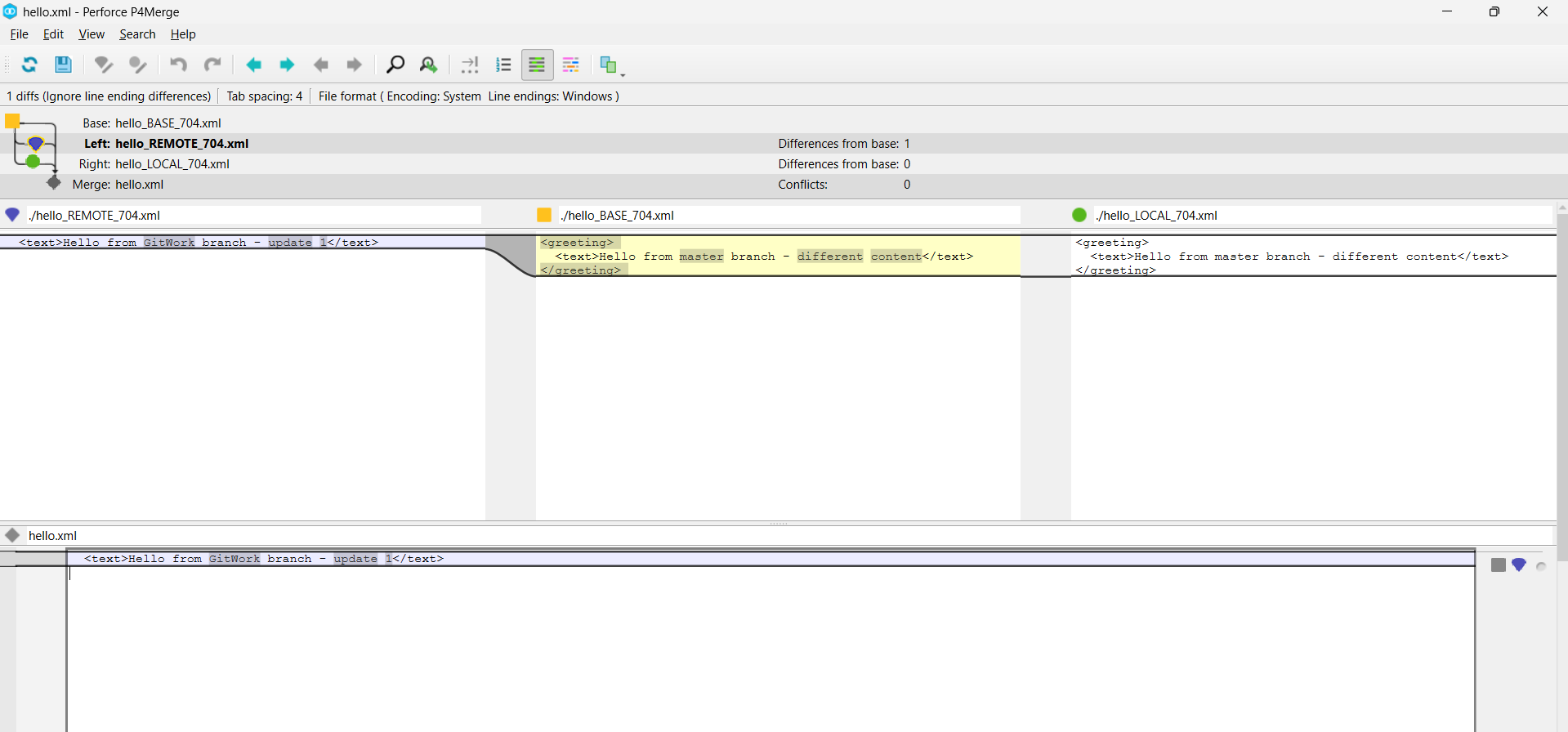
| \* 9228cd4 Add hello.xml on GitWork branch

\* | 6d8918f Add hello.xml in master with different content

|/

\* 54d25ae Initial commit

**OUTPUT:**

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