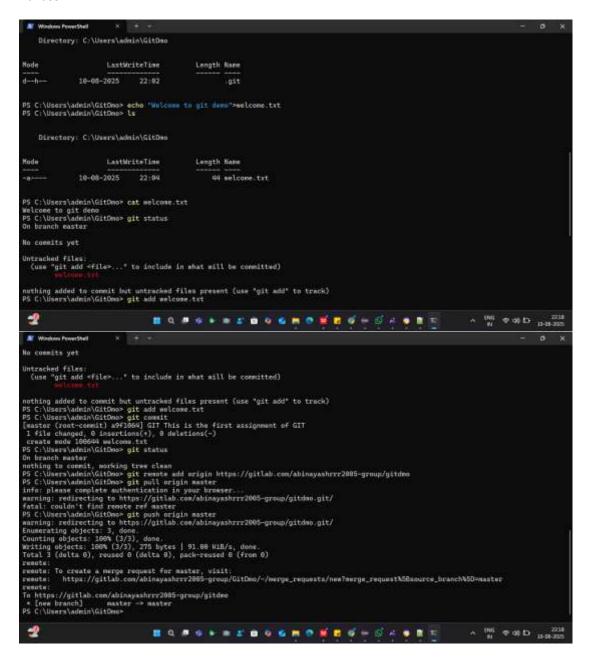
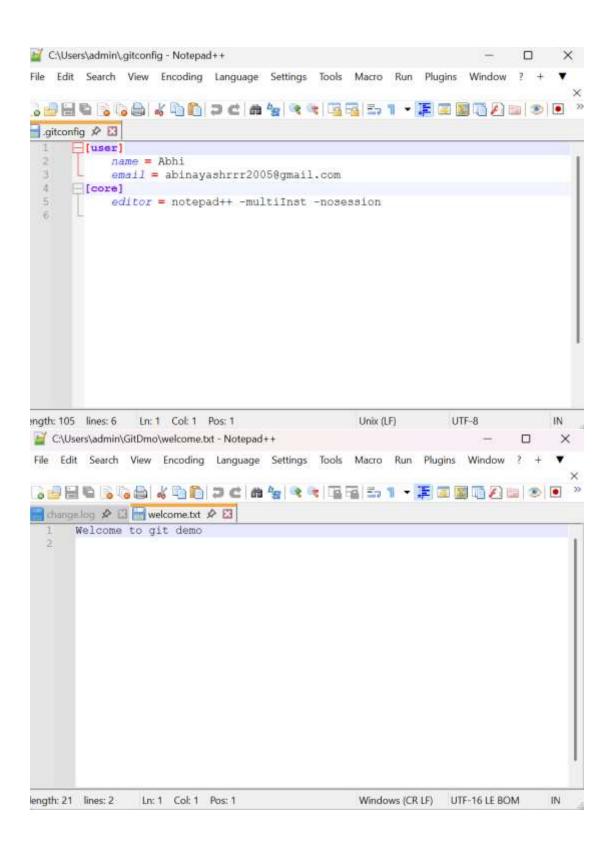
# Week - 8 Git

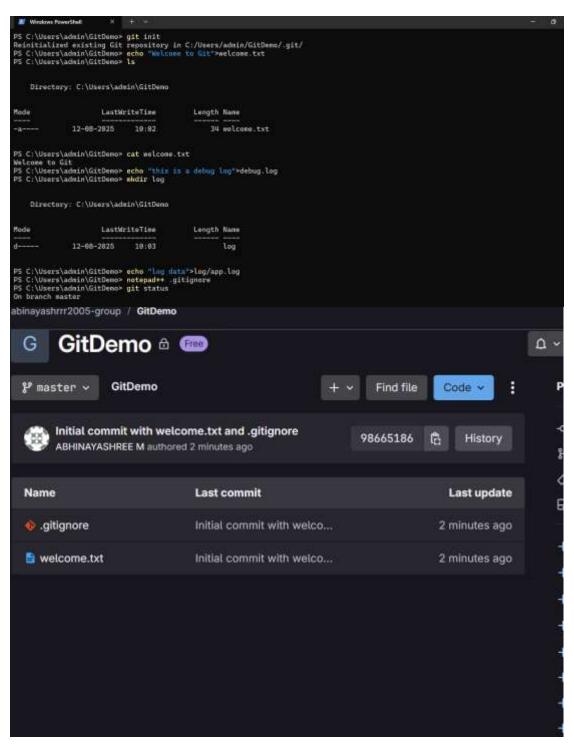
## Handson - 1:





# Handson - 2:

Create a ".log" file and a log folder in the working directory of Git. Update the .gitignore file in such a way that on committing, these files (.log extensions and log folders) are ignored. Verify if the git status reflects the same about working directory, local repository and git repository.



## Handson - 3:

# Branching:

- 1. Create a new branch "GitNewBranch".
- 2. List all the local and remote branches available in the current trunk. Observe the "\*" mark which denote the current pointing branch.
- 3. Switch to the newly created branch. Add some files to it with some contents.
- 4. Commit the changes to the branch.
- 5. Check the status with "git status" command.

# Merging:

Switch to the master

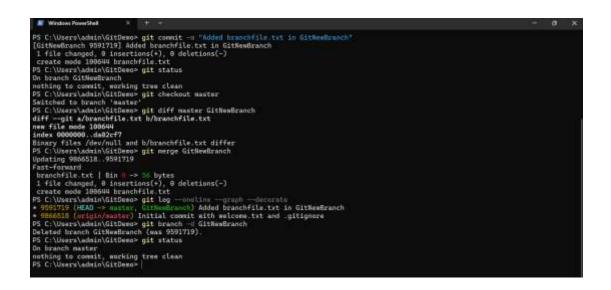
List out all the differences between trunk and branch. These provide the differences in command line interface.

List out all the visual differences between master and branch using **P4Merge tool**.

Merge the source branch to the trunk.

Observe the logging after merging using "git log -oneline -graph -decorate"

Delete the branch after merging with the trunk and observe the git status.



## Handson - 4:

- 1. Verify if master is in clean state.
- 2. Create a branch "GitWork". Add a file "hello.xml".
- 3. Update the content of "hello.xml" and observe the status
- 4. Commit the changes to reflect in the branch
- 5. Switch to master.
- 6. Add a file "hello.xml" to the master and add some different content than previous.
- 7. Commit the changes to the master
- 8. Observe the log by executing "git log -oneline -graph -decorate -all"
- 9. Check the differences with Git diff tool
- **10.** For better visualization, use P4Merge tool to list out all the differences between master and branch
- 11. Merge the bran to the master
- 12. Observe the git mark up.
- 13. Use 3-way merge tool to resolve the conflict
- 14. Commit the changes to the master, once done with conflict
- **15.** Observe the git status and add backup file to the .gitignore file.
- **16.** Commit the changes to the .gitignore

- 17. List out all the available branches
- **18.** Delete the branch, which merge to master.
- 19. Observe the log by executing "git log -oneline -graph -decorate"

```
PS C:\Users\admin\GitDemo> git status
 The most similar command is
The most similar command is

PS C:\Users\admin\GitDeno\ git checkout -b GitMork

PS C:\Users\admin\GitDeno\ git checkout -b GitMork

PS C:\Users\admin\GitDeno\ echo "egrueting>Hello from GitMork branch=/greeting>">hello.xel

PS C:\Users\admin\GitDeno\ echo "egrueting>Hello from updated GitMork branch=/greeting>"> hello.xel

PS C:\Users\admin\GitDeno\ git status

On branch GitWork

Untracked files:

(use "git add <file>..." to include in what will be committed)
nothing added to coemit but untracked files present (use "git add" to track)

PS C:\Users\admin\GitDeno> git add hello.xel

PS C:\Users\admin\GitDeno> git add hello.xel

PS C:\Users\admin\GitDeno> git coemit == "Updated hello.xel in GitWork branch"

[GitWork bea9676] Updated hello.xel in GitWork branch

1 file changed, 8 insertions(-), 9 deletions(-)

create node 1886444 hello.xel

PS C:\Users\admin\GitDeno> git checkout master

Switched to branch 'master'

PS C:\Users\admin\GitDeno> echo "sgreeting=Wello from master branch/greeting="> hello.xel

PS C:\Users\admin\GitDeno> git add hello.xel

PS C:\Users\admin\GitDeno> git coemit == "Added hello.xel in master branch"

[master 87a6588] Added hello.xel in master branch

1 file changed, 8 insertions(-), 9 deletions(-)

create node 1886444 hello.xel

PS C:\Users\admin\GitDeno> git log ==mline ==graph ==decorate ==all
       87a6588 (HEAD -> maxter) Added hello xel in master branch - heafff (Githbrh) Updated hello xel in Githork branch
 * hewSSfd (Githers) Updated hello.xel in GitWork branch

* 950[719 Added branchfile.txt in GitWerBranch

* 9000518 (origin/maxier) Initial commit with melcome.txt and .gitignore

PS C:\Users\admin\GitDemo git diff master GitWork

diff -git a/hello.xel b/hello.xel
index 66aa63 .ea6a63 .ea6a639 1900000

Binary files a/hello.xel and b/hello.xel differ

PS C:\Users\admin\GitDemo git merge GitWork

marning: Cannot merge binary files: hello.xel (HEAD vs. GitWork)

Auto-merging bello.xel

COMFLICT (add/add): Merge conflict in hello.xel

Automatic merge failed; fix conflicts and then commit the result.

PS C:\Users\admin\GitDemo git add hello.xel.

PS C:\Users\admin\GitDemo git commit = "Resulved"

[master d29953a] Resolved

PS C:\Users\admin\GitDemo echo "* orig">sgitignore

PS C:\Users\admin\GitDemo git commit = "Ignore beckup files"

On branch master

Untracked files:

(use "git add *file>...* to include in what will be committed)
  nothing added to commit but untracked files present (use "git add" to track)
PS (:\Users\admin\GitOemo> git commit -= -= "Ignore backup files"
On branch waster
Untracked files:
        (use "git add <file>..." to include in what will be committed)
  nothing added to commit but untracked files present (use "git add" to track)
PS C:\Users\admin\GitDemo> git branch
     GitWork
PS C:\Users\admin\GitDemo> git branch -d GitWork
Deleted branch GitWork (was bea95fd).
PS C:\Users\admin\GitDemo> git log —

* d29953a (HEAD -> master) Resolved
       * bea95fd Updated hello.xml in GitWork branch
       87a6588 Added hello.xml in master branch
  * 9591719 Added branchfile.txt in GitNemBranch
* 9866518 (origin/master) Initial commit with melcome.txt and .gitignore
PS C:\Users\admin\GitDemo> |
```

## Handson - 5:

Verify if master is in clean state.

List out all the available branches.

Pull the remote git repository to the master

Push the changes, which are pending from "Git-T03-HOL\_002" to the remote repository. Observe if the changes are reflected in the remote repository.

Name	Last commit	Last update
gtignore .gtignore	Initial commit with welcome.txt and .gitign	26 minutes ago
branchfile.txt	Added branchfile.txt in GitNewBranch	18 minutes ago
C gitignore	yes	6 minutes ago
₫ hello.xml	Added hello.xml in master branch	13 minutes ago
5 hoL002.txt	Initial commit to Git-T03-HOL_002 branch	3 minutes ago
welcome.txt	Initial commit with welcome.txt and .git/gn	26 minutes ago
total torrespond to the same		