**GIT HOL 4 Solutions**

1. Verify if master is in clean state.
2. Create a branch **“GitWork”.** Add a file “hello.xml”.
3. Update the content of “hello.xml” and observe the status
4. Commit the changes to reflect in the branch
5. Switch to master.
6. Add a file **“hello.xml”** to the master and add some different content than previous.
7. Commit the changes to the master
8. Observe the log by executing **“git log –oneline –graph –decorate –all”**
9. Check the differences with Git diff tool
10. For better visualization, use P4Merge tool to list out all the differences between master and branch
11. Merge the bran to the master
12. Observe the git mark up.
13. Use 3-way merge tool to resolve the conflict
14. Commit the changes to the master, once done with conflict
15. Observe the git status and add backup file to the .gitignore file.
16. Commit the changes to the .gitignore
17. List out all the available branches
18. Delete the branch, which merge to master.
19. Observe the log by executing **“git log –oneline –graph –decorate”**

**Solutions:**

1. git checkout master

git status

2. git branch GitWork

git checkout GitWork

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

git add hello.xml

3. echo "<message>Updated content in branch</message>" > hello.xml

git status

4. git commit -am "Updated hello.xml in GitWork branch"

5. git checkout master

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

git add hello.xml

7. git commit -m "Added hello.xml in master"

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

9. git diff master GitWork

10. git mergetool

11. git merge GitWork

12. <<<<<<< HEAD

<message>Hello from master</message>

=======

<message>Updated content in branch</message>

>>>>>>> GitWork

13. git mergetool

14. git add hello.xml

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

15. git status

echo "\*.orig" >> .gitignore

16. git add .gitignore

git commit -m "Added backup file pattern to .gitignore"

17. git branch

18. git branch -d GitWork

19. git log --oneline --graph --decorate