root@ip-172-31-31-134:~/day3

```
[root@ip-172-31-31-134 ~]# mkdir day3
[root@ip-172-31-31-134 ~]# cd day3/
[root@ip-172-31-31-134 day3]# git init
Initialized empty Git repository in /root/day3/.git/
[root@ip-172-31-31-134 day3]# vi test
[root@ip-172-31-31-134 day3]# git add test
[root@ip-172-31-31-134 day3]# git commit -m "First commit"
[master (root-commit) b556251] First commit
 Committer: root <root@ip-172-31-31-134.us-east-2.compute.internal>
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:

    git commit --amend --reset-author

 1 file changed, 1 insertion(+)
 create mode 100644 test
[root@ip-172-31-31-134 day3]# git config --global user.name "Srinithya"
[root@ip-172-31-31-134 day3]# git config --global user.email "srinithya79@gmail.com"
[root@ip-172-31-31-134 day3]#
```

```
[root@ip-172-31-31-134 day3]# git log
commit b5562519ab38903bff24e2e0c7d79fc6cd05c8f3 (HEAD -> master)
Author: root <root@ip-172-31-31-134.us-east-2.compute.internal>
Date:   Mon May 24 17:30:20 2021 +0000

    First commit
[root@ip-172-31-31-134 day3]# git show^C
[root@ip-172-31-31-134 day3]# git show b5562519ab38903bff24e2e0c7d79fc6cd05c8f3
commit b5562519ab38903bff24e2e0c7d79fc6cd05c8f3 (HEAD -> master)
Author: root <root@ip-172-31-31-134.us-east-2.compute.internal>
Date:   Mon May 24 17:30:20 2021 +0000

    First commit

diff --git a/test b/test
new file mode 100644
index 0000000..603cb1b
--- /dev/null
+++ b/test
@@ -0,0 +1 @@
+First Line
[root@ip-172-31-31-134 day3]#
```

```
[root@ip-172-31-31-134 day3]# git commit -am "Second commit"
[master 6e80292] Second commit
 1 file changed, 1 insertion(+)
[root@ip-172-31-31-134 day3]# git log
commit 6e80292b719c0608487e0e9f062f8a29808b2590 (HEAD -> master)
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 17:35:45 2021 +0000

    Second commit

commit b5562519ab38903bff24e2e0c7d79fc6cd05c8f3
Author: root <root@ip-172-31-31-134.us-east-2.compute.internal>
Date:   Mon May 24 17:30:20 2021 +0000

    First commit
[root@ip-172-31-31-134 day3]# git branch dev
[root@ip-172-31-31-134 day3]# git checkout dev
Switched to branch 'dev'
[root@ip-172-31-31-134 day3]# vi newtest
[root@ip-172-31-31-134 day3]# vi newtest
[root@ip-172-31-31-134 day3]# ls -lrt
total 8
-rw-r--r-- 1 root root 23 May 24 17:35 test
-rw-r--r-- 1 root root 12 May 24 17:39 newtest
[root@ip-172-31-31-134 day3]# git add .
[root@ip-172-31-31-134 day3]# git commit -m "Fourth commit"
[dev 11f24de] Fourth commit
 1 file changed, 1 insertion(+)
 create mode 100644 newtest
[root@ip-172-31-31-134 day3]# git log
commit 11f24debd0462afe6a21e4fd3f8d3b41f3abaa5b (HEAD -> dev)
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 17:41:58 2021 +0000

    Fourth commit

commit 6e80292b719c0608487e0e9f062f8a29808b2590 (master)
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 17:35:45 2021 +0000

    Second commit

commit b5562519ab38903bff24e2e0c7d79fc6cd05c8f3
Author: root <root@ip-172-31-31-134.us-east-2.compute.internal>
Date:   Mon May 24 17:30:20 2021 +0000

    First commit
[root@ip-172-31-31-134 day3]#
```

```
root@ip-172-31-31-134:~/day3
[root@ip-172-31-31-134 day3]# git branch
* dev
  master
[root@ip-172-31-31-134 day3]# git checkout master
Switched to branch 'master'
[root@ip-172-31-31-134 day3]# git branch
  dev
* master
[root@ip-172-31-31-134 day3]# ls
test
[root@ip-172-31-31-134 day3]# ls -lrt
total 4
-rw-r--r-- 1 root root 23 May 24 17:35 test
[root@ip-172-31-31-134 day3]# git log
commit 6e80292b719c0608487e0e9f062f8a29808b2590 (HEAD -> master)
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 17:35:45 2021 +0000

    Second commit

commit b5562519ab38903bff24e2e0c7d79fc6cd05c8f3
Author: root <root@ip-172-31-31-134.us-east-2.compute.internal>
Date:   Mon May 24 17:30:20 2021 +0000

    First commit
[root@ip-172-31-31-134 day3]# ls
test
[root@ip-172-31-31-134 day3]# git checkout dev
Switched to branch 'dev'
[root@ip-172-31-31-134 day3]# ls
newtest  test
[root@ip-172-31-31-134 day3]# git checkout master
Switched to branch 'master'
[root@ip-172-31-31-134 day3]# vi test
[root@ip-172-31-31-134 day3]# git commit -am "Third commit"
[master 35f984f] Third commit
 1 file changed, 1 insertion(+)
[root@ip-172-31-31-134 day3]#
```

3 RULES Before Creating merge we need to check
git branch
git pull (already to update)
git log

```
[root@ip-172-31-31-134 day3]# git branch
  dev
* master
[root@ip-172-31-31-134 day3]# git log
commit 35f984febfe5ca10ab40c8e8be6d21d4f1afb7ce (HEAD -> master)
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 17:49:37 2021 +0000

    Third commit

commit 6e80292b719c0608487e0e9f062f8a29808b2590
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 17:35:45 2021 +0000

    Second commit

commit b5562519ab38903bff24e2e0c7d79fc6cd05c8f3
Author: root <root@ip-172-31-31-134.us-east-2.compute.internal>
Date:   Mon May 24 17:30:20 2021 +0000

    First commit
[root@ip-172-31-31-134 day3]#
```

REBASE

To do the rebase we have to run from the feature branch

```
root@ip-172-31-31-134:~/day3
[root@ip-172-31-31-134 day3]# git checkout dev
Switched to branch 'dev'
[root@ip-172-31-31-134 day3]# git rebase master
First, rewinding head to replay your work on top of it...
Applying: Fourth commit
[root@ip-172-31-31-134 day3]# git log
commit aa60688e949229a484d38c2bda06ab184e446bf9 (HEAD -> dev)
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 17:41:58 2021 +0000

    Fourth commit

commit 35f984febfe5ca10ab40c8e8be6d21d4f1afb7ce (master)
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 17:49:37 2021 +0000

    Third commit

commit 6e80292b719c0608487e0e9f062f8a29808b2590
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 17:35:45 2021 +0000

    Second commit

commit b5562519ab38903bff24e2e0c7d79fc6cd05c8f3
Author: root <root@ip-172-31-31-134.us-east-2.compute.internal>
Date:   Mon May 24 17:30:20 2021 +0000

    First commit
[root@ip-172-31-31-134 day3]#
```

root@ip-172-31-31-134:~/day3

```
[root@ip-172-31-31-134 day3]# git checkout master
Switched to branch 'master'
[root@ip-172-31-31-134 day3]# git branch
  dev
* master
[root@ip-172-31-31-134 day3]# git log
commit 35f984febfe5ca10ab40c8e8be6d21d4f1afb7ce (HEAD -> master)
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 17:49:37 2021 +0000

    Third commit

commit 6e80292b719c0608487e0e9f062f8a29808b2590
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 17:35:45 2021 +0000

    Second commit

commit b5562519ab38903bff24e2e0c7d79fc6cd05c8f3
Author: root <root@ip-172-31-31-134.us-east-2.compute.internal>
Date:   Mon May 24 17:30:20 2021 +0000

    First commit
[root@ip-172-31-31-134 day3]# git merge dev
Updating 35f984f..aa60688
Fast-forward
 newtest | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 newtest
[root@ip-172-31-31-134 day3]#
```

```
[root@ip-172-31-31-134 day3]# git merge dev
Updating 35f984f..aa60688
Fast-forward
 newtest | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 newtest
[root@ip-172-31-31-134 day3]# git log
commit aa60688e949229a484d38c2bda06ab184e446bf9 (HEAD -> master, dev)
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 17:41:58 2021 +0000

    Fourth commit

commit 35f984febfe5ca10ab40c8e8be6d21d4f1afb7ce
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 17:49:37 2021 +0000

    Third commit

commit 6e80292b719c0608487e0e9f062f8a29808b2590
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 17:35:45 2021 +0000

    Second commit

commit b5562519ab38903bff24e2e0c7d79fc6cd05c8f3
Author: root <root@ip-172-31-31-134.us-east-2.compute.internal>
Date:   Mon May 24 17:30:20 2021 +0000

    First commit
[root@ip-172-31-31-134 day3]#
```

Type here to search

```
[root@ip-172-31-31-134 day3]# ls -lrt
total 8
-rw-r--r-- 1 root root 34 May 24 18:00 test
-rw-r--r-- 1 root root 12 May 24 18:12 newtest
[root@ip-172-31-31-134 day3]# cat test
First Line
Second Line
Third Line
[root@ip-172-31-31-134 day3]# cat newtest
Fourth Line
[root@ip-172-31-31-134 day3]# cd
[root@ip-172-31-31-134 ~]# pwd
/root
[root@ip-172-31-31-134 ~]# su -
Last login: Mon May 24 17:26:23 UTC 2021 on pts/0
[root@ip-172-31-31-134 ~]# su - ec2-user
Last login: Mon May 24 17:26:14 UTC 2021 from 122.174.215.93 on pts/0
[ec2-user@ip-172-31-31-134 ~]$ pwd
/home/ec2-user
[ec2-user@ip-172-31-31-134 ~]$ sudo su - root
Last login: Mon May 24 18:29:09 UTC 2021 on pts/0
[root@ip-172-31-31-134 ~]# pwd
/root
[root@ip-172-31-31-134 ~]#
```

CHERRYPICK

```
[root@ip-172-31-31-134 ~]# mkdir cp
[root@ip-172-31-31-134 ~]# cd cp/
[root@ip-172-31-31-134 cp]# git init
Initialized empty Git repository in /root/cp/.git/
[root@ip-172-31-31-134 cp]# vi test
[root@ip-172-31-31-134 cp]# git add .
[root@ip-172-31-31-134 cp]# git commit -m "First Commit"
[master (root-commit) 459f69c] First Commit
 1 file changed, 1 insertion(+)
 create mode 100644 test
[root@ip-172-31-31-134 cp]# git log
commit 459f69cb104031c6499948cbfdf58946c9998df4 (HEAD -> master)
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 18:35:47 2021 +0000

    First Commit
[root@ip-172-31-31-134 cp]# git branch dev
[root@ip-172-31-31-134 cp]# git checkout dev
Switched to branch 'dev'
[root@ip-172-31-31-134 cp]# vi test
[root@ip-172-31-31-134 cp]# git commit -am "second commit"
[dev d6ada6c] second commit
 1 file changed, 1 insertion(+)
[root@ip-172-31-31-134 cp]# vi test
[root@ip-172-31-31-134 cp]# git commit -am "Third commit"
[dev 36010fd] Third commit
 1 file changed, 1 insertion(+)
[root@ip-172-31-31-134 cp]# git log
commit 36010fdcc008a3c4be1ad01d82222306a420c540 (HEAD -> dev)
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 18:38:44 2021 +0000

    Third commit

commit d6ada6cf904d60c22f7379b09cf5c67bf02fd241
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 18:37:49 2021 +0000

    second commit

commit 459f69cb104031c6499948cbfdf58946c9998df4 (master)
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 18:35:47 2021 +0000

    First Commit
[root@ip-172-31-31-134 cp]#
```

```
[root@ip-172-31-31-134 cp]# git branch
* dev
  master
[root@ip-172-31-31-134 cp]# git checkout master
Switched to branch 'master'
[root@ip-172-31-31-134 cp]# git cherry-pick d6ada6cf904d60c22f7379b09cf5c67bf02fd241
[master 7f5c47e] second commit
 Date: Mon May 24 18:37:49 2021 +0000
 1 file changed, 1 insertion(+)
[root@ip-172-31-31-134 cp]# git log
commit 7f5c47e4eb2f5d2aa5176d343d49298c24515179 (HEAD -> master)
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 18:37:49 2021 +0000

    second commit

commit 459f69cb104031c6499948cbfdf58946c9998df4
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 18:35:47 2021 +0000

    First Commit
[root@ip-172-31-31-134 cp]# git checkout dev
Switched to branch 'dev'
[root@ip-172-31-31-134 cp]# git log
commit 36010fdcc008a3c4be1ad01d82222306a420c540 (HEAD -> dev)
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 18:38:44 2021 +0000

    Third commit

commit d6ada6cf904d60c22f7379b09cf5c67bf02fd241
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 18:37:49 2021 +0000

    second commit

commit 459f69cb104031c6499948cbfdf58946c9998df4
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 18:35:47 2021 +0000

    First Commit
[root@ip-172-31-31-134 cp]#
```

```
[root@ip-172-31-31-134 cp]# git log
commit 36010fdcc008a3c4be1ad01d82222306a420c540 (HEAD -> dev)
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 18:38:44 2021 +0000

    Third commit

commit d6ada6cf904d60c22f7379b09cf5c67bf02fd241
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 18:37:49 2021 +0000

    second commit

commit 459f69cb104031c6499948cbfdf58946c9998df4
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 18:35:47 2021 +0000

    First Commit
[root@ip-172-31-31-134 cp]# git checkout master
Switched to branch 'master'
[root@ip-172-31-31-134 cp]# git log
commit 7f5c47e4eb2f5d2aa5176d343d49298c2451517 (HEAD -> master)
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 18:37:49 2021 +0000

    second commit

commit 459f69cb104031c6499948cbfdf58946c9998df4
Author: Srinithya <srinithya79@gmail.com>
Date:   Mon May 24 18:35:47 2021 +0000

    First Commit
[root@ip-172-31-31-134 cp]# 
```