```
MINGW64:/c/Users/Deepa/mv-git-lab
                                                                                                                                                                                                                                                                                                                                 o
   * 961b988 (feature-branch) Feature branch changes Line 2
      239dcfl Main branch changes Line 2
* 1f344f1 Initial version of app.py
* 6e162ad Update app.py to version 3
 78cd7da Update app.py to version 2
 7fd4d99 Initial commit: add app.py
Deepa@DeepakBatra MINGW64 ~/mv-git-lab (rebase-experiment|REBASE 2/2)
$ git log --oneline
99fbcb9 (HEAD) rebase-experiment: Add Line A
 e632eeb (main) main: Add Line X
881c056 Resolved merge conflict in app.py
239dcf1 Main branch changes Line 2
961b988 (feature-branch) Feature branch changes Line 2
1f344f1 Initial version of app.py
6e162ad Update app.py to version 3
78cd7da Update app.py to version 2
7fd4d99 Initial commit: add app.py
Deepa@DeepakBatra MINGW64 ~/my-git-lab (rebase-experiment|REBASE 2/2)
$ git revert 239dcf1
error: Reverting is not possible because you have unmerged files.
hint: Fix them up in the work tree, and then use 'git add/rm <file>'
hint: as appropriate to mark resolution and make a commit.
fatal: revert failed
Deepa@DeepakBatra MINGw64 ~/my-git-lab (rebase-experiment|REBASE 2/2)
$ git log --oneline
99fbcb9 (HEAD) rebase-experiment: Add Line A
e632eeb (main) main: Add Line X
881c056 Resolved merge conflict in app.py
239dcfl Main branch changes Line 2
961b988 (feature-branch) Feature branch changes Line 2
1f344f1 Initial version of app.py
6e162ad Update app.py to version 3
78cd7da Update app.py to version 2
7fd4d99 Initial commit: add app.py
Deepa@DeepakBatra MINGw64 ~/my-git-lab (rebase-experiment|REBASE 2/2)
   31°C
Mostly cloudy
                                                                                                                                                        Signal | Sig
                                                                                                                                                                                                                                                                                       Q Search
```

MINGW64:/c/Users/Deepa/my-git-lab o

```
[detached HEAD 99fbcb9] rebase-experiment: Add Line A
1 file changed, 3 insertions(+), 4 deletions(-)
Auto-merging app.py
CONFLICT (content): Merge conflict in app.py
error: could not apply 3ab98bc... rebase-experiment: Add Line B
hint: Resolve all conflicts manually, mark them as resolved with
hint: "git add/rm <conflicted_files>", then run "git rebase --continue".
hint: You can instead skip this commit: run "git rebase --skip".
hint: To abort and get back to the state before "git rebase", run "git rebase --abort".
hint: Disable this message with "git config advice.mergeConflict false"
Could not apply 3ab98bc... rebase-experiment: Add Line B
Deepa@DeepakBatra MINGw64 ~/my-git-lab (rebase-experiment|REBASE 2/2)
$ git log --oneline --graph
* 99fbcb9 (HEAD) rebase-experiment: Add Line A
 e632eeb (main) main: Add Line X
    881c056 Resolved merge conflict in app.py
 * 961b988 (feature-branch) Feature branch changes Line 2
* | 239dcf1 Main branch changes Line 2
* 1f344f1 Initial version of app.py
 6e162ad Update app.py to version 3
 78cd7da Update app.py to version 2
 7fd4d99 Initial commit: add app.py
Deepa@DeepakBatra MINGW64 ~/my-git-lab (rebase-experiment|REBASE 2/2)
```





















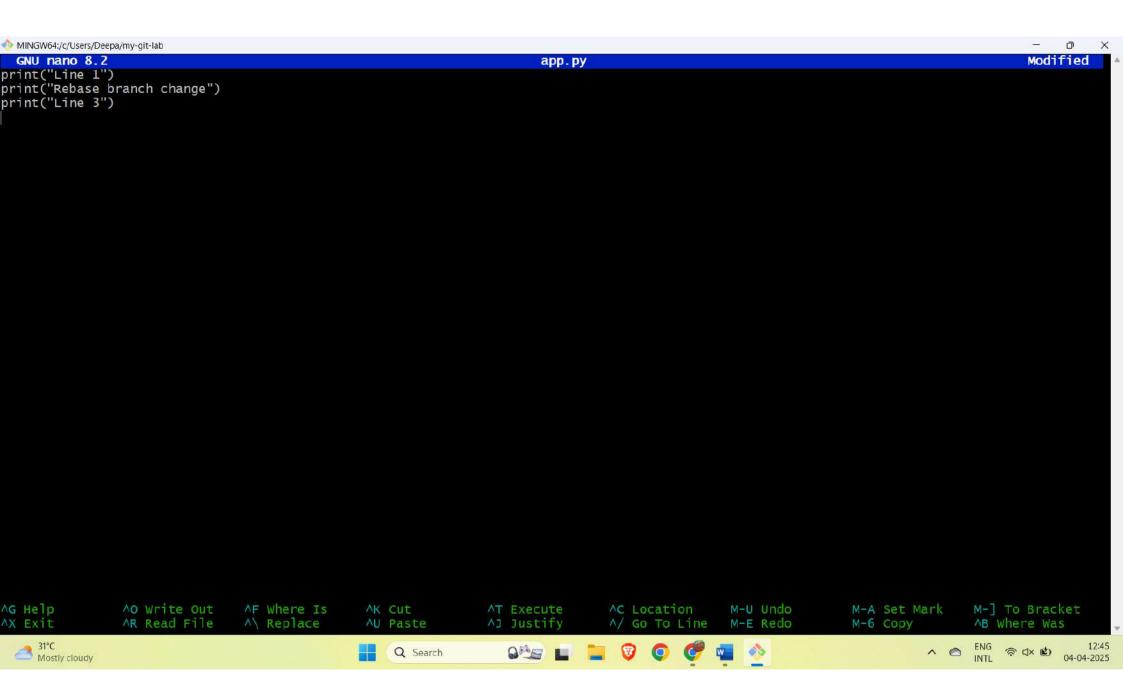


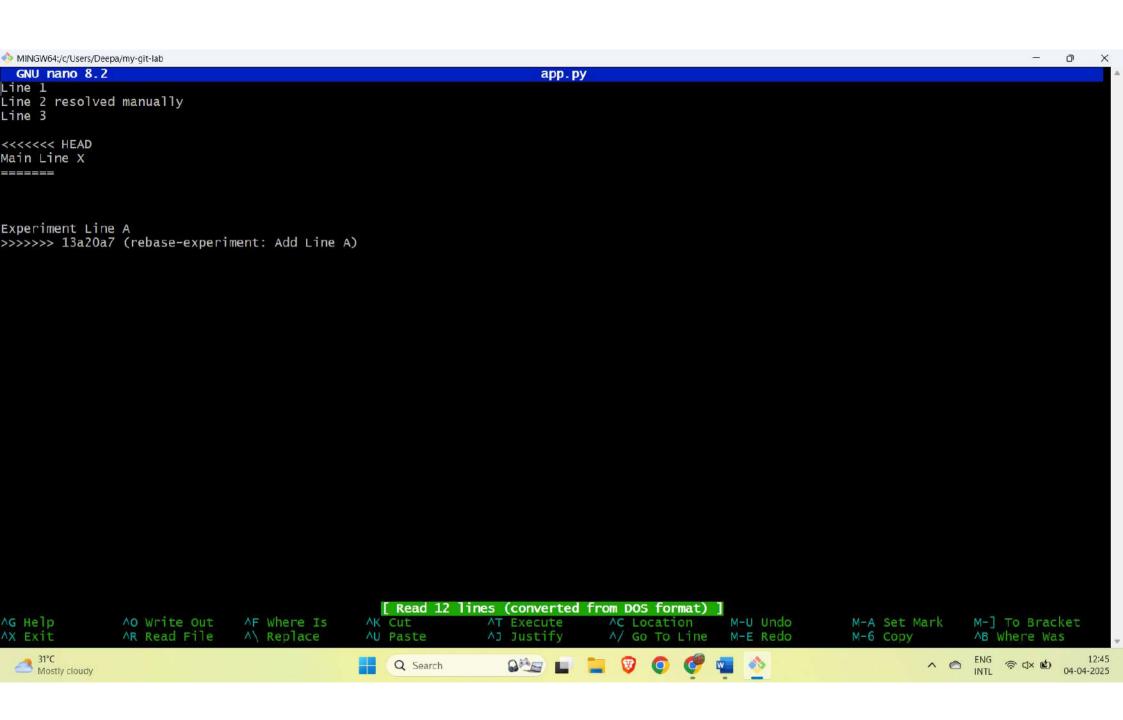






```
MINGW64:/c/Users/Deepa/my-git-lab
                                                                                                                                       — o
rebase-experiment: Add Line A
# Conflicts:
Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
# interactive rebase in progress; onto e632eeb
# Last command done (1 command done):
Next command to do (1 remaining command):
    pick 3ab98bc rebase-experiment: Add Line B
# You are currently rebasing branch 'rebase-experiment' on 'e632eeb'.
# Changes to be committed:
       modified: app.py
.git/COMMIT_EDITMSG [unix] (12:46 04/04/2025)
                                                                                                                                         1,1 A]]
'~/my-git-lab/.git/COMMIT_EDITMSG" [unix] 18L, 538B
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```





```
MINGW64:/c/Users/Deepa/mv-git-lab
                                                                                                                                               - o
1 file changed, 1 insertion(+)
Deepa@DeepakBatra MINGW64 ~/my-qit-lab (rebase-experiment)
$ git checkout main
Switched to branch 'main'
Deepa@DeepakBatra MINGW64 ~/my-git-lab (main)
$ echo "Main Line X" >> app.py
Deepa@DeepakBatra MINGW64 ~/my-git-lab (main)
$ git add app.py\
> exit
fatal: pathspec 'app.pyexit' did not match any files
Deepa@DeepakBatra MINGW64 ~/my-git-lab (main)
$ git add app.py
warning: in the working copy of 'app.py', LF will be replaced by CRLF the next time Git touches it
Deepa@DeepakBatra MINGw64 ~/my-git-lab (main)
$ git commit -m "main: Add Line X"
[main e632eeb] main: Add Line X
1 file changed, 1 insertion(+)
Deepa@DeepakBatra MINGw64 ~/my-git-lab (main)
$ git checkout rebase-experiment
Switched to branch 'rebase-experiment'
Deepa@DeepakBatra MINGW64 ~/my-git-lab (rebase-experiment)
$ git rebase main
Auto-merging app.py
CONFLICT (content): Merge conflict in app.py
error: could not apply 13a20a7... rebase-experiment: Add Line A
hint: Resolve all conflicts manually, mark them as resolved with
hint: "git add/rm <conflicted_files>", then run "git rebase --continue".
hint: You can instead skip this commit: run "git rebase --skip".
hint: To abort and get back to the state before "git rebase", run "git rebase --abort".
hint: Disable this message with "git config advice.mergeConflict false"
Could not apply 13a20a7... rebase-experiment: Add Line A
Deepa@DeepakBatra MINGw64 ~/my-git-lab (rebase-experiment|REBASE 1/2)
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Mostly cloudy
                                                                                                                                Q Search
```

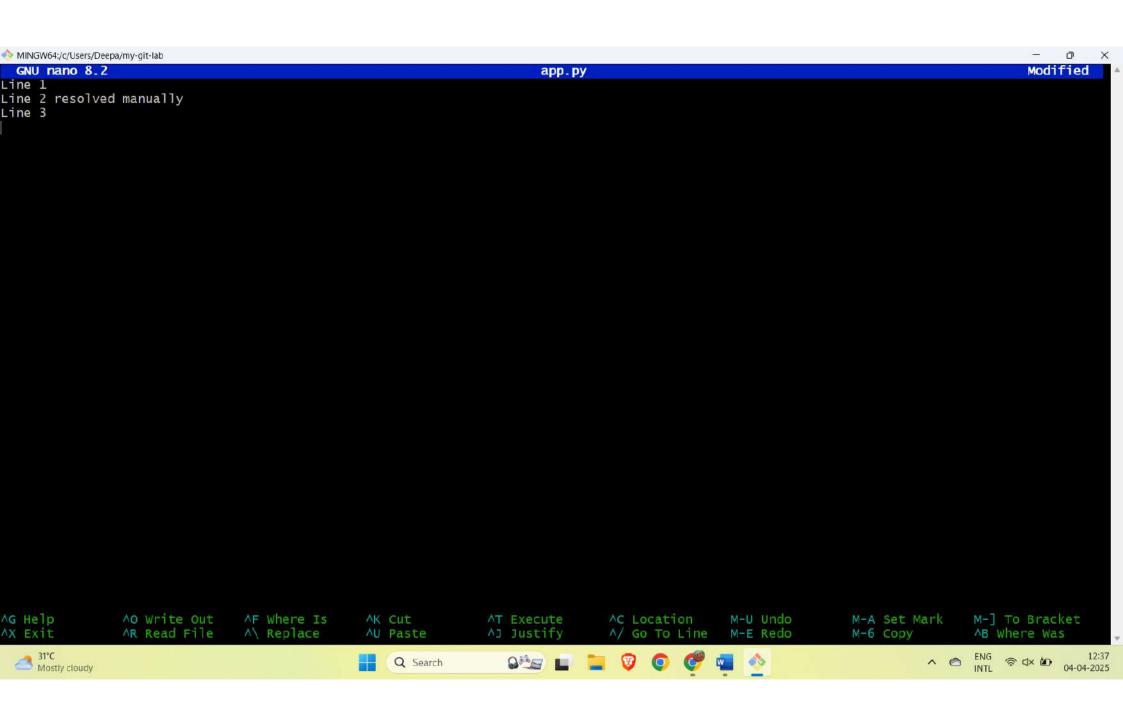
MINGW64:/c/Users/Deepa/mv-git-lab - o Deepa@DeepakBatra MINGW64 ~/my-git-lab (main|MERGING) \$ git commit -m "Resolved merge conflict in app.py" [main 881c056] Resolved merge conflict in app.pv Deepa@DeepakBatra MINGW64 ~/my-git-lab (main) \$ nano app.py Deepa@DeepakBatra MINGW64 ~/my-git-lab (main) \$ git checkout -b rebase-experiment Switched to a new branch 'rebase-experiment' Deepa@DeepakBatra MINGW64 ~/my-git-lab (rebase-experiment) \$ echo "Experiment Line A" >> app.py Deepa@DeepakBatra MINGW64 ~/my-git-lab (rebase-experiment) \$ git add app.py warning: in the working copy of 'app.py', LF will be replaced by CRLF the next time Git touches it Deepa@DeepakBatra MINGW64 ~/my-qit-lab (rebase-experiment) \$ git commit -m "rebase-experiment: Add Line A" [rebase-experiment 13a20a7] rebase-experiment: Add Line A 1 file changed, 4 insertions(+) Deepa@DeepakBatra MINGW64 ~/my-git-lab (rebase-experiment) \$ echo "Experiment Line B" >> app.py Deepa@DeepakBatra MINGW64 ~/my-git-lab (rebase-experiment) \$ git add app.py warning: in the working copy of 'app.py', LF will be replaced by CRLF the next time Git touches it Deepa@DeepakBatra MINGW64 ~/my-git-lab (rebase-experiment) \$ git commit -m "rebase-experiment: Add Line B" [rebase-experiment 3ab98bc] rebase-experiment: Add Line B 1 file changed, 1 insertion(+) Deepa@DeepakBatra MINGw64 ~/my-git-lab (rebase-experiment) \$ git checkout main Switched to branch 'main'

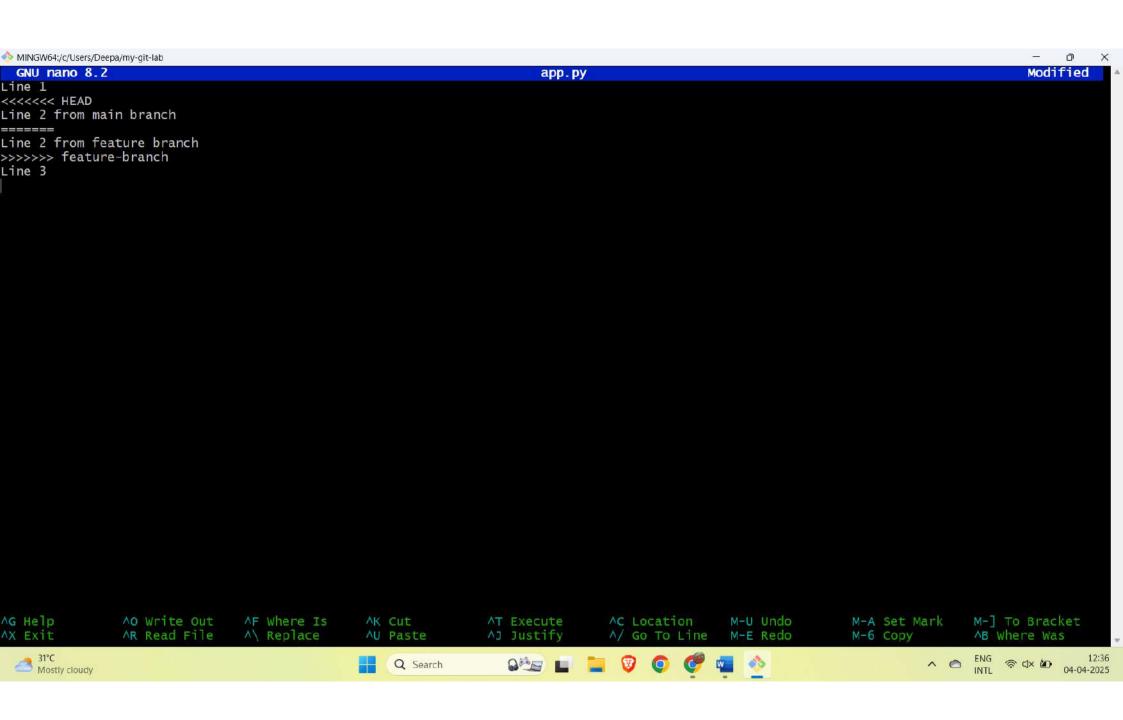
Q Search

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Deepa@DeepakBatra MINGw64 ~/my-git-lab (main)

31°C Mostly cloudy





— o MINGW64:/c/Users/Deepa/mv-git-lab Deepa@DeepakBatra MINGW64 ~/my-git-lab (feature-branch) \$ git checkout main Switched to branch 'main' Deepa@DeepakBatra MINGW64 ~/my-git-lab (main) \$ nano app.py Deepa@DeepakBatra MINGw64 ~/my-git-lab (main) \$ git add app.pv Deepa@DeepakBatra MINGW64 ~/my-git-lab (main) \$ git commit -m "Main branch changes Line 2" [main 239dcf1] Main branch changes Line 2 1 file changed, 1 insertion(+), 1 deletion(-) Deepa@DeepakBatra MINGW64 ~/my-git-lab (main) \$ git merge feature-branch Auto-merging app.py CONFLICT (content): Merge conflict in app.py Automatic merge failed; fix conflicts and then commit the result. Deepa@DeepakBatra MINGW64 ~/my-git-lab (main|MERGING) \$ nano app.py Deepa@DeepakBatra MINGW64 ~/my-git-lab (main|MERGING) \$ git add app.py Deepa@DeepakBatra MINGw64 ~/my-git-lab (main|MERGING) \$ git add app.py Deepa@DeepakBatra MINGW64 ~/my-git-lab (main|MERGING) Deepa@DeepakBatra MINGw64 ~/my-git-lab (main|MERGING) \$ git commit -m "Resolved merge conflict in app.py" [main 881c056] Resolved merge conflict in app.py Deepa@DeepakBatra MINGW64 ~/my-git-lab (main) 31°C Mostly cloudy 😂 🕍 🥛 🦁 💆 🥎 Q Search

```
MINGW64:/c/Users/Deepa/mv-git-lab
                                                                                                                                       - o
Deepa@DeepakBatra MINGW64 ~/my-git-lab (main)
$ git status
On branch main
nothing to commit, working tree clean
Deepa@DeepakBatra MINGW64 ~/my-git-lab (main)
$ echo "Line 1
Line 2
Line 3" > app.pv
Deepa@DeepakBatra MINGW64 ~/my-git-lab (main)
$ git add app.py
warning: in the working copy of 'app.py', LF will be replaced by CRLF the next time Git touches it
Deepa@DeepakBatra MINGW64 ~/my-git-lab (main)
$ git commit -m "Initial version of app.py"
[main 1f344f1] Initial version of app.py
1 file changed, 3 insertions(+), 3 deletions(-)
Deepa@DeepakBatra MINGW64 ~/my-git-lab (main)
$ git checkout -b feature-branch
Switched to a new branch 'feature-branch'
Deepa@DeepakBatra MINGW64 ~/my-git-lab (feature-branch)
$ nano app.pv
Deepa@DeepakBatra MINGw64 ~/my-git-lab (feature-branch)
$ git add app.py
warning: in the working copy of 'app.py', LF will be replaced by CRLF the next time Git touches it
Deepa@DeepakBatra MINGw64 ~/my-git-lab (feature-branch)
$ git commit -m "Feature branch changes Line 2"
[feature-branch 961b988] Feature branch changes Line 2
1 file changed, 1 insertion(+), 1 deletion(-)
Deepa@DeepakBatra MINGW64 ~/my-git-lab (feature-branch)
$ git checkout main
Switched to branch 'main'
Deepa@DeepakBatra MINGW64 ~/my-git-lab (main)
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 31°C
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```

— o MINGW64:/c/Users/Deepa/mv-git-lab [main 1554f95] Revert "Update app.py to version 2" 1 file changed, 1 deletion(-) Deepa@DeepakBatra MINGw64 ~/my-git-lab (main) \$ cat app.py print('Hello, world') print('Version 2') Deepa@DeepakBatra MINGW64 ~/my-git-lab (main) \$ echo "print('Temporary change')" >> app.py Deepa@DeepakBatra MINGw64 ~/my-git-lab (main) \$ git add app.py warning: in the working copy of 'app.py', LF will be replaced by CRLF the next time Git touches it Deepa@DeepakBatra MINGw64 ~/my-git-lab (main) \$ git commit -m "Temporary commit to test reset" [main d2d42e1] Temporary commit to test reset 1 file changed, 1 insertion(+) Deepa@DeepakBatra MINGW64 ~/my-git-lab (main) \$ git reset --soft HEAD~1 Deepa@DeepakBatra MINGW64 ~/my-git-lab (main) \$ git status On branch main Changes to be committed: (use "git restore --staged <file>..." to unstage) modified: app.py Deepa@DeepakBatra MINGW64 ~/my-git-lab (main) \$ git reset --hard HEAD~1 HEAD is now at 6e162ad Update app.py to version 3 Deepa@DeepakBatra MINGw64 ~/my-git-lab (main) \$ git status On branch main nothing to commit, working tree clean

Q Search

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A 30°C Partly sunny

MINGW64:/c/Users/Deepa/mv-git-lab - o warning: in the working copy of 'app.py', LF will be replaced by CRLF the next t ime Git touches it Deepa@DeepakBatra MINGW64 ~/my-git-lab (main) \$ git commit -m "Initial commit: add app.py" [main (root-commit) 7fd4d99] Initial commit: add app.py 1 file changed, 1 insertion(+) create mode 100644 app.py Deepa@DeepakBatra MINGW64 ~/my-qit-lab (main) \$ echo "print('Version 2')" >> app.py Deepa@DeepakBatra MINGw64 ~/my-git-lab (main) \$ git add app.py warning: in the working copy of 'app.py', LF will be replaced by CRLF the next time Git touches it Deepa@DeepakBatra MINGW64 ~/my-git-lab (main) \$ git commit -m "Update app.py to version 2" [main 78cd7da] Update app.py to version 2 1 file changed, 1 insertion(+) Deepa@DeepakBatra MINGW64 ~/my-git-lab (main) \$ echo "print('version 3')" >> app.py Deepa@DeepakBatra MINGW64 ~/my-git-lab (main) \$ git add app.py warning: in the working copy of 'app.py', LF will be replaced by CRLF the next time Git touches it Deepa@DeepakBatra MINGw64 ~/my-git-lab (main) \$ git commit -m "Update app.py to version 3" [main 6e162ad] Update app.py to version 3 1 file changed, 1 insertion(+) Deepa@DeepakBatra MINGW64 ~/my-git-lab (main) \$ git log --oneline 6e162ad (HEAD -> main) Update app.py to version 3 78cd7da Update app.py to version 2 7fd4d99 Initial commit: add app.py Deepa@DeepakBatra MINGW64 ~/my-git-lab (main) A 30°C Partly sunny 😂 🔚 🥛 🦁 🍏 🔗

Q Search

— o MINGW64:/c/Users/Deepa/mv-git-lab Deepa@DeepakBatra MINGW64 ~ (main) \$ mkdir my-git-lab Deepa@DeepakBatra MINGW64 ~ (main) \$ cd my-git-lab Deepa@DeepakBatra MINGw64 ~/my-git-lab (main) \$ git init Initialized empty Git repository in C:/Users/Deepa/my-git-lab/.git/ Deepa@DeepakBatra MINGW64 ~/my-git-lab (main) \$ echo "print('Hello, world!')" > app.py bash: !': event not found Deepa@DeepakBatra MINGW64 ~/my-git-lab (main) \$ echo "print('Hello, world')" > app.py Deepa@DeepakBatra MINGW64 ~/my-git-lab (main) \$ git add app.py warning: in the working copy of 'app.py', LF will be replaced by CRLF the next t ime Git touches it Deepa@DeepakBatra MINGW64 ~/my-git-lab (main) \$ git commit -m "Initial commit: add app.py" [main (root-commit) 7fd4d99] Initial commit: add app.py 1 file changed, 1 insertion(+) create mode 100644 app.py Deepa@DeepakBatra MINGw64 ~/my-git-lab (main) \$ echo "print('version 2')" >> app.pv Deepa@DeepakBatra MINGW64 ~/my-git-lab (main) \$ git add app.py warning: in the working copy of 'app.py', LF will be replaced by CRLF the next time Git touches it Deepa@DeepakBatra MINGw64 ~/my-git-lab (main) \$ git commit -m "Update app.py to version 2" [main 78cd7da] Update app.py to version 2 1 file changed, 1 insertion(+)

Q Search

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A 30°C Partly sunny