DEVOPS CA-1

Name – Aditya Kumar

Reg no – 12301713

Roll no - 10

```
commit 8af9751f5414e4e28f2e9db2dd4f285848fb9ced
Author: Aditya74773 <adityakum2004@gmail.com>
Date:   Mon Feb 17 15:22:35 2025 +0530

    done the last thing

commit ae6e8e782ad31edc2e23a70975916c451430f761
Author: Aditya74773 <adityakum2004@gmail.com>
Date:   Mon Feb 17 15:14:41 2025 +0530

    added a new commit

commit 7feafb9fdd552dacab1ecece9a3d8be166b49092
Author: Aditya74773 <adityakum2004@gmail.com>
Date:   Mon Feb 17 15:13:41 2025 +0530

    commited my file
```

```
hp@DESKTOP-0DA07R7 MINGW64 ~/Desktop/Aadica (newfeature1)
$ git init
Initialized empty Git repository in C:/Users/hp/Desktop/Aadica/.git/

hp@DESKTOP-0DA07R7 MINGW64 ~/Desktop/Aadica (master)
$ touch workflow.txt

hp@DESKTOP-0DA07R7 MINGW64 ~/Desktop/Aadica (master)
$ echo "hii this is a ca" > workflow.txt

hp@DESKTOP-0DA07R7 MINGW64 ~/Desktop/Aadica (master)
$ git add .
warning: in the working copy of 'workflow.txt', LF will be replaced by CRLF the next
 time Git touches it

hp@DESKTOP-0DA07R7 MINGW64 ~/Desktop/Aadica (master)
$ git status
On branch master

No commits yet

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


hp@DESKTOP-0DA07R7 MINGW64 ~/Desktop/Aadica (master)
$ git commit -m "commited my file"
[master (root-commit) 7feafb9] commited my file
 1 file changed, 1 insertion(+)
 create mode 100644 workflow.txt

hp@DESKTOP-0DA07R7 MINGW64 ~/Desktop/Aadica (master)
$ echo "added a line to it " >> workflow.txt

hp@DESKTOP-0DA07R7 MINGW64 ~/Desktop/Aadica (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:   workflow.txt
```

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

hp@DESKTOP-0DA07R7 MINGW64 ~/Desktop/Aadica (master)
$ git add .
warning: in the working copy of 'workflow.txt', LF will be replaced by CRLF the next
 time Git touches it

hp@DESKTOP-0DA07R7 MINGW64 ~/Desktop/Aadica (master)
$ git commit -m "added a new commit"
[master ae6e8e7] added a new commit
 1 file changed, 1 insertion(+)

hp@DESKTOP-0DA07R7 MINGW64 ~/Desktop/Aadica (master)
$ nano README.md

hp@DESKTOP-0DA07R7 MINGW64 ~/Desktop/Aadica (master)
$ "# Git Commit States">README.md
bash: # Git Commit States: command not found

hp@DESKTOP-0DA07R7 MINGW64 ~/Desktop/Aadica (master)
$ echo "# Git Commit States">README.md

hp@DESKTOP-0DA07R7 MINGW64 ~/Desktop/Aadica (master)
$ echo "1. **Untracked**: The file exists but is not tracked by Git yet." >> README.
md
echo "2. **Staged**: The file is added to the staging area (ready for commit)." >> R
EADME.md
echo "3. **Committed**: The file is saved to the repository's history." >> README.md

hp@DESKTOP-0DA07R7 MINGW64 ~/Desktop/Aadica (master)
$ cat README.md
# Git Commit States
1. **Untracked**: The file exists but is not tracked by Git yet.
2. **Staged**: The file is added to the staging area (ready for commit).
3. **Committed**: The file is saved to the repository's history.

hp@DESKTOP-0DA07R7 MINGW64 ~/Desktop/Aadica (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        README.md
        README.mdy
```

```
3. **Committed**: The file is saved to the repository's history.

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        README.md
        README.mdy

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

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (master)
$ git add .
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next ti
me Git touches it
warning: in the working copy of 'README.mdy', LF will be replaced by CRLF the next t
ime Git touches it

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   README.md
        new file:   README.mdy


hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (master)
$ git commit -m "done the last thing"
[master 8af9751] done the last thing
 2 files changed, 5 insertions(+)
 create mode 100644 README.md
 create mode 100644 README.mdy

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (master)
$ git status
On branch master
nothing to commit, working tree clean

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (master)
$ history
    1  git commit -a -m "commiterd"
    2  git commit -a -m "commit"
```

```
hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (master)
$ git log
commit 8af9751f5414e4e28f2e9db2dd4f285848fb9ced (HEAD -> master)
Author: Aditya74773 <adityakum2004@gmail.com>
Date:   Mon Feb 17 15:22:35 2025 +0530

    done the last thing

commit ae6e8e782ad31edc2e23a70975916c451430f761
Author: Aditya74773 <adityakum2004@gmail.com>
Date:   Mon Feb 17 15:14:41 2025 +0530

    added a new commit

commit 7feafb9fdd552dacab1ecece9a3d8be166b49092
Author: Aditya74773 <adityakum2004@gmail.com>
Date:   Mon Feb 17 15:13:41 2025 +0530

    commited my file

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (master)
$ git remote add -origin https://github.com/Aditya74773/Aadicaa
error: unknown switch `o'
usage: git remote add [<options>] <name> <url>

    -f, --[no-]fetch        fetch the remote branches
    --[no-]tags             import all tags and associated objects when fetchin
g
                            or do not fetch any tag at all (--no-tags)
    -t, --[no-]track <branch>
                            branch(es) to track
    -m, --[no-]master <branch>
                            master branch
    --[no-]mirror[=(push|fetch)]
                            set up remote as a mirror to push to or fetch from


hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (master)
$ git push origin main
error: src refspec main does not match any
error: failed to push some refs to 'origin'

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (master)
```
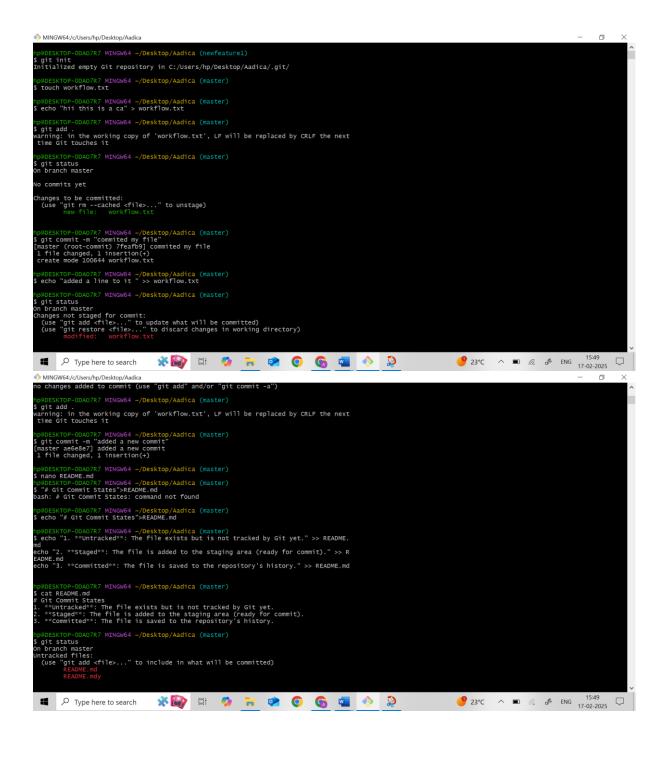
```
hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (main)
$ mv README.mdy README.md

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (main)
$ git push origin main
Everything up-to-date

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (main)
$ ls
README.md  workflow.txt

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (main)
$ git add README.md README.mdy
warning: in the working copy of 'README.md', LF will be replaced by CRLF the
next time Git touches it

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (main)
$ git commit -m "renamed it"
[main 1080e92] renamed it
 2 files changed, 1 insertion(+), 5 deletions(-)
 delete mode 100644 README.mdy

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (main)
$ git push origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 271 bytes | 271.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Aditya74773/Aadicaa.git
   8af9751..1080e92  main -> main

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (main)
$ echo "# Git Commit States" > README.md
echo "1. **Untracked**: The file exists but is not tracked by Git yet." >> RE
ADME.md
echo "2. **Staged**: The file is added to the staging area (ready for commit)
." >> README.md
echo "3. **Committed**: The file is saved to the repository's history." >> RE
ADME.md
echo "# Importance of Git History" > README.md
echo "Git history is crucial in version control and debugging as it allows de
```

```
hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (main)
$ git push origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 425 bytes | 425.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Aditya74773/Aadicaa.git
   8d5bd1a..0a421fd  main -> main

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (main)
$ ^C

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (main)
$ git log
commit 0a421fd6f0aee6b812b9cf7eddf00f2410f4fd29 (HEAD -> main, origin/main)
Author: Aditya74773 <adityakum2004@gmail.com>
Date:   Mon Feb 17 15:41:06 2025 +0530

    added

commit 8d5bd1accddef67eeb3d6ed0d224a29024a03811
Author: Aditya74773 <adityakum2004@gmail.com>
Date:   Mon Feb 17 15:38:46 2025 +0530

    added again

commit 1080e92df22298da1afc0ffac47fc407208a0a7b
Author: Aditya74773 <adityakum2004@gmail.com>
Date:   Mon Feb 17 15:37:01 2025 +0530

    renamed it

commit 8af9751f5414e4e28f2e9db2dd4f285848fb9ced
Author: Aditya74773 <adityakum2004@gmail.com>
Date:   Mon Feb 17 15:22:35 2025 +0530

    done the last thing

commit ae6e8e782ad31edc2e23a70975916c451430f761
Author: Aditya74773 <adityakum2004@gmail.com>
Date:   Mon Feb 17 15:14:41 2025 +0530
```
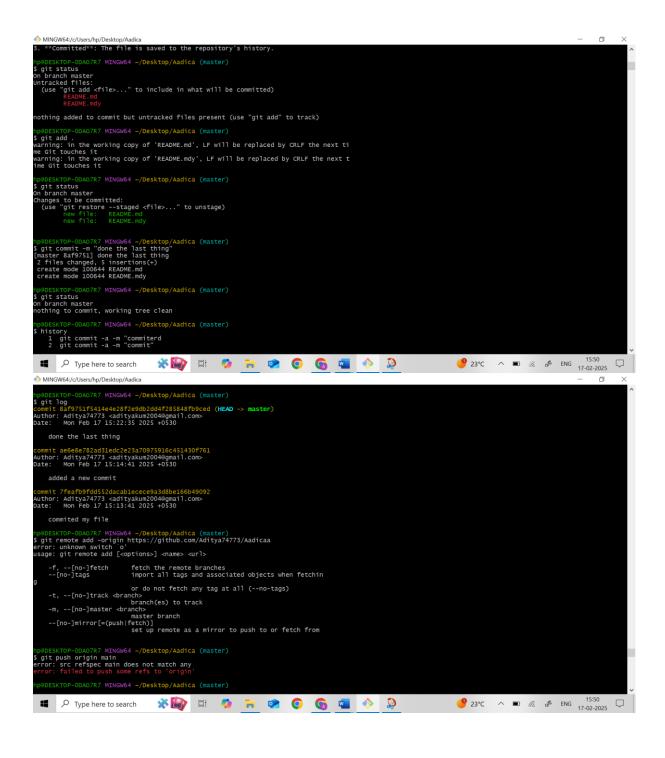
```
hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (main)
$ ^C

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (main)
$ git log
commit 0a421fd6f0aee6b812b9cf7eddf00f2410f4fd29 (HEAD -> main, origin/main)
Author: Aditya74773 <adityakum2004@gmail.com>
Date:   Mon Feb 17 15:41:06 2025 +0530

    added

commit 8d5bd1accddef67eeb3d6ed0d224a29024a03811
Author: Aditya74773 <adityakum2004@gmail.com>
Date:   Mon Feb 17 15:38:46 2025 +0530

    added again

commit 1080e92df22298da1afc0ffac47fc407208a0a7b
Author: Aditya74773 <adityakum2004@gmail.com>
Date:   Mon Feb 17 15:37:01 2025 +0530

    renamed it

commit 8af9751f5414e4e28f2e9db2dd4f285848fb9ced
Author: Aditya74773 <adityakum2004@gmail.com>
Date:   Mon Feb 17 15:22:35 2025 +0530

    done the last thing

commit ae6e8e782ad31edc2e23a70975916c451430f761
Author: Aditya74773 <adityakum2004@gmail.com>
Date:   Mon Feb 17 15:14:41 2025 +0530

    added a new commit

commit 7feafb9fdd552dacab1ecece9a3d8be166b49092
Author: Aditya74773 <adityakum2004@gmail.com>
Date:   Mon Feb 17 15:13:41 2025 +0530

    commited my file

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (main)
$ |
```
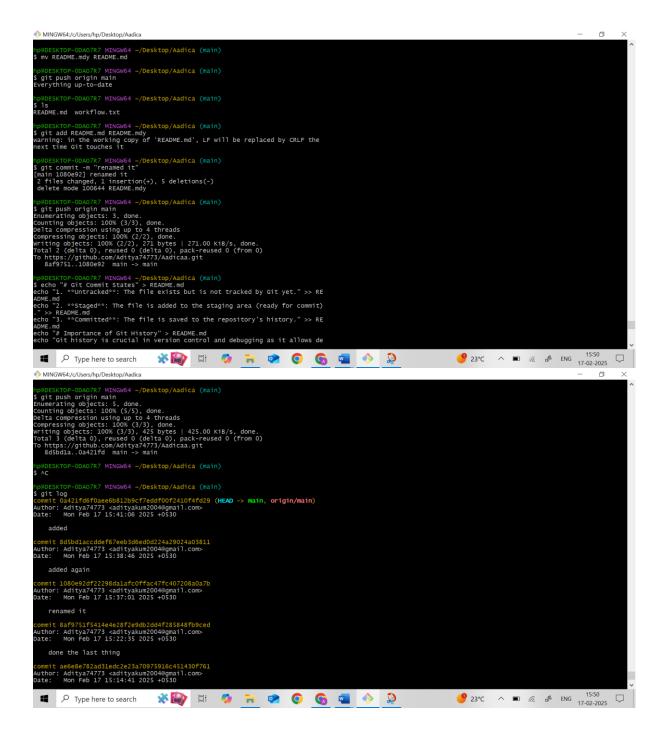
TRACKING FILES WITH FILTER

```
    commited my file

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (master)
$ git log --since="2024-01-01" --until="2024-02-01"

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (master)
$ git log --grep="Feb"

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (master)
$ git log --grep="my file"
commit 7feafb9fdd552dacab1ecece9a3d8be166b49092
Author: Aditya74773 <adityakum2004@gmail.com>
Date:   Mon Feb 17 15:13:41 2025 +0530

    commited my file

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (master)
$ cat README.md
# Git Commit States
1. **Untracked**: The file exists but is not tracked by Git yet.
2. **Staged**: The file is added to the staging area (ready for commit).
3. **Committed**: The file is saved to the repository's history.

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (master)
$ echo "# Importance of Git History" >> README.md
echo "Git history is crucial in version control and debugging as it allows developer
s to:" >> README.md
echo "- Track changes over time." >> README.md
echo "- Identify when and why modifications were made." >> README.md
echo "- Revert to previous versions if needed." >> README.md
echo "- Collaborate effectively with a team." >> README.md
echo "- Debug issues by pinpointing faulty commits." >> README.md

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (master)
$

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (master)
$ history
    1  git commit -a -m "commiterd"
    2  git commit -a -m "commit"
    3  git revert head
    4  touch a
    5  git commit -a -m "commit"
    6  git revert head
```

```
    commited my file

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (master)
$ git log --oneline
8af9751 (HEAD -> master) done the last thing
ae6e8e7 added a new commit
7feafb9 commited my file

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (master)
$ git log --author="Aditya74773"
commit 8af9751f5414e4e28f2e9db2dd4f285848fb9ced (HEAD -> master)
Author: Aditya74773 <adityakum2004@gmail.com>
Date:   Mon Feb 17 15:22:35 2025 +0530

    done the last thing

commit ae6e8e782ad31edc2e23a70975916c451430f761
Author: Aditya74773 <adityakum2004@gmail.com>
Date:   Mon Feb 17 15:14:41 2025 +0530

    added a new commit

commit 7feafb9fdd552dacab1ecece9a3d8be166b49092
Author: Aditya74773 <adityakum2004@gmail.com>
Date:   Mon Feb 17 15:13:41 2025 +0530

    commited my file

hp@DESKTOP-0DAO7R7 MINGW64 ~/Desktop/Aadica (master)
$ git log --since="24 hours ago"
commit 8af9751f5414e4e28f2e9db2dd4f285848fb9ced (HEAD -> master)
Author: Aditya74773 <adityakum2004@gmail.com>
Date:   Mon Feb 17 15:22:35 2025 +0530

    done the last thing

commit ae6e8e782ad31edc2e23a70975916c451430f761
Author: Aditya74773 <adityakum2004@gmail.com>
Date:   Mon Feb 17 15:14:41 2025 +0530

    added a new commit

commit 7feafb9fdd552dacab1ecece9a3d8be166b49092
```