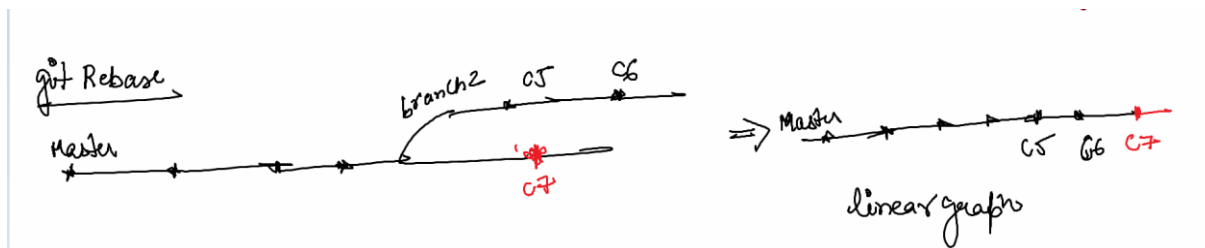git branch

(check if you are on master as current branch)

git branch branch2

git checkout branch2


```
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ git branch
  branch1
* master
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$
```



```
File   Edit   View   Search   Terminal   Help
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ git branch branch2
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ git checkout branch2
Switched to branch 'branch2'
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ git branch
  branch1
* branch2
  master
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$
```

2) now since we are in branch2 …we will create a file and add it to staging area and then commit it in branch2

touch file2branch2

git add .

git commit -m"c5"

```
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ touch file2branch2
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ git add .
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ git commit -m"c5"~
[branch2 b6cf680] c5~
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 file2branch2
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ git log --oneline
b6cf680 (HEAD -> branch2) c5~
c09b882 (master) c4
eeb7137 c3
392de7c (branch1) c2
0fa0ab9 c1
621949d (origin/master) newcommit
a29569a Create newfile.txt
be314c6 second commit
b686c43 first commit
```

touch file3branch2

git add .

git commit -m"c6"

```
File  Edit  View  Search  Terminal  Help
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ touch file3branch2
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ git add .
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ git commit "c6
error: pathspec 'c6' did not match any file(s) known to git
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ git commit -m "c6"
[branch2 f4122e0] c6
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 file3branch2
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ ▮
```

3) now we will go back to the master branch and will create a file in master and also create a commit c7 in master branch
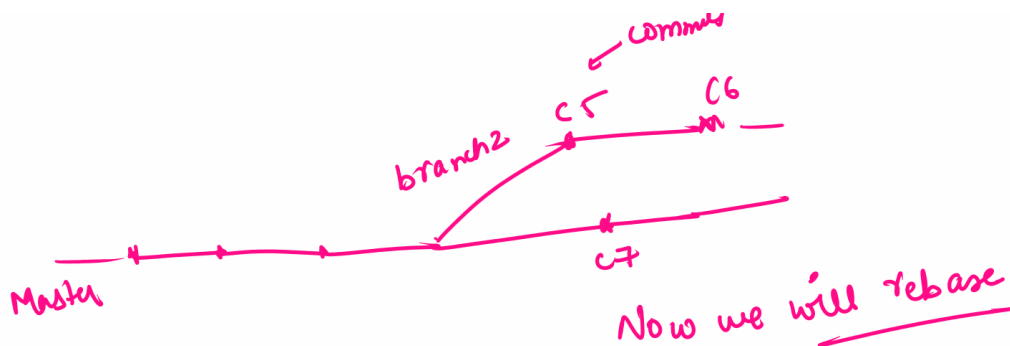
git checkout master

touch file2master

git add .

git commit -m"c7"

```
File   Edit   View   Search   Terminal   Help
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ git checkout master
Switched to branch 'master'
Your branch is ahead of 'origin/master' by 4 commits.
  (use "git push" to publish your local commits)
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ git branch
  branch1
  branch2
* master
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ touch file2master
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ git add .
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ git commit -m"c7"
[master b133304] c7
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 file2master
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$
```


Ensure that you are on master

git branch

git rebase branch2

```
File  Edit  View  Search  Terminal  Help
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ git branch
  branch1
  branch2
* master
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ git rebase branch2
Successfully rebased and updated refs/heads/master.
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ █
```

now lets see the log

git log –oneline –graph

```
File  Edit  View  Search  Terminal  Help
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ git log --oneline --graph
* f397347 (HEAD -> master) c7
* f4122e0 (branch2) c6
* b6cf680 c5~
*   c09b882 c4
|\
| * 392de7c (branch1) c2
| * 0fa0ab9 c1
* | eeb7137 c3
|/
* 621949d (origin/master) newcommit
* a29569a Create newfile.txt
* be314c6 second commit
* b686c43 first commit
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ █
```

You will get linear graph