

4.GIT-Hol From GIT Folder

- Explain how to resolve the conflict during merge.

All Git Commands and merge of branches

pics From Gitbash

📁 /mnt/c/Users/sruthi/GitDemo

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91833@CHINNU MINGW64 ~ (GitNewBranch)
$ cd ~/GitDemo
git checkout master # or 'main' if that's your default branch
git pull origin master
git status
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
From https://gitlab.com/sruthichowdary133-group/gitdemo
* branch      master      -> FETCH_HEAD
Already up to date.
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

91833@CHINNU MINGW64 ~/GitDemo (master)
$ git checkout -b GitWork
Switched to a new branch 'GitWork'

91833@CHINNU MINGW64 ~/GitDemo (GitWork)
$ echo "<message>Hello from GitWork branch</message>" > hello.xml
git add hello.xml
git commit -m "Added hello.xml in GitWork"
warning: in the working copy of 'hello.xml', LF will be replaced by CRLF the next time Git touches it
[GitWork 9494f99] Added hello.xml in GitWork
1 file changed, 1 insertion(+)
create mode 100644 hello.xml

91833@CHINNU MINGW64 ~/GitDemo (GitWork)
$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.

91833@CHINNU MINGW64 ~/GitDemo (master)
$ echo "<message>Hello from Master branch</message>" > hello.xml
git add hello.xml
git commit -m "Added hello.xml in Master"
warning: in the working copy of 'hello.xml', LF will be replaced by CRLF the next time Git touches it
[master 2dc9447] Added hello.xml in Master
1 file changed, 1 insertion(+)
create mode 100644 hello.xml

91833@CHINNU MINGW64 ~/GitDemo (master)
$ git log --oneline --graph --decorate --all
* 2dc9447 (HEAD -> master) Added hello.xml in Master
| * 9494f99 (GitWork) Added hello.xml in GitWork
|/
| * e802c75 (origin/GitNewBranch, GitNewBranch) Added newbranchfile.txt in GitNewBranch
|/
* 72e360e (origin/master) Added .gitignore to exclude .log files and log folder
* af9f0eb Initial commit: added welcome.txt
```

```

91833@CHINNU 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.

91833@CHINNU MINGW64 ~/GitDemo (master|MERGING)
$ notepad++ hello.xml

91833@CHINNU MINGW64 ~/GitDemo (master|MERGING)
$ git add hello.xml
git commit -m "Resolved merge conflict in hello.xml"
[master 87b8bd4] Resolved merge conflict in hello.xml

91833@CHINNU MINGW64 ~/GitDemo (master)
$ echo "*.orig" >> .gitignore
git add .gitignore
git commit -m "Updated .gitignore to ignore backup files"
warning: in the working copy of '.gitignore', LF will be replaced by CRLF the next time Git touches it
[master f2bc3e9] Updated .gitignore to ignore backup files
1 file changed, 1 insertion(+)

91833@CHINNU MINGW64 ~/GitDemo (master)
$ git branch -d GitWork
Deleted branch GitWork (was 9494f99).

91833@CHINNU MINGW64 ~/GitDemo (master)
$ git log --oneline --graph --decorate
* f2bc3e9 (HEAD -> master) Updated .gitignore to ignore backup files
* 87b8bd4 Resolved merge conflict in hello.xml
| \
| * 9494f99 Added hello.xml in GitWork
| * 2dc9447 Added hello.xml in Master
| /
* 72e360e (origin/master) Added .gitignore to exclude .log files and log folder
* af9f0eb Initial commit: added welcome.txt

91833@CHINNU MINGW64 ~/GitDemo (master)
$ cd ~/GitDemo

91833@CHINNU MINGW64 ~/GitDemo (master)
$ git push origin master
Enumerating objects: 14, done.
Counting objects: 100% (14/14), done.
Delta compression using up to 8 threads
Compressing objects: 100% (9/9), done.
Writing objects: 100% (12/12), 1.33 KiB | 452.00 KiB/s, done.
Total 12 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: To create a merge request for master, visit:
remote: https://gitlab.com/sruthichowdary133-group/gitdemo/-/merge_requests/new?merge_request%5Bsource_branch%5D=master
remote:
To https://gitlab.com/sruthichowdary133-group/gitdemo.git
72e360e..f2bc3e9 master -> master

91833@CHINNU MINGW64 ~/GitDemo (master)
$

```

Output from GitLab:

The screenshot shows the GitLab web interface for a repository named 'gitdemo'. At the top, there's a merge request titled 'Merge branch 'master' into 'main'' by Sruthi Chowdary, created 17 seconds ago. Below this, a table lists the latest commits:

Name	Last commit	Last commit
.gitignore	Updated .gitignore to ignore backup files	6 minutes ago
README.md	Initial commit	1 minute ago
hello.xml	Resolved merge conflict in hello.xml	7 minutes ago
newbranchfile.txt	Added newbranchfile.txt in GitNewBranch	1 minute ago
welcome.txt	Initial commit: added welcome.txt	1 minute ago

Below the table, there's a section for 'README.md' and a link to the repository 'GitDemo'.