**GIT HOL 4:**

**Visit(master branch):** https://gitlab.com/apahari0231/gitdemo.git

**The instructions were executed as told:**PS C:\Users\arnab> cd D:\GitDemo

PS D:\GitDemo> git checkout master

Already on 'master'

Your branch is up to date with 'origin/master'.

PS D:\GitDemo> git checkout -b GitWork

Switched to a new branch 'GitWork'

PS D:\GitDemo> echo "<message>Hello from GitWork branch</message>" > hello.xml

PS D:\GitDemo> echo "<note>Updated content in GitWork branch</note>" >> hello.xml

PS D:\GitDemo> 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)

PS D:\GitDemo> git add hello.xml

PS D:\GitDemo> git commit -m "Added and updated hello.xml in GitWork branch"

[GitWork c291f74] Added and updated hello.xml in GitWork branch

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 hello.xml

PS D:\GitDemo> git checkout master

Switched to branch 'master'

Your branch is up to date with 'origin/master'.

PS D:\GitDemo> echo "<note>This is a different hello.xml in master</note>" > hello.xml

PS D:\GitDemo> git add hello.xml

PS D:\GitDemo> git commit -m "Added hello.xml with different content in master"

[master f0ecb28] Added hello.xml with different content in master

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 hello.xml

PS D:\GitDemo> git log --oneline --graph --decorate --all

\* f0ecb28 (HEAD -> master) Added hello.xml with different content in master

| \* c291f74 (GitWork) Added and updated hello.xml in GitWork branch

|/

\* f4a00be (origin/master) Edited GITHOL3.txt in master

\* af14181 Added newfile.txt in GitNewBranch

\* 8c14aa8 Ignore .log files and log folder

\* c9e8d06 Initial commit

PS D:\GitDemo> git diff GitWork

diff --git a/hello.xml b/hello.xml

index ce148f5..ffe7c51 100644

Binary files a/hello.xml and b/hello.xml differ

PS D:\GitDemo> git difftool GitWork

Viewing (1/1): 'hello.xml'

Launch 'p4merge' [Y/n]? Y

/mingw64/libexec/git-core/git-mergetool--lib: line 172: C:/Program: No such file or directory

fatal: external diff died, stopping at hello.xml

PS D:\GitDemo> git difftool GitWork

Viewing (1/1): 'hello.xml'

Launch 'p4merge' [Y/n]? Y

PS D:\GitDemo> git merge GitWork

warning: Cannot merge binary files: hello.xml (HEAD vs. GitWork)

Auto-merging hello.xml

CONFLICT (add/add): Merge conflict in hello.xml

Automatic merge failed; fix conflicts and then commit the result.

PS D:\GitDemo> git mergetool

Merging:

hello.xml

Normal merge conflict for 'hello.xml':

{local}: created file

{remote}: created file

/mingw64/libexec/git-core/git-mergetool--lib: line 176: C:/Program: No such file or directory

merge of hello.xml failed

PS D:\GitDemo> git mergetool

Merging:

hello.xml

Normal merge conflict for 'hello.xml':

{local}: created file

{remote}: created file

PS D:\GitDemo> git status

On branch master

Your branch is ahead of 'origin/master' by 1 commit.

(use "git push" to publish your local commits)

All conflicts fixed but you are still merging.

(use "git commit" to conclude merge)

Changes to be committed:

modified: hello.xml

Untracked files:

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

hello.xml.orig

PS D:\GitDemo> git commit -m "Resolved merge conflict in hello.xml using P4Merge"

[master 6ea6a1e] Resolved merge conflict in hello.xml using P4Merge

PS D:\GitDemo> git log --oneline --graph --decorate --all

\* 6ea6a1e (HEAD -> master) Resolved merge conflict in hello.xml using P4Merge

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| \* c291f74 (GitWork) Added and updated hello.xml in GitWork branch

\* | f0ecb28 Added hello.xml with different content in master

|/

\* f4a00be (origin/master) Edited GITHOL3.txt in master

\* af14181 Added newfile.txt in GitNewBranch

\* 8c14aa8 Ignore .log files and log folder

\* c9e8d06 Initial commit

PS D:\GitDemo> git status

On branch master

Your branch is ahead of 'origin/master' by 3 commits.

(use "git push" to publish your local commits)

Untracked files:

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

hello.xml.orig

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

PS D:\GitDemo> echo "\*.orig" >> .gitignore

PS D:\GitDemo> git add .gitignore

PS D:\GitDemo> git commit -m "Ignore backup files (\*.orig) via .gitignore"

[master bc61a0c] Ignore backup files (\*.orig) via .gitignore

1 file changed, 0 insertions(+), 0 deletions(-)

PS D:\GitDemo> git branch

GitWork

\* master

PS D:\GitDemo> git branch -d GitWork

Deleted branch GitWork (was c291f74).

PS D:\GitDemo> git log --oneline --graph --decorate

\* bc61a0c (HEAD -> master) Ignore backup files (\*.orig) via .gitignore

\* 6ea6a1e Resolved merge conflict in hello.xml using P4Merge

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| \* c291f74 Added and updated hello.xml in GitWork branch

\* | f0ecb28 Added hello.xml with different content in master

|/

\* f4a00be (origin/master) Edited GITHOL3.txt in master

\* af14181 Added newfile.txt in GitNewBranch

\* 8c14aa8 Ignore .log files and log folder

\* c9e8d06 Initial commit