

## 4.Git-HOL

```
rohit@SAI_ROHITH MINGW64 ~
$ cd ~/Desktop/Cognizant/Gitworkspace/GitDemo

rohit@SAI_ROHITH MINGW64
~/Desktop/Cognizant/Gitworkspace/GitDemo (master)
$ git checkout master
Already on 'master'
Your branch is up to date with 'origin/master'.

rohit@SAI_ROHITH MINGW64
~/Desktop/Cognizant/Gitworkspace/GitDemo (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

rohit@SAI_ROHITH MINGW64
~/Desktop/Cognizant/Gitworkspace/GitDemo (master)
$ git checkout -b GitWork
Switched to a new branch 'Gitwork'

rohit@SAI_ROHITH MINGW64
~/Desktop/Cognizant/Gitworkspace/GitDemo (GitWork)
$ echo "<message>Hello from Gitwork branch</message>" >
hello.xml

rohit@SAI_ROHITH MINGW64
~/Desktop/Cognizant/Gitworkspace/GitDemo (GitWork)
$ git status
On branch Gitwork
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    hello.xml

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

rohit@SAI_ROHITH MINGW64
~/Desktop/Cognizant/Gitworkspace/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

rohit@SAI_ROHITH MINGW64
~/Desktop/Cognizant/Gitworkspace/GitDemo (GitWork)
$ git commit -m "Add hello.xml in Gitwork branch"
[Gitwork 0543d22] Add hello.xml in Gitwork branch
1 file changed, 1 insertion(+)
```

```
create mode 100644 hello.xml
```

```
rohit@SAI_ROHITH MINGW64
~/Desktop/Cognizant/GitWorkspace/GitDemo (GitWork)
$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
```

```
rohit@SAI_ROHITH MINGW64
~/Desktop/Cognizant/GitWorkspace/GitDemo (master)
$ echo "<note>This is a conflicting change in master</note>" >
hello.xml
```

```
rohit@SAI_ROHITH MINGW64
~/Desktop/Cognizant/GitWorkspace/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
```

```
rohit@SAI_ROHITH MINGW64
~/Desktop/Cognizant/GitWorkspace/GitDemo (master)
$ git commit -m "Add conflicting hello.xml in master"
[master 553b451] Add conflicting hello.xml in master
1 file changed, 1 insertion(+)
create mode 100644 hello.xml
```

```
rohit@SAI_ROHITH MINGW64
~/Desktop/Cognizant/GitWorkspace/GitDemo (master)
$ git log --oneline --graph --decorate --all
* 553b451 (HEAD -> master) Add conflicting hello.xml in master
| * 0543d22 (GitWork) Add hello.xml in Gitwork branch
|/
* 80e36d5 (origin/master) Add branch_change.txt in GitNewBranch
* df9a1f6 Add .gitignore to ignore .log files and log directory
* f0dbc3c Initial commit: added welcome.txt
```

```
rohit@SAI_ROHITH MINGW64
~/Desktop/Cognizant/GitWorkspace/GitDemo (master)
$ git diff GitWork
diff --git a/hello.xml b/hello.xml
index 0bf4c19..ccca8b5 100644
--- a/hello.xml
+++ b/hello.xml
@@ -1,1 @@
- <message>Hello from Gitwork branch</message>
+ <note>This is a conflicting change in master</note>
```

```
rohit@SAI_ROHITH MINGW64
~/Desktop/Cognizant/GitWorkspace/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.
```

```
rohit@SAI_ROHITH MINGW64
~/Desktop/Cognizant/GitWorkspace/GitDemo (master|MERGING)
$ notepad++ hello.xml
```

```
MINGW64/c/Users/rohit/Desktop/Cognizant/GitWorkspace/GitDemo
rohit@SAI_ROHITH MINGW64 ~/Desktop/Cognizant/GitWorkspace/GitDemo (master)
$ echo "<note>This is a conflicting change in master</note>" > hello.xml

rohit@SAI_ROHITH MINGW64 ~/Desktop/Cognizant/GitWorkspace/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

rohit@SAI_ROHITH MINGW64 ~/Desktop/Cognizant/GitWorkspace/GitDemo (master)
$ git commit -m "Add conflicting hello.xml in master"
[master 553b451] Add conflicting hello.xml in master
1 file changed, 1 insertion(+)
create mode 100644 hello.xml

rohit@SAI_ROHITH MINGW64 ~/Desktop/Cognizant/GitWorkspace/GitDemo (master)
$ git log --oneline --graph --decorate --all
* 553b451 (HEAD -> master) Add conflicting hello.xml in master
| * 0543d22 (GitWork) Add hello.xml in Gitwork branch
|/
* 80e36d5 (origin/master) Add branch_change.txt in GitNewBranch
* df9a1f6 Add .gitignore to ignore .log files and log directory
* f0dbc3c Initial commit: added welcome.txt

rohit@SAI_ROHITH MINGW64 ~/Desktop/Cognizant/GitWorkspace/GitDemo (master)
$ git diff Gitwork
diff --git a/hello.xml b/hello.xml
index 0bf4c19..ccca8b5 100644
--- a/hello.xml
+++ b/hello.xml
@@ -1,1 @@
-<message>Hello from Gitwork branch</message>
+<note>This is a conflicting change in master</note>

rohit@SAI_ROHITH MINGW64 ~/Desktop/Cognizant/GitWorkspace/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.

rohit@SAI_ROHITH MINGW64 ~/Desktop/Cognizant/GitWorkspace/GitDemo (master|MERGIN
G)
$ notepad++ hello.xml
```

```
C:\Users\rohit\Desktop\Cognizant\GitWorkspace\GitDemo\hello.xml - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window 2
change.log .bash .gitignore hello.xml

1 <<<<<< HEAD
2 <note>This is a conflicting change in master</note>
3 =====
4 <message>Hello from GitWork branch</message>
5 >>>>>> GitWork
6

eXtensible Markup Language file
length: 139 lines: 6 Lnt: 6 Col: 1 Pos: 140 Windows (CR LF) UTF-8 INS
4:26 PM 8/1/2025
```

```

rohit@SAI_ROHITH MINGW64
~/Desktop/Cognizant/GitWorkspace/GitDemo (master|MERGING)
$ git add hello.xml

rohit@SAI_ROHITH MINGW64
~/Desktop/Cognizant/GitWorkspace/GitDemo (master|MERGING)
$ git commit -m "Resolve merge conflict in hello.xml"
[master be88acf] Resolve merge conflict in hello.xml

rohit@SAI_ROHITH MINGW64
~/Desktop/Cognizant/GitWorkspace/GitDemo (master)
$ echo "*.bak" >> .gitignore

rohit@SAI_ROHITH MINGW64
~/Desktop/Cognizant/GitWorkspace/GitDemo (master)
$ git add .gitignore
warning: in the working copy of '.gitignore', LF will be
replaced by CRLF the next time Git touches it

rohit@SAI_ROHITH MINGW64
~/Desktop/Cognizant/GitWorkspace/GitDemo (master)
$ git commit -m "Ignore backup files"
[master 3aedc40] Ignore backup files
1 file changed, 1 insertion(+)

rohit@SAI_ROHITH MINGW64
~/Desktop/Cognizant/GitWorkspace/GitDemo (master)
$ git branch
  Gitwork
* master

rohit@SAI_ROHITH MINGW64
~/Desktop/Cognizant/GitWorkspace/GitDemo (master)
$ git branch -d Gitwork
Deleted branch Gitwork (was 0543d22).

rohit@SAI_ROHITH MINGW64
~/Desktop/Cognizant/GitWorkspace/GitDemo (master)
$ git log --oneline --graph --decorate
* 3aedc40 (HEAD -> master) Ignore backup files
*   be88acf Resolve merge conflict in hello.xml
| \
| * 0543d22 Add hello.xml in Gitwork branch
* | 553b451 Add conflicting hello.xml in master
| /
* 80e36d5 (origin/master) Add branch_change.txt in GitNewBranch
* df9a1f6 Add .gitignore to ignore .log files and log directory
* f0dbc3c Initial commit: added welcome.txt

rohit@SAI_ROHITH MINGW64
~/Desktop/Cognizant/GitWorkspace/GitDemo (master)
$ git push -u origin master
warning: redirecting to
https://gitlab.com/rohithaddanki/gitdemo.git/

```

Enumerating objects: 14, done.  
Counting objects: 100% (14/14), done.  
Delta compression using up to 16 threads  
Compressing objects: 100% (10/10), done.  
Writing objects: 100% (12/12), 1.24 KiB | 633.00 KiB/s, done.  
Total 12 (delta 4), reused 0 (delta 0), pack-reused 0 (from 0)  
remote:  
remote: To create a merge request for master, visit:  
remote: [https://gitlab.com/rohithaddanki/gitdemo/-/merge\\_requests/new?merge\\_request%5Bsource\\_branch%5D=master](https://gitlab.com/rohithaddanki/gitdemo/-/merge_requests/new?merge_request%5Bsource_branch%5D=master)  
remote:  
To <https://gitlab.com/rohithaddanki/gitdemo>  
80e36d5..3aedc40 master -> master  
branch 'master' set up to track 'origin/master'.

```
MINGW64/c/Users/rohith/Desktop/Cognizant/GitWorkspace/GitDemo
$ git commit -m "Ignore backup files"
[master 3aedc40] Ignore backup files
1 file changed, 1 insertion(+)

rohith@SAI_ROHITH MINGW64 ~/Desktop/Cognizant/GitWorkspace/GitDemo (master)
$ git branch
  Gitwork
* master

rohith@SAI_ROHITH MINGW64 ~/Desktop/Cognizant/GitWorkspace/GitDemo (master)
$ git branch -d Gitwork
Deleted branch Gitwork (was 0543d22).

rohith@SAI_ROHITH MINGW64 ~/Desktop/Cognizant/GitWorkspace/GitDemo (master)
$ git log --oneline --graph --decorate
* 3aedc40 (HEAD -> master) Ignore backup files
* be88acf Resolve merge conflict in hello.xml
|
| * 0543d22 Add hello.xml in Gitwork branch
| * | 553b451 Add conflicting hello.xml in master
|/
* 80e36d5 (origin/master) Add branch_change.txt in GitNewBranch
* df9a1f6 Add .gitignore to ignore .log files and log directory
* f0dbc3c Initial commit: added welcome.txt

rohith@SAI_ROHITH MINGW64 ~/Desktop/Cognizant/GitWorkspace/GitDemo (master)
$ git push -u origin master
warning: redirecting to https://gitlab.com/rohithaddanki/gitdemo.git/
Enumerating objects: 14, done.
Counting objects: 100% (14/14), done.
Delta compression using up to 16 threads
Compressing objects: 100% (10/10), done.
Writing objects: 100% (12/12), 1.24 KiB | 633.00 KiB/s, done.
Total 12 (delta 4), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: To create a merge request for master, visit:
remote: https://gitlab.com/rohithaddanki/gitdemo/-/merge\_requests/new?merge\_request%5Bsource\_branch%5D=master
remote:
To https://gitlab.com/rohithaddanki/gitdemo
80e36d5..3aedc40 master -> master
branch 'master' set up to track 'origin/master'.

rohith@SAI_ROHITH MINGW64 ~/Desktop/Cognizant/GitWorkspace/GitDemo (master)
$
```

GitLab interface showing the repository page for "gitdemo". The page displays a list of files and their commit history.

Repository: gitdemo

Files and commit history:

Name	Last commit	Last update
.gitignore	Ignore backup files	1 minute ago
branch_change.txt	Add branch_change.txt in GitNewBranch	26 minutes ago
hello.xml	Resolve merge conflict in hello.xml	2 minutes ago
welcome.txt	Initial commit: added welcome.txt	57 minutes ago

GitLab interface showing the file view for "hello.xml". The file content is displayed below the commit history.

File: hello.xml

Commit history:

Commit	Message	Author	Time
be88acF8	Resolve merge conflict in hello.xml	Rohith Addanki	2 minutes ago

File content:

```
1 | <note>This is a merged note</note>
```

Repository Link: <https://gitlab.com/rohithaddanki/gitdemo.git>