DevOps – Elective - Virtual Hackathon - 1

Name: Nikhil S A

Roll No: 18BEC033

Name : Jagadeesh C

Roll no: 18BCS033

Instruction -1:

Instruction 2:


```
Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git branch Branch1

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git branch Branch2

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git checkout Branch1
Switched to branch 'Branch1'
M       pgr2.txt

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch1)
$ ls -la
total 6
drwxr-xr-x 1 Nikil 197121  0 Aug 26 16:41 ./
drwxr-xr-x 1 Nikil 197121  0 Aug 26 16:13 ../
drwxr-xr-x 1 Nikil 197121  0 Aug 26 16:50 .git/
-rw-r--r-- 1 Nikil 197121 20 Aug 26 16:14 pgr1.txt
-rw-r--r-- 1 Nikil 197121 48 Aug 26 16:48 pgr2.txt

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch1)
$ cat pgr2.txt
welcome
First modification
second modification

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch1)
$ code pgr2.txt

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch1)
$ git status
On branch Branch1
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:   pgr2.txt

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

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch1)
$ git add .
warning: LF will be replaced by CRLF in pgr2.txt.
The file will have its original line endings in your working directory

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch1)
$ git commit -m "c3"
[Branch1 7a81b22] c3
 1 file changed, 2 insertions(+)

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch1)
$ code pgr2.txt

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch1)
$ cat pgr2.txt
welcome
First modification
Second modification
```



```
Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch1)
$ git status
On branch Branch1
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:   pgr2.txt

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

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch1)
$ git add .
warning: LF will be replaced by CRLF in pgr2.txt.
The file will have its original line endings in your working directory

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch1)
$ git commit -m "c4"
[Branch1 2e80cd1] c4
 1 file changed, 1 insertion(+), 1 deletion(-)

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch1)
$ git checkout Branch2
Switched to branch 'Branch2'

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch2)
$ cat pgr2.txt
welcome

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch2)
$ code pgr2.txt

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch2)
$ git status
On branch Branch2
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:   pgr2.txt

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

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch2)
$ git add .

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch2)
$ git commit -m "c5"
[Branch2 a5e18c7] c5
 1 file changed, 1 insertion(+)

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch2)
$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git merge Branch1
Updating 4861857..2e80cd1
```

```
pgr2.txt | 2 ++
1 file changed, 2 insertions(+)
Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git merge Branch2
Auto-merging pgr2.txt
CONFLICT (content): Merge conflict in pgr2.txt
Automatic merge failed; fix conflicts and then commit the result.

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master|MERGING)
$ git status
On branch master
Your branch is ahead of 'origin/master' by 2 commits.
  (use "git push" to publish your local commits)

You have unmerged paths.
  (fix conflicts and run "git commit")
  (use "git merge --abort" to abort the merge)

Unmerged paths:
  (use "git add <file>..." to mark resolution)
        both modified:   pgr2.txt

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

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master|MERGING)
$ git add .

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master|MERGING)
$ git commit -m "c6"
[master 9fd38ec] c6

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git merge Branch2
Already up to date.

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git status
On branch master
Your branch is ahead of 'origin/master' by 4 commits.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git branch -D Branch1
Deleted branch Branch1 (was 2e80cd1).

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git branch -D Branch2
Deleted branch Branch2 (was a5e18c7).

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git status
On branch master
Your branch is ahead of 'origin/master' by 4 commits.
  (use "git push" to publish your local commits)
```

```
Your branch is ahead of 'origin/master' by 4 commits.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git log
commit 9fd38ec7b3e9fa1a80f0ae0d2c0b59758b6c4478 (HEAD -> master)
Merge: 2e80cd1 a5e18c7
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 16:58:17 2021 +0530

    c6

commit a5e18c7dfb165afac6217cb21bc2615fee416cc3
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 16:56:22 2021 +0530

    c5

commit 2e80cd140704e66c2e36b25839ea3b54aae3f3b4
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 16:52:49 2021 +0530

    c4

commit 7a81b223e196ff10420df86aa2dd1d1551d29eb9
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 16:52:00 2021 +0530

    c3

commit 48618573c8cfadeedc99d5fdeb8d4b6980b06c1c (origin/master)
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 16:18:48 2021 +0530

    pgr2 commit

commit acb84375a46d0e52a4a3dcfe93093a938016550f
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 16:17:25 2021 +0530

    pgr1 commit

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git push
Enumerating objects: 14, done.
Counting objects: 100% (14/14), done.
Delta compression using up to 8 threads
Compressing objects: 100% (9/9), done.
Writing objects: 100% (12/12), 1.07 KiB | 549.00 KiB/s, done.
Total 12 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/ambigarnikhil/Dev-ops.git
   4861857..9fd38ec  master -> master

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$
```

Instruction 3:

MINGW64 /g/Team-38/Nikhil.devops

```
Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git branch
* master

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git branch Branch3

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git checkout Branch3
Switched to branch 'Branch3'
M       pgr1.txt

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch3)
$ cat pgr1.txt
print("Hello world")

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch3)
$ git stash
Saved working directory and index state WIP on Branch3: 9fd38ec c6

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch3)
$ echo Branch3 Modification >> pgr1.txt

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch3)
$ cat pgr1.txt
print("Hello world")Branch3 Modification

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch3)
$ git checkout master
Switched to branch 'master'
M       pgr1.txt
Your branch is up to date with 'origin/master'.

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ cat pgr1.txt
print("Hello world")Branch3 Modification

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ echo master modification >> pgr1.txt

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git satus
git: 'satus' is not a git command. See 'git --help'.

The most similar command is
        status

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git status
On branch master
Your branch is up to date with 'origin/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:   pgr1.txt

Untracked files:
```

```
Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ ls
Dev-ops/  pgr1.txt  pgr2.txt

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git rm --cached Dev-ops
error: the following file has staged content different from both the
file and the HEAD:
    Dev-ops
(use -f to force removal)

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git rm --cached -f Dev-ops
rm 'Dev-ops'

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git merge Branch3
Already up to date.

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git show HEAD
commit 9fd38ec7b3e9fa1a80f0ae0d2c0b59758b6c4478 (HEAD -> master, origin/master, Branch3)
Merge: 2e80cd1 a5e18c7
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 16:58:17 2021 +0530

    c6

diff --cc pgr2.txt
index daa5f6c,e084bda..6ab3da4
--- a/pgr2.txt
+++ b/pgr2.txt
@@@ -1,3 -1,2 +1,7 @@@
  Welcome
++<<<<<<< HEAD
 +First modification
 +Second modification
++=======
+ programmer B first modification
++>>>>>>> Branch2

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$
```

Instruction 4:
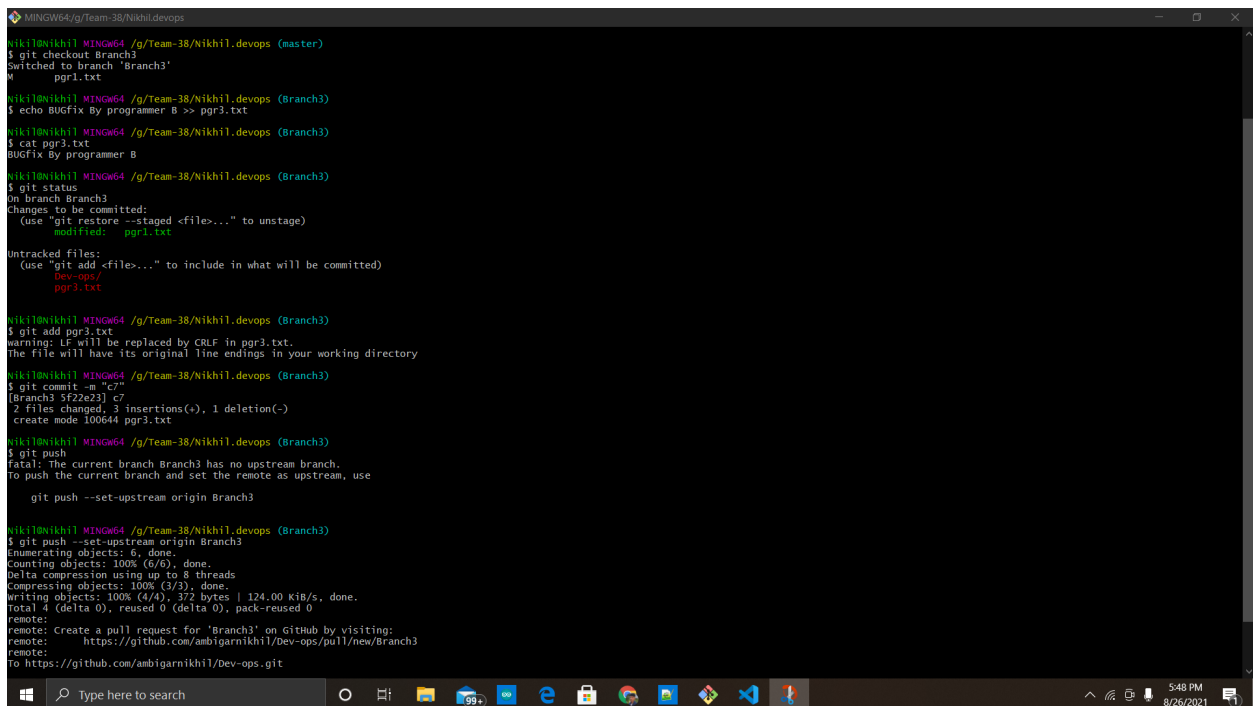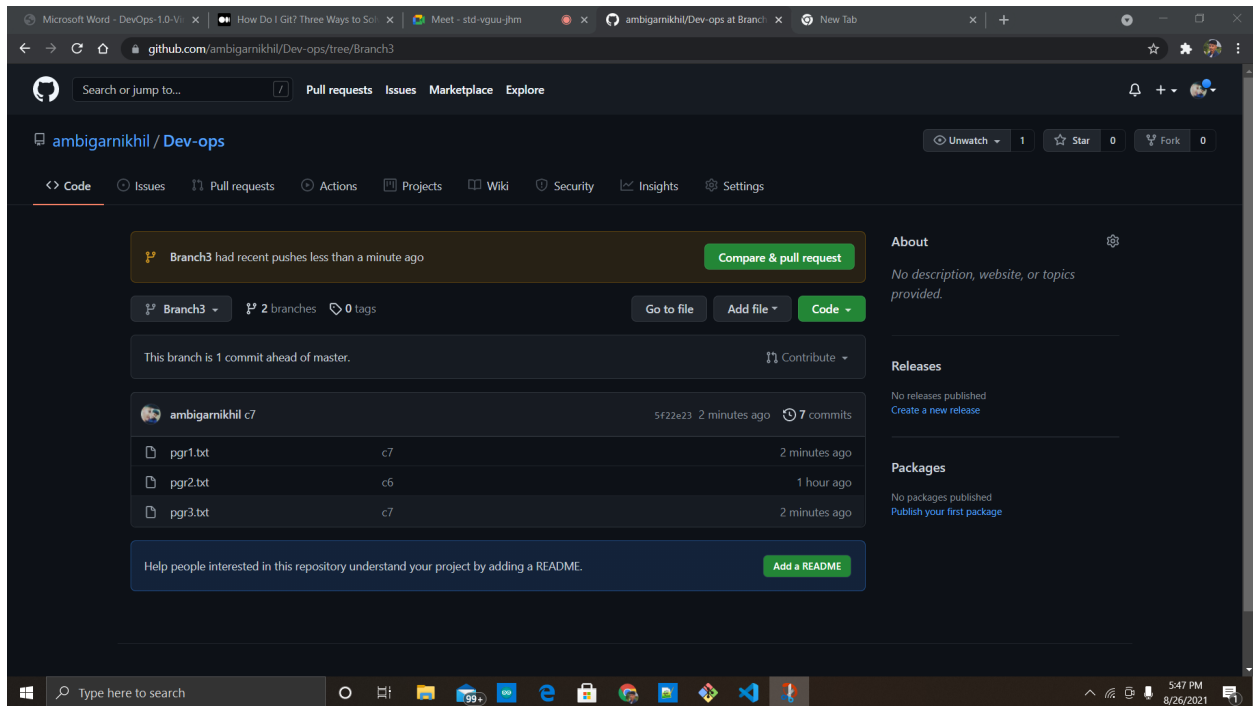
Instruction 5:


```
To https://github.com/ambigarnikhil/Dev-ops.git
   9fd38ec..5ad8497  master -> master
Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git checkout Branch2
Switched to branch 'Branch2'

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch2)
$ ls
Dev-ops/  pgr1.txt  pgr2.txt

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch2)
$ git mv pgr2.txt PGR2.txt

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch2)
$ git status
On branch Branch2
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        renamed:    pgr2.txt -> PGR2.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        Dev-ops/

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch2)
$ git commit -m "c9"
[Branch2 281f02c] c9
 1 file changed, 0 insertions(+), 0 deletions(-)
 rename pgr2.txt => PGR2.txt (100%)

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (Branch2)
$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git merge Branch2
Updating 5ad8497..281f02c
Fast-forward
 pgr2.txt => PGR2.txt | 0
 1 file changed, 0 insertions(+), 0 deletions(-)
 rename pgr2.txt => PGR2.txt (100%)

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git push
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), 255 bytes | 127.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/ambigarnikhil/Dev-ops.git
   5ad8497..281f02c  master -> master

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ |
```

Instruction 6:


```
        (use "git add <file>..." to include in what will be committed)
                Dev-ops/

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

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git log
commit b85e845ca5178e9484c5b5a10a8d16b5aa7f343d (HEAD -> master)
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Wed Aug 18 18:00:08 2021 +0530

        c9

commit 5ad84971c69f6d927b50f6f812069a042600df63
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 17:56:34 2021 +0530

        c8

commit 9fd38ec7b3e9fa1a80f0ae0d2c0b59758b6c4478
Merge: 2e80cd1 a5e18c7
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 16:58:17 2021 +0530

        c6

commit a5e18c7dfb165afac6217cb21bc2615fee416cc3
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 16:56:22 2021 +0530

        c5

commit 2e80cd140704e66c2e36b25839ea3b54aae3f3b4
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 16:52:49 2021 +0530

        c4

commit 7a81b223e196ff10420df86aa2dd1d1551d29eb9
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 16:52:00 2021 +0530

        c3

commit 48618573c8cfadeedc99d5fdeb8d4b6980b06c1c
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 16:18:48 2021 +0530

      pgr2 commit

commit acb84375a46d0e52a4a3dcfe93093a938016550f
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 16:17:25 2021 +0530

      pgr1 commit

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$
```

```
Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git log
commit b85e845ca5178e9484c5b5a10a8d16b5aa7f343d (HEAD -> master)
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Wed Aug 18 18:00:08 2021 +0530

    c9

commit 5ad84971c69f6d927b50f6f812069a042600df63
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 17:56:34 2021 +0530

    c8

commit 9fd38ec7b3e9fa1a80f0ae0d2c0b59758b6c4478
Merge: 2e80cd1 a5e18c7
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 16:58:17 2021 +0530

    c6

commit a5e18c7dfb165afac6217cb21bc2615fee416cc3
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 16:56:22 2021 +0530

    c5

commit 2e80cd140704e66c2e36b25839ea3b54aae3f3b4
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 16:52:49 2021 +0530

    c4

commit 7a81b223e196ff10420df86aa2dd1d1551d29eb9
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 16:52:00 2021 +0530

    c3

commit 48618573c8cfadeedc99d5fdeb8d4b6980b06c1c
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 16:18:48 2021 +0530

    pgr2 commit

commit acb84375a46d0e52a4a3dcfe93093a938016550f
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 16:17:25 2021 +0530

    pgr1 commit

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git revert 48618573c8cfadeedc99d5fdeb8d4b6980b06c1c
On branch master
Your branch and 'origin/master' have diverged,
and have 1 and 1 different commits each, respectively.
  (use "git pull" to merge the remote branch into yours)
```

```
Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ git log
commit 281f02c8de2141b5f45beb5cff4d4a6e22717d02 (HEAD -> master, origin/master, Branch2)
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 18:00:08 2021 +0530

    c9

commit 5ad84971c69f6d927b50f6f812069a042600df63
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 17:56:34 2021 +0530

    c8

commit 9fd38ec7b3e9fa1a80f0ae0d2c0b59758b6c4478
Merge: 2e80cd1 a5e18c7
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 16:58:17 2021 +0530

    c6

commit a5e18c7dfb165afac6217cb21bc2615fee416cc3
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 16:56:22 2021 +0530

    c5

commit 2e80cd140704e66c2e36b25839ea3b54aae3f3b4
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 16:52:49 2021 +0530

    c4

commit 7a81b223e196ff10420df86aa2dd1d1551d29eb9
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 16:52:00 2021 +0530

    c3

commit 48618573c8cfadeedc99d5fdeb8d4b6980b06c1c
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 16:18:48 2021 +0530

    pgr2 commit

commit acb84375a46d0e52a4a3dcfe93093a938016550f
Author: Nikhil <ambigarnikhil@gmail.com>
Date:   Thu Aug 26 16:17:25 2021 +0530

    pgr1 commit

Nikil@Nikhil MINGW64 /g/Team-38/Nikhil.devops (master)
$ GIT_COMMITTER_DATE="Thu Aug 26 18:00:08 2021 +0530" git commit --amend --date="Fri Aug 18 18:00:08 2021 +0530"
[master b85e845] c9
 Date: Wed Aug 18 18:00:08 2021 +0530
 1 file changed, 0 insertions(+), 0 deletions(-)
 rename pgr2.txt => PGR2.txt (100%)
```

Instruction 7: