

```
X +  
C This PC > MY FILES (D:) > git > as  
Sort View  
  
Name Date modified  
.git 30-07-2024 21:32  
f1 30-07-2024 21:31  
f2 30-07-2024 21:31  
f3 30-07-2024 21:31  
  
CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)  
$ git init  
Reinitialized existing Git repository in D:/git/assignment/.git/  
  
CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)  
$ git config --global user.name "Chaitrac28"  
  
CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)  
$ git config --global user.email "chaitrac2810@gmail.com"  
  
CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)  
$ git config -list  
diff.astextplain.textconv=astextplain  
filter.lfs.clean=git-lfs clean -- %f  
filter.lfs.smudge=git-lfs smudge -- %f  
filter.lfs.process=git-lfs filter-process  
filter.lfs.required=true  
http.sslbackend=openssl  
http.sslcainfo=C:/Program Files/Git/mingw64/etc/ssl/certs/ca-bundle.crt  
core.autocrlf=true  
core.fscache=true  
core.symlinks=false  
pull.rebase=false  
credential.helper=manager  
credential.https://dev.azure.com.usehttppath=true  
init.defaultbranch=master  
user.email=chaitrac2810@gmail.com  
user.name=Chaitrac28  
user.mailid=chaitrac2810@gmail.com  
core.repositoryformatversion=0  
core.filemode=false  
core.bare=false  
core.logallrefupdates=true  
core.symlinks=false  
core.ignorecase=true  
  
CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)  
$ touch f1 f2 f3  
  
CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)  
$ git add .  
  
CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)  
$ git commit -m "commit all 3 files V1"  
[master (root-commit) 2df6dda] commit all 3 files V1  
3 files changed, 0 insertions(+), 0 deletions(-)  
create mode 100644 f1  
create mode 100644 f2  
create mode 100644 f3
```

Initialize git , git config , create file, git add ,git commit

```
CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git status
On branch master
nothing to commit, working tree clean

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ vi f1

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ cat f1
hello team

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git status
On branch 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:   f1

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

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git add f1
warning: in the working copy of 'f1', LF will be replaced by CRLF the next time Git touches it

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git commit -m "v2 of f1"
[master 9c5bbd8] v2 of f1
 1 file changed, 1 insertion(+)

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git status
On branch master
nothing to commit, working tree clean

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git log
commit 9c5bbd8a397563c0ad2a784a596aa1b6df9a5cd7 (HEAD -> master)
Author: Chairac28 <chaitrac2810@gmail.com>
Date:   Tue Jul 30 21:37:54 2024 +0530

    v2 of f1

commit 2df6dda2f182c52652e9396ca6d7eb3e2ad2dfb1
Author: Chairac28 <chaitrac2810@gmail.com>
Date:   Tue Jul 30 21:32:54 2024 +0530

    commit all 3 files V1
```

Git status, git log

```

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git branch
* master

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git branch fetaure1

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git checkout -b feature2
Switched to a new branch 'feature2'

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ ls
f1  f2  f3

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git log
commit 9cbbd8a397563c0ad2a784a596aa1b6df9a5cd7 (HEAD -> feature2, master, fetaure1)
Author: Chaitrac28 <chaitrac2810@gmail.com>
Date:   Tue Jul 30 21:37:54 2024 +0530

    v2 of f1

commit 2df6dda2f182c52652e9396ca6d7eb3e2ad2dfb1
Author: Chaitrac28 <chaitrac2810@gmail.com>
Date:   Tue Jul 30 21:32:54 2024 +0530

    commit all 3 files V1

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git checkout master
Switched to branch 'master'

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git checkout feature1
error: pathspec 'feature1' did not match any file(s) known to git

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ ls
f1  f2  f3

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git log
commit 9cbbd8a397563c0ad2a784a596aa1b6df9a5cd7 (HEAD -> master, fetaure1, feature2)
Author: Chaitrac28 <chaitrac2810@gmail.com>
Date:   Tue Jul 30 21:37:54 2024 +0530

    v2 of f1

commit 2df6dda2f182c52652e9396ca6d7eb3e2ad2dfb1
Author: Chaitrac28 <chaitrac2810@gmail.com>
Date:   Tue Jul 30 21:32:54 2024 +0530

    commit all 3 files V1

```

Create branch

```
CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git branch
  feature2
  fetaure1
* master

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git branch -d fetaure1
Deleted branch fetaure1 (was 9c5bbd8).

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git branch
  feature2
* master

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git branch feature1

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git branch
  feature1
  feature2
* master

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git checkout feature1
Switched to branch 'feature1'

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature1)
$ ls
f1  f2  f3

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature1)
$ touch f4

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature1)
$ git add .

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature1)
$ git commit -m "v1 of f4"
[feature1 bb07ffff] v1 of f4
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 f4

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature1)
$ git log
commit bb07ffff01609e9fe4f63a327556171e6f31dfdf7 (HEAD -> feature1)
Author: Chaitrac28 <chaitrac2810@gmail.com>
Date:   Tue Jul 30 21:46:11 2024 +0530

    v1 of f4

commit 9c5bbd8a397563c0ad2a784a596aa1b6df9a5cd7 (master, feature2)
Author: Chaitrac28 <chaitrac2810@gmail.com>
Date:   Tue Jul 30 21:37:54 2024 +0530

    v2 of f1
```

delete branch

```
commit 2df6dda2f182c52652e9396ca6d7eb3e2ad2dfb1
Author: Chaitrac28 <chaitrac2810@gmail.com>
Date: Tue Jul 30 21:32:54 2024 +0530

    commit all 3 files V1

CHAITRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature1)
$ git tag -a v1f4 -m "first commit of f4"

CHAITRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature1)
$ git log
commit bb07fff01609e9fe4f63a327556171e6f31dfdf7 (HEAD -> feature1, tag: v1f4)
Author: Chaitrac28 <chaitrac2810@gmail.com>
Date: Tue Jul 30 21:46:11 2024 +0530

v1 of f4

commit 9c5bbd8a397563c0ad2a784a596aa1b6df9a5cd7 (master, feature2)
Author: Chaitrac28 <chaitrac2810@gmail.com>
Date: Tue Jul 30 21:37:54 2024 +0530

v2 of f1

commit 2df6dda2f182c52652e9396ca6d7eb3e2ad2dfb1
Author: Chaitrac28 <chaitrac2810@gmail.com>
Date: Tue Jul 30 21:32:54 2024 +0530

    commit all 3 files V1

CHAITRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature1)
$ git show v1f4
tag v1f4
Tagger: Chaitrac28 <chaitrac2810@gmail.com>
Date: Tue Jul 30 21:49:48 2024 +0530

first commit of f4

commit bb07fff01609e9fe4f63a327556171e6f31dfdf7 (HEAD -> feature1, tag: v1f4)
Author: Chaitrac28 <chaitrac2810@gmail.com>
Date: Tue Jul 30 21:46:11 2024 +0530

v1 of f4

diff --git a/f4 b/f4
new file mode 100644
index 000000..e69de29
```

git tag,git show

```

CHAITRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature1)
$ git branch
* feature1
  feature2
  master

CHAITRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature1)
$ ls
f1  f2  f3  f4

CHAITRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature1)
$ git checkout master
Switched to branch 'master'

CHAITRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ ls
f1  f2  f3

CHAITRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git log
commit 9c5bbd8a397563c0ad2a784a596aa1b6df9a5cd7 (HEAD -> master, feature2)
Author: Chaitrac28 <chaitrac2810@gmail.com>
Date:   Tue Jul 30 21:37:54 2024 +0530

    v2 of f1

commit 2df6dda2f182c52652e9396ca6d7eb3e2ad2dfb1
Author: Chaitrac28 <chaitrac2810@gmail.com>
Date:   Tue Jul 30 21:32:54 2024 +0530

    commit all 3 files v1

CHAITRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git merge feature1
Updating 9c5bbd8..bb07fff
Fast-forward
  f4 | 0
  1 file changed, 0 insertions(+), 0 deletions(-)
  create mode 100644 f4

CHAITRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ ls
f1  f2  f3  f4

CHAITRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git log --oneline
bb07fff (HEAD -> master, tag: v1f4, feature1) v1 of f4
9c5bbd8 (feature2) v2 of f1
2df6dda commit all 3 files v1

```

merge conflict

```
CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ ls
f1 f2 f3 f4

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git checkout feature1
Switched to branch 'feature1'

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature1)
$ ls
f1 f2 f3 f4

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature1)
$ cat f1
hello team

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature1)
$ vi f1

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature1)
$ cat f1
hello team
this is for assignment purpose

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature1)
$ git add .
warning: in the working copy of 'f1', LF will be replaced by CRLF the next time Git touches it

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature1)
$ git log --oneline
bb07fff (HEAD -> feature1, tag: v1f4, master) v1 of f4
9c5bbd8 (feature2) v2 of f1
2df6dda commit all 3 files v1

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature1)
$ git commit -m "v3 of f1"
[feature1 a04949d] v3 of f1
 1 file changed, 1 insertion(+)

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature1)
$ git checkout master
Switched to branch 'master'

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git checkout feature2
Switched to branch 'feature2'

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ ls
f1 f2 f3

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ vi f1

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ cat f1|
```

merge conflict

```
CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ cat f1
hello team
this is a test

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git add f1

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git status
On branch feature2
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    modified:   f1

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git log --oneline
9c5bbd8 (HEAD -> feature2) v2 of f1
2df6dda commit all 3 files V1

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git commit -m "v4 of f1 to check for conflict"
[feature2 523f3ff] v4 of f1 to check for conflict
 1 file changed, 1 insertion(+)

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git diff f1

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git log --oneline
523f3ff (HEAD -> feature2) v4 of f1 to check for conflict
9c5bbd8 v2 of f1
2df6dda commit all 3 files V1

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git checkout master
Switched to branch 'master'

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ ls
f1  f2  f3  f4

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ cat f1
hello team

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git merge feature1
Updating bb07ffff..a04949d
Fast-forward
  f1 | 1 +
  1 file changed, 1 insertion(+)
```

merge conflict

```
CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ cat f1
hello team
this is for assignment purpose

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git checkout feature2
Switched to branch 'feature2'

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ ls
f1 f2 f3

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ cat f1
hello team
this is a test

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git checkout master
Switched to branch 'master'

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git merge feature2
Auto-merging f1
CONFLICT (content): Merge conflict in f1
Automatic merge failed; fix conflicts and then commit the result.

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master|MERGING)
$ git checkout feature2
error: you need to resolve your current index first
f1: needs merge

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master|MERGING)
$ ls
f1 f2 f3 f4

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master|MERGING)
$ cat f1
hello team
<<<<< HEAD
this is for assignment purpose
=====
this is a test
>>>>> feature2

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master|MERGING)
$ vi f1

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master|MERGING)
$ cat f1
hello team
this is for assignment purpose
```

merge conflict

```
CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master|MERGING)
$ git status
On branch master
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:  f1

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

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master|MERGING)
$ git add f1

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master|MERGING)
$ git commit -m "f1 merge conflict resolved"
[master 279154c] f1 merge conflict resolved

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ ls
f1  f2  f3  f4

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ cat f1
hello team
this is for assignment purpose

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ touch f5

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    f5

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

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git clean -n
Would remove f5

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git clean --dry-run
Would remove f5

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git clean -f
Removing f5

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ ls
f1  f2  f3  f4
```

merge conflict resolved , clean untracked files

```
CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git checkout feature1
Switched to branch 'feature1'

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature1)
$ ls
f1 f2 f3 f4

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature1)
$ git checkout master
Switched to branch 'master'

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git log --oneline
279154c (HEAD -> master) f1 merge conflict resolved
523f3ff (feature2) v4 of f1 to check for conflict
a04949d (feature1) v3 of f1
bb07ffff (tag: v1f4) v1 of f4
9c5bbd8 v2 of f1
2df6dda commit all 3 files v1

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git checkout feature2
Switched to branch 'feature2'

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ ls
f1 f2 f3

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git log --oneline
523f3ff (HEAD -> feature2) v4 of f1 to check for conflict
9c5bbd8 v2 of f1
2df6dda commit all 3 files v1

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git cherry-pick bb07ffff
[feature2 c210551] v1 of f4
Date: Tue Jul 30 21:46:11 2024 +0530
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 f4

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ ls
f1 f2 f3 f4

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git log --oneline
c210551 (HEAD -> feature2) v1 of f4
523f3ff v4 of f1 to check for conflict
9c5bbd8 v2 of f1
2df6dda commit all 3 files v1
```

git cherry-pick

```
CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git cherry-pick bb07fff
[feature2 c210551] v1 of f4
Date: Tue Jul 30 21:46:11 2024 +0530
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 f4

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ ls
f1  f2  f3  f4

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git log --oneline
c210551 (HEAD -> feature2) v1 of f4
523f3ff v4 of f1 to check for conflict
9c5bbd8 v2 of f1
2df6dda commit all 3 files v1

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ touch f5

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git add f5

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git commit -m "v1 of f5"
[feature2 9eadf26] v1 of f5
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 f5

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git checkout master
Switched to branch 'master'

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git merge feature2
Merge made by the 'ort' strategy.
f5 | 0
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 f5

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ ls
f1  f2  f3  f4  f5

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git log --oneline
b66c396 (HEAD -> master) Merge branch 'feature2'
9eadf26 (feature2) v1 of f5
c210551 v1 of f4
279154c f1 merge conflict resolved
523f3ff v4 of f1 to check for conflict
a04949d (feature1) v3 of f1
bb07fff (tag: v1f4) v1 of f4
9c5bbd8 v2 of f1
2df6dda commit all 3 files v1
```

git cherry-pick

```
CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ ls
f1 f2 f3 f4 f5 f6

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git status
On branch feature2
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    f6

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

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git add f6

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git status
On branch feature2
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   f6

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git stash
Saved working directory and index state WIP on feature2: 9eadf26 v1 of f5

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ ls
f1 f2 f3 f4 f5

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git status
On branch feature2
nothing to commit, working tree clean

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git stash pop
On branch feature2
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   f6

Dropped refs/stash@{0} (2e886ca7e7f6ce6abe74ad91b25197bb36750399)

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ ls
f1 f2 f3 f4 f5 f6
```

git stash, git stash pop

```
CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ ls
f1 f2 f3 f4 f5 f6

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git status
On branch feature2
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   f6

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git stash
Saved working directory and index state WIP on feature2: 9eadf26 v1 of f5

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git stash drop
Dropped refs/stash@{0} (4ae46c526579859ba0340907ba2426211ade4d81)

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ ls
f1 f2 f3 f4 f5

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git status
On branch feature2
nothing to commit, working tree clean

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git log --oneline
9eadf26 (HEAD -> feature2) v1 of f5
c210551 v1 of f4
523f3ff v4 of f1 to check for conflict
9c5bbd8 v2 of f1
2df6dda commit all 3 files v1

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ vi f5

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ cat f5
hi

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git log --oneline
9eadf26 (HEAD -> feature2) v1 of f5
c210551 v1 of f4
523f3ff v4 of f1 to check for conflict
9c5bbd8 v2 of f1
2df6dda commit all 3 files v1
```

Git stash drop

```
CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git checkout master
Switched to branch 'master'

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git merge feature1
Updating 096835f..ecc18d1
Fast-forward
 f3 | 0
 f4 | 0
 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 f3
 create mode 100644 f4

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ ls
f1  f2  f3  f4

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git log
commit ecc18d10243bec9aad3f294208c9241bbce35d3a (HEAD -> master, feature1)
Author: Chaitrac28 <chaitrac2810@gmail.com>
Date:   Sat Aug 3 07:08:16 2024 +0530

    f3 and f4 v1

commit 096835f6087ea8d35ddd3177d022a247d8195148
Author: Chaitrac28 <chaitrac2810@gmail.com>
Date:   Sat Aug 3 07:07:19 2024 +0530

    f1 and f2 v1

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git rebase feature2
Successfully rebased and updated refs/heads/master.

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git log
commit 27fd446e3eaacbe375aa5bcb323e48dc85c006e4 (HEAD -> master)
Author: Chaitrac28 <chaitrac2810@gmail.com>
Date:   Sat Aug 3 07:08:16 2024 +0530

    f3 and f4 v1

commit 4de33ccb85427820bec1c77c39308024e4961cad (feature2)
Author: Chaitrac28 <chaitrac2810@gmail.com>
Date:   Sat Aug 3 07:09:15 2024 +0530

    f5 and f6 v1

commit 096835f6087ea8d35ddd3177d022a247d8195148
Author: Chaitrac28 <chaitrac2810@gmail.com>
Date:   Sat Aug 3 07:07:19 2024 +0530

    f1 and f2 v1
```

git rebase

```

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ ls
f1 f2 f5 f6

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ cat f5
hello team

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git diff
warning: in the working copy of 'f5', LF will be replaced by CRLF the next time Git touches it
diff --git a/f5 b/f5
index e69de29..4a05fd1 100644
--- a/f5
+++ b/f5
@@ -0,0 +1 @@
+hello team

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git add .
warning: in the working copy of 'f5', LF will be replaced by CRLF the next time Git touches it

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git status
On branch feature2
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    modified:   f5

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git restore f5

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git status
On branch feature2
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    modified:   f5

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git restore --staged f5

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git status
On branch feature2
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:   f5

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

```

git diff ,git restore

```

$ git log --oneline
217ce69 (HEAD -> feature2) v3 of f5
d491085 v2 of f5
4de33cc f5 and f6 v1
096835f f1 and f2 v1

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git rebase -i head~2
[detached HEAD 3ae8b47] squashed the commit
Date: Sat Aug 3 07:21:16 2024 +0530
1 file changed, 2 insertions(+)
Successfully rebased and updated refs/heads/feature2.

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git log --oneline
3ae8b47 (HEAD -> feature2) squashed the commit
4de33cc f5 and f6 v1
096835f f1 and f2 v1

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git blame 3ae8b47
fatal: no such path '3ae8b47' in HEAD

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git blame f5
3ae8b474 (Chaitrac28 2024-08-03 07:21:16 +0530 1) hello team
3ae8b474 (Chaitrac28 2024-08-03 07:21:16 +0530 2) this is a test case

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ ls
f1 f2 f5 f6

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ vi f6

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git add f6
warning: in the working copy of 'f6', LF will be replaced by CRLF the next time Git touches it

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git commit -m "v2 of f6"
[feature2 ba3e2fc] v2 of f6
1 file changed, 2 insertions(+)

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git log --oneline f6
ba3e2fc (HEAD -> feature2) v2 of f6
4de33cc f5 and f6 v1

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git revert ba3e2fc
[feature2 2d94079] Revert "v2 of f6"
1 file changed, 2 deletions(-)

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git log --oneline f6
2d94079 (HEAD -> feature2) Revert "v2 of f6"
ba3e2fc v2 of f6

```

git squash, git blame, git revert

```
CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ ls
f1 f2 f5 f6

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ vi f6

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git add f6
warning: in the working copy of 'f6', LF will be replaced by CRLF the next time Git touches it

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git commit -m "v2 of f6"
[feature2 d492664] v2 of f6
 1 file changed, 1 insertion(+)

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git status
On branch feature2
nothing to commit, working tree clean

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git log -oneline f6
fatal: unrecognized argument: -oneline

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git log --oneline f6
d492664 (HEAD -> feature2) v2 of f6
2d94079 Revert "v2 of f6"
ba3e2fc v2 of f6
4de33cc f5 and f6 v1

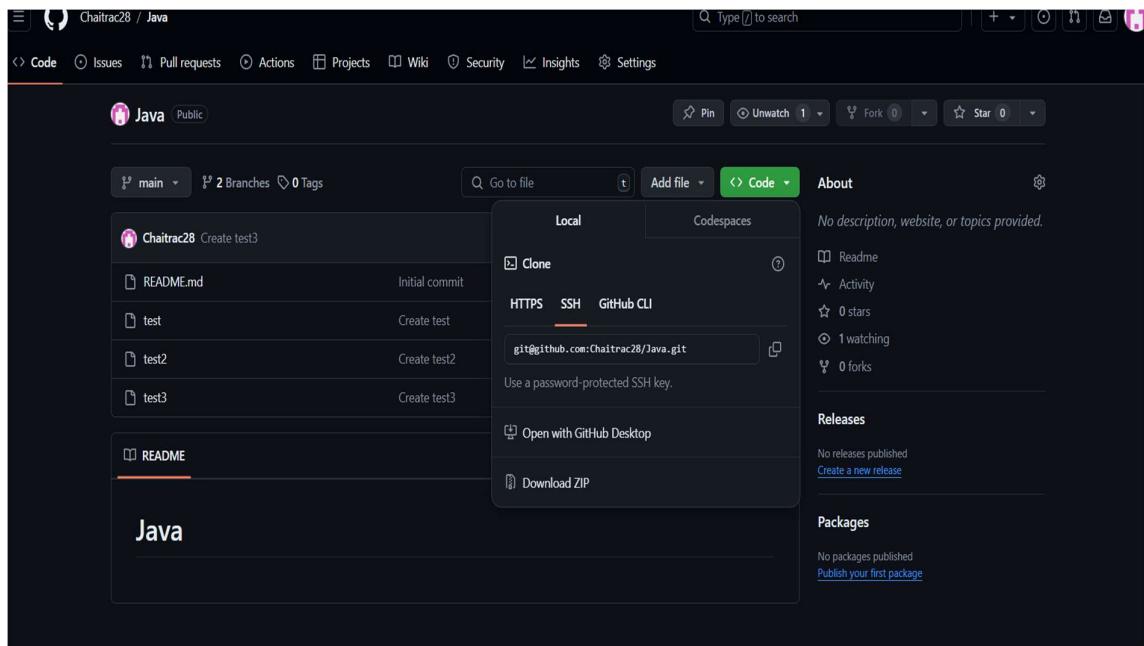
CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git reset --hard HEAD~1
HEAD is now at 2d94079 Revert "v2 of f6"

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git status
On branch feature2
nothing to commit, working tree clean

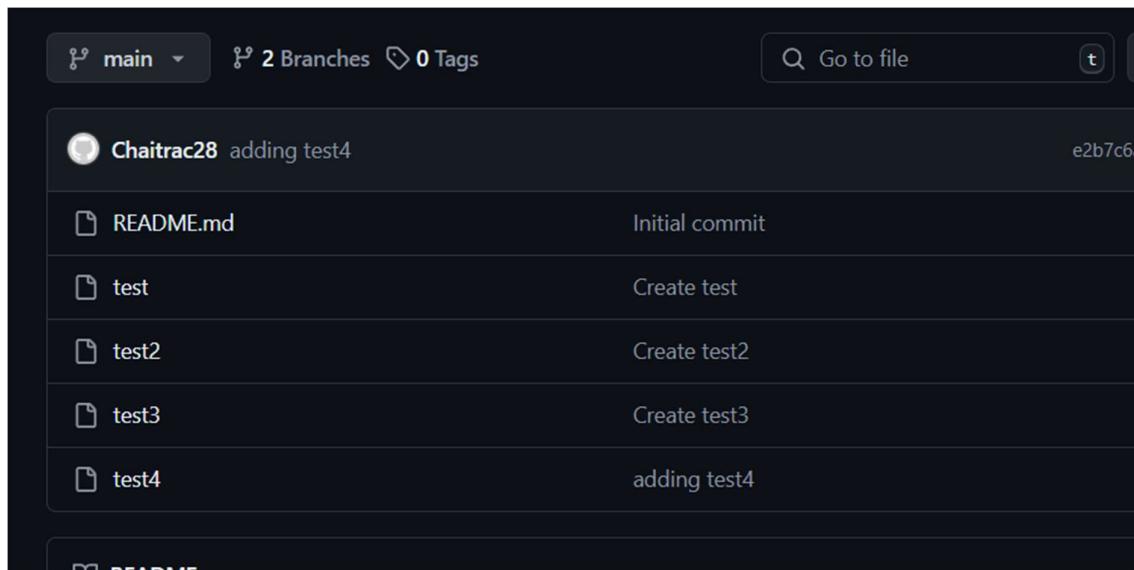
CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ git log --oneline f6
2d94079 (HEAD -> feature2) Revert "v2 of f6"
ba3e2fc v2 of f6
4de33cc f5 and f6 v1

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (feature2)
$ cat f6
```

git reset



To git clone



After git push

```
CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ ls
f1 f2 f3 f4 f5 f6

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ git clone git@github.com:Chaitrac28/Java.git
Cloning into 'Java'...
remote: Enumerating objects: 15, done.
remote: Counting objects: 100% (15/15), done.
remote: Compressing objects: 100% (9/9), done.
remote: Total 15 (delta 3), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (15/15), 4.28 KiB | 1.43 MiB/s, done.
Resolving deltas: 100% (3/3), done.

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ ls
Java/ f1 f2 f3 f4 f5 f6

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment (master)
$ cd Java/

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment/Java (main)
$ ls
README.md test test2 test3

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment/Java (main)
$ touch test4

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment/Java (main)
$ git add test4

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment/Java (main)
$ git commit -n "adding test4"
error: pathspec 'adding test4' did not match any file(s) known to git

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment/Java (main)
$ git commit -m "adding test4"
[main e2b7c6a] adding test4
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 test4

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment/Java (main)
$ git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 264 bytes | 264.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:Chaitrac28/Java.git
 c4b5782..e2b7c6a main -> main
```

Git push

```
CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment/Java (main)
$ ls
README.md test test2 test3 test4

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment/Java (main)
$ git fetch
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 900 bytes | 47.00 KiB/s, done.
From github.com:Chaitrac28/Java
  e2b7c6a..b4319d5  main      -> origin/main

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment/Java (main)
$ git merge
Updating e2b7c6a..b4319d5
Fast-forward
 test 5 | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 test 5

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment/Java (main)
$ ls
README.md test 'test 5' test2 test3 test4

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment/Java (main)
$ git pull
bash: gir: command not found

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment/Java (main)
$ 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 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 908 bytes | 24.00 KiB/s, done.
From github.com:Chaitrac28/Java
  b4319d5..e37090e  main      -> origin/main
Updating b4319d5..e37090e
Fast-forward
 test6 | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 test6

CHAITHRA@DESKTOP-7SKB3TM MINGW64 /d/git/assignment/Java (main)
$ ls
README.md test 'test 5' test2 test3 test4 test6
```

Git fetch+merge , git pull