MODULE -5

MANAGING SOURCE CODE – GIT

AND GITHUB

SUBMITTED BY – BALASASTHA P

SUBMITTED TO - STARAGILE

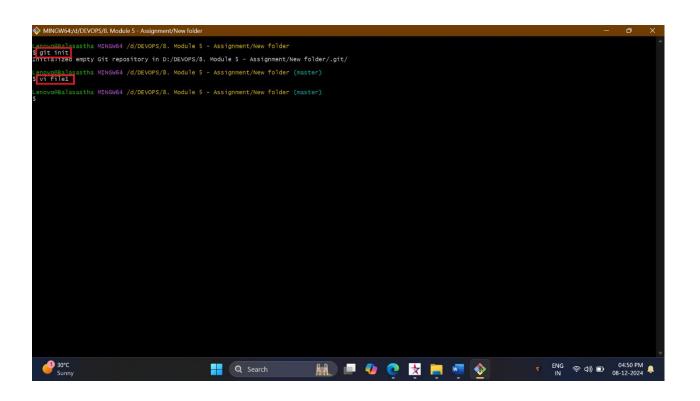
DATE OF SUBMISSION - 08-12-2024

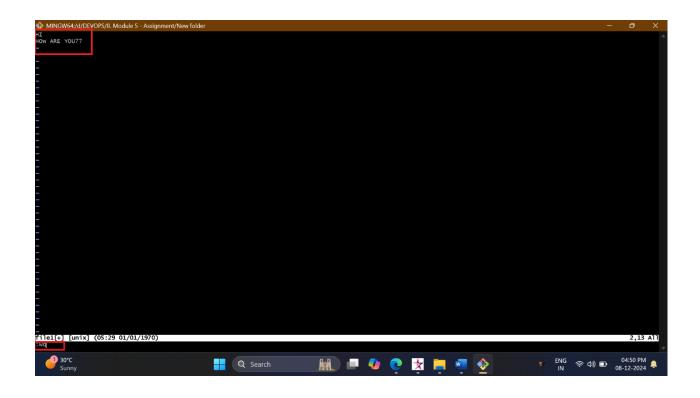
L1 - Create Local git repository and demonstrate all git reset options and revert. Compare the differences.

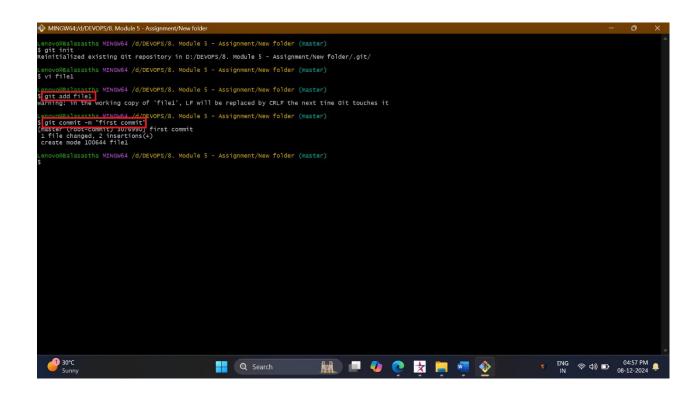
GIT REVERT:

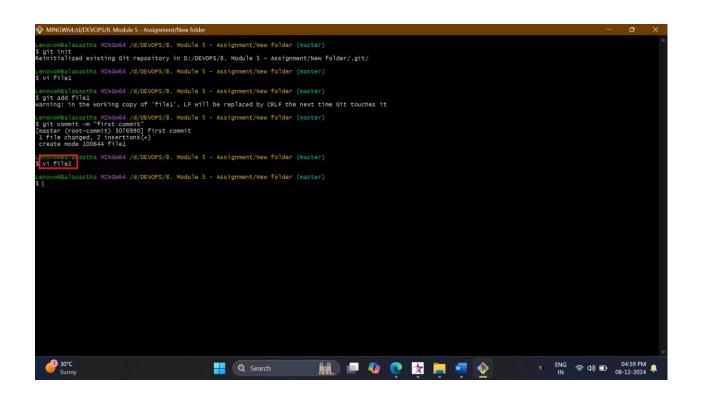
Create a new folder in your local computer → Right click and open git bash terminal \rightarrow Initialize the git in particular directory/folder using the cmd "git init" -> Now create a file using cmd "vi file1" this command will create and edit the file \rightarrow Now press "i" to add some content to the file \rightarrow To save and quit the file press "Esc" and type ":wq" and press "Enter" → To start tracking the file type cmd "git add *file1*" this should be done every time while creating a file \rightarrow To save the code as version use this cmd "git commit -m "first commit"" this should be done every time to save the code as version \rightarrow Now create a file using cmd "vi file2" this command will create and edit the file → Now press "i" to add some more content to the file → To save and quit the file press "Esc" and type ":wq" and press "Enter" \rightarrow To start tracking the file type cmd "git add file2" this should be done every time while creating a file \rightarrow To save the code as version use this cmd "git commit -m "second commit"" this should be done every time to save the code as version \rightarrow Now create a file using cmd "vi file3" this command will create and edit the file \rightarrow Now press "i" to add some content to the file \rightarrow To save and quit the file press "Esc" and type ":wq" and press "Enter" → To start tracking the file type cmd "git add

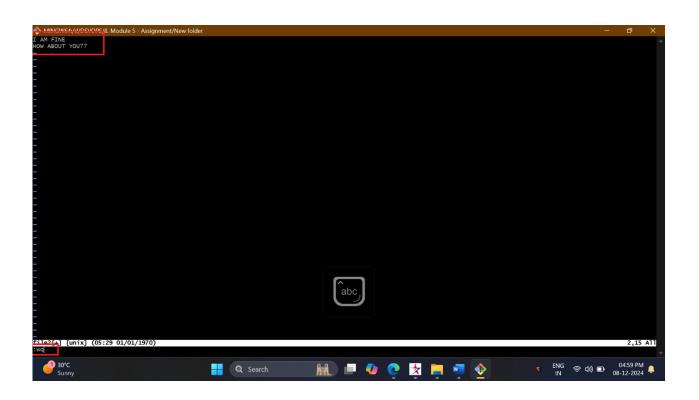
file3" this should be done every time while creating a file → To save the code as version use this cmd "git commit -m "third commit"" this should be done every time to save the code as version → Now if you want to undo the changes and go back to previous commit with losing original commit from history use the cmd "git revert <commit id>" → With this a new commit will be created which contains "file1 & file2" → To get the commit ID type cmd "git log -oneline" → To see the changes made by the revert type cmd "git show <reverted-commit-id>" → If you want to undo the revert type cmd "git revert <revert-commit-hash>"

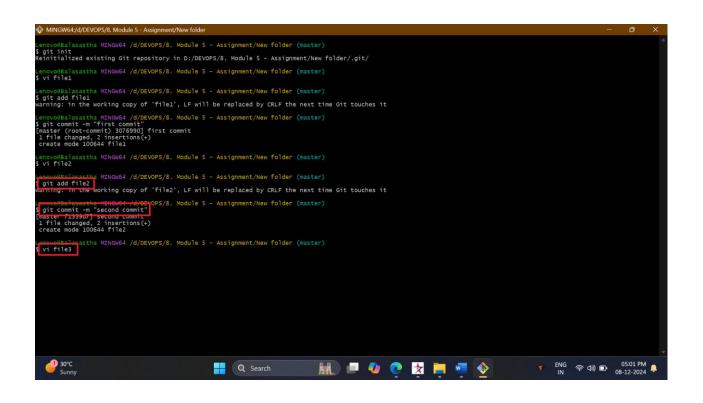


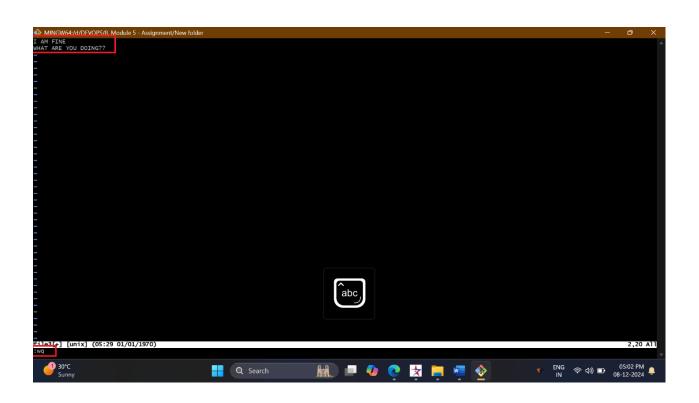




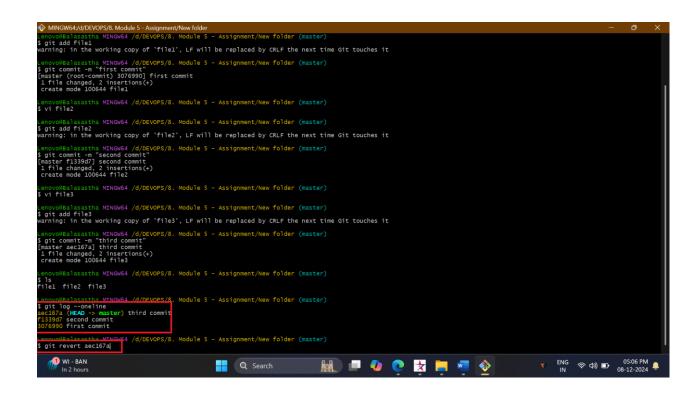


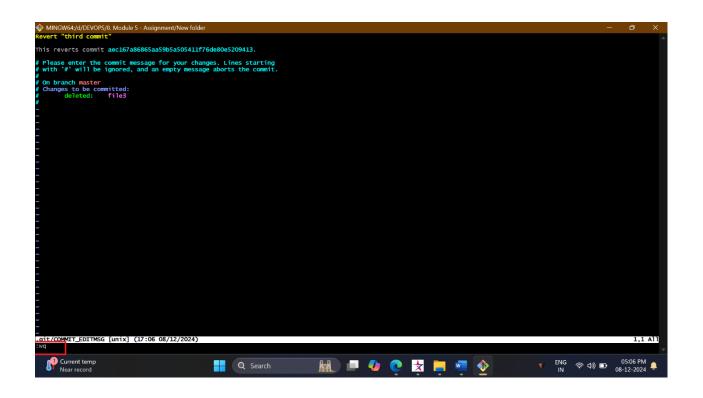


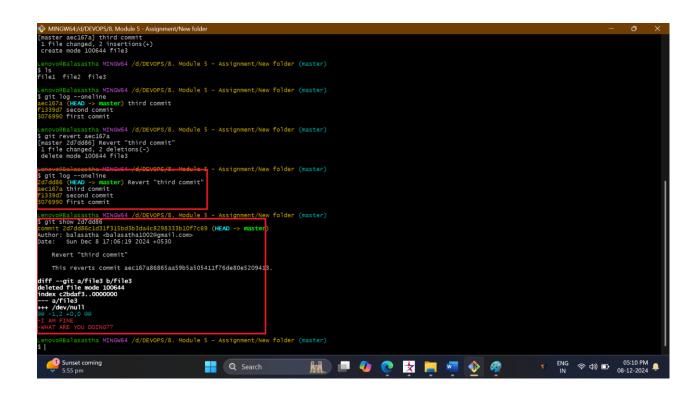




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$ git init
Reinitialized existing Git repository in D:/DEVOPS/8. Module 5 - Assignment/New folder/.git/
  enovo@Bala
vi file1
 enovo®Balasastha MINGW64 /d/DEVOPS/8. Module 5 - Assignment/New folder (master)
git add file1
arning: in the working copy of 'file1', LF will be replaced by CRLF the next time Git touches it
enovo@Balasastha MINGw64 /d/OEVOPS/8. Module 5 - Assignment/New folder (master)
git commit -m "first commit"
master (root-commit) 3076990] first commit
1 file changed, 2 insertions(+)
create mode 100644 file
  unovo@Balasastha MINGw64 /d/DEVOPS/8. Module 5 - Assignment/New folder (master) vi file2
 enovo8Balasastha MINGw64 /d/DEVOPS/8. Module 5 - Assignment/New folder (master)
git add file2
arning: in the working copy of 'file2', LF will be replaced by CRLF the next time Git touches it
 enovo@Balasastha MINGW64 /d/DEV0
git commit -m "second commit"
master f1339d7] second commit
1 file changed, 2 insertions(+)
create mode 100644 file2
  novo@Balasastha MINGw64 /d/DEVOPS/8. Module 5 - Assignment/New folder (master) vi file3
  novoPBalasastha MINGw64 /d/DEVOPS/8. Module 5 - Assignment/New folder (master)
git add file3
[rinng: In the working copy of 'file3', LF will be replaced by CRLF the next time Git touches it
 enovo8Balasastha MINOW64 /d/DEVOPS/8. Module 5 - Assignment/New folder (master)
git Commit -m "third commit"
parter portfollows bring to market
1 file changed, 2 insertions(+)
create mode 100644 file3
                                 GW64 /d/DEVOPS/8. Module 5 - Assignment/New folder (master)
 ls
ile1 file2 file3
    SUZLON
-1.27%
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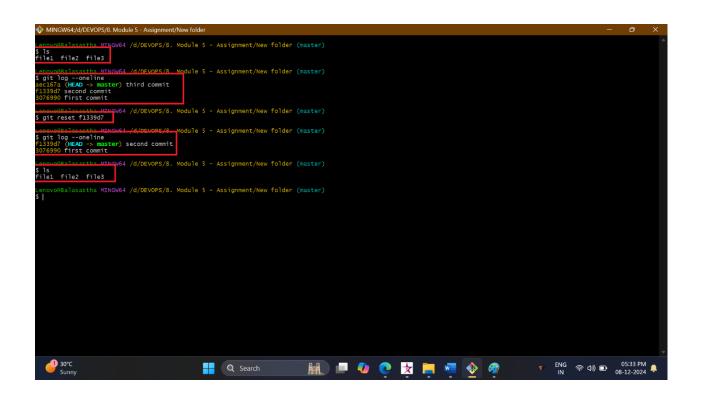


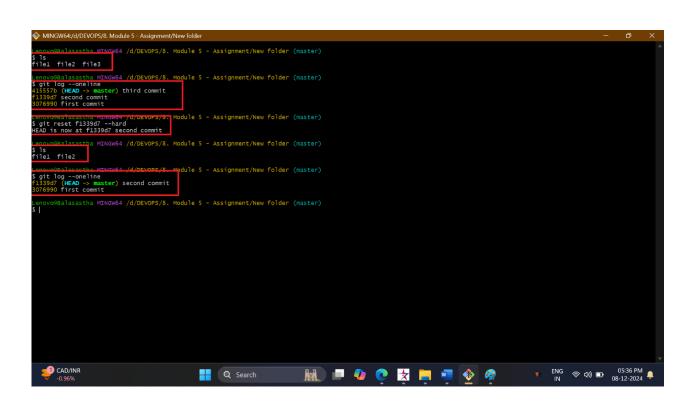
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$
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GIT RESET:

Create 3 files with same content as shown the above → Reset command is used to undo the changes in git by moving current commit to different commit → Type the cmd "git reset <commit-id> --hard" to delete the files → Type the cmd "git reset <commit-id> --soft" to delete the commits it Moves the HEAD pointer but keeps all changes staged (in the index).





Differences between git revert and git reset:

Git revert:

- Creates a new commit that negates the changes made by a specific commit.
- Preserves history by appending a new commit.

Git reset:

- Moves the HEAD to a different commit, optionally altering the staging area or working directory.
- Can rewrite history (destructive if shared with others).

Assignment completed

Thank You!!!