Git Detailed Lab

```
root@ip-172-31-82-222:/home/ubuntu# mkdir gitfolder
root@ip-172-31-82-222:/home/ubuntu#
root@ip-172-31-82-222:/home/ubuntu# ls
day4  gitfolder
root@ip-172-31-82-222:/home/ubuntu# cd gitfolder/
root@ip-172-31-82-222:/home/ubuntu/gitfolder#
root@ip-172-31-82-222:/home/ubuntu/gitfolder# ls
root@ip-172-31-82-222:/home/ubuntu/gitfolder# git init
```

```
Initialized empty Git repository in /home/ubuntu/gitfolder/.git/
root@ip-172-31-82-222:/home/ubuntu/gitfolder# ls -la
total 12
drwxr-xr-x 3 root    root    4096 Mar  6 05:59 .
drwxr-x--- 6 ubuntu  ubuntu  4096 Mar  6 05:59 ..
drwxr-xr-x 7 root    root    4096 Mar  6 05:59 .git
root@ip-172-31-82-222:/home/ubuntu/gitfolder#
```

```
root@ip-172-31-82-222:/home/ubuntu/gitfolder# nano file1
```

```
root@ip-172-31-82-222:/home/ubuntu/gitfolder# nano file1
root@ip-172-31-82-222:/home/ubuntu/gitfolder# git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        file1

nothing added to commit but untracked files present (use "git add" to track)
root@ip-172-31-82-222:/home/ubuntu/gitfolder# git add .
root@ip-172-31-82-222:/home/ubuntu/gitfolder# git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   file1

root@ip-172-31-82-222:/home/ubuntu/gitfolder#
```
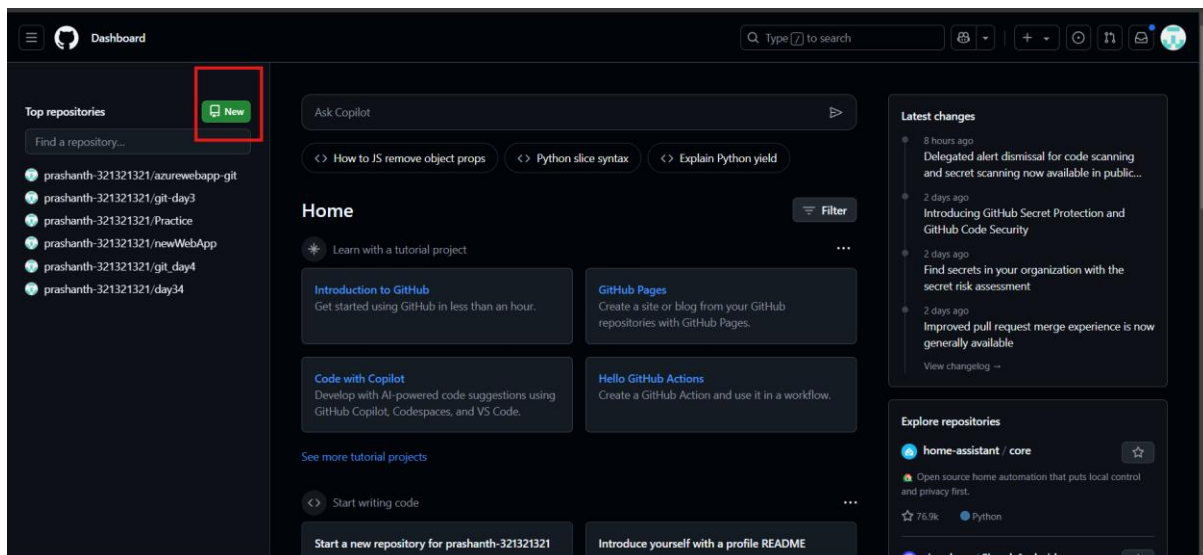
```
root@ip-172-31-82-222:/home/ubuntu/gitfolder# git commit -m "my first commit"
[master (root-commit) 761f7a1] my first commit
 Committer: root <root@ip-172-31-82-222.ec2.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

 1 file changed, 1 insertion(+)
 create mode 100644 file1
```

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?
Import a repository.

Required fields are marked with an asterisk (*).

Owner *

prashanth-321321321 ▾ / **Repository name ***

newrepo

⊘ newrepo is available.

Great repository names are short and memorable. Need inspiration? How about **special-potato** ?

Description (optional)

repo practice

🔘 ▢ **Public**
Anyone on the internet can see this repository. You choose who can commit.

⚪ 🔒 **Private**
You choose who can see and commit to this repository.

Initialize this repository with:

☐ Add a README file
This is where you can write a long description for your project. Learn more about READMEs.

Add .gitignore

.gitignore template: None ▾

Choose which files not to track from a list of templates. Learn more about ignoring files.

Choose a license

License: None ▾

A license tells others what they can and can't do with your code. Learn more about licenses.

ⓘ You are creating a public repository in your personal account.

Create repository

<> Code ⊙ Issues ⅋ Pull requests ⊙ Actions ⊞ Projects ⊞ Wiki ⊙ Security ⌿ Insights ⚙ Settings

newrepo Public

📌 Pin ⊙ Unwatch 1 ▾ ⑂ Fork 0 ▾ ☆ Star 0 ▾

Start coding with Codespaces
Add a README file and start coding in a secure, configurable, and dedicated development environment.

Create a codespace

Add collaborators to this repository
Search for people using their GitHub username or email address.

Invite collaborators

Quick setup — if you've done this kind of thing before

Set up in Desktop or HTTPS SSH https://github.com/prashanth-321321321/newrepo.git

Get started by creating a new file or uploading an existing file. We recommend every repository include a README, LICENSE, and .gitignore.

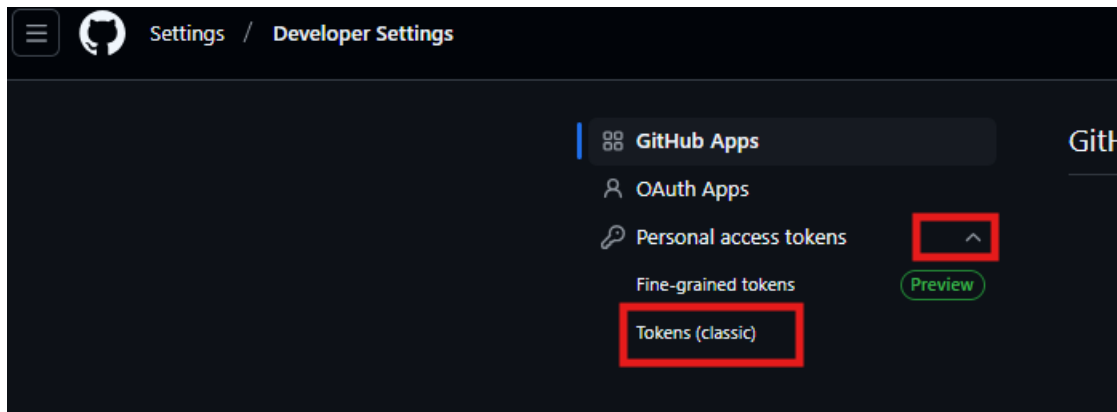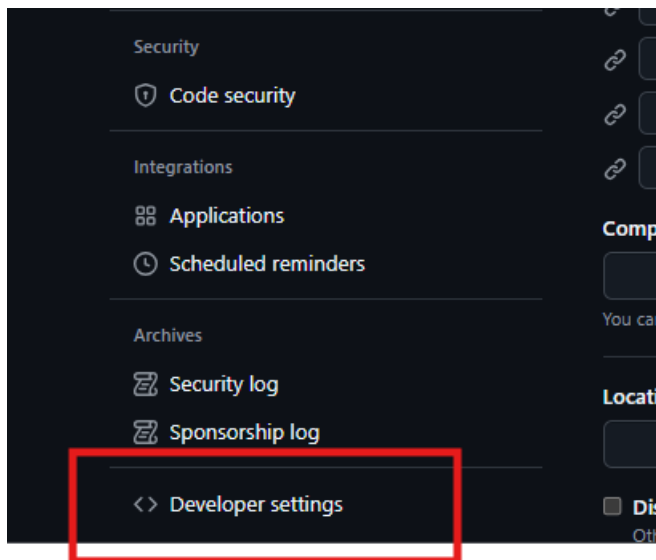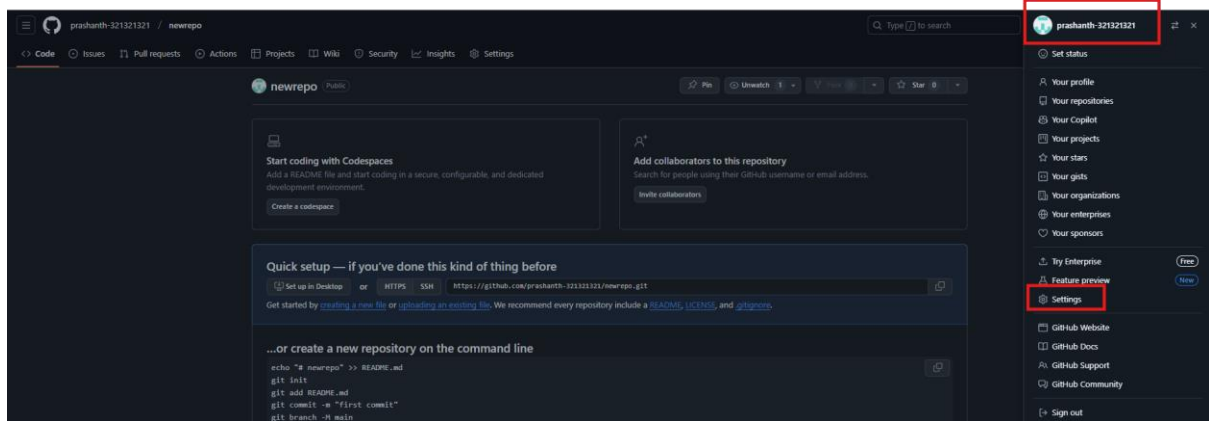**...or create a new repository on the command line**

```
echo "# newrepo" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/prashanth-321321321/newrepo.git
git push -u origin main
```
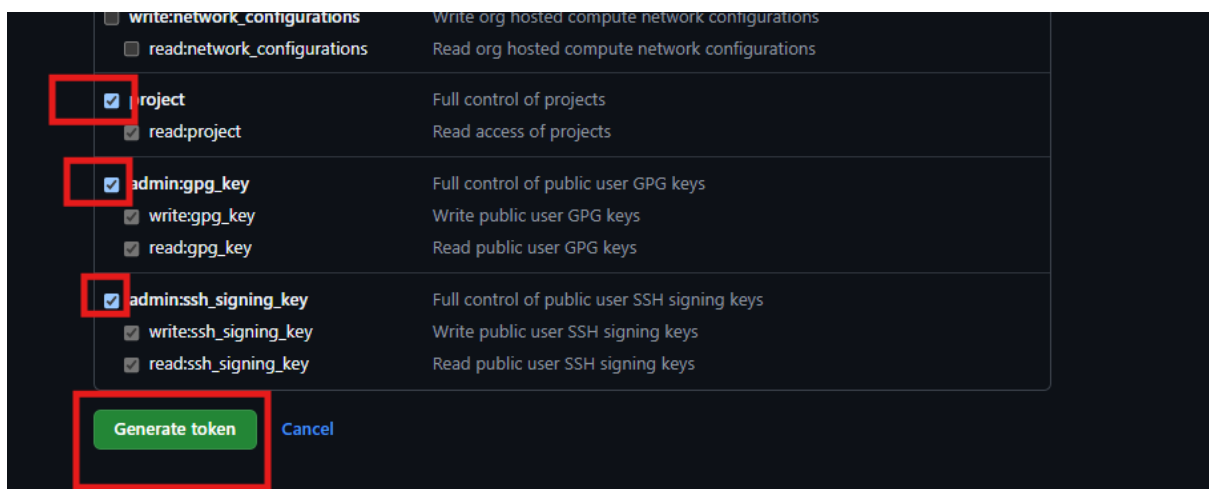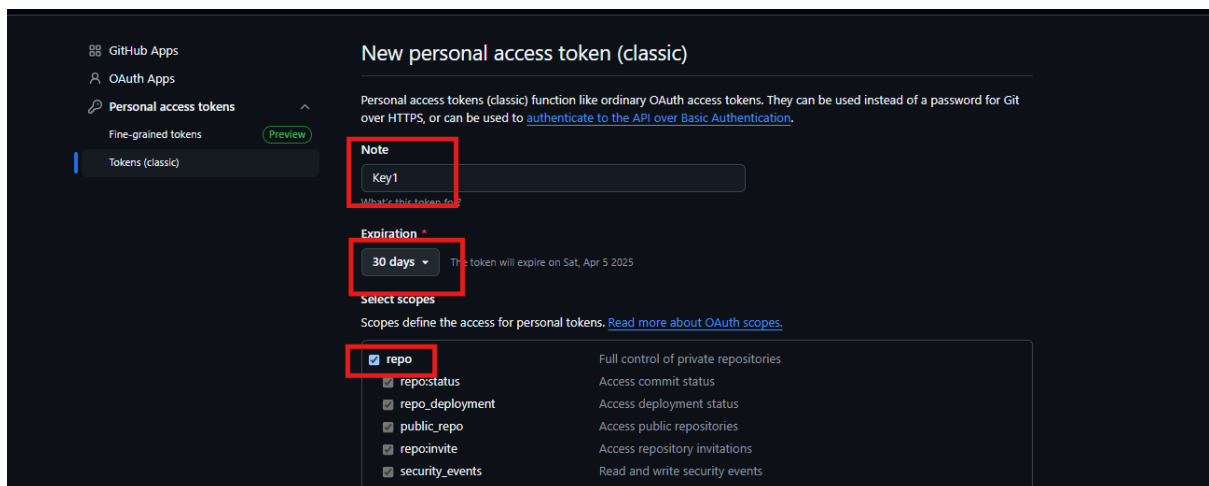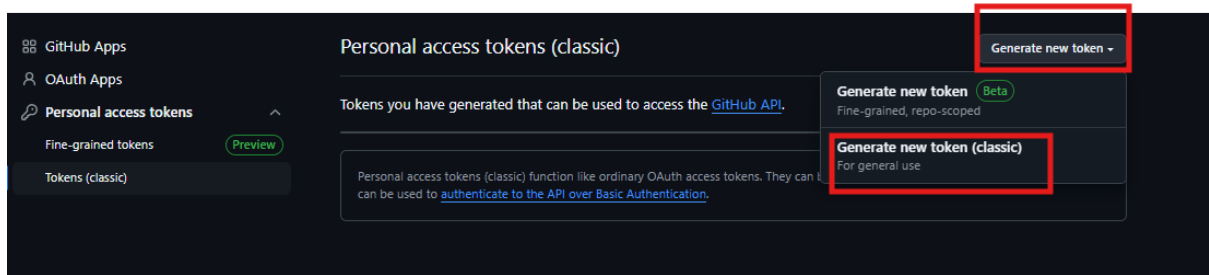
...or push an existing repository from the command line

```
git remote add origin https://github.com/prashanth-321321321/newrepo.git
git branch -M main
git push -u origin main
```
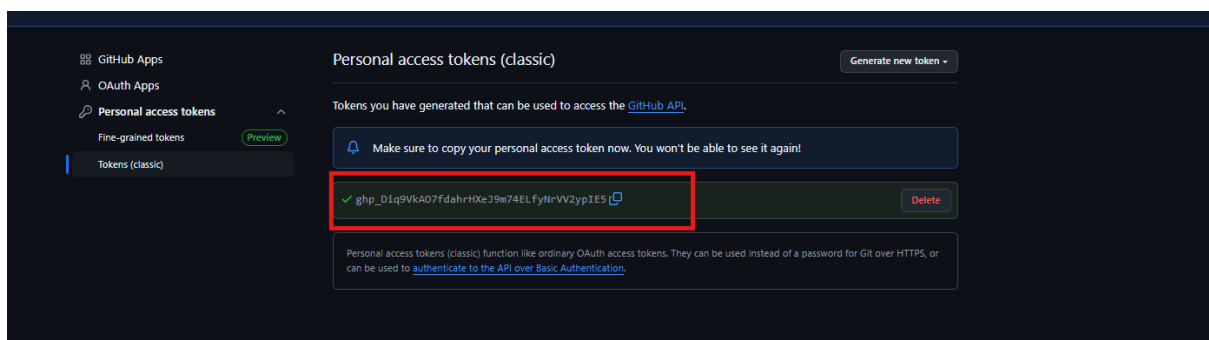

```
root@ip-172-31-82-222:/home/ubuntu/gitfolder# ls
file1
root@ip-172-31-82-222:/home/ubuntu/gitfolder# git branch -M main
root@ip-172-31-82-222:/home/ubuntu/gitfolder# git branch
* main
root@ip-172-31-82-222:/home/ubuntu/gitfolder#
```

```
root@ip-172-31-82-222:/home/ubuntu/gitfolder# git remote add origin https://github.com/prashant
h-321321321/newrepo.git
root@ip-172-31-82-222:/home/ubuntu/gitfolder# git remote -v
origin  https://github.com/prashanth-321321321/newrepo.git (fetch)
origin  https://github.com/prashanth-321321321/newrepo.git (push)
root@ip-172-31-82-222:/home/ubuntu/gitfolder#
```
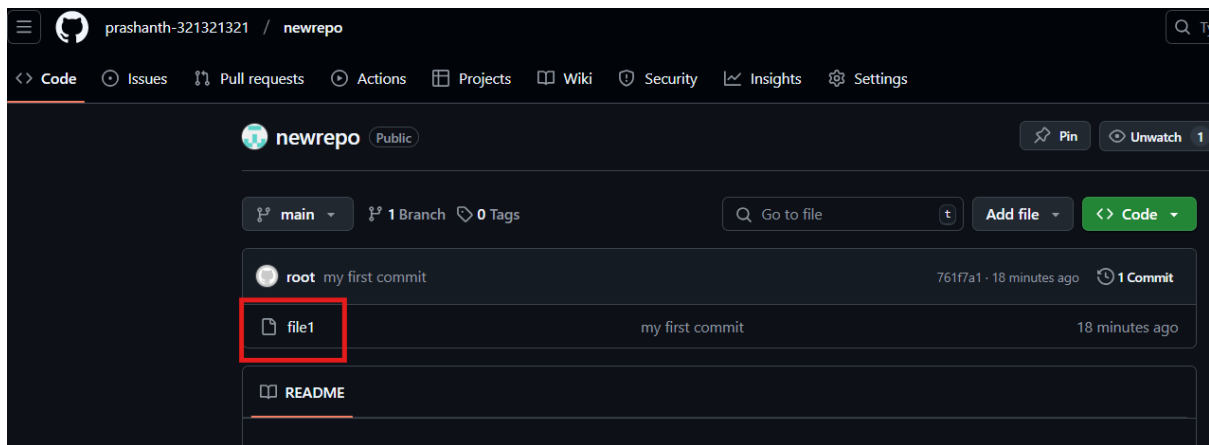
Save this token key

```
root@ip-172-31-82-222:/home/ubuntu/gitfolder# git push origin main
Username for 'https://github.com': prashanth-321321321
Password for 'https://prashanth-321321321@github.com':    Git Token what you saved
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 229 bytes | 229.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/prashanth-321321321/newrepo.git
 * [new branch]      main -> main
root@ip-172-31-82-222:/home/ubuntu/gitfolder#
```



```
root@ip-172-31-82-222:/home/ubuntu/gitfolder# git branch
* main
root@ip-172-31-82-222:/home/ubuntu/gitfolder# git branch dev
root@ip-172-31-82-222:/home/ubuntu/gitfolder# git branch
  dev
* main
root@ip-172-31-82-222:/home/ubuntu/gitfolder# git branch test
root@ip-172-31-82-222:/home/ubuntu/gitfolder# git branch
  dev
* main
  test
root@ip-172-31-82-222:/home/ubuntu/gitfolder# git checkout -b deploy
Switched to a new branch 'deploy'
root@ip-172-31-82-222:/home/ubuntu/gitfolder# git branch
* deploy
  dev
  main
  test
root@ip-172-31-82-222:/home/ubuntu/gitfolder#
```

```
root@ip-172-31-82-222:/home/ubuntu/gitfolder# ls
file1
root@ip-172-31-82-222:/home/ubuntu/gitfolder# nano file2 file 3
root@ip-172-31-82-222:/home/ubuntu/gitfolder# ls
3  file  file1  file2
root@ip-172-31-82-222:/home/ubuntu/gitfolder# git add .
root@ip-172-31-82-222:/home/ubuntu/gitfolder# git commit -m "deploy branch commit"
[deploy c05217b] deploy branch commit
 Committer: root <root@ip-172-31-82-222.ec2.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

 3 files changed, 3 insertions(+)
 create mode 100644 3
 create mode 100644 file
```
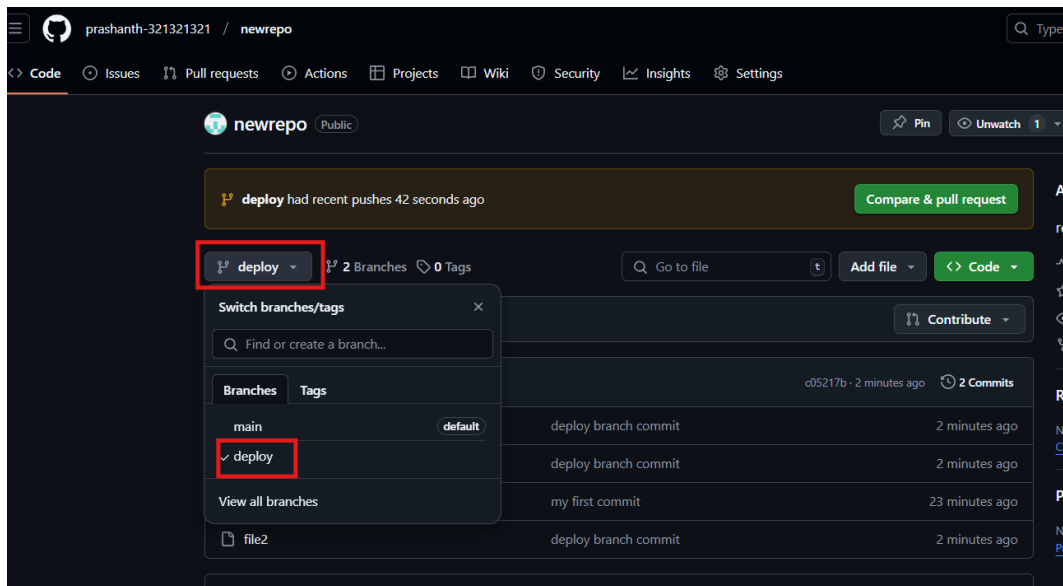
```
root@ip-172-31-82-222:/home/ubuntu/gitfolder# git push origin deploy
Username for 'https://github.com': prashanth-321321321
Password for 'https://prashanth-321321321@github.com':
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (5/5), 366 bytes | 366.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'deploy' on GitHub by visiting:
remote:      https://github.com/prashanth-321321321/newrepo/pull/new/deploy
remote:
To https://github.com/prashanth-321321321/newrepo.git
 * [new branch]      deploy -> deploy
root@ip-172-31-82-222:/home/ubuntu/gitfolder#
```

```
root@ip-172-31-82-222:/home/ubuntu/gitfolder# git checkout main
Switched to branch 'main'
root@ip-172-31-82-222:/home/ubuntu/gitfolder# git branch
  deploy
  dev
* main
  test
root@ip-172-31-82-222:/home/ubuntu/gitfolder# git merge deploy
Updating 761f7a1..c05217b
Fast-forward
 3     | 1 +
 file  | 1 +
 file2 | 1 +
 3 files changed, 3 insertions(+)
 create mode 100644 3
 create mode 100644 file
 create mode 100644 file2
root@ip-172-31-82-222:/home/ubuntu/gitfolder# ls
3   file  file1   file2
root@ip-172-31-82-222:/home/ubuntu/gitfolder#
```