GIT ASSIGNMENT

git repo used:

- https://github.com/shubhampokar/git_demo (used for learning and experimenting purpose, it contains t_log file for all terminal log)
- https://github.com/pokarshubham/git_course (used for assignment)

QUE 1

Pull and Merge difference

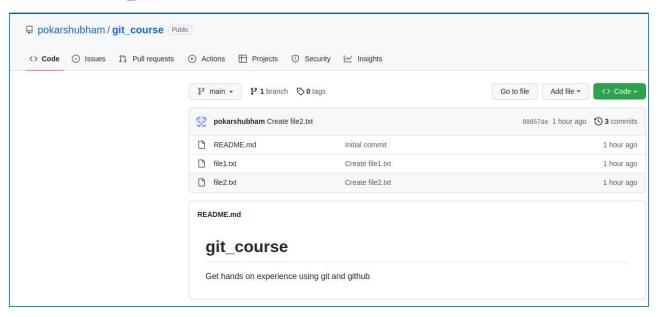
git pull = git fetch + git merge

Git repo cloned and changes made after creating new branch (features)

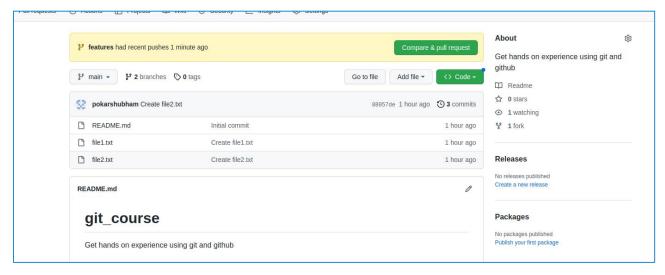
```
shubham@sf-cpu-313:~/githubngit$ git clone https://github.com/pokarshubham/git_course.git
Cloning into 'git_course'...
remote: Enumerating objects: 9, done.
remote: Counting objects: 100% (9/9), done.
remote: Compressing objects: 100% (6/6), done.
Receiving objects: 100% (9/9), done.
Resolving deltas: 100% (1/1), done.
remote: Total 9 (delta 1), reused 0 (delta 0), pack-reused 0
shubham@sf-cpu-313:~/githubngit$ cd git_course/
shubham@sf-cpu-313:~/githubngit/git_course$ git branch
* main
shubham@sf-cpu-313:-/githubngit/git_course$ git branch features
shubham@sf-cpu-313:~/githubngit/git_course$ git branch
 features
* main
shubham@sf-cpu-313:~/githubngit/git_course$ git checkout features
Switched to branch 'features'
shubham@sf-cpu-313:~/githubngit/git_course$ echo "new1" >> new1.txt
shubham@sf-cpu-313:~/githubngit/git_course$ git add
shubham@sf-cpu-313:~/githubngit/git_course$ git commit -m "new1 added"
Author identity unknown
*** Please tell me who you are.
Run
  git config --global user.email "you@example.com"
  git config --global user.name "Your Name'
to set your account's default identity.
Omit --global to set the identity only in this repository.
fatal: unable to auto-detect email address (got 'shubham@sf-cpu-313.(none)')
shubham@sf-cpu-313:~/githubngit/git_course$ git config user.email "shubham.p@simformsolutions.com"
shubham@sf-cpu-313:~/githubngit/git_course$ git config user.name "shubhampokar"
shubham@sf-cpu-313:~/githubngit/git_course$ git commit -m "new1 added"
[features d607ab8] new1 added
1 file changed, 1 insertion(+)
create mode 100644 new1.txt
shubham@sf-cpu-313:~/githubngit/git_course$ echo "new2" >> new2.txt
shubham@sf-cpu-313:~/githubngit/git_course$ git add
shubham@sf-cpu-313:-/githubngit/git_course$ git commit -m "new2 added"
[features af1ee13] new2 added
1 file changed, 1 insertion(+)
create mode 100644 new2.txt
shubham@sf-cpu-313:~
                                lt/git_course$ git push origin features
Username for 'https://github.com': shubhampokar
Password for 'https://shubhampokar@github.com':
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (6/6), 555 bytes | 555.00 KiB/s, done.
Total 6 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
remote:
```

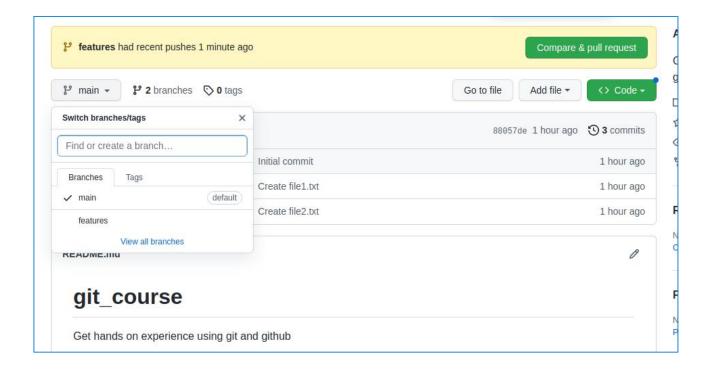
```
se$ git push origin features
shubham@sf-cpu-313:~/
Username for 'https://github.com': shubhampokar
Password for 'https://shubhampokar@github.com':
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (6/6), 555 bytes | 555.00 KiB/s, done.
Total 6 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
remote:
remote: Create a pull request for 'features' on GitHub by visiting:
              https://github.com/pokarshubham/git_course/pull/new/features
remote:
remote:
To https://github.com/pokarshubham/git_course.git
   [new branch]
                      features -> features
```

pokarshubham's git_course main branch repo:

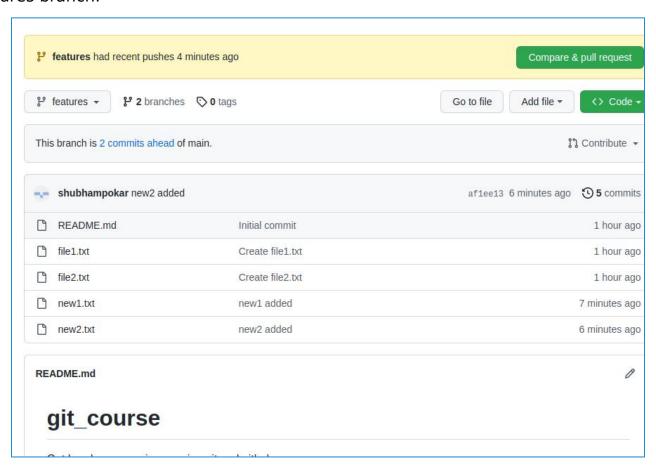


pokarshubham's git_course repo after features branch created and added by shubhampokar:





features branch:



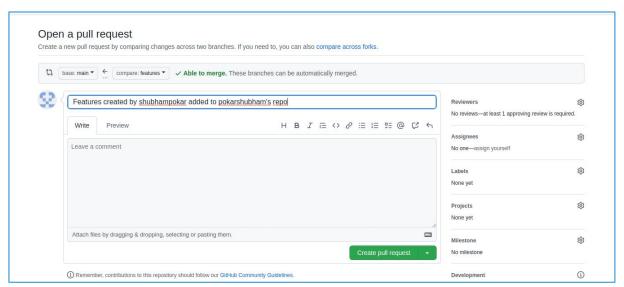
main branch commit log:



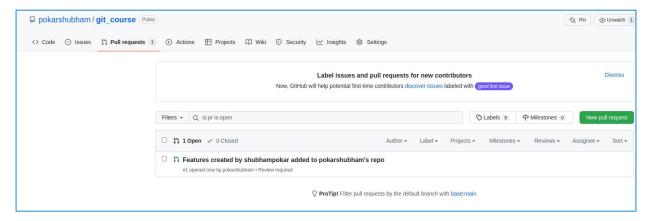
features branch commit log:



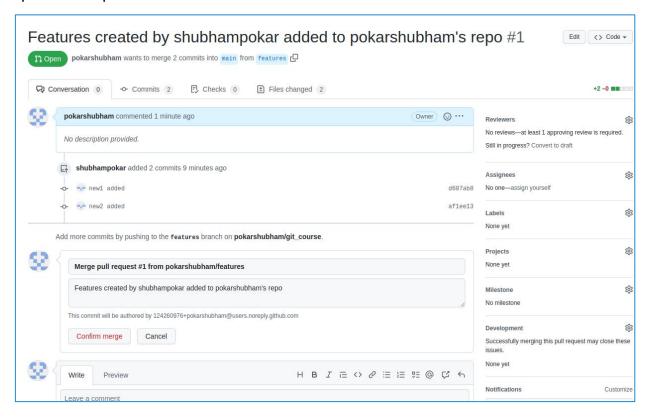
Creating pull request:



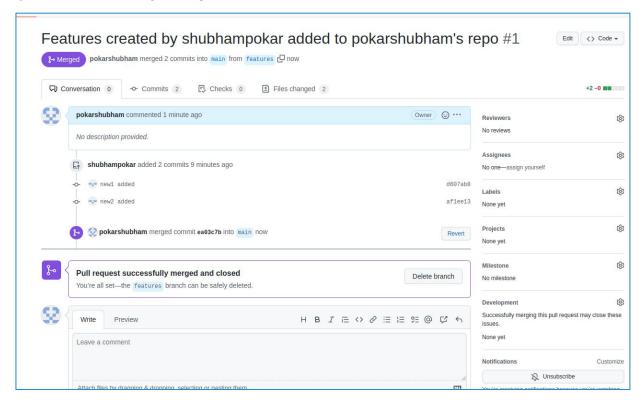
pull request created successfully:



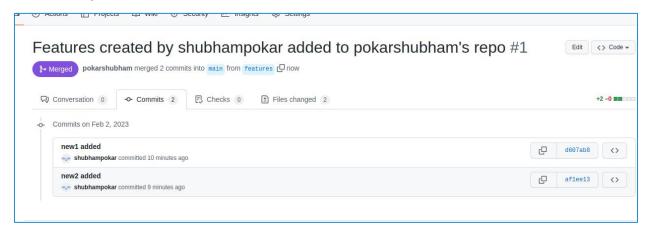
Pull request accepted:



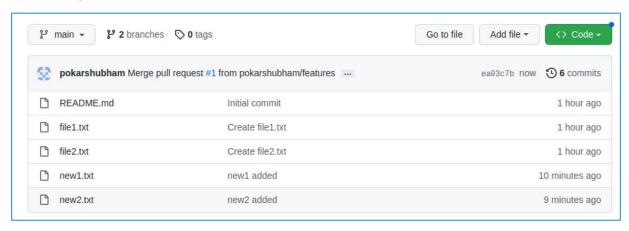
Pull request successfully merged to main branch and closed:



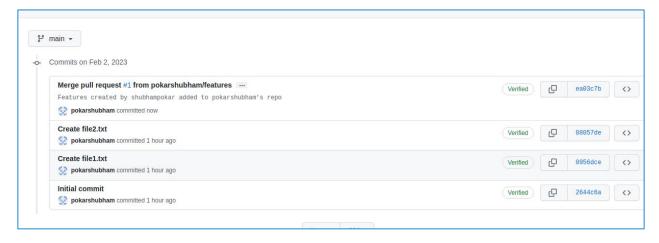
New commits by features:



main branch repo:



main branch commit log:



Pulling or fetching and merging changes in main branch of local repo:

Using git merge on local repo:

```
shubham@sf-cpu-313:~/githubngit/git_course$ git branch
* features
 main
shubham@sf-cpu-313:~/githubngit/git_course$ git branch feature2
shubham@sf-cpu-313:~/githubngit/git_course$ git checkout feature2
Switched to branch 'feature2'
shubham@sf-cpu-313:~/githubngit/git_course$ echo "f2..." >> f2.txt
shubham@sf-cpu-313:~/githubngit/git_course$ git add
shubham@sf-cpu-313:~/githubngit/git_course$ git commit -m "f2.txt added in feature2"
[feature2 a6964ba] f2.txt added in feature2
1 file changed, 1 insertion(+)
create mode 100644 f2.txt
shubham@sf-cpu-313:~/githubngit/git_course$ ls
f2.txt file1.txt file2.txt new1.txt new2.txt README.md
shubham@sf-cpu-313:~/githubngit/git_course$ git checkout main
Switched to branch 'main'
Your branch is behind 'origin/main' by 3 commits, and can be fast-forwarded.
 (use "git pull" to update your local branch)
shubham@sf-cpu-313:~/githubngit/git_course$ ls
file1.txt file2.txt README.md
shubham@sf-cpu-313:-/githubngit/git_course$ git merge feature2
Updating 88057de..a6964ba
Fast-forward
f2.txt | 1 +
 new1.txt | 1 +
 new2.txt | 1 +
 3 files changed, 3 insertions(+)
create mode 100644 f2.txt
create mode 100644 new1.txt
create mode 100644 new2.txt
shubham@sf-cpu-313:~/githubngit/git_course$ ls
f2.txt file1.txt file2.txt new1.txt new2.txt README.md shubham@sf-cpu-313:~/githubngit/git_course$
```

QUE 2

Rebase

git log for main branch:

```
shubham@sf-cpu-313:~/githubngit/git_course$ git log
commit ccbf4362ce68a6becc1739cca06b2629a4d714ba (HEAD -> main)
Author: shubhampokar <shubham.p@simformsolutions.com>
Date:
        Fri Feb 3 10:20:38 2023 +0530
    test.txt added in main local before fetching new updates
commit a6964babbf0639f372928739e8d46a1c636fb669 (feature2)
Author: shubhampokar <shubham.p@simformsolutions.com>
       Fri Feb 3 09:54:13 2023 +0530
Date:
    f2.txt added in feature2
commit ea03c7baf30cd3084ad6cccca4d168263ebc90a4 (features)
Merge: 88057de af1ee13
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
Date:
        Thu Feb 2 18:19:23 2023 +0530
    Merge pull request #1 from pokarshubham/features
    Features created by shubhampokar added to pokarshubham's repo
commit af1ee131ed9f94565e4491244e2c17bbd0a59166 (origin/features)
Author: shubhampokar <shubham.p@simformsolutions.com>
        Thu Feb 2 18:10:00 2023 +0530
Date:
    new2 added
commit d607ab86674fc1e7af06bb4db6a6a9ed3a7dd91e
Author: shubhampokar <shubham.p@simformsolutions.com>
Date:
        Thu Feb 2 18:09:34 2023 +0530
    new1 added
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
Date:
        Thu Feb 2 17:07:54 2023 +0530
    Create file2.txt
commit 0956dce7875de822b84596e4ad56bbd223bebd9c
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
        Thu Feb 2 17:07:16 2023 +0530
Date:
    Create file1.txt
commit 2644c6a812c2aa9eab1515273dd260e4f3c668a7
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
Date:
        Thu Feb 2 17:06:43 2023 +0530
    Initial commit
```

using rebase to squash few commits:

```
GNU nano 6.2
                    /home/shubham/githubngit/git_course/.git/rebase-merge/git
pick af1ee13 new2 added
s 6e125d5 f2.txt added in feature2
s ba7f82d test.txt added in main local before fetching new updates
# Rebase d607ab8..ba7f82d onto d607ab8 (3 commands)
# Commands:
# p, pick <commit> = use commit
# r, reword <commit> = use commit, but edit the commit message
# e, edit <commit> = use commit, but stop for amending
# s, squash <commit> = use commit, but meld into previous commit
# f, fixup [-C | -c] <commit> = like "squash" but keep only the previous
# b, break = stop here (continue rebase later with 'git rebase --continue')
# d, drop <commit> = remove commit
# l, label <label> = label current HEAD with a name
# t, reset <label> = reset HEAD to a label
# m, merge [-C <commit> | -c <commit>] <label> [# <oneline>]
         message (or the oneline, if no original merge commit was
# These lines can be re-ordered; they are executed from top to bottom.
# If you remove a line here THAT COMMIT WILL BE LOST.
# However, if you remove everything, the rebase will be aborted.
```

Commit message for combined commits:

```
# This is a combination of 3 commits.

# This is a combination of 3 commits.

# This is the 1st commit message:

# This is the commit message #2:

# This is the commit message #2:

# This is the commit message #3:

# This is the commit message #3:

# This is the commit message #3:

# Please enter the commit message for your changes. Lines starting

# with '#' will be ignored, and an empty message aborts the commit.

# Date: Thu Feb 2 18:10:00 2023 +0530

# interactive rebase in progress; onto d607ab8

# Last commands done (3 commands done):

# squash 6e125d5 f2.txt added in feature2

# squash ba7f82d test.txt added in feature2

# you are currently rebasing branch 'main' on 'd607ab8'.

# Changes to be committed:

# new file: f2.txt

# new file: f2.txt

# new file: test.txt

# new file: test.txt

# new file: test.txt
```

git log of main branch after combining commits:

```
shubham@sf-cpu-313:~/githubngit/git_course$ git log
commit 579f38f801219473ec9ffbec77e02a2062f6f127 (HEAD -> main)
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Thu Feb 2 18:10:00 2023 +0530
   new2 added
    f2.txt added in feature2
    test.txt added in main local before fetching new updates
commit d607ab86674fc1e7af06bb4db6a6a9ed3a7dd91e
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Thu Feb 2 18:09:34 2023 +0530
    new1 added
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
Date: Thu Feb 2 17:07:54 2023 +0530
    Create file2.txt
commit 0956dce7875de822b84596e4ad56bbd223bebd9c
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
Date: Thu Feb 2 17:07:16 2023 +0530
   Create file1.txt
commit 2644c6a812c2aa9eab1515273dd260e4f3c668a7
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
Date: Thu Feb 2 17:06:43 2023 +0530
   Initial commit
shubham@sf-cpu-313:~/githubngit/git_course$
```

merging using rebase:

```
shubham@st-cpu-313:~/githubngit/git course$ git checkout features
Switched to branch 'features'
shubham@sf-cpu-313:~/githubngit/git_course$ touch fs1.pdf
shubham@sf-cpu-313:~/githubngit/git_course$ git add .
shubham@sf-cpu-313:-/githubngit/git_course$ git commit -m "fs and fs1 files added in features"
[features 6107e0c] fs and fs1 files added in features
2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 fs.txt
create mode 100644 fs1.pdf
shubham@sf-cpu-313:~/githubngit/git_course$ git rebase master
fatal: invalid upstream 'master'
shubham@sf-cpu-313:~/githubngit/git_course$ git rebase main
Current branch features is up to date.
shubham@sf-cpu-313:~/githubngit/git_course$ git checkout main
Switched to branch 'main'
Your branch and 'origin/main' have diverged,
and have 1 and 4 different commits each, respectively.
 (use "git pull" to merge the remote branch into yours)
shubham@sf-cpu-313:~/githubngit/git course$ git merge features
Updating 579f38f..6107e0c
Fast-forward
fs.txt | 0
fs1.pdf | 0
2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 fs.txt
create mode 100644 fs1.pdf
shubham@sf-cpu-313:~/githubngit/git_course$ git log
commit 6107e0cd3948a6cf51e8743ec40df5acc4eb577b (HEAD -> main, features)
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 11:22:41 2023 +0530
    fs and fs1 files added in features
commit 579f38f801219473ec9ffbec77e02a2062f6f127
Author: shubhampokar <shubham.p@simformsolutions.com>
        Thu Feb 2 18:10:00 2023 +0530
Date:
    new2 added
    f2.txt added in feature2
    test.txt added in main local before fetching new updates
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Thu Feb 2 18:09:34 2023 +0530
    new1 added
commit 88057dee280e378973bf1f62d6fe56a9bad60abd
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
Date: Thu Feb 2 17:07:54 2023 +0530
```

QUE 3

Change commit message

USING AMEND (changes only last commit message):

git log before amend:

```
it/git_course$ git checkout features
shubham@sf-cpu-313:~/githubn
Switched to branch 'features'
shubham@sf-cpu-313:~/githubngit/git_course$ git log
commit 6107e0cd3948a6cf51e8743ec40df5acc4eb577b (HEAD -> features, main)
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 11:22:41 2023 +0530
    fs and fs1 files added in features
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Thu Feb 2 18:10:00 2023 +0530
    new2 added
    f2.txt added in feature2
    test.txt added in main local before fetching new updates
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Thu Feb 2 18:09:34 2023 +0530
    new1 added
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
        Thu Feb 2 17:07:54 2023 +0530
Date:
    Create file2.txt
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
Date: Thu Feb 2 17:07:16 2023 +0530
    Create file1.txt
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
Date: Thu Feb 2 17:06:43 2023 +0530
    Initial commit
shubham@sf-cpu-313:~/githubngit/git_course$ git commit --amend
[features 8a0ee90] fs and fs1 files created and added in features (change using amend)
 Date: Fri Feb 3 11:22:41 2023 +0530
 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 fs.txt
 create mode 100644 fs1.pdf
```

last commit message:

```
GNU nano 6.2 /home/shubham/githubngit/git_course/.git/COMMIT_EDITMSG
fs and fs1 files added in features

# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.

# Date: Fri Feb 3 11:22:41 2023 +0530

# On branch features
# Changes to be committed:
# new file: fs.txt
# new file: fs1.pdf
#
```

Changing last commit message:

```
GNU nano 6.2 /home/shubham/githubngit/git_course/.git/COMMIT_EDITMSG
fs and fs1 files created and added in features (change using amend)

# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.

# Date: Fri Feb 3 11:22:41 2023 +0530

# On branch features
# Changes to be committed:
# new file: fs.txt
# new file: fs1.pdf
#
```

git log after changing commit message:

```
shubham@sf-cpu-313:~/githubngit/git_course$ git commit --amend
[features 8a0ee90] fs and fs1 files created and added in features (change using amend)
Date: Fri Feb 3 11:22:41 2023 +0530
 2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 fs.txt
create mode 100644 fs1.pdf
shubham@sf-cpu-313:~/githubngit/git_course$ git log
commit 8a0ee90e7d9f90187731c130cec529b8cc70ff90 (HEAD -> features)
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 11:22:41 2023 +0530
    fs and fs1 files created and added in features (change using amend)
commit 579f38f801219473ec9ffbec77e02a2062f6f127
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Thu Feb 2 18:10:00 2023 +0530
    new2 added
    f2.txt added in feature2
    test.txt added in main local before fetching new updates
commit d607ab86674fc1e7af06bb4db6a6a9ed3a7dd91e
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Thu Feb 2 18:09:34 2023 +0530
    new1 added
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
        Thu Feb 2 17:07:54 2023 +0530
Date:
    Create file2.txt
commit 0956dce7875de822b84596e4ad56bbd223bebd9c
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
Date: Thu Feb 2 17:07:16 2023 +0530
    Create file1.txt
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
Date: Thu Feb 2 17:06:43 2023 +0530
    Initial commit
shubham@sf-cpu-313:~/githubngit/git_course$
```

USING REBASE (change any commit message using reword)

git log before rebase reword:

```
shubham@sf-cpu-313:~/githubngit/git_course$ git log
commit 8a0ee90e7d9f90187731c130cec529b8cc70ff90 (HEAD -> features)
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 11:22:41 2023 +0530
    fs and fs1 files created and added in features (change using amend)
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Thu Feb 2 18:10:00 2023 +0530
    new2 added
    f2.txt added in feature2
    test.txt added in main local before fetching new updates
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Thu Feb 2 18:09:34 2023 +0530
    new1 added
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
Date: Thu Feb 2 17:07:54 2023 +0530
    Create file2.txt
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
Date:
       Thu Feb 2 17:07:16 2023 +0530
    Create file1.txt
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
Date: Thu Feb 2 17:06:43 2023 +0530
    Initial commit
shubham@sf-cpu-313:-/githubngit/git_course$ git ^C
shubham@sf-cpu-313:-/githubngit/git_course$ git rebase -i 0956dce7875de822b84596e4ad56bbd223bebd9c
[detached HEAD 8c721ba] new1 added (change using rebase reword)
Date: Thu Feb 2 18:09:34 2023 +0530
1 file changed, 1 insertion(+)
create mode 100644 new1.txt
Successfully rebased and updated refs/heads/features.
```

select commit message for reword:

changing commit message:

git log after commit message is changed:

```
urse$ git rebase -i 0956dce7875de822b84596e4ad56bbd223bebd9c
 shubham@sf-cpu-313:~
[detached HEAD 8c721ba] new1 added (change using rebase reword)
 Date: Thu Feb 2 18:09:34 2023 +0530
1 file changed, 1 insertion(+)
create mode 100644 new1.txt
Successfully rebased and updated refs/heads/features.
shubham@sf-cpu-313:-/githubngit/git_course$ git log
commit aa9e37396f7b728107b6e2ca06850efe9ac89052 (HEAD -> features)
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 11:22:41 2023 +0530
    fs and fs1 files created and added in features (change using amend)
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Thu Feb 2 18:10:00 2023 +0530
    new2 added
    f2.txt added in feature2
    test.txt added in main local before fetching new updates
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Thu Feb 2 18:09:34 2023 +0530
    new1 added (change using rebase reword)
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
Date: Thu Feb 2 17:07:54 2023 +0530
    Create file2.txt
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
Date: Thu Feb 2 17:07:16 2023 +0530
    Create file1.txt
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
Date: Thu Feb 2 17:06:43 2023 +0530
    Initial commit
```

QUE 4 cherry pick

cherryb branch files and git log:

```
shubham@sf-cpu-313:~/githubngit/git_course$ git checkout cherryb
Already on 'cherryb'
shubham@sf-cpu-313:-/githubngit/git_course$ ls
c1.txt c3.txt file1.txt fs1.pdf new1.txt README.md
c2.txt f2.txt file2.txt fs.txt new2.txt test.txt
shubham@sf-cpu-313:~/githubngit/git_course$ git log
commit 204a9f0f848d58830953547707f53a5dd6d0d1f9 (HEAD -> cherryb)
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 12:39:53 2023 +0530
    c3 added in cherryb
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 12:39:19 2023 +0530
    c2 added in cherryb
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 12:38:52 2023 +0530
    c1 added in cherryb
 commit aa9e37396f7b728107b6e2ca06850efe9ac89052 (features)
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 11:22:41 2023 +0530
    fs and fs1 files created and added in features (change using amend)
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Thu Feb 2 18:10:00 2023 +0530
    new2 added
    f2.txt added in feature2
    test.txt added in main local before fetching new updates
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Thu Feb 2 18:09:34 2023 +0530
    new1 added (change using rebase reword)
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
        Thu Feb 2 17:07:54 2023 +0530
Date:
    Create file2.txt
```

features branch files:

```
shubham@sf-cpu-313:=/githubngit/git_course$ git checkout features
Switched to branch 'features'
shubham@sf-cpu-313:=/githubngit/git_course$ ls
f2.txt file1.txt file2.txt fs1.pdf fs.txt new1.txt new2.txt README.md test.txt
```

features branch git log and files after cherry picking c2 file commit from cherryb branch:

```
purse$ git cherry-pick b13a879ecb37872cbaa57e2a92aa668917051c07
shubham@sf-cpu-313:~/gi
[features b32f329] c2 added in cherryb
 Date: Fri Feb 3 12:39:19 2023 +0530
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 c2.txt
shubham@sf-cpu-313:~/githubngit/git_course$ git log
commit b32f32989c2de9ff70b0d5dc57d14c9d13479f54 (HEAD -> features)
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 12:39:19 2023 +0530
    c2 added in cherryb
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 11:22:41 2023 +0530
    fs and fs1 files created and added in features (change using amend)
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Thu Feb 2 18:10:00 2023 +0530
    new2 added
    f2.txt added in feature2
    test.txt added in main local before fetching new updates
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Thu Feb 2 18:09:34 2023 +0530
    new1 added (change using rebase reword)
 commit 88057dee280e378973bf1f62d6fe56a9bad60abd
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
       Thu Feb 2 17:07:54 2023 +0530
    Create file2.txt
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
        Thu Feb 2 17:07:16 2023 +0530
    Create file1.txt
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
Date: Thu Feb 2 17:06:43 2023 +0530
    Initial commit
shubham@sf-cpu-313:~/githubngit/git_course$ ls
c2.txt f2.txt file1.txt file2.txt fs1.pdf fs.txt new1.txt new2.txt README.md test.txt
```

QUE 5

Drop commit

USING git reset --hard **HEAD~1** (removes last commit):

git log before drop command:

```
shubham@sf-cpu-313:~/githubngit/git_course$ git log
commit 77ed88102ac96d4b7a803bda0aeb9e7867f9e99f (HEAD -> cherryb)
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 13:33:57 2023 +0530
    c6 added in cherryb
commit f6be76e4b73d82ab01f9f0a569064e1e732ddbad
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 13:26:47 2023 +0530
    c5 added in cherryb
 commit 92aa86b6404819007e05bf8ea06c72dd0f25d698
Author: shubhampokar <shubham.p@simformsolutions.com>
       Fri Feb 3 13:26:35 2023 +0530
    c4 added in cherryb
Author: shubhampokar <shubham.p@simformsolutions.com>
       Fri Feb 3 12:39:53 2023 +0530
    c3 added in cherryb
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 12:39:19 2023 +0530
    c2 added in cherryb
commit 059083b40147c1a356faf427207d0a97caa51cdd
Author: shubhampokar <shubham.p@simformsolutions.com>
       Fri Feb 3 12:38:52 2023 +0530
Date:
    c1 added in cherryb
Author: shubhampokar <shubham.p@simformsolutions.com>
Date:
       Fri Feb 3 11:22:41 2023 +0530
    fs and fs1 files created and added in features (change using amend)
Author: shubhampokar <shubham.p@simformsolutions.com>
        Thu Feb 2 18:10:00 2023 +0530
Date:
    new2 added
    f2.txt added in feature2
```

git log after drop command:

```
shubham@sf-cpu-313:~/githubngit/git_course$ git reset --hard HEAD~1
HEAD is now at f6be76e c5 added in cherryb
shubham@sf-cpu-313:~/githubngit/git_course$ git log
commit f6be76e4b73d82ab01f9f0a569064e1e732ddbad (HEAD -> cherryb)
Author: shubhampokar <shubham.p@simformsolutions.com>
       Fri Feb 3 13:26:47 2023 +0530
Date:
    c5 added in cherryb
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 13:26:35 2023 +0530
    c4 added in cherryb
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 12:39:53 2023 +0530
    c3 added in cherryb
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 12:39:19 2023 +0530
    c2 added in cherryb
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 12:38:52 2023 +0530
    c1 added in cherryb
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 11:22:41 2023 +0530
    fs and fs1 files created and added in features (change using amend)
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Thu Feb 2 18:10:00 2023 +0530
    new2 added
    f2.txt added in feature2
    test.txt added in main local before fetching new updates
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Thu Feb 2 18:09:34 2023 +0530
```

USING git reset --hard <sha1-commit-id> (removes all commit after particular commit id):

git log after dropping all changes after "c3 added in cherryb" commit:

```
ourse$ git reset --hard 204a9f0f848d58830953547707f53a5dd6d0d1f9
HEAD is now at 204a9f0 c3 added in cherryb
shubham@sf-cpu-313:~/gtthubngit/gtt_course$ git log
commit 204a9f0f848d58830953547707f53a5dd6d0d1f9 (HEAD -> cherryb)
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 12:39:53 2023 +0530
    c3 added in cherryb
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 12:39:19 2023 +0530
    c2 added in cherryb
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 12:38:52 2023 +0530
    c1 added in cherryb
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 11:22:41 2023 +0530
    fs and fs1 files created and added in features (change using amend)
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Thu Feb 2 18:10:00 2023 +0530
    new2 added
    f2.txt added in feature2
    test.txt added in main local before fetching new updates
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Thu Feb 2 18:09:34 2023 +0530
    new1 added (change using rebase reword)
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
Date: Thu Feb 2 17:07:54 2023 +0530
    Create file2.txt
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
       Thu Feb 2 17:07:16 2023 +0530
```

USING REBASE DROP (remove any commit):

git log before rebase:

```
shubham@sf-cpu-313:~/githubngit/git_course$ git log
commit 204a9f0f848d58830953547707f53a5dd6d0d1f9 (HEAD -> cherryb)
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 12:39:53 2023 +0530
    c3 added in cherryb
commit b13a879ecb37872cbaa57e2a92aa668917051c07
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 12:39:19 2023 +0530
    c2 added in cherryb
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 12:38:52 2023 +0530
    c1 added in cherryb
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 11:22:41 2023 +0530
    fs and fs1 files created and added in features (change using amend)
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Thu Feb 2 18:10:00 2023 +0530
    new2 added
    f2.txt added in feature2
    test.txt added in main local before fetching new updates
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Thu Feb 2 18:09:34 2023 +0530
    new1 added (change using rebase reword)
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
Date: Thu Feb 2 17:07:54 2023 +0530
    Create file2.txt
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
Date: Thu Feb 2 17:07:16 2023 +0530
    Create file1.txt
shubham@sf-cpu-313:~/githubngit/git_course$ git rebase -i aa9e37396f7b728107b6e2ca06850efe9ac89052
Successfully rebased and updated refs/heads/cherryb.
```

selecting commits to drop:

```
GNU nano 6.2 /home/shubham/githubngit/git_course/.git/rebase-merge/git-rebase-todo *
d 059083b c1 added in cherryb
bick 204a9f0 c3 added in cherryb

# Rebase aa9e373..204a9f0 onto aa9e373 (3 commands)

# Commands:
# p, pick <commit> = use commit
# r, reword <commit> = use commit, but edit the commit message
# e, edit <commit> = use commit, but stop for amending
# s, squash <commit> = use commit, but meld into previous commit
# f, fixup [-C | -c] <commit> = like "squash" but keep only the previous
commit's log message, unless -C is used, in which case
# keep only this commit's message; -c is same as -C but
opens the editor
# x, exec <command> = run command (the rest of the line) using shell
# b, break = stop here (continue rebase later with 'git rebase --continue')
# d, drop <commit> = remove commit
# l, label <label> = label current HEAD with a name
# t, reset <label> = reset HEAD to a label
# m, merge [-C <commit>] < ccommit>] <label> [# <onetine>]
# . create a merge commit using the original merge commit was
# . message (or the onetine, if no original merge commit was
# . specified); use -c <commit> to reword the commit message
# These lines can be re-ordered; they are executed from top to bottom.
# If you remove a line here THAT COMMIT WILL BE LOST.
# However, if you remove everything, the rebase will be aborted.
# However, if you remove everything, the rebase will be aborted.
```

git log after dropping commit:

```
shubham@sf-cpu-313:~/githubngit/git_course$ git rebase -i aa9e37396f7b728107b6e2ca06850efe9ac89052
Successfully rebased and updated refs/heads/cherryb.
shubham@sf-cpu-313:~/githubngit/git_course$ git log
commit fea2ca4bad6319d0664eeaae889bd1e72e02b6c7 (HEAD -> cherryb)
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 12:39:53 2023 +0530
    c3 added in cherryb
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Fri Feb 3 11:22:41 2023 +0530
    fs and fs1 files created and added in features (change using amend)
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Thu Feb 2 18:10:00 2023 +0530
    new2 added
    f2.txt added in feature2
    test.txt added in main local before fetching new updates
Author: shubhampokar <shubham.p@simformsolutions.com>
Date: Thu Feb 2 18:09:34 2023 +0530
    new1 added (change using rebase reword)
 commit 88057dee280e378973bf1f62d6fe56a9bad60abd
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
        Thu Feb 2 17:07:54 2023 +0530
    Create file2.txt
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
Date:
        Thu Feb 2 17:07:16 2023 +0530
    Create file1.txt
Author: pokarshubham <124260976+pokarshubham@users.noreply.github.com>
Date: Thu Feb 2 17:06:43 2023 +0530
    Initial commit
 shubham@sf-cpu-313:~/githubngit/git_course$
```