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Admin@DESKTOP-ECEERRJ MINGW64 ~/GitDemo (main)
$ git checkout main
Already on 'main'
Your branch is up to date with 'origin/main'.

Admin@DESKTOP-ECEERRJ MINGW64 ~/GitDemo (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

Admin@DESKTOP-ECEERRJ MINGW64 ~/GitDemo (main)
$ git branch GitWork

Admin@DESKTOP-ECEERRJ MINGW64 ~/GitDemo (main)
$ git switch GitWork
Switched to branch 'GitWork'

Admin@DESKTOP-ECEERRJ MINGW64 ~/GitDemo (GitWork)
$ echo "<message>Hello from GitWork branch </message>" >hello.xml

Admin@DESKTOP-ECEERRJ 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

Admin@DESKTOP-ECEERRJ MINGW64 ~/GitDemo (GitWork)
$ git commit -m "Add hello.xml in GitWork branch"
[GitWork 1f16f87] Add hello.xml in GitWork branch
1 file changed, 1 insertion(+)
create mode 100644 hello.xml

Admin@DESKTOP-ECEERRJ MINGW64 ~/GitDemo (GitWork)
$ echo "<update> updated in GitWork branch </update>" >>hello.xml

Admin@DESKTOP-ECEERRJ 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")

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Admin@DESKTOP-ECEERRJ 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

Admin@DESKTOP-ECEERRJ MINGW64 ~/GitDemo (GitWork)
$ git commit -m "updated hello.xml in GitWork branch"
[GitWork 4ff7556] updated hello.xml in GitWork branch
1 file changed, 1 insertion(+)

Admin@DESKTOP-ECEERRJ MINGW64 ~/GitDemo (GitWork)
$ git switch main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

Admin@DESKTOP-ECEERRJ MINGW64 ~/GitDemo (main)
$ echo "<message> Hello from main branch </message>" >hello.xml

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

Admin@DESKTOP-ECEERRJ MINGW64 ~/GitDemo (main)
$ git commit -m "Add hello.xml in main branch"
[main d5e0702] Add hello.xml in main branch
1 file changed, 1 insertion(+)
create mode 100644 hello.xml

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Admin@DESKTOP-ECEERRJ MINGW64 ~/GitDemo (main)
$ git log --oneline --graph --decorate --all
* d5e0702 (HEAD -> main) Add hello.xml in main branch
| * 4ff7556 (GitWork) updated hello.xml in GitWork branch
| * 1f16f87 Add hello.xml in GitWork branch
|/
* f6fa000 (origin/main) Added branchfile.txt in GitNewBranch
* 117f010 Add .gitignore to exclude .log files and log folder
* 8b9c60d Merge branch 'main' of https://gitlab.com/jyothika_07-group/gitdemo
| \
| * c3e4faf Initial commit
* bff6492 (origin/master) added welcome.txt

Admin@DESKTOP-ECEERRJ MINGW64 ~/GitDemo (main)
$ git diff main GitWork
diff --git a/hello.xml b/hello.xml
index 08c6d1e..39ecc75 100644
--- a/hello.xml
+++ b/hello.xml
@@ -1,2 @@
-<message> Hello from main branch </message>
+<message>Hello from GitWork branch </message>
+<update> updated in GitWork branch </update>

```

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Admin@DESKTOP-ECEERRJ MINGW64 ~/GitDemo (main)
$ 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.

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Admin@DESKTOP-ECEERRJ MINGW64 ~/GitDemo (main|MERGING)
$ notepad hello.xml

```

```

Admin@DESKTOP-ECEERRJ MINGW64 ~/GitDemo (main|MERGING)
$ git add hello.xml

```

```

Admin@DESKTOP-ECEERRJ MINGW64 ~/GitDemo (main|MERGING)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

```

```

All conflicts fixed but you are still merging.
  (use "git commit" to conclude merge)

```

```

Changes to be committed:
  modified:   hello.xml

```

```

Admin@DESKTOP-ECEERRJ MINGW64 ~/GitDemo (main|MERGING)
$ git commit -m "Merge GitWork into main - resolved conflict in hello.xml"
[main c1c003f] Merge GitWork into main - resolved conflict in hello.xml

```

```

Admin@DESKTOP-ECEERRJ MINGW64 ~/GitDemo (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 4 commits.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

```

```

Admin@DESKTOP-ECEERRJ MINGW64 ~/GitDemo (main)
$ git log --oneline --graph --decorate
*   c1c003f (HEAD -> main) Merge GitWork into main - resolved conflict in hello.xml
|
| * 4ff7556 (GitWork) updated hello.xml in GitWork branch
| * 1f16f87 Add hello.xml in GitWork branch
| * | d5e0702 Add hello.xml in main branch
|/
* f6fa000 (origin/main) Added branchfile.txt in GitNewBranch
* 117f010 Add .gitignore to exclude .log files and log folder
*   8b9c60d Merge branch 'main' of https://gitlab.com/jyothika_07-group/gitdemo
|
| * c3e4faf Initial commit
| * bff6492 (origin/master) added welcome.txt
|/

Admin@DESKTOP-ECEERRJ MINGW64 ~/GitDemo (main)
$ git push
Enumerating objects: 13, done.
Counting objects: 100% (13/13), done.
Delta compression using up to 8 threads
Compressing objects: 100% (10/10), done.
Writing objects: 100% (12/12), 1.22 KiB | 250.00 KiB/s, done.
Total 12 (delta 5), reused 0 (delta 0), pack-reused 0 (from 0)
To https://gitlab.com/jyothika_07-group/gitdemo.git
 f6fa000..c1c003f  main -> main

```

The screenshot shows the GitLab web interface for a repository named 'GitDemo' under the 'Jyothika_07-group' namespace. The browser address bar shows the URL: `gitlab.com/jyothika_07-group/gitdemo/-/blob/main/hello.xml?ref_type=heads`. The interface is in dark mode. On the left, there is a sidebar with navigation options: Project (GitDemo), Learn GitLab (15%), Pinned, Issues (0), Merge requests (0), Manage, Plan, Code, Build, What's new (5), and Help. The main content area shows the file `hello.xml` in the `main` branch. A merge commit is displayed with the message 'Merge GitWork into main — resolved conflict in hello.xml' and the commit hash `c1c003fa`. The commit was authored by 'jyothika' 1 minute ago. Below the commit message, the content of `hello.xml` is shown, which is 183 B. The file content is as follows:

```

1 <<<<<< HEAD
2 <message> Hello from main branch </message>
3 =====
4 <message>Hello from main and GitWork branches </message>
5 <update> updated in GitWork branch </update>
6 >>>>>> GitWork
7

```

At the bottom right of the interface, there is a message: 'Activate Windows Go to Settings to activate Windows.'