

# GIT COMMANDS

```
(base) dai@dai:~/Desktop/CDAC/DevOps$ ls -all
total 5786692
drwxrwxr-x 2 dai dai    4096 Jan  6 11:30 .
drwxrwxr-x 15 dai dai    4096 Jan  3 15:31 ..
-rw-rw-r-- 1 dai dai   935983 Jan  5 12:06 Assignment1.pdf
-rw-rw-r-- 1 dai dai    7967 Jan  6 10:25 Docker_Commands.ipynb
-rw-rw-r-- 1 dai dai  60016032 Jan  6 11:30 docker-compose-darwin-x86_64
-rw-rw-r-- 1 dai dai  58050464 Jan  6 11:26 docker-compose-linux-aarch64
-rw-rw-r-- 1 dai dai 5806536192 Jan  5 21:57 jupyter-tensorflow.tar
-rw-rw-r-- 1 dai dai    322 Jan  5 10:45 sql.py
(base) dai@dai:~/Desktop/CDAC/DevOps$ mkdir git-demo
(base) dai@dai:~/Desktop/CDAC/DevOps$ cd git-demo
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git init
Initialized empty Git repository in /home/dai/Desktop/CDAC/DevOps/git-demo/.git/
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ ls -all
total 12
drwxrwxr-x 3 dai dai 4096 Jan  9 11:02 .
drwxrwxr-x 3 dai dai 4096 Jan  9 11:02 ..
drwxrwxr-x 7 dai dai 4096 Jan  9 11:02 .git
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git branch
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git status
On branch master
```

No commits yet

```
nothing to commit (create/copy files and use "git add" to track)
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ nano test.py
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git status
On branch master
```

No commits yet

```
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    test.py
```

```
nothing added to commit but untracked files present (use "git add" to track)
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git add .
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git status
On branch master
```

No commits yet

Changes to be committed:

(use "git rm --cached <file>..." to unstage)

new file: test.py

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git commit -m "first commit"
```

```
[master (root-commit) 9824106] first commit
```

```
1 file changed, 1 insertion(+)
```

```
create mode 100644 test.py
```

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git push
```

```
fatal: No configured push destination.
```

Either specify the URL from the command-line or configure a remote repository using

```
git remote add <name> <url>
```

and then push using the remote name

```
git push <name>
```

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git status
```

```
On branch master
```

```
nothing to commit, working tree clean
```

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git log
```

```
commit 982410655f765f6925d18832579874c4f775470a (HEAD -> master)
```

```
Author: tejaskolhe27 <kolhetebh@gmail.com>
```

```
Date: Tue Jan 9 11:07:29 2024 +0530
```

first commit

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ nano test.py
```

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git status
```

```
On branch master
```

```
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: test.py

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

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git restore test.py
```

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ cat test.py
```

```
print("This is a file")
```

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git status
```

```
On branch master
```

```
nothing to commit, working tree clean
```

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ nano test.py
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git status
On branch master
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:   test.py
```

```
no changes added to commit (use "git add" and/or "git commit -a")
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git commit -a
Aborting commit due to empty commit message.
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git add .
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   test.py
```

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git log
commit 982410655f765f6925d18832579874c4f775470a (HEAD -> master)
Author: tejaskolhe27 <kolhetebh@gmail.com>
Date:   Tue Jan 9 11:07:29 2024 +0530
```

first commit

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git restore --staged test.py
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ cat test.py
print("This is a file")
print("line2")
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git status
On branch master
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:   test.py
```

```
no changes added to commit (use "git add" and/or "git commit -a")
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git add .
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git commit -m "test1 second line added"
[master c7e8811] test1 second line added
 1 file changed, 1 insertion(+)
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git log
commit c7e8811ad68cda879f7f3f418f5e87e10de50fc9 (HEAD -> master)
Author: tejaskolhe27 <kolhetebh@gmail.com>
Date:   Tue Jan 9 11:24:26 2024 +0530
```

test1 second line added

commit 982410655f765f6925d18832579874c4f775470a

Author: tejaskolhe27 <kolhetebh@gmail.com>

Date: Tue Jan 9 11:07:29 2024 +0530

first commit

(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo\$ cat test.py

print("This is a file")

print("line2")

(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo\$ git sta

stage stash status

(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo\$ git sta

stage stash status

(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo\$ git status

On branch master

nothing to commit, working tree clean

(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo\$ nano test.py

(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo\$ git status

On branch master

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: test.py

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

(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo\$ git commit -a

[master eaab686] third line added in test.py

1 file changed, 1 insertion(+)

(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo\$ git log

commit eaab68625957a154cd64a2f7acaa8eac4a2dd5a7 (HEAD -> master)

Author: tejaskolhe27 <kolhetebh@gmail.com>

Date: Tue Jan 9 11:28:05 2024 +0530

third line added in test.py

commit c7e8811ad68cda879f7f3f418f5e87e10de50fc9

Author: tejaskolhe27 <kolhetebh@gmail.com>

Date: Tue Jan 9 11:24:26 2024 +0530

test1 second line added

commit 982410655f765f6925d18832579874c4f775470a

Author: tejaskolhe27 <kolhetebh@gmail.com>

Date: Tue Jan 9 11:07:29 2024 +0530

first commit

(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo\$ git status

On branch master

nothing to commit, working tree clean

(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo\$ cat test.py

```
print("This is a file")
```

```
print("line2")
```

```
print("line3")
```

(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo\$ git revert eaab68625957a

[master 06b89a5] Revert "third line added in test.py"

1 file changed, 1 deletion(-)

(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo\$ git status

On branch master

nothing to commit, working tree clean

(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo\$ cat test.py

```
print("This is a file")
```

```
print("line2")
```

(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo\$ git log

commit 06b89a5427704c4f2a25f8d1c90eae4f1284bb12 (HEAD -> master)

Author: tejaskolhe27 <kolhetebh@gmail.com>

Date: Tue Jan 9 11:33:11 2024 +0530

Revert "third line added in test.py"

This reverts commit eaab68625957a154cd64a2f7acaa8eac4a2dd5a7.

commit eaab68625957a154cd64a2f7acaa8eac4a2dd5a7

Author: tejaskolhe27 <kolhetebh@gmail.com>

Date: Tue Jan 9 11:28:05 2024 +0530

third line added in test.py

commit c7e8811ad68cda879f7f3f418f5e87e10de50fc9

Author: tejaskolhe27 <kolhetebh@gmail.com>

Date: Tue Jan 9 11:24:26 2024 +0530

test1 second line added

commit 982410655f765f6925d18832579874c4f775470a

Author: tejaskolhe27 <kolhetebh@gmail.com>

Date: Tue Jan 9 11:07:29 2024 +0530

first commit

hint: after resolving the conflicts, mark the corrected paths

hint: with 'git add <paths>' or 'git rm <paths>'

hint: and commit the result with 'git commit'

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ cat test.py
```

```
print("This is a file")
```

```
print("line2")
```

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git status
```

On branch master

You are currently reverting commit 9824106.

(fix conflicts and run "git revert --continue")

(use "git revert --skip" to skip this patch)

(use "git revert --abort" to cancel the revert operation)

Unmerged paths:

(use "git restore --staged <file>..." to unstage)

(use "git add/rm <file>..." as appropriate to mark resolution)

deleted by them: test.py

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

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git revert --abort
```

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git status
```

On branch master

nothing to commit, working tree clean

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git log
```

```
commit 06b89a5427704c4f2a25f8d1c90eae4f1284bb12 (HEAD -> master)
```

```
Author: tejaskolhe27 <kolhetebh@gmail.com>
```

```
Date: Tue Jan 9 11:33:11 2024 +0530
```

Revert "third line added in test.py"

This reverts commit eaab68625957a154cd64a2f7acaa8eac4a2dd5a7.

```
commit eaab68625957a154cd64a2f7acaa8eac4a2dd5a7
```

```
Author: tejaskolhe27 <kolhetebh@gmail.com>
```

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ git revert 982410655f765f
```

```
CONFLICT (modify/delete): test.py deleted in (empty tree) and modified in HEAD. Version HEAD of test.py left in tree.
```

```
error: could not revert 9824106... first commit
```

```
Date: Tue Jan 9 11:28:05 2024 +0530
```

third line added in test.py

commit c7e8811ad68cda879f7f3f418f5e87e10de50fc9  
Author: tejaskolhe27 <kolhetebh@gmail.com>  
Date: Tue Jan 9 11:24:26 2024 +0530

test1 second line added

commit 982410655f765f6925d18832579874c4f775470a  
Author: tejaskolhe27 <kolhetebh@gmail.com>  
Date: Tue Jan 9 11:07:29 2024 +0530

first commit

# NEW FOLDER

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git-demo$ cd ..
(base) dai@dai:~/Desktop/CDAC/DevOps$ mkdir git1
(base) dai@dai:~/Desktop/CDAC/DevOps$ cd git1
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git init
Initialized empty Git repository in /home/dai/Desktop/CDAC/DevOps/git1/.git/
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ nano file1
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git status
On branch master
```

No commits yet

Untracked files:

(use "git add <file>..." to include in what will be committed)  
file1

nothing added to commit but untracked files present (use "git add" to track)

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git add .
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git commit -m "file1 added"
[master (root-commit) 1282e8d] file1 added
1 file changed, 2 insertions(+)
create mode 100644 file1
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git status
On branch master
```

nothing to commit, working tree clean

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git log
commit 1282e8de091e9b0c469571a7a202f25698e31ba0 (HEAD -> master)
Author: tejaskolhe27 <kolhetebh@gmail.com>
Date: Tue Jan 9 11:43:07 2024 +0530
```

file1 added

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ nano file1
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git commit -a -m "Third line added"
[master 9a13478] Third line added
1 file changed, 2 insertions(+)
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git log
```



commit 9a134787323de74827aaa5bb73dd478ff9aaf29c (HEAD -> master)  
Author: tejaskolhe27 <kolhetebh@gmail.com>  
Date: Tue Jan 9 11:45:22 2024 +0530

Third line added

commit 1282e8de091e9b0c469571a7a202f25698e31ba0  
Author: tejaskolhe27 <kolhetebh@gmail.com>  
Date: Tue Jan 9 11:43:07 2024 +0530

file1 added

(base) dai@dai:~/Desktop/CDAC/DevOps/git1\$ nano file1  
(base) dai@dai:~/Desktop/CDAC/DevOps/git1\$ git status  
On branch master  
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: file1

no changes added to commit (use "git add" and/or "git commit -a")  
(base) dai@dai:~/Desktop/CDAC/DevOps/git1\$ git commit -a -m "lin1 modified"  
[master 3c41a46] lin1 modified  
 1 file changed, 1 insertion(+), 2 deletions(-)  
(base) dai@dai:~/Desktop/CDAC/DevOps/git1\$ git log  
commit 3c41a46efb20603de43aeec1dad04a12501ba0e4 (HEAD -> master)  
Author: tejaskolhe27 <kolhetebh@gmail.com>  
Date: Tue Jan 9 11:48:11 2024 +0530

lin1 modified

commit 9a134787323de74827aaa5bb73dd478ff9aaf29c  
Author: tejaskolhe27 <kolhetebh@gmail.com>  
Date: Tue Jan 9 11:45:22 2024 +0530

Third line added

commit 1282e8de091e9b0c469571a7a202f25698e31ba0  
Author: tejaskolhe27 <kolhetebh@gmail.com>  
Date: Tue Jan 9 11:43:07 2024 +0530

file1 added

(base) dai@dai:~/Desktop/CDAC/DevOps/git1\$ git revert 3c41a46efb206  
[master 20c0cce] Revert "lin1 modified"  
 1 file changed, 2 insertions(+), 1 deletion(-)

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ cat file1
This is line1
This is line2
This is line3
```

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git status
On branch master
nothing to commit, working tree clean
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ nano file1
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git commit -a -m "line1 second modification"
[master 13fec74] line1 second modification
1 file changed, 1 insertion(+), 1 deletion(-)
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git status
On branch master
nothing to commit, working tree clean
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git log
commit 13fec7432c47d6cadb550ed20a249f1b2afe5d44 (HEAD -> master)
Author: tejaskolhe27 <kolhetebh@gmail.com>
Date: Tue Jan 9 11:53:22 2024 +0530
```

line1 second modification

```
commit 20c0cce8789fc2def490078968f4a172864774e5
Author: tejaskolhe27 <kolhetebh@gmail.com>
Date: Tue Jan 9 11:51:00 2024 +0530
```

Revert "lin1 modified"

This reverts commit 3c41a46efb20603de43aeec1dad04a12501ba0e4.

```
commit 3c41a46efb20603de43aeec1dad04a12501ba0e4
Author: tejaskolhe27 <kolhetebh@gmail.com>
Date: Tue Jan 9 11:48:11 2024 +0530
```

lin1 modified

```
commit 9a134787323de74827aaa5bb73dd478ff9aaf29c
Author: tejaskolhe27 <kolhetebh@gmail.com>
Date: Tue Jan 9 11:45:22 2024 +0530
```

Third line added

```
commit 1282e8de091e9b0c469571a7a202f25698e31ba0
Author: tejaskolhe27 <kolhetebh@gmail.com>
```

Date: Tue Jan 9 11:43:07 2024 +0530

file1 added

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git revert 20c0cce8789fc2d
```

Auto-merging file1

CONFLICT (content): Merge conflict in file1

error: could not revert 20c0cce... Revert "lin1 modified"

hint: after resolving the conflicts, mark the corrected paths

hint: with 'git add <paths>' or 'git rm <paths>'

hint: and commit the result with 'git commit'

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git status
```

On branch master

You are currently reverting commit 20c0cce.

(fix conflicts and run "git revert --continue")

(use "git revert --skip" to skip this patch)

(use "git revert --abort" to cancel the revert operation)

Unmerged paths:

(use "git restore --staged <file>..." to unstage)

(use "git add <file>..." to mark resolution)

both modified: file1

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

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ nano file1
```

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git status
```

On branch master

You are currently reverting commit 20c0cce.

(fix conflicts and run "git revert --continue")

(use "git revert --skip" to skip this patch)

(use "git revert --abort" to cancel the revert operation)

Unmerged paths:

(use "git restore --staged <file>..." to unstage)

(use "git add <file>..." to mark resolution)

both modified: file1

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

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git revert --continue
```

U file1

error: Committing is not possible because you have unmerged files.

hint: Fix them up in the work tree, and then use 'git add/rm <file>'

hint: as appropriate to mark resolution and make a commit.

fatal: Exiting because of an unresolved conflict.

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git add .
```

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git revert --continue
[master a3f0e06] Revert "Revert "lin1 modified""
1 file changed, 1 deletion(-)
```

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git status
On branch master
nothing to commit, working tree clean
```

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git revert --skip
error: no revert in progress
fatal: revert failed
```

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ nano file1
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ nano temp-data
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ nano file2
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ nano temp-data
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git status
On branch master
```

```
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    file2
    temp-data
```

nothing added to commit but untracked files present (use "git add" to track)

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ nano .gitignore
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git status
On branch master
Untracked files:
```

```
  (use "git add <file>..." to include in what will be committed)
    .gitignore
    file2
```

nothing added to commit but untracked files present (use "git add" to track)

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git add .
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git commit -m "file2 and .gitignore added"
[master 39d2dfd] file2 and .gitignore added
2 files changed, 2 insertions(+)
create mode 100644 .gitignore
create mode 100644 file2
```

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ nano temp-data
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git status
On branch master
nothing to commit, working tree clean
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$
```

# CREATING NEW BRANCHES

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git branch
* master
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ ls
file1 file2 temp-data
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git branch b1
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git branch
b1
* master
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git checkout b1
Switched to branch 'b1'
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git branch
* b1
  master
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git log
commit 39d2dfdfa12adb91d8ad4f2db6b4821dddddff8c2 (HEAD -> b1, master)
Author: tejaskolhe27 <kolhetebh@gmail.com>
Date: Tue Jan 9 12:08:02 2024 +0530
```

file2 and .gitignore added

```
commit a3f0e067314cbe54a2f661169f7a100219a61ebd
Author: tejaskolhe27 <kolhetebh@gmail.com>
Date: Tue Jan 9 11:59:07 2024 +0530
```

Revert "Revert "lin1 modified""

This reverts commit 20c0cce8789fc2def490078968f4a172864774e5.

```
commit 13fec7432c47d6cadb550ed20a249f1b2afe5d44
Author: tejaskolhe27 <kolhetebh@gmail.com>
Date: Tue Jan 9 11:53:22 2024 +0530
```

line1 second modification

```
commit 20c0cce8789fc2def490078968f4a172864774e5
Author: tejaskolhe27 <kolhetebh@gmail.com>
Date: Tue Jan 9 11:51:00 2024 +0530
```

Revert "lin1 modified"

This reverts commit 3c41a46efb20603de43aeec1dad04a12501ba0e4.

commit 3c41a46efb20603de43aeec1dad04a12501ba0e4

Author: tejaskolhe27 <kolhetebh@gmail.com>

Date: Tue Jan 9 11:48:11 2024 +0530

lin1 modified

commit 9a134787323de74827aaa5bb73dd478ff9aaf29c

Author: tejaskolhe27 <kolhetebh@gmail.com>

Date: Tue Jan 9 11:45:22 2024 +0530

Third line added

commit 1282e8de091e9b0c469571a7a202f25698e31ba0

Author: tejaskolhe27 <kolhetebh@gmail.com>

Date: Tue Jan 9 11:43:07 2024 +0530

file1 added

(base) dai@dai:~/Desktop/CDAC/DevOps/git1\$ nano b1-data1

(base) dai@dai:~/Desktop/CDAC/DevOps/git1\$ git status

On branch b1

Untracked files:

(use "git add <file>..." to include in what will be committed)

b1-data1

nothing added to commit but untracked files present (use "git add" to track)

(base) dai@dai:~/Desktop/CDAC/DevOps/git1\$ git add .

(base) dai@dai:~/Desktop/CDAC/DevOps/git1\$ git status

On branch b1

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

new file: b1-data1

(base) dai@dai:~/Desktop/CDAC/DevOps/git1\$ git checkout master

A b1-data1

Switched to branch 'master'

(base) dai@dai:~/Desktop/CDAC/DevOps/git1\$ git status

On branch master

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

new file: b1-data1

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git checkout b1
A      b1-data1
Switched to branch 'b1'
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git commit -m "b1-data1 added"
[b1 c2fa204] b1-data1 added
1 file changed, 1 insertion(+)
create mode 100644 b1-data1
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git status
On branch b1
nothing to commit, working tree clean
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ ls
b1-data1 file1 file2 temp-data
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git checkout master
Switched to branch 'master'
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ ls
file1 file2 temp-data
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git checkout b1
Switched to branch 'b1'
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ ls
b1-data1 file1 file2 temp-data
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ ls
b1-data1 file1 file2 temp-data
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ b1-data1 file1 file2 temp-data
bash: b1-data1: command not found
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ (base) dai@dai:~/Desktop/CDAC/DevOps/git1$
bash: syntax error near unexpected token `dai@dai:~/Desktop/CDAC/DevOps/git1$'
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ ls
b1-data1 file1 file2 temp-data
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ b1-data1 file1 file2 temp-data
bash: b1-data1: command not found
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ (base) dai@dai:~/Desktop/CDAC/DevOps/git1$
bash: syntax error near unexpected token `dai@dai:~/Desktop/CDAC/DevOps/git1$'
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ ls
b1-data1 file1 file2 temp-data
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git branch
* b1
  master
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git checkout master
Switched to branch 'master'
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git branch
b1
* master
```

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git merge b1
Updating 39d2dfd..c2fa204
Fast-forward
 b1-data1 | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 b1-data1
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ ls
b1-data1 file1 file2 temp-data
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ gti log
bash: gti: command not found
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ git log
commit c2fa204851c736e12c5536a2892f8d9ad267bc7b (HEAD -> master, b1)
Author: tejaskolhe27 <kolhetebh@gmail.com>
Date: Tue Jan 9 12:20:13 2024 +0530
```

b1-data1 added

```
commit 39d2dfdfa12adb91d8ad4f2db6b4821dddddff8c2
Author: tejaskolhe27 <kolhetebh@gmail.com>
Date: Tue Jan 9 12:08:02 2024 +0530
```

file2 and .gitignore added

```
commit a3f0e067314cbe54a2f661169f7a100219a61ebd
Author: tejaskolhe27 <kolhetebh@gmail.com>
Date: Tue Jan 9 11:59:07 2024 +0530
```

Revert "Revert "lin1 modified""

This reverts commit 20c0cce8789fc2def490078968f4a172864774e5.

```
commit 13fec7432c47d6cadb550ed20a249f1b2afe5d44
Author: tejaskolhe27 <kolhetebh@gmail.com>
Date: Tue Jan 9 11:53:22 2024 +0530
```

line1 second modification

```
commit 20c0cce8789fc2def490078968f4a172864774e5
Author: tejaskolhe27 <kolhetebh@gmail.com>
Date: Tue Jan 9 11:51:00 2024 +0530
```

Revert "lin1 modified"

This reverts commit 3c41a46efb20603de43aeec1dad04a12501ba0e4.



commit 3c41a46efb20603de43aee1dad04a12501ba0e4  
Author: tejaskolhe27 <kolhetebh@gmail.com>  
Date: Tue Jan 9 11:48:11 2024 +0530

lin1 modified

commit 9a134787323de74827aaa5bb73dd478ff9aaf29c  
Author: tejaskolhe27 <kolhetebh@gmail.com>  
Date: Tue Jan 9 11:45:22 2024 +0530

Third line added

commit 1282e8de091e9b0c469571a7a202f25698e31ba0  
Author: tejaskolhe27 <kolhetebh@gmail.com>  
Date: Tue Jan 9 11:43:07 2024 +0530

file1 added

(base) dai@dai:~/Desktop/CDAC/DevOps/git1\$ git branch -d b1  
Deleted branch b1 (was c2fa204).

(base) dai@dai:~/Desktop/CDAC/DevOps/git1\$ git branch  
\* master

(base) dai@dai:~/Desktop/CDAC/DevOps/git1\$ git branch b2

(base) dai@dai:~/Desktop/CDAC/DevOps/git1\$ git branch  
b2

\* master

(base) dai@dai:~/Desktop/CDAC/DevOps/git1\$ git branch -M b2 ui

(base) dai@dai:~/Desktop/CDAC/DevOps/git1\$ git branch

\* master

ui

# MERGE & REBASE BRANCHES

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git1$ cd ..
(base) dai@dai:~/Desktop/CDAC/DevOps$ mkdir git2
(base) dai@dai:~/Desktop/CDAC/DevOps$ cd git2
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git init
Initialized empty Git repository in /home/dai/Desktop/CDAC/DevOps/git2/.git/
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ nano m1
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git add.
git: 'add.' is not a git command. See 'git --help'.
```

The most similar command is

add

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git add .
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git commit -m "first master commit"
[master (root-commit) 23d46bf] first master commit
1 file changed, 2 insertions(+)
create mode 100644 m1
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git log
commit 23d46bfc9d46a2d9f017f29f2276c4c7862a1ca7 (HEAD -> master)
Author: tejaskolhe27 <kolhetebh@gmail.com>
Date: Tue Jan 9 12:44:53 2024 +0530
```

first master commit

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git branch b1
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git branch b2
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git branch
b1
b2
* master
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git checkout b1
Switched to branch 'b1'
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git log
commit 23d46bfc9d46a2d9f017f29f2276c4c7862a1ca7 (HEAD -> b1, master, b2)
Author: tejaskolhe27 <kolhetebh@gmail.com>
Date: Tue Jan 9 12:44:53 2024 +0530
```

first master commit

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ nano b1-file1
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git add .
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git commit -a -m "b1 commit"
```

```
[b1 4f1070a] b1 commit
1 file changed, 1 insertion(+)
create mode 100644 b1-file1
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git log
commit 4f1070aeb208a507fc286b15a88a5b4f214ac3be (HEAD -> b1)
Author: tejaskolhe27 <kolhetebh@gmail.com>
Date: Tue Jan 9 12:48:03 2024 +0530
```

b1 commit

```
commit 23d46bfc9d46a2d9f017f29f2276c4c7862a1ca7 (master, b2)
Author: tejaskolhe27 <kolhetebh@gmail.com>
Date: Tue Jan 9 12:44:53 2024 +0530
```

first master commit

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ nano b1-file2
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git add .
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git commit -a -m "b1 commit2"
[b1 6fc6383] b1 commit2
1 file changed, 1 insertion(+)
create mode 100644 b1-file2
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git log
commit 6fc63834240d8e55e997f831223108d5b78ec765 (HEAD -> b1)
Author: tejaskolhe27 <kolhetebh@gmail.com>
Date: Tue Jan 9 12:49:35 2024 +0530
```

b1 commit2

```
commit 4f1070aeb208a507fc286b15a88a5b4f214ac3be
Author: tejaskolhe27 <kolhetebh@gmail.com>
Date: Tue Jan 9 12:48:03 2024 +0530
```

b1 commit

```
commit 23d46bfc9d46a2d9f017f29f2276c4c7862a1ca7 (master, b2)
Author: tejaskolhe27 <kolhetebh@gmail.com>
Date: Tue Jan 9 12:44:53 2024 +0530
```

first master commit

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git checkout b2
Switched to branch 'b2'
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ ls
m1
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ nano b2-file1
```

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git add .
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git commit -a -m "b2 commit1"
[b2 3ffc231] b2 commit1
1 file changed, 1 insertion(+)
create mode 100644 b2-file1
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ nano b2-file2
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git add .
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git commit -a -m "b2 commit2"
[b2 3ecf2f1] b2 commit2
1 file changed, 2 insertions(+)
create mode 100644 b2-file2
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git log
commit 3ecf2f10d1f1a1f04a79efa0060c4dcb39a817a4 (HEAD -> b2)
Author: tejaskolhe27 <kolhetebh@gmail.com>
Date: Tue Jan 9 12:51:29 2024 +0530
```

b2 commit2

```
commit 3ffc23146bb23dff38cf9cc8aec11b92969baeaf
Author: tejaskolhe27 <kolhetebh@gmail.com>
Date: Tue Jan 9 12:51:01 2024 +0530
```

b2 commit1

```
commit 23d46bfc9d46a2d9f017f29f2276c4c7862a1ca7 (master)
Author: tejaskolhe27 <kolhetebh@gmail.com>
Date: Tue Jan 9 12:44:53 2024 +0530
```

first master commit

```
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git checkout master
Switched to branch 'master'
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ nano m2
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git add .
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git commit -a -m "master commit2"
[master c2bac0f] master commit2
1 file changed, 1 insertion(+)
create mode 100644 m2
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git checkout b1
Switched to branch 'b1'
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ ls
b1-file1 b1-file2 m1
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$ git merge master
Merge made by the 'recursive' strategy.
m2 | 1 +
```

1 file changed, 1 insertion(+)  
create mode 100644 m2  
(base) dai@dai:~/Desktop/CDAC/DevOps/git2\$ ls  
b1-file1 b1-file2 m1 m2  
(base) dai@dai:~/Desktop/CDAC/DevOps/git2\$ git log  
commit feb64ddc857b8a1daebe4895c1d0a358bc893c4f (HEAD -> b1)  
Merge: 6fc6383 c2bac0f  
Author: tejaskolhe27 <kolhetebh@gmail.com>  
Date: Tue Jan 9 12:55:32 2024 +0530

Merge branch 'master' into b1

commit c2bac0f4d82c0c7a4636c3290f43067353759ddf (master)  
Author: tejaskolhe27 <kolhetebh@gmail.com>  
Date: Tue Jan 9 12:53:43 2024 +0530

master commit2

commit 6fc63834240d8e55e997f831223108d5b78ec765  
Author: tejaskolhe27 <kolhetebh@gmail.com>  
Date: Tue Jan 9 12:49:35 2024 +0530

b1 commit2

commit 4f1070aeb208a507fc286b15a88a5b4f214ac3be  
Author: tejaskolhe27 <kolhetebh@gmail.com>  
Date: Tue Jan 9 12:48:03 2024 +0530

b1 commit

commit 23d46bfc9d46a2d9f017f29f2276c4c7862a1ca7  
Author: tejaskolhe27 <kolhetebh@gmail.com>  
Date: Tue Jan 9 12:44:53 2024 +0530

first master commit

(base) dai@dai:~/Desktop/CDAC/DevOps/git2\$ git checkout master  
Switched to branch 'master'  
(base) dai@dai:~/Desktop/CDAC/DevOps/git2\$ git log  
commit c2bac0f4d82c0c7a4636c3290f43067353759ddf (HEAD -> master)  
Author: tejaskolhe27 <kolhetebh@gmail.com>  
Date: Tue Jan 9 12:53:43 2024 +0530

master commit2

commit 23d46bfc9d46a2d9f017f29f2276c4c7862a1ca7

Author: tejaskolhe27 <kolhetebh@gmail.com>

Date: Tue Jan 9 12:44:53 2024 +0530

first master commit

(base) dai@dai:~/Desktop/CDAC/DevOps/git2\$ git checkout b2

Switched to branch 'b2'

(base) dai@dai:~/Desktop/CDAC/DevOps/git2\$ ls

b2-file1 b2-file2 m1

(base) dai@dai:~/Desktop/CDAC/DevOps/git2\$ git merge master

Merge made by the 'recursive' strategy.

m2 | 1 +

1 file changed, 1 insertion(+)

create mode 100644 m2

(base) dai@dai:~/Desktop/CDAC/DevOps/git2\$ ls

b2-file1 b2-file2 m1 m2

(base) dai@dai:~/Desktop/CDAC/DevOps/git2\$ git rebase master

First, rewinding head to replay your work on top of it...

Applying: b2 commit1

Applying: b2 commit2

(base) dai@dai:~/Desktop/CDAC/DevOps/git2\$ ls

b2-file1 b2-file2 m1 m2

(base) dai@dai:~/Desktop/CDAC/DevOps/git2\$ git log

commit 6564f90f21a18ff4e68d308af6dda1fbaf93284d (HEAD -> b2)

Author: tejaskolhe27 <kolhetebh@gmail.com>

Date: Tue Jan 9 12:51:29 2024 +0530

b2 commit2

commit f060bdfe022b6d2b72ef4e1781f5d6944e0046c8

Author: tejaskolhe27 <kolhetebh@gmail.com>

Date: Tue Jan 9 12:51:01 2024 +0530

b2 commit1

commit c2bac0f4d82c0c7a4636c3290f43067353759ddf (master)

Author: tejaskolhe27 <kolhetebh@gmail.com>

Date: Tue Jan 9 12:53:43 2024 +0530

master commit2

commit 23d46bfc9d46a2d9f017f29f2276c4c7862a1ca7

Author: tejaskolhe27 <kolhetebh@gmail.com>

Date: Tue Jan 9 12:44:53 2024 +0530

```
first master commit  
(base) dai@dai:~/Desktop/CDAC/DevOps/git2$
```