

## 4. Git - HOL

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### 1) Exercise 4: GitWork

**Solution:**

```
MINGW64:/c/Users/mohan/GitDemo
mohan@mohanapriya MINGW64 ~ (GitWork)
$ cd ~/GitDemo

mohan@mohanapriya MINGW64 ~/GitDemo (main)
$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.

mohan@mohanapriya MINGW64 ~/GitDemo (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
      debug.log
      error.log
      log/

nothing added to commit but untracked files present (use "git add" to track)
```

```
MINGW64:/c/Users/mohan/GitDemo
mohan@mohanapriya MINGW64 ~/GitDemo (master)
$ git checkout GitWork
Switched to branch 'GitWork'

mohan@mohanapriya MINGW64 ~/GitDemo (GitWork)
$ echo "<greeting>Hello from GitWork branch</greeting>" > hello.xml

mohan@mohanapriya MINGW64 ~/GitDemo (GitWork)
$ git add hello.xml
warning: in the working copy of 'hello.xml', LF will be replaced by CRLF the next time Git touches it

mohan@mohanapriya MINGW64 ~/GitDemo (GitWork)
$ git commit -m "Add hello.xml in GitWork branch"
On branch GitWork
nothing to commit, working tree clean

mohan@mohanapriya MINGW64 ~/GitDemo (GitWork)
$ echo "<greeting>Updated content from GitWork branch</greeting>" > hello.xml

mohan@mohanapriya MINGW64 ~/GitDemo (GitWork)
$ git status
On branch GitWork
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
      modified:   hello.xml

no changes added to commit (use "git add" and/or "git commit -a")

mohan@mohanapriya MINGW64 ~/GitDemo (GitWork)
$ git add hello.xml
warning: in the working copy of 'hello.xml', LF will be replaced by CRLF the next time Git touches it
```

```
MINGW64:/c/Users/mohan/GitDemo
mohan@mohanapriya MINGW64 ~/GitDemo (GitWork)
$ git commit -m "Update hello.xml in GitWork branch"
[GitWork ff58a86] Update hello.xml in GitWork branch
1 file changed, 1 insertion(+), 1 deletion(-)

mohan@mohanapriya MINGW64 ~/GitDemo (GitWork)
$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.

mohan@mohanapriya MINGW64 ~/GitDemo (master)
$ echo "<greeting>Hello from master branch</greeting>" > hello.xml

mohan@mohanapriya MINGW64 ~/GitDemo (master)
$ git add hello.xml
warning: in the working copy of 'hello.xml', LF will be replaced by CRLF the next time Git touches it

mohan@mohanapriya MINGW64 ~/GitDemo (master)
$ git commit -m "Add hello.xml in master branch"
[master a716afa] Add hello.xml in master branch
1 file changed, 1 insertion(+)
-log/
diff --git a/README.md b/README.md
deleted file mode 100644
index 11df79a..0000000
--- a/README.md
+++ /dev/null
@@ -1,0,0 @@
-# GitDemo
\ No newline at end of file
diff --git a/branchfile.txt b/branchfile.txt
deleted file mode 100644
index d982aa6..0000000
--- a/branchfile.txt
+++ /dev/null
@@ -1,0,0 @@
-This is content for GitNewBranch
diff --git a/hello.xml b/hello.xml
index 75b8864..2d8d754 100644
--- a/hello.xml
+++ b/hello.xml
@@ -1,1 @@
-<greeting>Updated content from GitWork branch</greeting>
+<greeting>Hello from master branch</greeting>
(END)
```

```
MINGW64:/c/Users/mohan/GitDemo
mohan@mohanapriya MINGW64 ~/GitDemo (master)
$ git difftool GitWork

Viewing (1/4): '.gitignore'
Launch 'p4merge' [Y/n]? n

Viewing (2/4): 'README.md'
Launch 'p4merge' [Y/n]? n

Viewing (3/4): 'branchfile.txt'
Launch 'p4merge' [Y/n]? n

Viewing (4/4): 'hello.xml'
Launch 'p4merge' [Y/n]? n
```

```
MINGW64:/c/Users/mohan/GitDemo
mohan@mohanapriya MINGW64 ~/GitDemo (master)
$ git merge GitWork --allow-unrelated-histories
Auto-merging hello.xml
CONFLICT (add/add): Merge conflict in hello.xml
Automatic merge failed; fix conflicts and then commit the result.

mohan@mohanapriya MINGW64 ~/GitDemo (master|MERGING)
$ git merge GitWork
error: Merging 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.

mohan@mohanapriya MINGW64 ~/GitDemo (master|MERGING)
$ git mergetool
Merging:
hello.xml
```

**OUTPUT:**

The screenshot shows a web browser window displaying a GitHub repository page for 'mohana5056 / GitDemo'. The address bar shows the URL 'github.com/mohana5056/GitDemo/blob/Git-T03-HOL\_002/hello.xml'. The page header includes the repository name and a search bar. The main content area shows a merge conflict resolution for the file 'hello.xml'. The conflict is resolved by combining changes from the 'master' branch and the 'GitWork' branch. The file content shows a greeting message that has been updated. The browser's address bar shows the URL 'github.com/mohana5056/GitDemo/blob/Git-T03-HOL\_002/hello.xml'. The page includes a sidebar with a file explorer showing various files like '.gitignore', 'README.md', and 'hello.xml'. The main content area shows the code for 'hello.xml' with line numbers and a commit history section above it.

The screenshot shows a web browser displaying the GitHub repository page for 'GitDemo' by user 'mohana5056'. The browser's address bar shows the URL: `github.com/mohana5056/GitDemo/blob/Git-T03-HOL_002/hello_REMOTE_2074.xml`. The repository page header includes the repository name 'GitDemo' and a search bar. Below the header, there are tabs for 'Code', 'Issues', 'Pull requests', 'Actions', 'Projects', 'Wiki', 'Security', 'Insights', and 'Settings'. The 'Files' tab is active, showing a list of files in the repository. The file 'hello\_REMOTE\_2074.xml' is selected and highlighted. The file's content is displayed in a code editor, showing a single line of XML: `<greeting>Updated content from GitWorkk branch</greeting>`. The file's metadata indicates it is 1 line (1 loc) and 57 Bytes. The file was last updated by 'mohana' 7 minutes ago. The file's history and raw content links are also visible.