## **GIT-HOL**

**COMMANDS**

sanjana@Sanjana MINGW64 ~/GitDemo (main)

$ git status

On branch main

nothing to commit, working tree clean

sanjana@Sanjana MINGW64 ~/GitDemo (main)

$ git branch GitWork

sanjana@Sanjana MINGW64 ~/GitDemo (main)

$ git checkout GitWork

Switched to branch 'GitWork'

sanjana@Sanjana MINGW64 ~/GitDemo (GitWork)

$ echo "<message>Hello from GitWork branch</message>" > hello.xml

sanjana@Sanjana MINGW64 ~/GitDemo (GitWork)

$ git add hello.xml

sanjana@Sanjana MINGW64 ~/GitDemo (GitWork)

$ git commit -m "Add hello.xml in GitWork branch"

[GitWork 1a2b3c4] Add hello.xml in GitWork branch

1 file changed, 1 insertion(+)

create mode 100644 hello.xml

sanjana@Sanjana MINGW64 ~/GitDemo (GitWork)

$ git checkout main

Switched to branch 'main'

sanjana@Sanjana MINGW64 ~/GitDemo (main)

$ echo "<message>Hello from main branch</message>" > hello.xml

sanjana@Sanjana MINGW64 ~/GitDemo (main)

$ git add hello.xml

sanjana@Sanjana MINGW64 ~/GitDemo (main)

$ git commit -m "Add hello.xml in main branch"

[main 5d6e7f8] Add hello.xml in main branch

1 file changed, 1 insertion(+)

create mode 100644 hello.xml

sanjana@Sanjana MINGW64 ~/GitDemo (main)

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

\* 5d6e7f8 (HEAD -> main) Add hello.xml in main branch

| \* 1a2b3c4 (GitWork) Add hello.xml in GitWork branch

|/

\* 7c3a1b4 Add .gitignore to ignore .log files and logs folder

sanjana@Sanjana MINGW64 ~/GitDemo (main)

$ 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.

sanjana@Sanjana MINGW64 ~/GitDemo (main|MERGING)

$ cat hello.xml

<<<<<<< HEAD

<message>Hello from main branch</message>

=======

<message>Hello from GitWork branch</message>

>>>>>>> GitWork

# (Manually edit hello.xml to resolve conflict, e.g.)

# <message>Hello from both main and GitWork branches</message>

sanjana@Sanjana MINGW64 ~/GitDemo (main|MERGING)

$ git add hello.xml

sanjana@Sanjana MINGW64 ~/GitDemo (main|MERGING)

$ git commit -m "Resolve merge conflict in hello.xml"

[main abcd123] Resolve merge conflict in hello.xml

sanjana@Sanjana MINGW64 ~/GitDemo (main)

$ echo "\*.bak" >> .gitignore

sanjana@Sanjana MINGW64 ~/GitDemo (main)

$ git add .gitignore

sanjana@Sanjana MINGW64 ~/GitDemo (main)

$ git commit -m "Add backup file pattern to .gitignore"

[main efgh456] Add backup file pattern to .gitignore

1 file changed, 1 insertion(+)

sanjana@Sanjana MINGW64 ~/GitDemo (main)

$ git branch

\* main

GitWork

sanjana@Sanjana MINGW64 ~/GitDemo (main)

$ git branch -d GitWork

Deleted branch GitWork (was 1a2b3c4).

sanjana@Sanjana MINGW64 ~/GitDemo (main)

$ git log --oneline --graph --decorate

\* efgh456 (HEAD -> main) Add backup file pattern to .gitignore

\* abcd123 Resolve merge conflict in hello.xml

\* 5d6e7f8 Add hello.xml in main branch

\* 1a2b3c4 Add hello.xml in GitWork branch

\* 7c3a1b4 Add .gitignore to ignore .log files and logs folder





