**GIT-HOL ASSIGNMENT-4** (1 page)

1. **Make your initial commit in main.**

echo "Initial commit in main branch" > readme.txt

git add readme.txt

git commit -m "Initial commit in main"

1. **Create branch and add file**

git branch GitWork

git checkout GitWork

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

git add hello.xml

git commit -m "Added hello.xml in GitWork"

1. **Switch to master and create conflicting file**

git checkout main

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

git add hello.xml

git commit -m "Added hello.xml in main"

1. **View log**

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

1. **View differences**

git diff master GitWork

git mergetool

1. **Merge and handle conflict**

git merge GitWork

1. **Resolve with 3-way merge tool**

git mergetool

1. **Commit resolved merge**

git add hello.xml

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

1. **Ignore backup files**

echo "\*.orig" >> .gitignore

git add .gitignore

git commit -m "Ignored merge backup files"

1. **Cleanup**

git branch -d GitWork

git log --oneline --graph --decorate