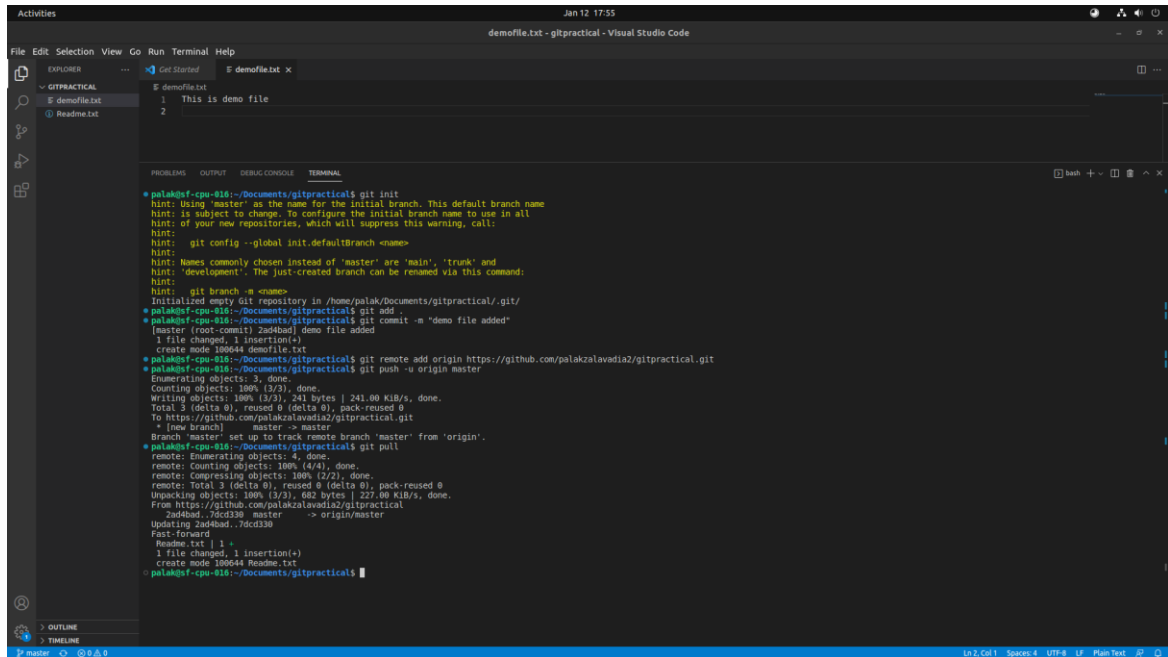


GIT PRACTICAL EXAM

Repository link: <https://github.com/palakzalavadia2/gitpractical.git>

1. Pull and Merge difference

Pull:



```
Jan 12, 17:55
demoFile.txt - gitpractical - Visual Studio Code

EXPLORER
  demoFile.txt
  README.txt

TERMINAL
  * palak@sf-cpu-018:~/Documents/gitpractical$ git init
  hint: Using 'master' as the name for the initial branch. This default branch name
  hint: is subject to change. To configure the initial branch name to use in all
  hint: of your new repositories, which will suppress this warning, call:
  hint:
  hint:   git config --global init.defaultBranch <name>
  hint:
  hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
  hint: 'development'. The just-created branch can be renamed via this command:
  hint:
  hint:   git branch -m <name>
  Initialized empty Git repository in /home/palak/Documents/gitpractical/.git/
  * palak@sf-cpu-018:~/Documents/gitpractical$ git add
  * palak@sf-cpu-018:~/Documents/gitpractical$ git commit -m "demo file added"
  [master (root-commit) 2ad4bad] demo file added
  1 file changed, 1 insertion(+)
  create mode 100644 demoFile.txt
  * palak@sf-cpu-018:~/Documents/gitpractical$ git remote add origin https://github.com/palakzalavadia2/gitpractical.git
  * palak@sf-cpu-018:~/Documents/gitpractical$ git push -u origin master
  Enumerating objects: 3, done.
  Counting objects: 100% (3/3), done.
  Writing objects: 100% (3/3), 241 bytes | 241.00 KiB/s, done.
  Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
  To https://github.com/palakzalavadia2/gitpractical.git
  * [new branch]      master -> master
  Branch 'master' set up to track remote branch 'master' from 'origin'.
  * palak@sf-cpu-018:~/Documents/gitpractical$ git pull
  remote: Enumerating objects: 4, done.
  remote: Counting objects: 100% (4/4), done.
  remote: Compressing objects: 100% (2/2), done.
  remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
  Unpacking objects: 100% (3/3), 682 bytes | 1227.00 KiB/s, done.
  From https://github.com/palakzalavadia2/gitpractical
  2ad4bad..7dc3338  master       -> origin/master
  Updating 2ad4bad..7dc3338
  Fast-forward
   README.txt | 1 +
   1 file changed, 1 insertion(+)
   create mode 100644 README.txt
  * palak@sf-cpu-018:~/Documents/gitpractical$
```

Merge:

Method 1:

In the master branch I created a folder named as master and made file m1 and m2 added and committed, then I created a feature branch and created folder feature and added files f1 and f2 and committed.

Then switched to master branch and merged using command:

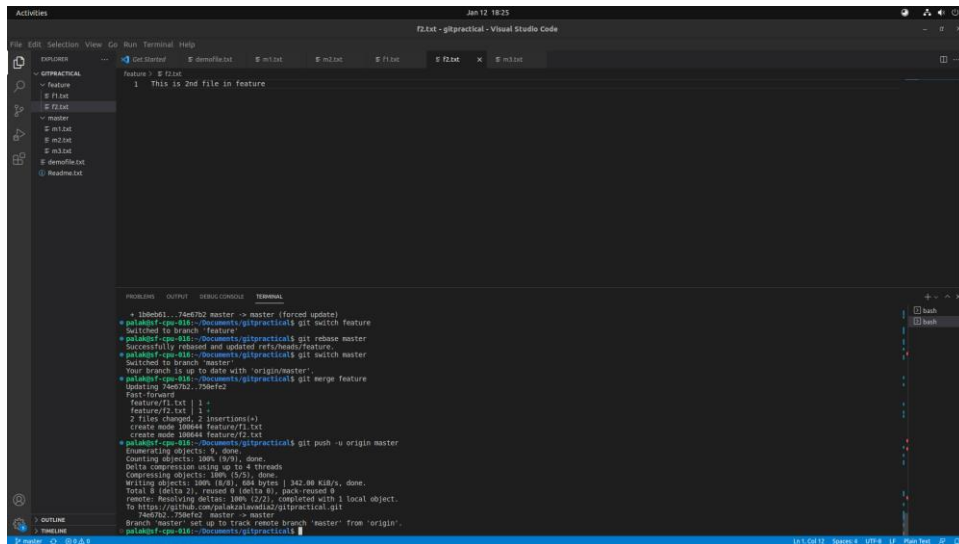
git merge feature

2. Rebase

In master branch I created a file named m3 and committed

Then switch to feature branch and use command: git rebase master

Then switch to master branch and use command: git switch feature



```
Activities Jan 12 18:25
F2.txt - gitpractical - Visual Studio Code

Explorer
  gitpractical
    feature
      F1.txt
    master
      m1.txt
      m2.txt
      m3.txt
    demo.txt
    README.txt

Feature > F1.txt
1 This is 2nd file in feature

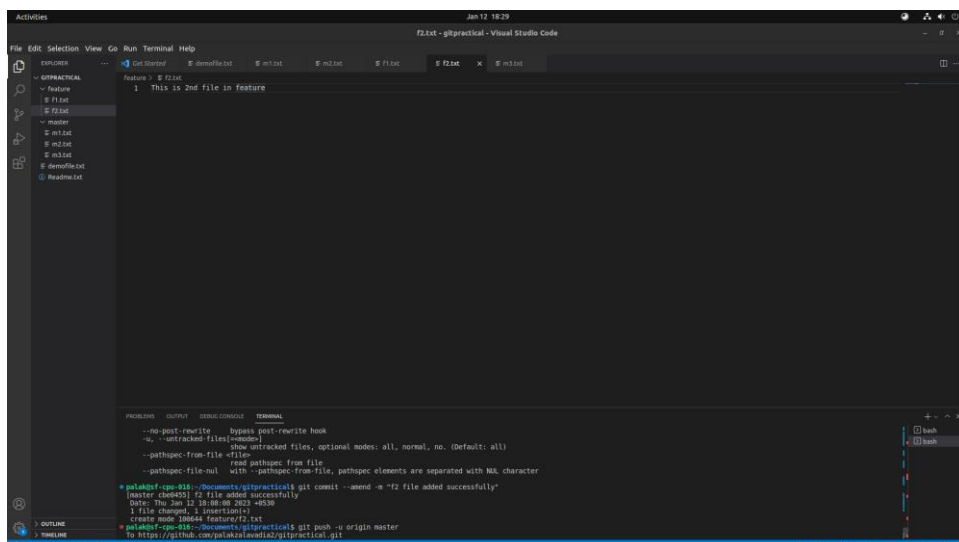
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

* lab06b...75de702 master -> master (forced update)
* palabdef-cpu-016:~/Documents/gitpractical$ git switch feature
Switched to branch 'feature'
* palabdef-cpu-016:~/Documents/gitpractical$ git rebase master
Successfully rebased and updated refs/heads/feature.
* palabdef-cpu-016:~/Documents/gitpractical$ git switch master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
* palabdef-cpu-016:~/Documents/gitpractical$ git merge feature
Updating 75de702..75de702
Fast-forward
  feature/F1.txt | 1 +
  feature/F2.txt | 2 +
  2 files changed, 2 insertions(+)
  create mode 100644 feature/F1.txt
  create mode 100644 feature/F2.txt
* palabdef-cpu-016:~/Documents/gitpractical$ git push -u origin master
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 4 threads
Writing objects: 100% (6/6), 604 bytes | 342.00 KiB/s, done.
Total 6 delta 21, reused 0 delta 0, pack reused 0
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
To https://github.com:palabdef-cpu-016/gitpractical.git
  75de702..75de702 master -> master
Branch master set up to track remote branch 'master' from 'origin'.
* palabdef-cpu-016:~/Documents/gitpractical$
```

3. Change commit message

2 commands are used according to the requirement, which commit message needs to be changed:

- (1) git commit --amend --m "f2 file added successfully"



```
Activities Jan 12 18:29
F2.txt - gitpractical - Visual Studio Code

Explorer
  gitpractical
    feature
      F1.txt
    master
      m1.txt
      m2.txt
      m3.txt
    demo.txt
    README.txt

Feature > F2.txt
1 This is 2nd file in feature

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

--no-post-rewrite bypass post-rewrite hook
% - --no-verify-files)
--pathspec: from file, optional modes: all, normal, no. (Default: all)
--pathspec: file nul with --pathspec: from file, pathspec elements are separated with NUL character

* palabdef-cpu-016:~/Documents/gitpractical$ git commit --amend -m "f2 file added successfully"
[master cb0435] f2 file added successfully
Date: Thu Jan 12 18:29:00 2023 +0530
 1 file changed, 1 insertion(+)
  create mode 100644 feature/F2.txt
* palabdef-cpu-016:~/Documents/gitpractical$ git push -u origin master
To https://github.com:palabdef-cpu-016/gitpractical.git
```

(2) `git rebase -i HEAD~2`

The screenshot shows the Visual Studio Code editor with the 'feature' branch selected in the Explorer. The terminal window displays the output of a git commit command, showing a successful commit of 'f2 file' with a commit hash and author information.

```

Successfully rebased and updated refs/heads/master.
* palak@pc: /home/palak/gitpractical$ git release -i HEAD~2
Successfully rebased and updated refs/heads/master.
* palak@pc: /home/palak/gitpractical$ git log
commit 65a629c29338189e4155468e1beefc5a5 (HEAD -> master)
Author: Palak Zaiwadia <palakzaiwadia2@gmail.com>
Date:   Sun 12 10:08:08 2023 +0530

    f2 file added successfully

commit 21a73c76271f256aef486279c5957db405238ae
Author: Palak Zaiwadia <palakzaiwadia2@gmail.com>
Date:   Sun 12 10:07:08 2023 +0530

    f1 file added successfully

commit 74ed36c74ad6c8b4f1f5d75d8b09f81874ed3b44
Author: Palak Zaiwadia <palakzaiwadia2@gmail.com>
Date:   Sun 12 10:26:57 2023 +0530

    m3 file added

commit 9a6c27f44824f8135a8ef8788f933c7a688d1
Author: Palak Zaiwadia <palakzaiwadia2@gmail.com>
Date:   Sun 12 17:56:14 2023 +0530

    m2 file added

commit 65347c9872848395188a2ac4fbc4fc96b15e
...
Author: Palak Zaiwadia <palakzaiwadia2@gmail.com>
Date:   Sun 12 10:07:08 2023 +0530

    f2 file added successfully
  
```

[illegible]

4. cherry pick

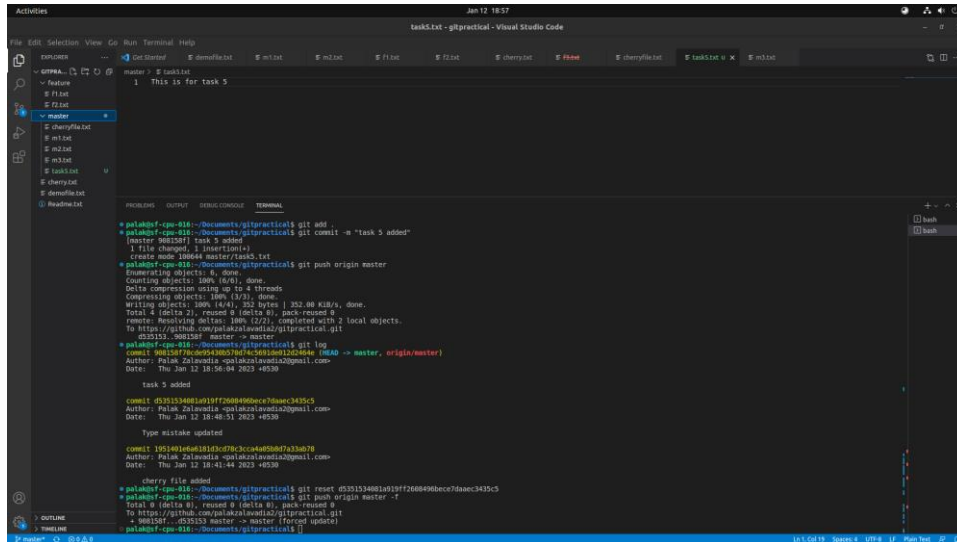
Switched to master branch then created file named cherryfile.txt and made some typing mistake then made commit.

Created new branch feature2 added f3 in feature folder and made commit

Corrected mistake in cherryfile.txt, made commit then switched to master branch and used cherry-pick command

5. Drop commit

In the master branch, in master folder created file task5.txt and made commit then used the reset command to drop commit



```

* palabuf-gpu-016:~/Documents/gitpractical$ git add .
* palabuf-gpu-016:~/Documents/gitpractical$ git commit -m "task 5 added"
[master 908158f] task 5 added
 2 files changed, 1 insertion(+), 0 deletions(-)
 create mode 100644 master/task5.txt
* palabuf-gpu-016:~/Documents/gitpractical$ git push origin master
Enumerating objects: 0, done.
Counting objects: 3000 (46), done.
Delta compression using up to 4 threads
Writing objects: 100% (4/4), 252 bytes | 252.00 KiB/s, done.
Total 4 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/palakalawadi2/gitpractical.git
 d25153..908158f master -> master
* palabuf-gpu-016:~/Documents/gitpractical$ git log
commit 908158f79dc95430d27bf4c581a0d12c94ae (HEAD -> master, origin/master)
Date: Thu Jan 12 18:56:04 2023 +0530

    task 5 added

commit d251534081a019ff20004906ce7daac3435c5
Author: Palak Zalmuda <palakzalmuda@gmail.com>
Date: Thu Jan 12 18:48:51 2023 +0530

    Type mistake updated

commit 1921401ef6b1d1d3c77b3cc4a4050b7a33ba78
Author: Palak Zalmuda <palakzalmuda@gmail.com>
Date: Thu Jan 12 18:41:44 2023 +0530

    cherry file added
* palabuf-gpu-016:~/Documents/gitpractical$ git reset d251534081a019ff20004906ce7daac3435c5
* palabuf-gpu-016:~/Documents/gitpractical$ git push origin master :f
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/palakalawadi2/gitpractical.git
 908158f..d251533 master -> master [forced update]
* palabuf-gpu-016:~/Documents/gitpractical$
```