WALCHAND INSTITUTE OF TECHNOLOGY, SOLAPUR
INFORMATION TECHNOLOGY
2021-22 SEMESTER –II

DevOps

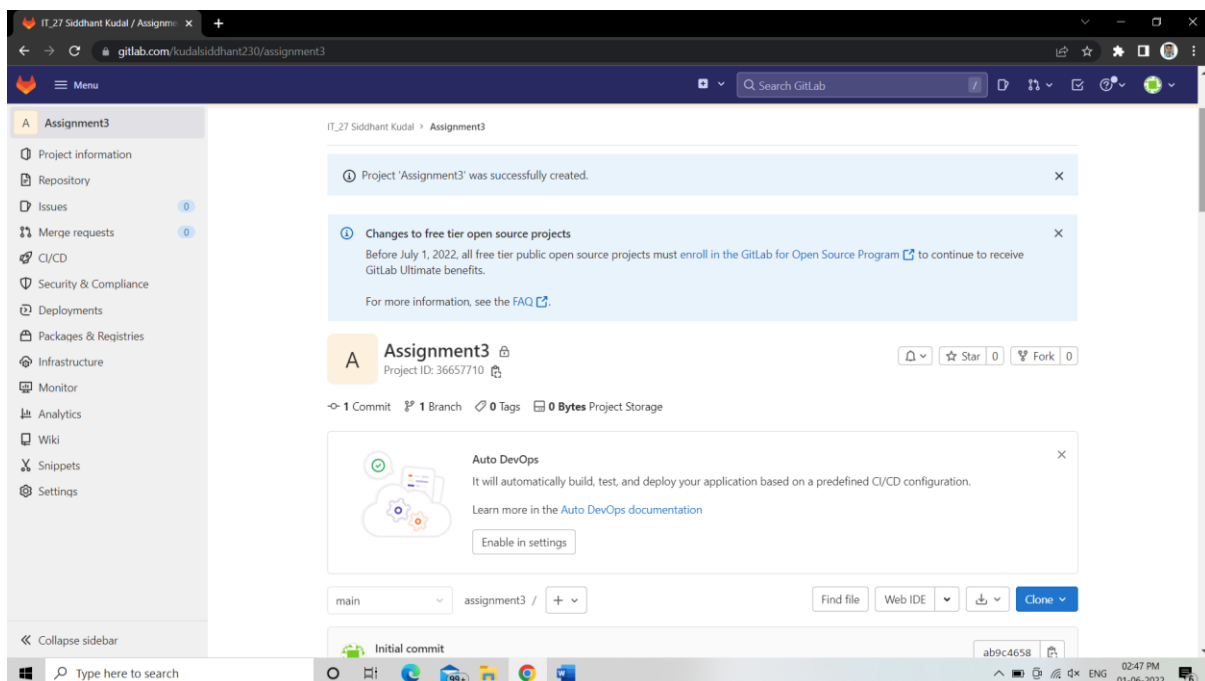Class: Final Year BTech.- IT (Sem-2)

Name: Siddhant Kudal   Roll No: 27
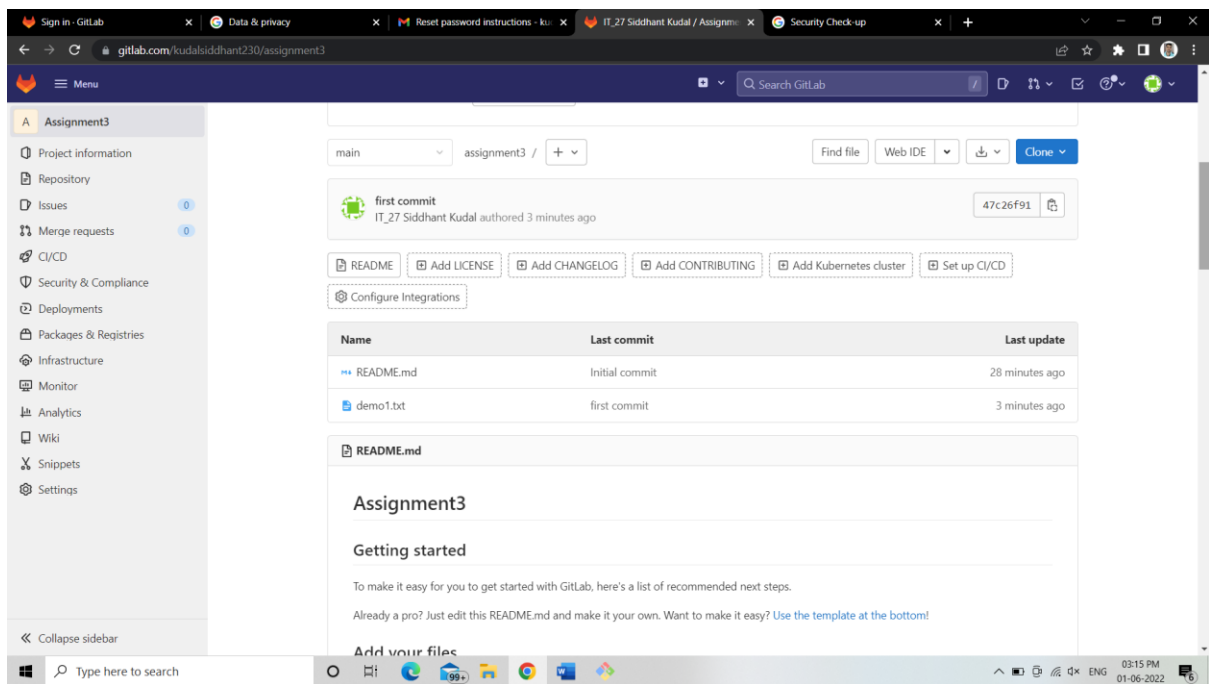
Assignment: 3

Title: Perform basic GitLab operations like: Create a project, to start using GitLab. Create a branch, to make changes to files stored in a project's repository.Fork a project, to duplicate projects so they can be worked on in parallel. Add a file, to add new files to a project's repository.Rebase Operation Squashing Commits Delete a branch

ScreenShot :

```
User@DESKTOP-6NHJCNP MINGW64 ~
$ cd D:

User@DESKTOP-6NHJCNP MINGW64 /d
$ cd siddhant

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant
$ cd
27_siddhant_Kudal_assignment-1.docx  Softwares/
BTech/                               TE/

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant
$ cd BTech

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech
$ cd devops

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops
$ git config --global user.name "siddhantkudal"

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops
$ git config --global user.email "kudalsiddhant230@gmail.com"

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops
$ git init
Initialized empty Git repository in D:/siddhant/BTech/devops/.git/

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops (master)
$ git config --global user.name "kudalsiddhant230"

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops (master)
$ git clone "https://gitlab.com/kudalsiddhant230/assignment3.git"
Cloning into 'assignment3'...
warning: auto-detection of host provider took too long (>2000ms)
warning: see https://aka.ms/gcmcore-autodetect for more information.
warning: auto-detection of host provider took too long (>2000ms)
warning: see https://aka.ms/gcmcore-autodetect for more information.
remote: HTTP Basic: Access denied
fatal: Authentication failed for 'https://gitlab.com/kudalsiddhant230/assignment3.git/'

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops (master)
$ git clone "https://gitlab.com/kudalsiddhant230/assignment3.git"
Cloning into 'assignment3'...
warning: auto-detection of host provider took too long (>2000ms)
warning: see https://aka.ms/gcmcore-autodetect for more information.
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops (master)
$
```

```
User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops
$ git config --global user.email "kudalsiddhant230@gmail.com"

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops
$ git init
Initialized empty Git repository in D:/siddhant/BTech/devops/.git/

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops (master)
$ git config --global user.name "kudalsiddhant230"

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops (master)
$ git clone "https://gitlab.com/kudalsiddhant230/assignment3.git"
Cloning into 'assignment3'...
warning: auto-detection of host provider took too long (>2000ms)
warning: see https://aka.ms/gcmcore-autodetect for more information.
warning: auto-detection of host provider took too long (>2000ms)
warning: see https://aka.ms/gcmcore-autodetect for more information.
remote: HTTP Basic: Access denied
fatal: Authentication failed for 'https://gitlab.com/kudalsiddhant230/assignment3.git/'

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops (master)
$ git clone "https://gitlab.com/kudalsiddhant230/assignment3.git"
Cloning into 'assignment3'...
warning: auto-detection of host provider took too long (>2000ms)
warning: see https://aka.ms/gcmcore-autodetect for more information.
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops (master)
$ cd assignment3

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$ git add "demo1.txt"

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$ git commit -m "first commit"
[main 47c26f9] first commit
 1 file changed, 1 insertion(+)
 create mode 100644 demo1.txt

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$ git push -u origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 288 bytes | 96.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://gitlab.com/kudalsiddhant230/assignment3.git
   ab9c465..47c26f9  main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$
```

Rebase operation-

```
User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (firstbranch)
$

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (firstbranch)
$ git switch main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$ git add "m1commit.txt"

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$ git commit -m "m1 commit"
[main f9a5af5] m1 commit
 1 file changed, 1 insertion(+)
 create mode 100644 m1commit.txt

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$ git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 275 bytes | 137.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0
To https://gitlab.com/kudalsiddhant230/assignment3.git
   47c26f9..f9a5af5  main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$
```

```
User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$ git add "m2commit.txt"

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$ git commit -m "m2 commit"
[main 6a769f7] m2 commit
 1 file changed, 1 insertion(+)
 create mode 100644 m2commit.txt

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$ git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 235 bytes | 235.00 KiB/s, done.
Total 2 (delta 1), reused 0 (delta 0), pack-reused 0
To https://gitlab.com/kudalsiddhant230/assignment3.git
   f9a5af5..6a769f7  main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$ |
```
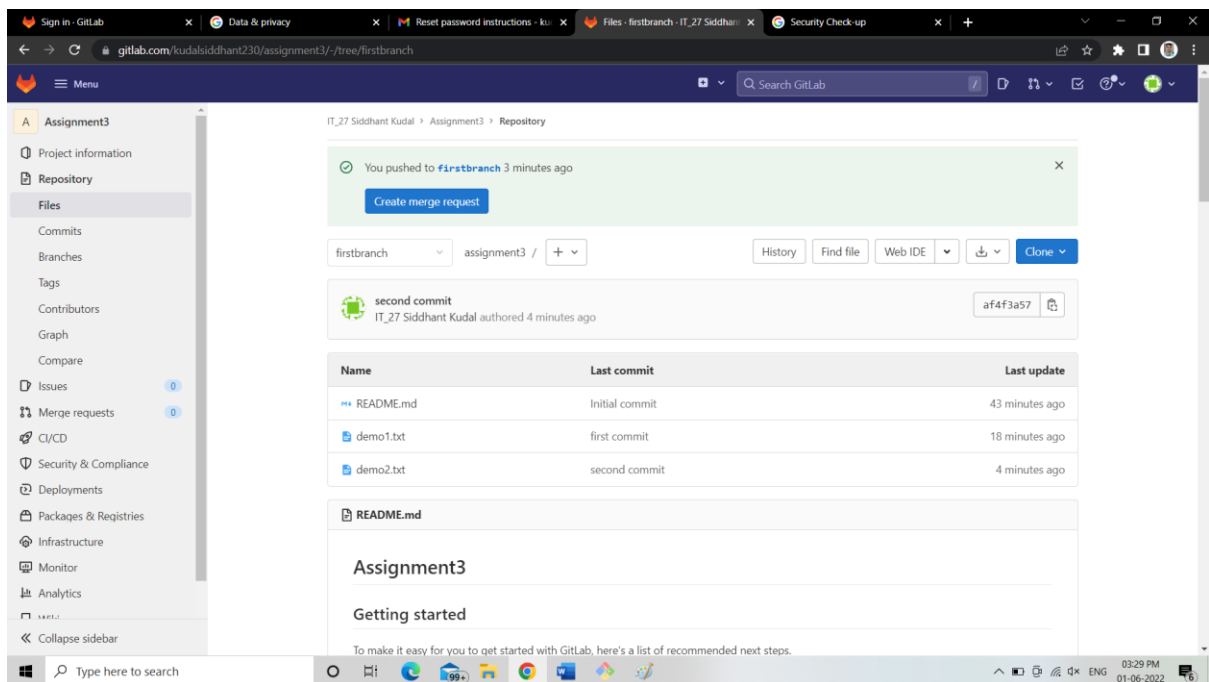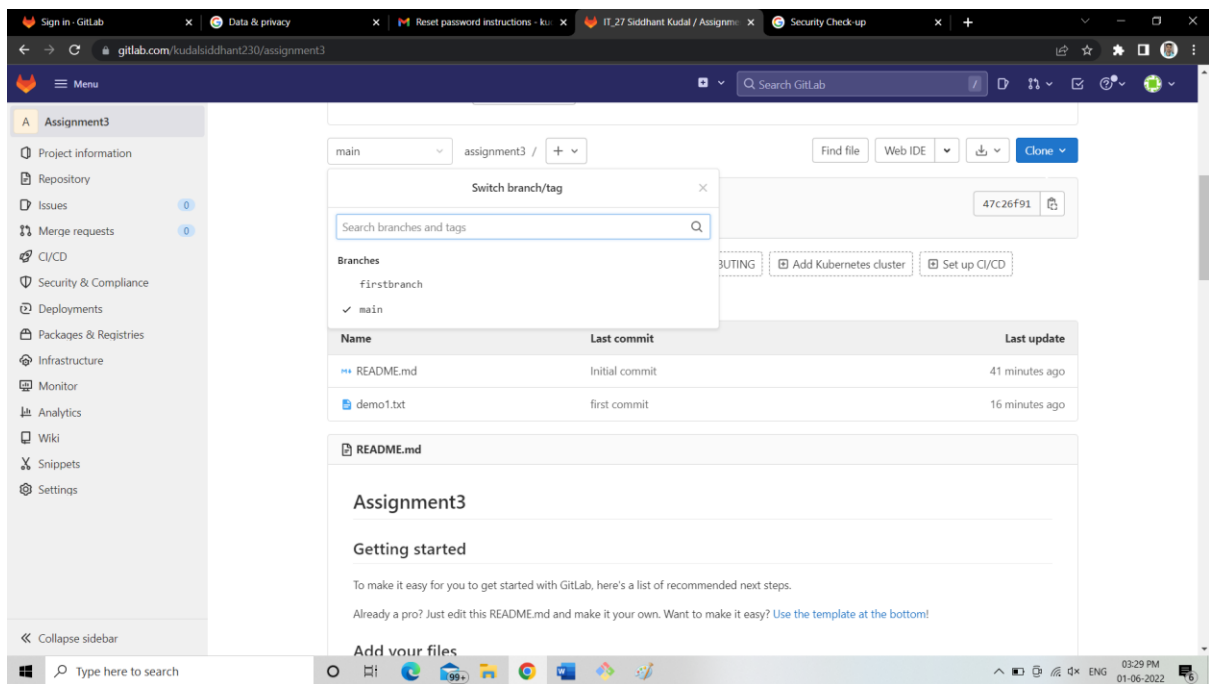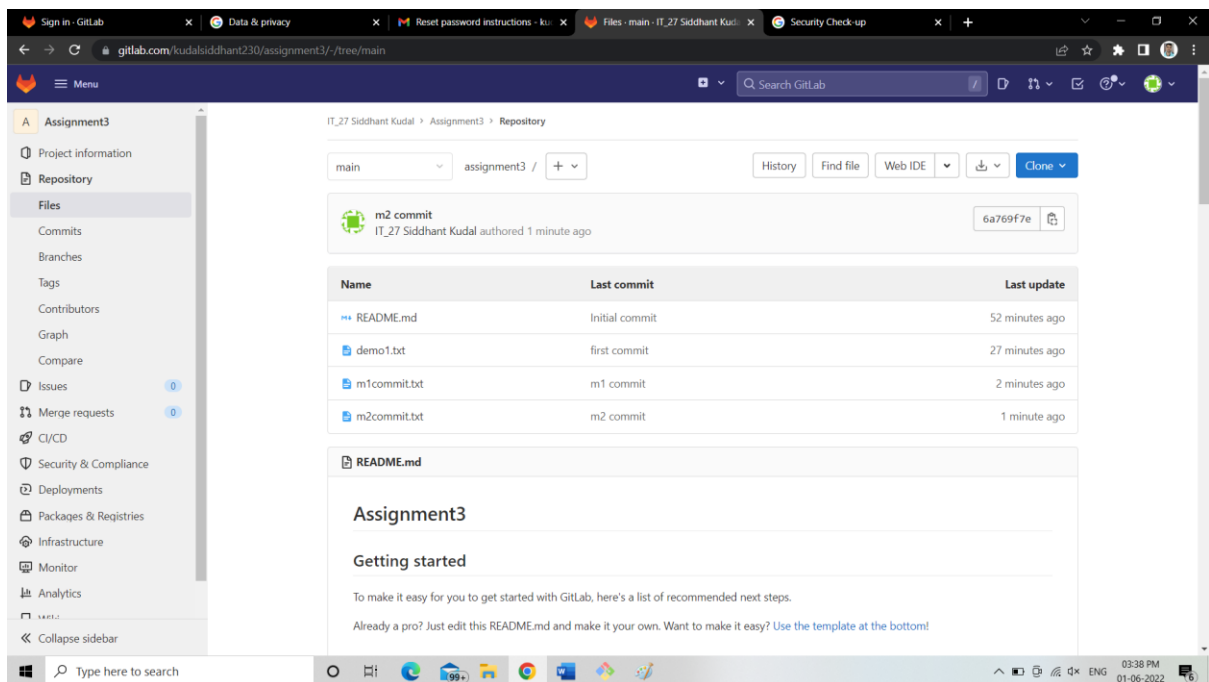
```
User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (firstbranch)
$ git log --oneline
360160a (HEAD -> firstbranch, origin/firstbranch) f1 commit
af4f3a5 second commit
47c26f9 first commit
ab9c465 Initial commit

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (firstbranch)
$ git switch main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$ git add "m3commit.txt"

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$ git commit -m "m3 commit"
[main 3d7eb9b] m3 commit
 1 file changed, 1 insertion(+)
 create mode 100644 m3commit.txt

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$ git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 236 bytes | 236.00 KiB/s, done.
Total 2 (delta 1), reused 0 (delta 0), pack-reused 0
To https://gitlab.com/kudalsiddhant230/assignment3.git
   6a769f7..3d7eb9b  main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$
```

MINGW64:/d/siddhant/BTech/devops/assignment3

```
pick 5585f77 m1 commit
pick c93cb34 m2 commit
pick 68e9ef1 m3 commit

# Rebase 360160a..68e9ef1 onto 360160a (3 commands)
#
# Commands:
# p, pick <commit> = use commit
# r, reword <commit> = use commit, but edit the commit message
# e, edit <commit> = use commit, but stop for amending
# s, squash <commit> = use commit, but meld into previous commit
# f, fixup [-C | -c] <commit> = like "squash" but keep only the previous
#                    commit's log message, unless -C is used, in which case
#                    keep only this commit's message; -c is same as -C but
#                    opens the editor
# x, exec <command> = run command (the rest of the line) using shell
# b, break = stop here (continue rebase later with 'git rebase --continue')
# d, drop <commit> = remove commit
# l, label <label> = label current HEAD with a name
# t, reset <label> = reset HEAD to a label
# m, merge [-C <commit> | -c <commit>] <label> [# <oneline>]
# .      create a merge commit using the original merge commit's
# .      message (or the oneline, if no original merge commit was
# .      specified); use -c <commit> to reword the commit message
#
# These lines can be re-ordered; they are executed from top to bottom.
#
# If you remove a line here THAT COMMIT WILL BE LOST.
#
# However, if you remove everything, the rebase will be aborted.
#
~
~
~
~
~
~
~
~
~
~
~
```

```
MINGW64:/d/siddhant/BTech/devops/assignment3                                    —  □  ×
# This is a combination of 3 commits.
# This is the 1st commit message:

m1 commit

# This is the commit message #2:

m2 commit

# This is the commit message #3:

m3 commit

# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# Date:      Wed Jun 1 15:35:43 2022 +0530
#
# interactive rebase in progress; onto 360160a
# Last commands done (3 commands done):
#    squash c93cb34 m2 commit
#    squash 68e9ef1 m3 commit
# No commands remaining.
# You are currently rebasing branch 'main' on '360160a'.
#
# Changes to be committed:
#       new file:   m1commit.txt
#       new file:   m2commit.txt
#       new file:   m3commit.txt
#




D:/siddhant/BTech/devops/assignment3/.git/COMMIT_EDITMSG [unix] (16:02 01/06/2022)    1,1 All
"D:/siddhant/BTech/devops/assignment3/.git/COMMIT_EDITMSG" [unix] 30L, 697B
```



```
MINGW64:/d/siddhant/BTech/devops/assignment3                                    —  □  ×
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$ git add "m3commit.txt"

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$ git commit -m "m3 commit"
[main 3d7eb9b] m3 commit
 1 file changed, 1 insertion(+)
 create mode 100644 m3commit.txt

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$ git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 236 bytes | 236.00 KiB/s, done.
Total 2 (delta 1), reused 0 (delta 0), pack-reused 0
To https://gitlab.com/kudalsiddhant230/assignment3.git
   6a769f7..3d7eb9b  main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$ git log --oneline
3d7eb9b (HEAD -> main, origin/main, origin/HEAD) m3 commit
6a769f7 m2 commit
f9a5af5 m1 commit
47c26f9 first commit
ab9c465 Initial commit

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$ git rebase firstbranch
Successfully rebased and updated refs/heads/main.

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$ git log --oneline
68e9ef1 (HEAD -> main) m3 commit
c93cb34 m2 commit
5585f77 m1 commit
360160a (origin/firstbranch, firstbranch) f1 commit
af4f3a5 second commit
47c26f9 first commit
ab9c465 Initial commit

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$ git rebase -i HEAD~3
[detached HEAD 39f5743] m1 commit
 Date: Wed Jun 1 15:35:43 2022 +0530
 3 files changed, 3 insertions(+)
 create mode 100644 m1commit.txt
 create mode 100644 m2commit.txt
 create mode 100644 m3commit.txt
Successfully rebased and updated refs/heads/main.

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$
```

```
User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$ git rebase -i HEAD~3
[detached HEAD 39f5743] m1 commit
 Date: Wed Jun 1 15:35:43 2022 +0530
 3 files changed, 3 insertions(+)
 create mode 100644 m1commit.txt
 create mode 100644 m2commit.txt
 create mode 100644 m3commit.txt
Successfully rebased and updated refs/heads/main.

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$ git log --oneline
39f5743 (HEAD -> main) m1 commit
360160a (origin/firstbranch, firstbranch) f1 commit
af4f3a5 second commit
47c26f9 first commit
ab9c465 Initial commit

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$
```

```
User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$ git push --delete origin firstbranch
To https://gitlab.com/kudalsiddhant230/assignment3.git
 - [deleted]         firstbranch

User@DESKTOP-6NHJCNP MINGW64 /d/siddhant/BTech/devops/assignment3 (main)
$
```