Hands-on 3: Resolving Merge Conflicts in Git

$ git status

On branch master  
nothing to commit, working tree clean

$ git checkout -b GitWork

Switched to a new branch 'GitWork'

$ git add hello.xml

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

[GitWork (root-commit) abc1234] Added hello.xml in GitWork branch  
 1 file changed, 1 insertion(+)  
 create mode 100644 hello.xml

$ git checkout master

Switched to branch 'master'

$ git add hello.xml

$ git commit -m "Added hello.xml with different content in master"

[master abc5678] Added hello.xml with different content in master  
 1 file changed, 1 insertion(+)  
 create mode 100644 hello.xml

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

\* abc5678 (HEAD -> master) Added hello.xml with different content in master  
\* abc1234 (GitWork) Added hello.xml in GitWork branch

$ git diff GitWork

- <content in master>  
+ <content in GitWork>

$ git difftool GitWork

[P4Merge window opens showing differences]

$ git merge GitWork

Auto-merging hello.xml  
CONFLICT (content): Merge conflict in hello.xml  
Automatic merge failed; fix conflicts and then commit the result.

$ git mergetool

Merging:  
hello.xml  
Normal merge conflict for 'hello.xml':  
 {local}: modified file  
 {remote}: modified file

$ git add hello.xml

$ git commit -m "Resolved conflict in hello.xml and merged GitWork into master"

[master abc9012] Resolved conflict in hello.xml and merged GitWork into master

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

$ git add .gitignore

$ git commit -m "Added merge backup files to .gitignore"

[master abc3456] Added merge backup files to .gitignore

$ git branch

\* master  
 GitWork

$ git branch -d GitWork

Deleted branch GitWork (was abc1234).

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

\* abc3456 (HEAD -> master) Added merge backup files to .gitignore  
\* abc9012 Resolved conflict in hello.xml and merged GitWork into master  
\* abc5678 Added hello.xml with different content in master  
\* abc1234 Added hello.xml in GitWork branch