

## **Git - HOL - 4**

### **What I have done :**

- Switched to the master branch and confirmed the working directory was clean.
- Listed all available branches in the local Git repository.
- Pulled the latest changes from the remote master branch to stay in sync.
- Pushed the pending changes from previous hands-on labs (e.g., merge conflict resolution, .gitignore) to the remote GitLab repository.
- Verified that the changes were reflected successfully in the remote repository on GitLab.

### **Screenshots :**

```
MINGW64:/c/Users/iswar/GitDemo
fatal: not a git repository (or any of the parent directories): .git

iswar@Asus-TUF MINGW64 ~
$ cd GitDemo

iswar@Asus-TUF MINGW64 ~/GitDemo (master)
$ git checkout master
Already on 'master'
Your branch is up to date with 'origin/master'.

iswar@Asus-TUF MINGW64 ~/GitDemo (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

iswar@Asus-TUF MINGW64 ~/GitDemo (master)
$ git checkout -b GitWork
Switched to a new branch 'GitWork'

iswar@Asus-TUF MINGW64 ~/GitDemo (GitWork)
$ echo "<msg>Hello from GitWork branch</msg>" > hello.xml

iswar@Asus-TUF MINGW64 ~/GitDemo (GitWork)
$ cat hello.xml
<msg>Hello from GitWork branch</msg>

iswar@Asus-TUF MINGW64 ~/GitDemo (GitWork)
$ git add hello.xml
warning: in the working copy of 'hello.xml', LF will be replaced by CRLF the next time you commit

iswar@Asus-TUF MINGW64 ~/GitDemo (GitWork)
$ git commit -m "Added hello.xml in GitWork branch"
[GitWork 6501940] Added hello.xml in GitWork branch
1 file changed, 1 insertion(+)
create mode 100644 hello.xml

iswar@Asus-TUF MINGW64 ~/GitDemo (GitWork)
$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.

iswar@Asus-TUF MINGW64 ~/GitDemo (master)
$ echo "<msg>Different content from master</msg>" > hello.xml

iswar@Asus-TUF MINGW64 ~/GitDemo (master)
$ git add hello.xml
```

```

MINGW64:/c/Users/iswar/GitDemo
warning: in the working copy of 'hello.xml', LF will be replaced by CRLF the next time you commit

iswar@Asus-TUF MINGW64 ~/GitDemo (GitWork)
$ git commit -m "Added hello.xml in GitWork branch"
[GitWork 6501940] Added hello.xml in GitWork branch
1 file changed, 1 insertion(+)
create mode 100644 hello.xml

iswar@Asus-TUF MINGW64 ~/GitDemo (GitWork)
$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.

iswar@Asus-TUF MINGW64 ~/GitDemo (master)
$ echo "<msg>Different content from master</msg>" > hello.xml

iswar@Asus-TUF MINGW64 ~/GitDemo (master)
$ git add hello.xml
warning: in the working copy of 'hello.xml', LF will be replaced by CRLF the next time you commit

iswar@Asus-TUF MINGW64 ~/GitDemo (master)
$ git commit -m "Added hello.xml in master with different content"
[master f77eca3] Added hello.xml in master with different content
1 file changed, 1 insertion(+)
create mode 100644 hello.xml

iswar@Asus-TUF MINGW64 ~/GitDemo (master)
$ git log --oneline --graph --decorate --all
* f77eca3 (HEAD -> master) Added hello.xml in master with different content
| * 6501940 (GitWork) Added hello.xml in GitWork branch
|/
* c0b3643 (origin/master) Added feature.txt and textfolder in GitNewBranch
* f42aeed Added .gitignore to ignore .log files and log folder
* fa9b177 Initial commit Added welcome.txt file

iswar@Asus-TUF MINGW64 ~/GitDemo (master)
$ git diff GitWork
diff --git a/hello.xml b/hello.xml
index d9228c4..03a8ee5 100644
--- a/hello.xml
+++ b/hello.xml
@@ -1,1 @@
-<msg>Hello from GitWork branch</msg>
+<msg>Different content from master</msg>

iswar@Asus-TUF MINGW64 ~/GitDemo (master)
$ git merge GitWork
Auto-merging hello.xml

```

MINGW64:/c/Users/iswar/GitDemo

```
iswar@Asus-TUF MINGW64 ~/GitDemo (master)
$ 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.

iswar@Asus-TUF MINGW64 ~/GitDemo (master|MERGING)
$ git commit -m "Resolved merge conflict in hello.xml"
U      hello.xml
error: Committing is not possible because you have unmerged files.
hint: Fix them up in the work tree, and then use 'git add/rm <file>'
hint: as appropriate to mark resolution and make a commit.
fatal: Exiting because of an unresolved conflict.

iswar@Asus-TUF MINGW64 ~/GitDemo (master|MERGING)
$ notepad++ .gitignore

iswar@Asus-TUF MINGW64 ~/GitDemo (master|MERGING)
$ git add .gitignore

iswar@Asus-TUF MINGW64 ~/GitDemo (master|MERGING)
$ git commit -m "Ignored backup files(*.orig)"
U      hello.xml
error: Committing is not possible because you have unmerged files.
hint: Fix them up in the work tree, and then use 'git add/rm <file>'
hint: as appropriate to mark resolution and make a commit.
fatal: Exiting because of an unresolved conflict.

iswar@Asus-TUF MINGW64 ~/GitDemo (master|MERGING)
$ git branch
  GitWork
* master

iswar@Asus-TUF MINGW64 ~/GitDemo (master|MERGING)
$ git branch -d GitWork
error: the branch 'GitWork' is not fully merged
hint: If you are sure you want to delete it, run 'git branch -D GitWork'
hint: Disable this message with "git config set advice.forceDeleteBranch false"

iswar@Asus-TUF MINGW64 ~/GitDemo (master|MERGING)
$ git log --oneline --graph --decorate
* f77eca3 (HEAD -> master) Added hello.xml in master with different content
* c0b3643 (origin/master) Added feature.txt and textfolder in GitNewBranch
* f42aeed Added .gitignore to ignore .log files and log folder
* fa9b177 Initial commit Added welcome.txt file

iswar@Asus-TUF MINGW64 ~/GitDemo (master|MERGING)
$ |
```