

TASK -1 [GIT & GITHUB]

1)Git add and git commit and git commit -a

```
MINGW64/c/Users/Seshu Aluru/cognizance
V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ ls
README.md  'task -1'
V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git add 'task -1'
V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   task -1

V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git commit -m "this is code for git commit"
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 'A V Abhinav Sujeevan@LAPTOP-3H127TK2.(none)')

V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git config --global user.name "Abhinavasujeevan1070"
V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git config --global user.email "avabhinavasujeevan@gmail.com"
V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git commit -m "this is code for git commit"
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.
```

2)Git checkout and git checkout -b

```
MINGW64/c/Users/Seshu Aluru/cognizance
file:C:/Program Files/Git/etc/gitconfig http.sslcainfo:C:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt
file:C:/Program Files/Git/etc/gitconfig core.autocrlf=true
file:C:/Program Files/Git/etc/gitconfig core.fscache=true
file:C:/Program Files/Git/etc/gitconfig core.symlinks=false
file:C:/Program Files/Git/etc/gitconfig pull.rebase=false
file:C:/Program Files/Git/etc/gitconfig credential.helper=manager-core
file:C:/Program Files/Git/etc/gitconfig credential.helper=manager-core
file:C:/Program Files/Git/etc/gitconfig init.defaultBranch=master
file:C:/Users/Seshu Aluru/.gitconfig user.name=Abhinavasujeevan1070
file:C:/Users/Seshu Aluru/.gitconfig user.email=avabhinavasujeevan@gmail.com
file:C:/Program Files/Git/etc/gitconfig core.repositoryformatversion=0
file:C:/Program Files/Git/etc/gitconfig core.filemode=false
file:C:/Program Files/Git/etc/gitconfig core.bare=false
file:C:/Program Files/Git/etc/gitconfig core.ignorecase=true
file:C:/Program Files/Git/etc/gitconfig core.logallrefupdates=true
file:C:/Program Files/Git/etc/gitconfig core.symlinks=false
file:C:/Program Files/Git/etc/gitconfig core.ignorecase=true
file:C:/Program Files/Git/etc/gitconfig remote.origin.url=https://github.com/Abhinavasujeevan1070/cognizance.git
file:C:/Program Files/Git/etc/gitconfig remote.origin.fetch=refs/heads/*:refs/remotes/origin/*
file:C:/Program Files/Git/etc/gitconfig branch.main.remote=origin
file:C:/Program Files/Git/etc/gitconfig branch.main.merge=refs/heads/main

V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git commit
hint: Waiting for your editor to close the file...
Aborting commit due to empty commit message.

V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git commit -m "this is code for git commit"
main 8d6d7c53 this is code for git commit
1 file changed, 1 insertion(+)

V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git checkout -b alpha
git: 'checkout' is not a git command. See 'git --help'.

The most similar command is
  checkout

V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git checkout -b alpha
switched to a new branch 'alpha'

V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (alpha)
$ git checkout main
switched to branch 'main'
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$
```

3)Git push

```
MINGW64/c/Users/Seshu Aluru/cognizance
File: .git/config      core.filemode=false
File: .git/config      core.bare=false
File: .git/config      core.logallrefupdates=true
File: .git/config      core.symlinks=false
File: .git/config      core.ignorecase=true
File: .git/config      remote.origin.url=https://github.com/Abhinavasujeevan1070/cognizance.git
File: .git/config      remote.origin.fetch=+refs/heads/*:refs/remotes/origin/*
File: .git/config      branch.main.remote=origin
File: .git/config      branch.main.merge=refs/heads/main

A V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git commit
hint: Waiting for your editor to close the file...
Aborting commit due to empty commit message.

A V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git commit -m "this is code for git commit"
[main 8d6d7c5] this is code for git commit
1 file changed, 1 insertion(+)

A V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git checkout -b alpha
git: 'checkout' is not a git command. See 'git --help'.

The most similar command is
  checkout

A V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)

nothing to commit, working tree clean

A V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git checkout -b alpha
Switched to a new branch 'alpha'

A V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (alpha)
$ git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)

A V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 329 bytes | 329.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Abhinavasujeevan1070/cognizance.git
154f5a1..8d6d7c5  main -> main

A V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$
```

4)Git pull

```
MINGW64/c/Users/Seshu Aluru/cognizance
A V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git commit -m "this is code for git commit"
[main 8d6d7c5] this is code for git commit
1 file changed, 1 insertion(+)

A V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git checkout -b alpha
git: 'checkout' is not a git command. See 'git --help'.

The most similar command is
  checkout

A V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)

nothing to commit, working tree clean

A V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git checkout -b alpha
Switched to a new branch 'alpha'

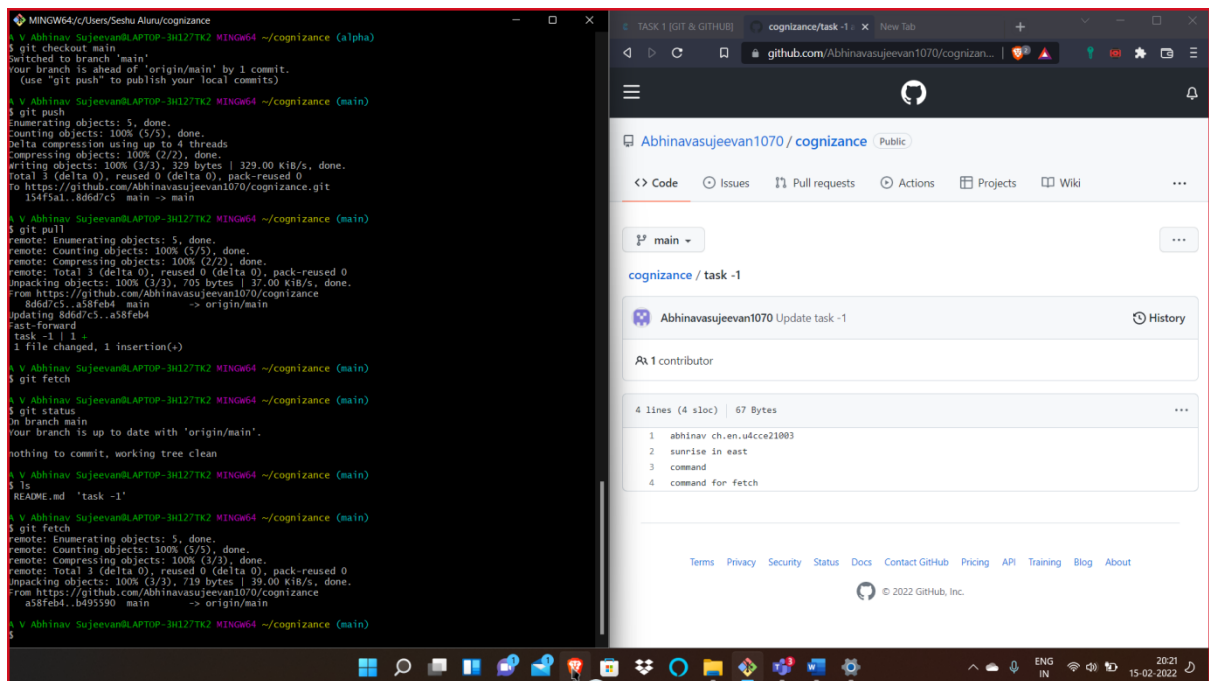
A V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (alpha)
$ git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)

A V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 329 bytes | 329.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Abhinavasujeevan1070/cognizance.git
154f5a1..8d6d7c5  main -> main

A V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git pull
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), 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), 705 bytes | 37.00 KiB/s, done.
From https://github.com/Abhinavasujeevan1070/cognizance
8d6d7c5..a58feb4  main -> origin/main
Updating 8d6d7c5..a58feb4
fast-forward
task -1 | 1
1 file changed, 1 insertion(+)

A V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$
```

5)Git fetch



The screenshot shows a Windows terminal window on the left and a web browser on the right. The terminal window displays the following commands and output:

```
MINGW64/c/Users/Seshu Aluru/cognizance
V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (alpha)
$ git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)

V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 329 bytes | 329.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Abhinavasujeevan1070/cognizance.git
154f5a1..8d6d7c5 main -> main

V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git pull
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), 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), 705 bytes | 137.00 KiB/s, done.
From https://github.com/Abhinavasujeevan1070/cognizance
8d6d7c5..a58feb4 main -> origin/main
Updating 8d6d7c5..a58feb4
Fast-forward
 task -1 | 1
 1 file changed, 1 insertion(+)

V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git fetch
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 719 bytes | 39.00 KiB/s, done.
From https://github.com/Abhinavasujeevan1070/cognizance
a58feb4..b95590 main -> origin/main

V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.
nothing to commit, working tree clean

V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ ls
README.md task -1

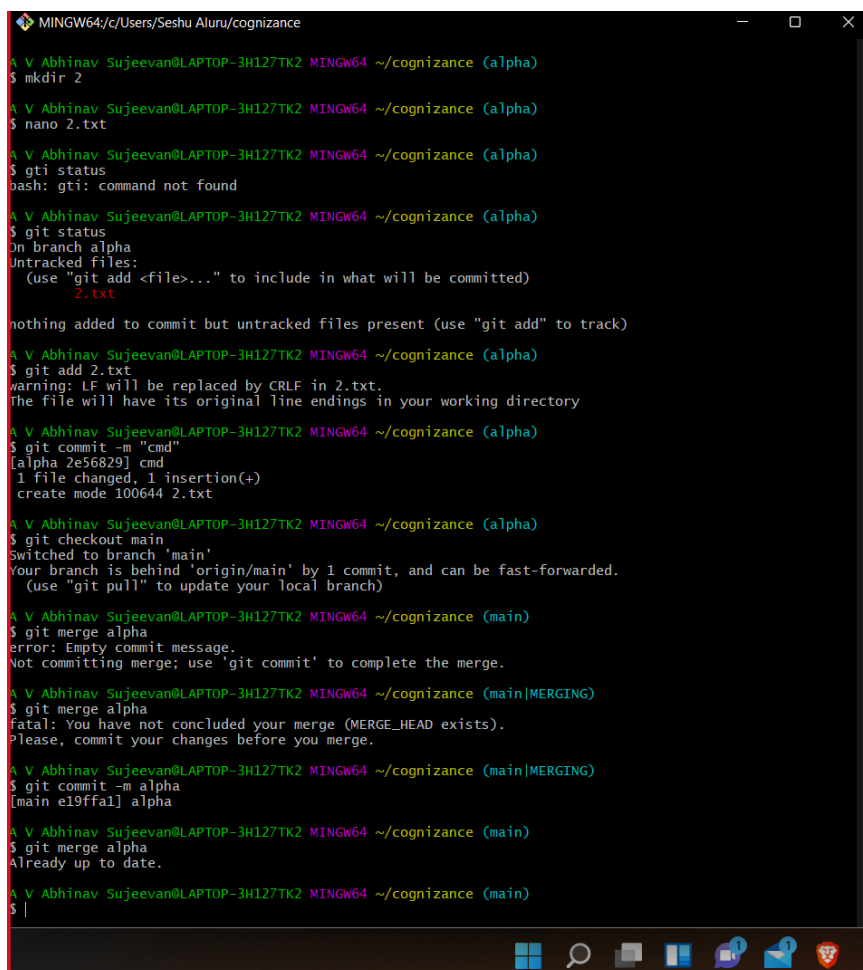
V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git fetch
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 719 bytes | 39.00 KiB/s, done.
From https://github.com/Abhinavasujeevan1070/cognizance
a58feb4..b95590 main -> origin/main

V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$
```

The web browser window shows the GitHub repository page for Abhinavasujeevan1070/cognizance. The repository is public and has 1 contributor. The file task -1 is shown with 4 lines (4 sloc) and 67 Bytes. The file content is:

```
1 abhinav.ch.en.u4cce21003
2 sunrise in east
3 command
4 command for fetch
```

6)git merge



The screenshot shows a Windows terminal window with the following commands and output:

```
MINGW64/c/Users/Seshu Aluru/cognizance
V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (alpha)
$ mkdir 2
V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (alpha)
$ nano 2.txt
V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (alpha)
$ gti status
bash: gti: command not found
V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (alpha)
$ git status
On branch alpha
Untracked files:
  (use "git add <file>..." to include in what will be committed)
  2.txt

nothing added to commit but untracked files present (use "git add" to track)
V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (alpha)
$ git add 2.txt
warning: LF will be replaced by CRLF in 2.txt.
The file will have its original line endings in your working directory
V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (alpha)
$ git commit -m "cmd"
[alpha 2e56829] cmd
1 file changed, 1 insertion(+)
create mode 100644 2.txt
V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (alpha)
$ git checkout main
Switched to branch 'main'
Your branch is behind 'origin/main' by 1 commit, and can be fast-forwarded.
(use "git pull" to update your local branch)
V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git merge alpha
error: Empty commit message.
Not committing merge; use 'git commit' to complete the merge.
V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main|MERGING)
$ git merge alpha
fatal: You have not concluded your merge (MERGE_HEAD exists).
Please, commit your changes before you merge.
V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main|MERGING)
$ git commit -m alpha
[main e19ffa1] alpha
V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git merge alpha
Already up to date.
V Abhinav Sujeevan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$
```

7)Git reset

```
MINGW64/C:/Users/Seshu Aluru/cognizance
--p, --patch          select hunks interactively
--e, --edit           edit current diff and apply
--f, --force         allow adding otherwise ignored files
--u, --update        update tracked files
--renormalize        renormalize EOL of tracked files (implies -u)
--N, --intent-to-add record only the fact that the path will be added later
--Ai, --all          add changes from all tracked and untracked files
--ignore-removal     ignore paths removed in the working tree (same as --no-all)
--refresh           don't add, only refresh the index
--ignore-errors      just skip files which cannot be added because of errors
--ignore-missing     check if - even missing - files are ignored in dry run
--sparse            allow updating entries outside of the sparse-checkout cone
--chmod (-l)>xx      override the executable bit of the listed files
--pathspec-from-file <file> read pathspec from file
--pathspec-file-nul with --pathspec-from-file, pathspec elements are separated with NUL character

v v Abhinav_Sujeewan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git add task -1
git: 'addtask -1' is not a git command. See 'git --help'.
v v Abhinav_Sujeewan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git add "task -1"
v v Abhinav_Sujeewan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git status
On branch main
Your branch and 'origin/main' have diverged,
and have 2 and 1 different commits each, respectively.
(use "git pull" to merge the remote branch into yours)

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   task -1

v v Abhinav_Sujeewan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git reset "task -1"
Unstaged changes after reset:
  task -1

v v Abhinav_Sujeewan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$ git status
On branch main
Your branch and 'origin/main' have diverged,
and have 2 and 1 different commits each, respectively.
(use "git pull" to merge the remote branch into yours)

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:   task -1

no changes added to commit (use "git add" and/or "git commit -a")
v v Abhinav_Sujeewan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$
```

8)Git rebase

```
MINGW64/C:/Users/Seshu Aluru/cognizance
Last commands done (2 commands done):
  pick 2e56829 cmd
  pick 55088d3 cmd for rebase
no commands remaining.
You are currently rebasing branch 'main' on 'b495590'.
  (fix conflicts and then run "git rebase --continue")
  (use "git rebase --skip" to skip this patch)
  (use "git rebase --abort" to check out the original branch)

Unmerged paths:
  (use "git restore --staged <file>..." to unstage)
  (use "git add <file>..." to mark resolution)
        both modified:   task -1

no changes added to commit (use "git add" and/or "git commit -a")
v v Abhinav_Sujeewan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main|REBASE 2/2)
$ git add "task -1"
v v Abhinav_Sujeewan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main|REBASE 2/2)
$ git status
Interactive rebase in progress; onto b495590
Last commands done (2 commands done):
  pick 2e56829 cmd
  pick 55088d3 cmd for rebase
no commands remaining.
You are currently rebasing branch 'main' on 'b495590'.
  (all conflicts fixed: run "git rebase --continue")

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   task -1

v v Abhinav_Sujeewan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main|REBASE 2/2)
$ git rebase
fatal: It seems that there is already a rebase-merge directory, and
I wonder if you are in the middle of another rebase.  If that is the
case, please try
  git rebase (--continue | --abort | --skip)
If that is not the case, please
  rm -rf .git/rebase-merge
and run me again.  I am stopping in case you still have something
valuable there.

v v Abhinav_Sujeewan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main|REBASE 2/2)
$ git rebase--continue
git: 'rebase--continue' is not a git command. See 'git --help'.
v v Abhinav_Sujeewan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main|REBASE 2/2)
$ git rebase --continue
detached HEAD 63f9d4c d for rebase
1 file changed, 4 insertions(+)
Successfully rebased and updated refs/heads/main.
v v Abhinav_Sujeewan@LAPTOP-3H127TK2 MINGW64 ~/cognizance (main)
$
```