

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)

\$ mkdir git practical

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)

\$ cd git practical

bash: cd: too many arguments

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)

\$ git init

Initialized empty Git repository in C:/Users/kamra/OneDrive/Desktop/CA-1/.git/

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (master)

\$ git checkout main

error: pathspec 'main' did not match any file(s) known to git

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (master)

\$ git branch --move master main

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)

\$ echo "This is the initial content of the workflow file." > workflow.txt

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)

\$ cat workflow.txt

This is the initial content of the workflow file.

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)

\$ git status

On branch main

No commits yet

Untracked files:

(use "git add <file>..." to include in what will be committed)

workflow.txt

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

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)

\$ git add .

warning: in the working copy of 'workflow.txt', LF will be replaced by CRLF the next time Git touches it

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)

\$ git status

On branch main

No commits yet

Changes to be committed:

(use "git rm --cached <file>..." to unstage)

new file: workflow.txt

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)

\$ git add workflow.txt

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)

\$ git status

On branch main

No commits yet

```
MINGW64:/c/Users/kamra/OneDrive/Desktop/CA-1
kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
$ git add workflow.txt

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
$ git status
On branch main

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   workflow.txt

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
$ git commit -m "Added workflow.txt with initial content"
[main (root-commit) 0687482] Added workflow.txt with initial content
1 file changed, 1 insertion(+)
create mode 100644 workflow.txt

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
$ echo "Added more details to the workflow." >> workflow.txt

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
$ git status
On branch main
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:   workflow.txt

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

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
$ git add workflow.txt
warning: in the working copy of 'workflow.txt', LF will be replaced by CRLF the next time Git touches it

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
$ git status
On branch main
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    modified:   workflow.txt

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
$ cat workflow.txt
This is the initial content of the workflow file.
Added more details to the workflow.

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
$ git add workflow.txt

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
$ git commit -m "Updated workflow.txt with additional details"
[main 9fcb64e] Updated workflow.txt with additional details
1 file changed, 1 insertion(+)

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
$ echo "# Git WorkFlow Practical" > README.md
```

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)

```
$ git add workflow.txt
```

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)

```
$ git commit -m "Updated workflow.txt with additional details"
[main 9fcb64e] Updated workflow.txt with additional details
1 file changed, 1 insertion(+)
```

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)

```
$ echo "# Git Workflow Practical" > README.md
```

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)

```
$ echo "## Commit States in Git" >> README.md
```

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)

```
$ cat README.md
# Git Workflow Practical
## Commit States in Git
```

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)

```
$ echo "1. **Untracked**: The file is new and not yet added to Git." >> README.md
```

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)

```
$ echo "2. **Staged**: The file is added to the staging area using 'git add'." >> README.md
```

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)

```
$ echo "3. **Committed**: The file is saved in Git's history using 'git commit'." >> README.md
```

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)

```
$ cat README.md
# Git Workflow Practical
## Commit States in Git
1. **Untracked**: The file is new and not yet added to Git.
2. **Staged**: The file is added to the staging area using 'git add'.
3. **Committed**: The file is saved in Git's history using 'git commit'.
```

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)

```
$ git log
commit 9fcb64ec5bc3bc7290de58ea425feb340f64cd70 (HEAD -> main)
Author: kamranjaveed <kamranjaveedmohmad@gmail.com>
Date: Mon Feb 17 15:22:41 2025 +0530
```

```
    Updated workflow.txt with additional details
```

```
commit 0687482e907e30bcbbf2f9629701e45bf851326e
Author: kamranjaveed <kamranjaveedmohmad@gmail.com>
Date: Mon Feb 17 15:20:25 2025 +0530
```

```
    Added workflow.txt with initial content
```

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)

```
$ git log -oneline
fatal: unrecognized argument: -oneline
```

kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)

```
$ git log --Author = "kamranjaveed"
fatal: ambiguous argument '=': unknown revision or path not in the working tree.
Use '--' to separate paths from revisions, like this:
'git <command> [<revision>...] -- [<file>...]'
```

```
MINGW64:/c:/Users/kamra/OneDrive/Desktop/CA-1
kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
$ git log --Author = "kamranjaveed"
fatal: ambiguous argument '=': unknown revision or path not in the working tree.
Use '--' to separate paths from revisions, like this:
'git <command> [<revision>...] -- [<file>...']'
```

```
kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
$ git log --author="kamranjaveed"
commit 9fcb64ec5bc3bc7290de58ea425feb340f64cd70 (HEAD -> main)
Author: kamranjaveed <kamranjaveedmohmad@gmail.com>
Date: Mon Feb 17 15:22:41 2025 +0530
```

Updated workflow.txt with additional details

```
commit 0687482e907e30bcbbf2f9629701e45bf851326e
Author: kamranjaveed <kamranjaveedmohmad@gmail.com>
Date: Mon Feb 17 15:20:25 2025 +0530
```

Added workflow.txt with initial content

```
kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
$ git log --since="24 hours ago"
commit 9fcb64ec5bc3bc7290de58ea425feb340f64cd70 (HEAD -> main)
Author: kamranjaveed <kamranjaveedmohmad@gmail.com>
Date: Mon Feb 17 15:22:41 2025 +0530
```

Updated workflow.txt with additional details

```
commit 0687482e907e30bcbbf2f9629701e45bf851326e
Author: kamranjaveed <kamranjaveedmohmad@gmail.com>
Date: Mon Feb 17 15:20:25 2025 +0530
```

Added workflow.txt with initial content

```
kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
$ git log --grep="workflow"
commit 9fcb64ec5bc3bc7290de58ea425feb340f64cd70 (HEAD -> main)
Author: kamranjaveed <kamranjaveedmohmad@gmail.com>
Date: Mon Feb 17 15:22:41 2025 +0530
```

Updated workflow.txt with additional details

```
commit 0687482e907e30bcbbf2f9629701e45bf851326e
Author: kamranjaveed <kamranjaveedmohmad@gmail.com>
Date: Mon Feb 17 15:20:25 2025 +0530
```

Added workflow.txt with initial content

```
kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
$ echo "## Importance of Git History" >> README.md
```

```
kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
$ cat README.md
# Git Workflow Practical
## Commit States in Git
1. **Untracked**: The file is new and not yet added to Git.
2. **Staged**: The file is added to the staging area using 'git add'.
3. **Committed**: The file is saved in Git history using 'git commit'.
## Importance of Git History
```

```
kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
```

MINGW64:/c/Users/kamra/OneDrive/Desktop/CA-1

```
3. **Committed**: The file is saved in Git history using 'git commit'.  
## Importance of Git History
```

```
kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
```

```
$ echo "Git history helps track changes, identify errors, and revert to previous versions." >> README.md
```

```
kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
```

```
$ echo "- **Version Control**: Allows developers to track and manage code changes over time." >> README.md
```

```
kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
```

```
$ echo "- **Debugging**: Helps identify when and where bugs were introduced by reviewing past commits." >> README.md
```

```
kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
```

```
$ echo "- **Collaboration**: Enables teams to work efficiently by keeping a record of all modifications." >> README.md
```

```
kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
```

```
$ cat README.md
```

```
# Git Workflow Practical
```

```
## Commit States in Git
```

1. **\*\*Untracked\*\***: The file is new and not yet added to Git.
2. **\*\*Staged\*\***: The file is added to the staging area using 'git add'.
3. **\*\*Committed\*\***: The file is saved in Git history using 'git commit'.

```
## Importance of Git History
```

```
Git history helps track changes, identify errors, and revert to previous versions.
```

- **\*\*Version Control\*\***: Allows developers to track and manage code changes over time.
- **\*\*Debugging\*\***: Helps identify when and where bugs were introduced by reviewing past commits.
- **\*\*Collaboration\*\***: Enables teams to work efficiently by keeping a record of all modifications.

```
kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
$ git remote add origin https://github.com/kamranjaveed/git-practical.git
```

```
kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
$ git branch -M main
```

```
kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
$ git push -u origin main
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 12 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (6/6), 552 bytes | 552.00 KiB/s, done.
Total 6 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/kamranjaveed/git-practical.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

```
kamra@Javeed MINGW64 ~/OneDrive/Desktop/CA-1 (main)
$ |
```