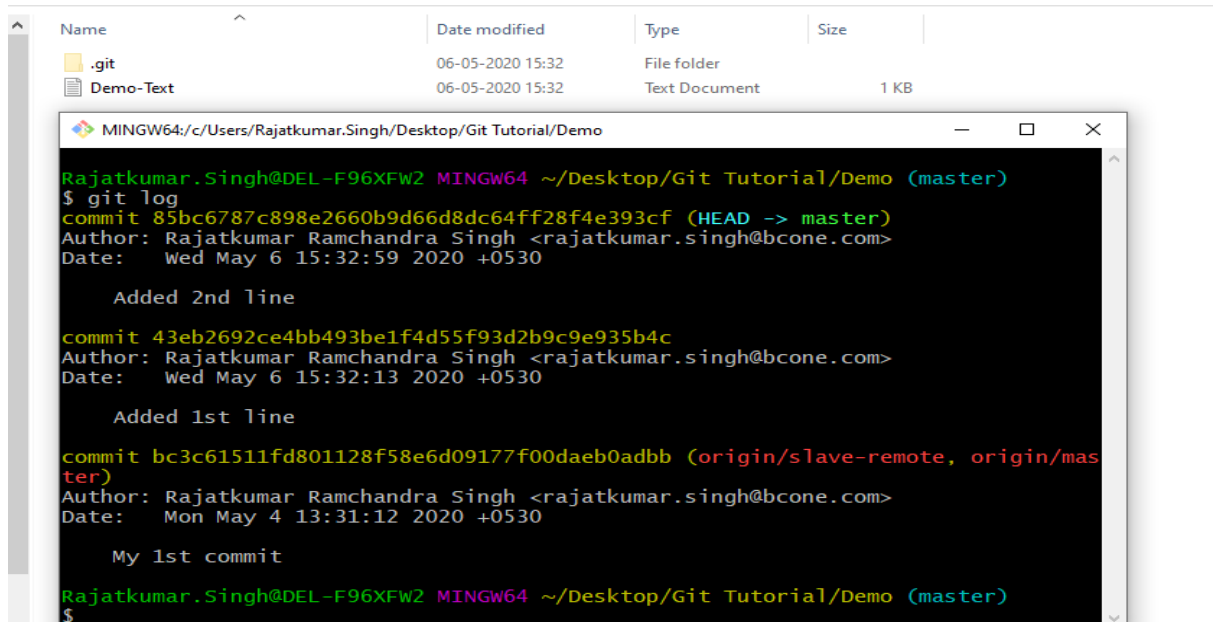


1. To view all the commit history you can fire a command **git log**. It will show you all commits on a file till yet. It also show you the **HEAD** position of local branch as well as remote branch.



```
Rajatkumar.Singh@DEL-F96XFW2 MINGW64 ~/Desktop/Git Tutorial/Demo (master)
$ git log
commit 85bc6787c898e2660b9d66d8dc64ff28f4e393cf (HEAD -> master)
Author: Rajatkumar Ramchandra Singh <rajatkumar.singh@bcone.com>
Date: Wed May 6 15:32:59 2020 +0530

    Added 2nd line

commit 43eb2692ce4bb493be1f4d55f93d2b9c9e935b4c
Author: Rajatkumar Ramchandra Singh <rajatkumar.singh@bcone.com>
Date: Wed May 6 15:32:13 2020 +0530

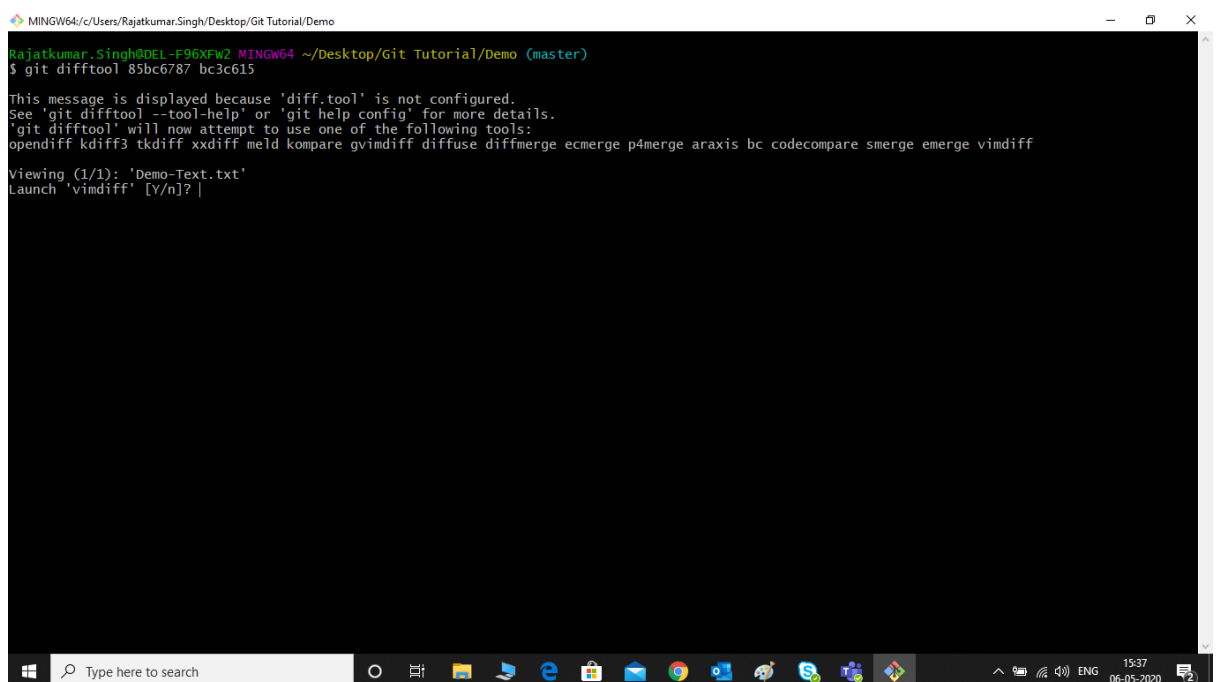
    Added 1st line

commit bc3c61511fd801128f58e6d09177f00daeb0adbb (origin/slave-remote, origin/master)
Author: Rajatkumar Ramchandra Singh <rajatkumar.singh@bcone.com>
Date: Mon May 4 13:31:12 2020 +0530

    My 1st commit

Rajatkumar.Singh@DEL-F96XFW2 MINGW64 ~/Desktop/Git Tutorial/Demo (master)
$
```

2. You can also see the changes done previously on a file by firing command **git difftool 1stCommitId 2ndCommitID**. You can see the commitID from git log command. Instead of commitID you can also use **HEAD**. For 2nd commit you can type **HEAD~2** and so on.

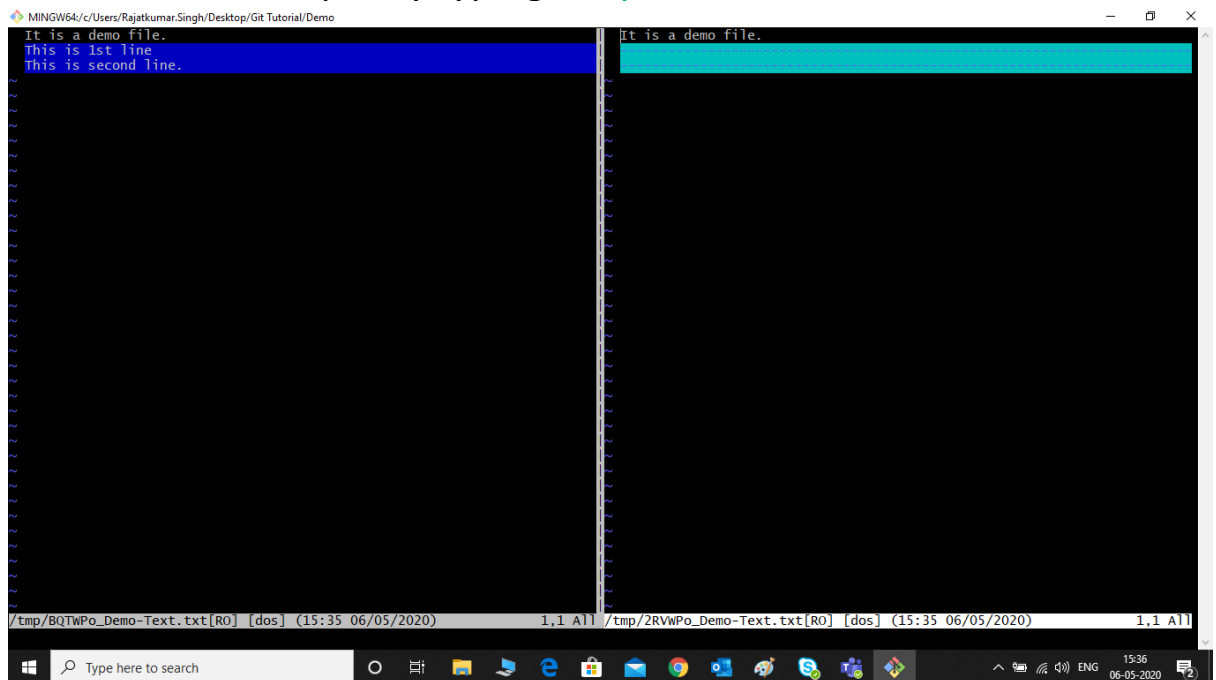


```
Rajatkumar.Singh@DEL-F96XFW2 MINGW64 ~/Desktop/Git Tutorial/Demo (master)
$ git difftool 85bc6787 bc3c615

This message is displayed because 'diff.tool' is not configured.
See 'git difftool --tool-help' or 'git help config' for more details.
'git difftool' will now attempt to use one of the following tools:
opendiff kdiff3 tkdiff xxdiff meld kompare gvimdiff diffuse diffmerge ecmerge p4merge araxis bc codecompare smmerge emerge vimdiff

Viewing (1/1): 'Demo-Text.txt'
Launch 'vimdiff' [Y/n]? |
```

3. When you fire git difftool command and click yes a window will prompt and you will be able to see difference between both the commit. You can quit by typing `:wq` command.



4. To revert back uncommitted change, you can fire `git restore` `FileName` command.

```
MINGW64/c/Users/Rajatkumar.Singh/Desktop/Git Tutorial/Demo
Rajatkumar.Singh@DELL-F96XFW2 MINGW64 ~/Desktop/Git Tutorial/Demo (master)
$ ls
Demo-Text.txt

Rajatkumar.Singh@DELL-F96XFW2 MINGW64 ~/Desktop/Git Tutorial/Demo (master)
$ git status
On branch master
Your branch is ahead of 'origin/master' by 3 commits.
(use "git push" to publish your local commits)

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   Demo-Text.txt

no changes added to commit (use "git add" and/or "git commit -a")

Rajatkumar.Singh@DELL-F96XFW2 MINGW64 ~/Desktop/Git Tutorial/Demo (master)
$ git restore Demo-Text.txt

Rajatkumar.Singh@DELL-F96XFW2 MINGW64 ~/Desktop/Git Tutorial/Demo (master)
$ git status
On branch master
Your branch is ahead of 'origin/master' by 3 commits.
(use "git push" to publish your local commits)

nothing to commit, working tree clean

Rajatkumar.Singh@DELL-F96XFW2 MINGW64 ~/Desktop/Git Tutorial/Demo (master)
$ |
```

5. To revert back committed change as a new commit you can fire a command `git revert CommitID`. You can view it by firing `git log` command.

MINGW64:/c/Users/Rajatkumar.Singh/Desktop/Git Tutorial/Demo

```
Rajatkumar.Singh@DEL-F96XFW2 MINGW64 ~/Desktop/Git Tutorial/Demo (master)
$ git log
commit 7254305b7edbc05040fdaaaa2ac8222160845ae9 (HEAD -> master)
Author: Rajatkumar Ramchandra Singh <rajatkumar.singh@bcone.com>
Date: Wed May 6 15:55:49 2020 +0530

Latest commit

commit 85bc6787c898e2660b9d66d8dc64ff28f4e393cf
Author: Rajatkumar Ramchandra Singh <rajatkumar.singh@bcone.com>
Date: Wed May 6 15:32:59 2020 +0530

Added 2nd line

commit 43eb2692ce4bb493be1f4d55f93d2b9c9e935b4c
Author: Rajatkumar Ramchandra Singh <rajatkumar.singh@bcone.com>
Date: Wed May 6 15:32:13 2020 +0530

Added 1st line

commit bc3c61511fd801128f58e6d09177f00daeb0adbb (origin/slave-remote, origin/master)
Author: Rajatkumar Ramchandra Singh <rajatkumar.singh@bcone.com>
Date: Mon May 4 13:31:12 2020 +0530

My 1st commit

Rajatkumar.Singh@DEL-F96XFW2 MINGW64 ~/Desktop/Git Tutorial/Demo (master)
$ git revert 7254305b7
[master 72c398d] Revert "Latest commit"
Committer: Rajatkumar Ramchandra Singh <rajatkumar.singh@bcone.com>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

git config --global --edit

After doing this, you may fix the identity used for this commit with:
```

MINGW64:/c/Users/Rajatkumar.Singh/Desktop/Git Tutorial/Demo

```
git commit --amend --reset-author
1 file changed, 2 insertions(+), 1 deletion(-)

Rajatkumar.Singh@DEL-F96XFW2 MINGW64 ~/Desktop/Git Tutorial/Demo (master)
$ git log
commit 72c398d091d0ad96ac69edb42c985570c4c5076a (HEAD -> master)
Author: Rajatkumar Ramchandra Singh <rajatkumar.singh@bcone.com>
Date: Wed May 6 15:56:13 2020 +0530

Revert "Latest commit"

This reverts commit 7254305b7edbc05040fdaaaa2ac8222160845ae9.

commit 7254305b7edbc05040fdaaaa2ac8222160845ae9
Author: Rajatkumar Ramchandra Singh <rajatkumar.singh@bcone.com>
Date: Wed May 6 15:55:49 2020 +0530

Latest commit

commit 85bc6787c898e2660b9d66d8dc64ff28f4e393cf
Author: Rajatkumar Ramchandra Singh <rajatkumar.singh@bcone.com>
Date: Wed May 6 15:32:59 2020 +0530

Added 2nd line

commit 43eb2692ce4bb493be1f4d55f93d2b9c9e935b4c
Author: Rajatkumar Ramchandra Singh <rajatkumar.singh@bcone.com>
Date: Wed May 6 15:32:13 2020 +0530

Added 1st line

commit bc3c61511fd801128f58e6d09177f00daeb0adbb (origin/slave-remote, origin/master)
Author: Rajatkumar Ramchandra Singh <rajatkumar.singh@bcone.com>
Date: Mon May 4 13:31:12 2020 +0530

My 1st commit

Rajatkumar.Singh@DEL-F96XFW2 MINGW64 ~/Desktop/Git Tutorial/Demo (master)
$ |
```

6. To revert back committed change and jump back to previous commit fire a command `git reset PreviousCommitID`. You can view it by firing `git log` command.

```
MINGW64:/c:/Users/Rajatkumar.Singh/Desktop/Git Tutorial/Demo
Rajatkumar.Singh@DEL-F96XFW2 MINGW64 ~/Desktop/Git Tutorial/Demo (master)
$ git log
commit 72c398d091d0ad96ac69edb42c985570c4c5076a (HEAD -> master)
Author: Rajatkumar Ramchandra Singh <rajatkumar.singh@bccone.com>
Date: Wed May 6 15:56:13 2020 +0530

    Revert "Latest commit"

    This reverts commit 7254305b7edbc05040fdaeaa2ac8222160845ae9.

commit 7254305b7edbc05040fdaeaa2ac8222160845ae9
Author: Rajatkumar Ramchandra Singh <rajatkumar.singh@bccone.com>
Date: Wed May 6 15:55:49 2020 +0530

    Latest commit

commit 85bc6787c898e2660b9d66d8dc64ff28f4e393cf
Author: Rajatkumar Ramchandra Singh <rajatkumar.singh@bccone.com>
Date: Wed May 6 15:32:59 2020 +0530

    Added 2nd line

commit 43eb2692ce4bb493be1f4d55f93d2b9c9e935b4c
Author: Rajatkumar Ramchandra Singh <rajatkumar.singh@bccone.com>
Date: Wed May 6 15:32:13 2020 +0530

    Added 1st line

commit bc3c61511fd801128f58e6d09177f00daeb0adbb (origin/slave-remote, origin/master)
Author: Rajatkumar Ramchandra Singh <rajatkumar.singh@bccone.com>
Date: Mon May 4 13:31:12 2020 +0530

    My 1st commit

Rajatkumar.Singh@DEL-F96XFW2 MINGW64 ~/Desktop/Git Tutorial/Demo (master)
$ git reset 7254305b7e
Unstaged changes after reset:
M   Demo-Text.txt

Rajatkumar.Singh@DEL-F96XFW2 MINGW64 ~/Desktop/Git Tutorial/Demo (master)
$ |

Rajatkumar.Singh@DEL-F96XFW2 MINGW64 ~/Desktop/Git Tutorial/Demo (master)
$ git reset 7254305b7e
Unstaged changes after reset:
M   Demo-Text.txt

Rajatkumar.Singh@DEL-F96XFW2 MINGW64 ~/Desktop/Git Tutorial/Demo (master)
$ git log
commit 7254305b7edbc05040fdaeaa2ac8222160845ae9 (HEAD -> master)
Author: Rajatkumar Ramchandra Singh <rajatkumar.singh@bccone.com>
Date: Wed May 6 15:55:49 2020 +0530

    Latest commit

commit 85bc6787c898e2660b9d66d8dc64ff28f4e393cf
Author: Rajatkumar Ramchandra Singh <rajatkumar.singh@bccone.com>
Date: Wed May 6 15:32:59 2020 +0530

    Added 2nd line

commit 43eb2692ce4bb493be1f4d55f93d2b9c9e935b4c
Author: Rajatkumar Ramchandra Singh <rajatkumar.singh@bccone.com>
Date: Wed May 6 15:32:13 2020 +0530

    Added 1st line

commit bc3c61511fd801128f58e6d09177f00daeb0adbb (origin/slave-remote, origin/master)
Author: Rajatkumar Ramchandra Singh <rajatkumar.singh@bccone.com>
Date: Mon May 4 13:31:12 2020 +0530

    My 1st commit

Rajatkumar.Singh@DEL-F96XFW2 MINGW64 ~/Desktop/Git Tutorial/Demo (master)
```

Note: HEAD is current position which will show latest commit.