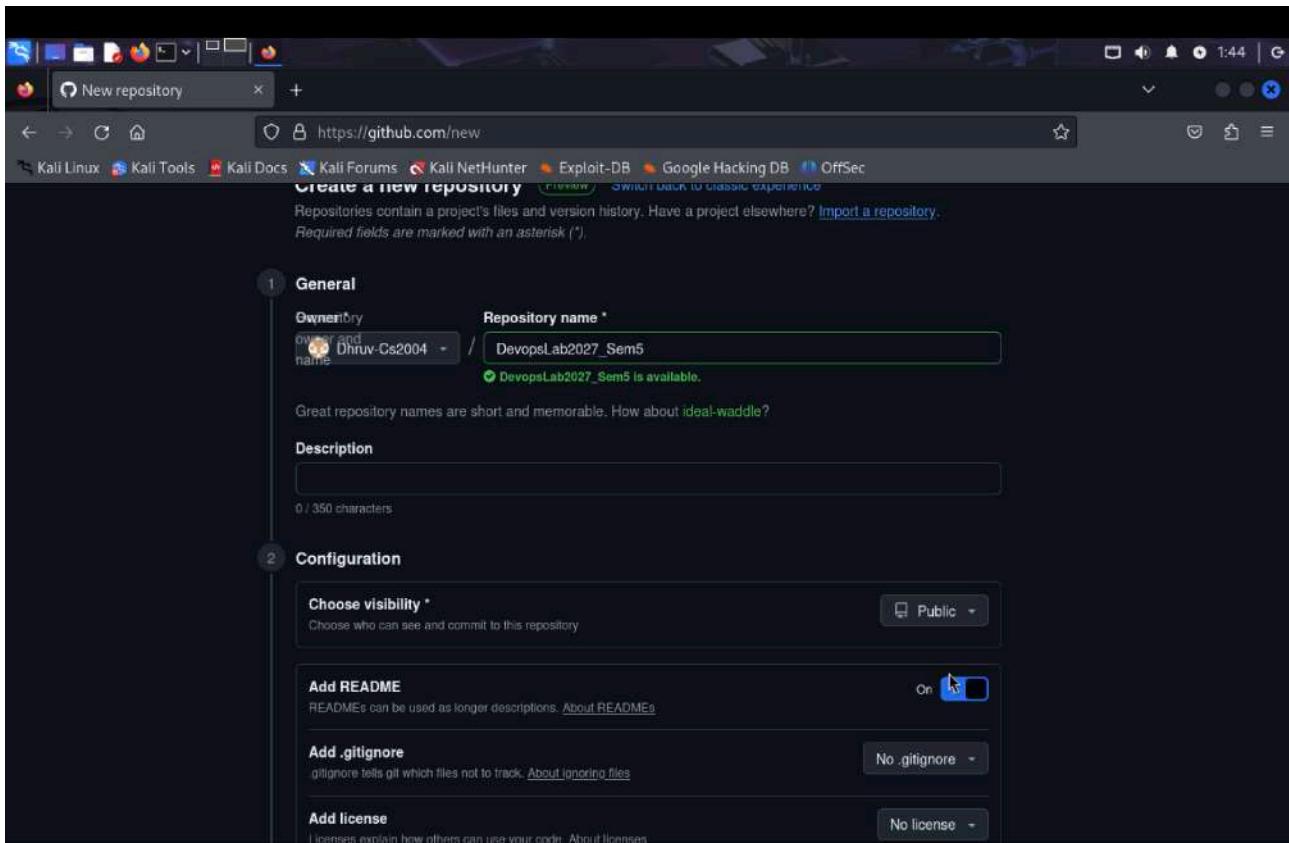


## Experiment 1 And 1.1

### Creating A Git Repository



### Initializing The Git Repository

```
dhruv@kali:~/Documents
$ cd Documents
$ ls
Test
$ git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/dhruv/Documents/.git/
$ git remote add origin https://github.com/Dhruv-Cs2004/DevopsLab2027_Sem5.git
$ git init
Reinitialized existing Git repository in /home/dhruv/Documents/.git/
$
```

## Experiment 1 And 1.1

### Adding The File To The Git Repository

The screenshot shows a terminal window titled "dhruv@kali: ~/Documents". The terminal output is as follows:

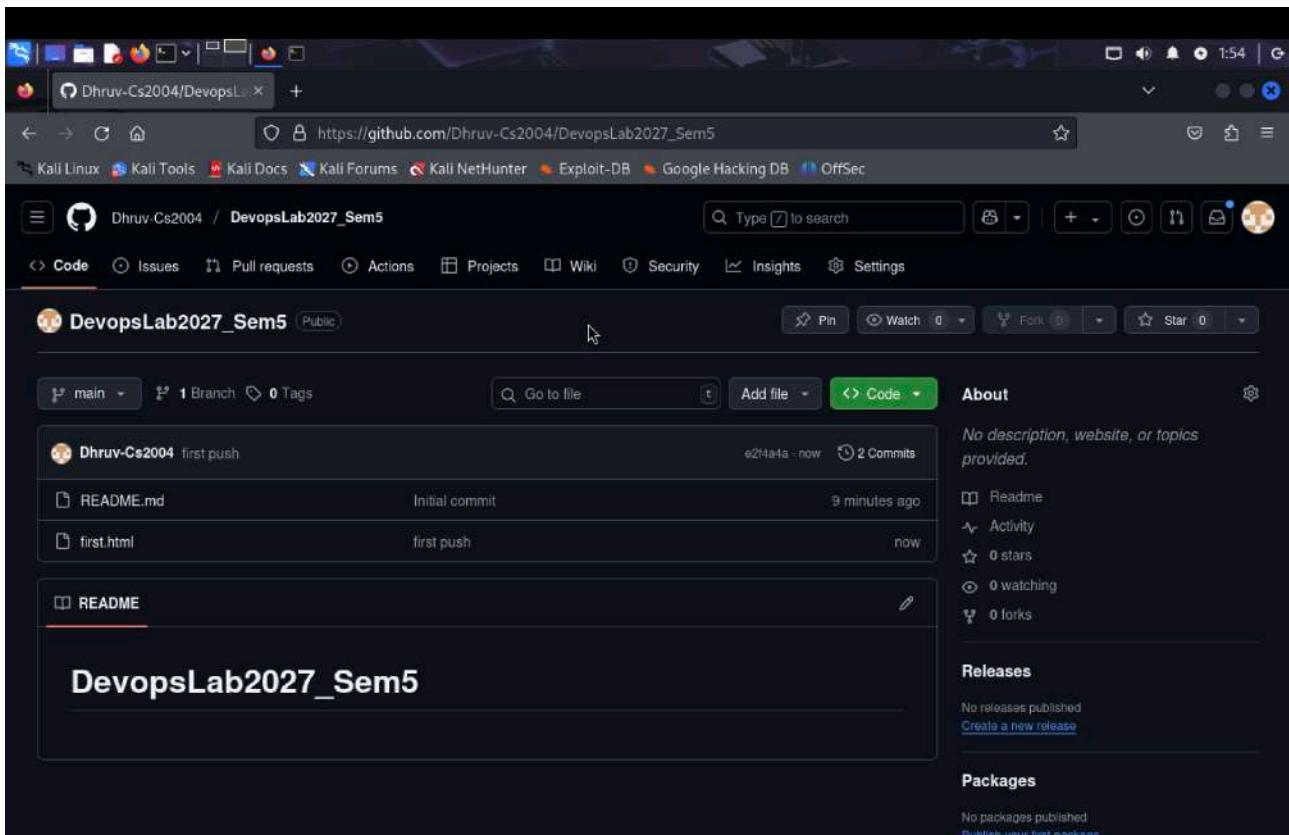
```
(dhruv@kali) [~/Documents]
$ git add Test
(dhruv@kali) [~/Documents]
$ git commit -m "first push"
[master (root-commit) 3ccc6e3] first push
Committer: Dhruv Sapra <dhruv@kali.Kali>
Your name and email address were configured automatically based
on your username and hostname. Please check that they 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

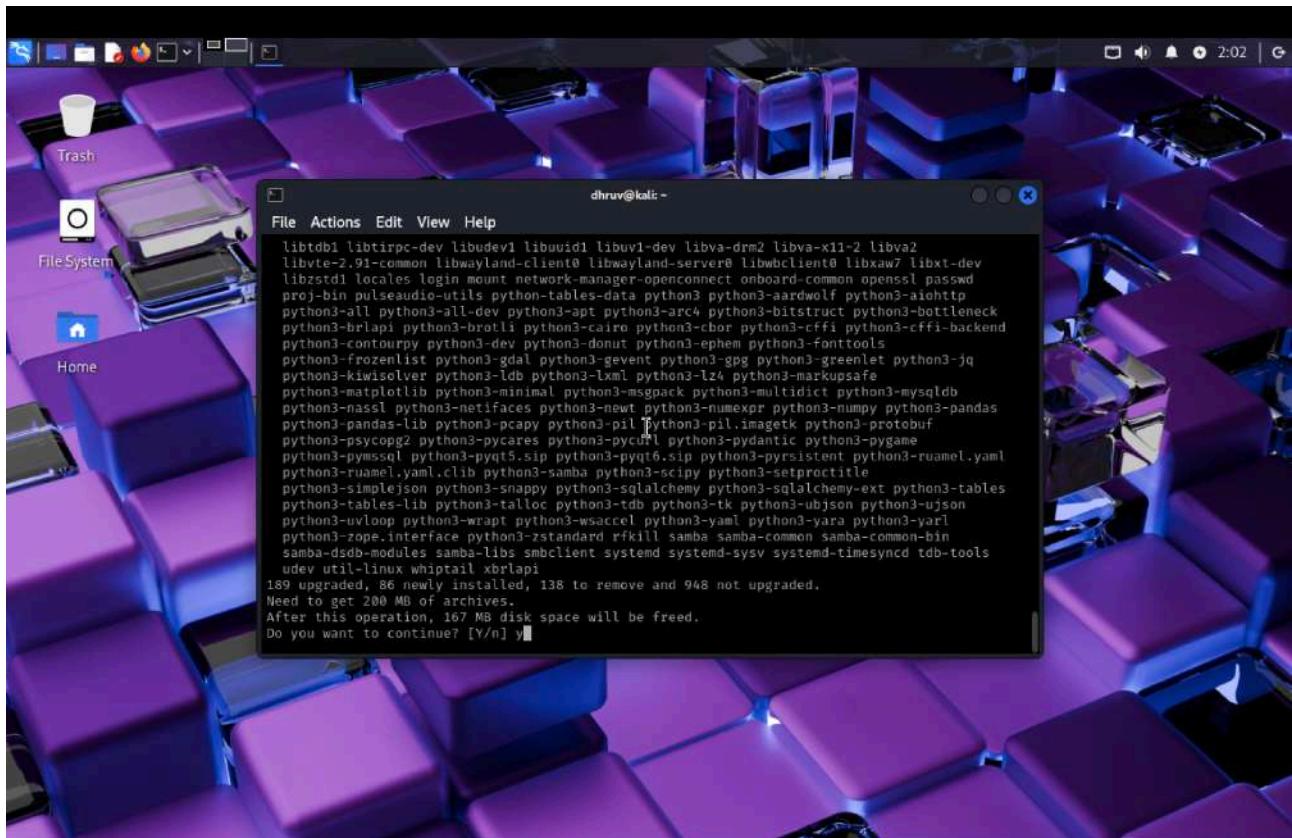
1 file changed, 95 insertions(+)
create mode 100644 Test/first.html
(dhruv@kali) [~/Documents]
$ git push origin main
```

### Final step of pushing your file to Git



## Experiment 1 And 1.1

### Creating new Branch



A screenshot of a ChatGPT interface. On the left, there is a sidebar with various tools and resources: New chat, Search chats, Library, Sora, GPTs, AI Code Humanizer, Report Enhancer, Chats, How to use pad, Stepwise documentation creation, GitHub file upload command, Fix Kali GPG error, Change terminal colors, Use Kali on Mac, and a profile for Dhruv Sapra. The main area shows a terminal window titled 'dhruv@kali ~/Documents/Test'. The terminal output is as follows:

```
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, 95 insertions(+)
create mode 100644 first.html
(dhruv@kali) [~/Documents/Test]
$ git push origin new
Username for 'https://github.com': Dhruv-Cs2004
Password for 'https://Dhruv-Cs2004@github.com': 
remote: Invalid username or token. Password authentication is not supported for Git operations
fatal: Authentication failed for 'https://github.com/Dhruv-Cs2004/DevOpsLab2027_Sem5.git/'

(dhruv@kali) [~/Documents/Test]
$ git push origin new
Username for 'https://github.com': ^C
(dhruv@kali) [~/Documents/Test]
$ github pat 11BKXTK70BQnYToXoMmPm_ivofvgd1PBECMqGZNyU8t37VLhm4wU0jqTagX000g0tC3UJSXQ5kTBZC
2Y3
```

Below the terminal, there is a step-by-step guide:

- Save the Token for Future Pushes

At the bottom, it says 'Ask anything' and 'ChatGPT can make mistakes. Check important info. See [Cookie Preferences](#)'.

## Experiment 1 And 1.1

### Generating token

The screenshot shows the GitHub 'New fine-grained personal access token' creation interface. The token name is set to 'Test'. The description is 'First Test'. The resource owner is 'Dhruv-Cs2004'. The expiration date is set to '90 days (Nov 10, 2025)'. The repository access section is collapsed.

New fine-grained personal access token

Create a fine-grained, repository-scoped token suitable for personal API use and for using Git over HTTPS.

**Token name \***

Test

**Description**

First Test

**Resource owner**

Dhruv-Cs2004

The token will only be able to make changes to resources owned by the selected resource owner. Tokens can always read all public repositories.

**Expiration**

90 days (Nov 10, 2025)

The token will expire on the selected date.

**Repository access**

The screenshot shows the 'Permissions required for fine-grained personal access token' configuration interface. The 'Only select repositories' option is selected, and one repository, 'Dhruv-Cs2004/DevopsLab2027\_Sem5', is selected. The permissions section shows 'Repositories' (2) and 'Account' (0) with an '+ Add permissions' button. Under 'Contents', 'Access: Read and write' is selected. Under 'Metadata', 'Access: Read-only' is selected.

Public repositories

All repositories

Only select repositories

Select repositories 1

Selected 1 repository

Dhruv-Cs2004/DevopsLab2027\_Sem5

**Permissions**

Choose the minimal permissions necessary for your needs. [Learn more about permissions.](#)

**Repositories** 2   **Account** 0   + Add permissions

**Contents**

Repository contents, commits, branches, downloads, releases, and merges. [Learn more.](#)

Access: Read and write

**Metadata** (Required)

Search repositories, list collaborators, and access repository metadata. [Learn more.](#)

Access: Read-only

## Experiment 1 And 1.1

The screenshot shows the GitHub 'Permissions' configuration page. At the top, it says 'Choose the minimal permissions necessary for your needs.' Below this, there are two main sections: 'Repositories' (2) and 'Account' (0). A green button '+ Add permissions' is located at the top right of the permission grid. The 'Repositories' section contains a 'Contents' item with 'Access: Read and write'. The 'Account' section contains a 'Metadata' item with 'Access: Read-only'. At the bottom left is a green 'Generate token' button, and at the bottom right is a 'Cancel' button. A note below the buttons states: 'This token will be ready for use immediately.'

This screenshot shows the same GitHub 'Permissions' page after a token has been generated. A modal window titled 'New personal access token' is displayed in the center. It shows the token name 'Test' and its expiration date 'Monday, November 10, 2025'. It also indicates that the token grants '2 permissions for 1 repository'. The permissions listed are 'Read and write' for 'Contents' and 'Read-only' for 'Metadata'. The 'Generate token' button is now grayed out and labeled 'Generated'.

## Experiment 1 And 1.1

### Pushing in to New Branch

```
(dhruv@kali)-[~/Documents/Test]
$ git push 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ZC2Y3
fatal: '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' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.

(dhruv@kali)-[~/Documents/Test]
$ git checkout -b new
fatal: a branch named 'new' already exists

(dhruv@kali)-[~/Documents/Test]
$ git push new 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
error: src refspec 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 does not match any
error: failed to push some refs to 'new'

(dhruv@kali)-[~/Documents/Test]
$ git push origin new
Username for 'https://github.com': Dhruv-Cs2004
Password for 'https://Dhruv-Cs2004@github.com':
```

Dhruv-Cs2004 / DevopsLab2027\_Sem5

**new** had recent pushes 42 seconds ago

Compare & pull request

2 Branches · 0 Tags

Go to file Add file Code

This branch is 1 commit ahead of, 2 commits behind `main`.

Contribute

**Dhruv Sapra** and **Dhruv Sapra** · Second

first.html · Second · 13 minutes ago

394e25f · 13 minutes ago · 1 Commit

**README**

Add a README

**About**

No description, website, or topics provided.

Activity · 0 stars · 0 watching · 0 forks

**Releases**

No releases published · Create a new release

**Packages**

No packages published · Publish your first package

## Experiment 1 And 1.1

### Merging in to Main branch

```
dhruv@kali:~/Documents/Test
File Actions Edit View Help
Writing objects: 100% (3/3), 1.44 KiB | 1.44 MiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'new' on GitHub by visiting:
remote:   https://github.com/Dhruv-Cs2004/DevopsLab2027_Sem5/pull/new/new
remote:
To https://github.com/Dhruv-Cs2004/DevopsLab2027_Sem5.git
 * [new branch]      new -> new

(dhruv@kali)-[~/Documents/Test]
$ git merge main
merge: main - not something we can merge

(dhruv@kali)-[~/Documents/Test]
$ git checkout -b main
Switched to a new branch 'main'

(dhruv@kali)-[~/Documents/Test]
$ git merge main
Already up to date.

(dhruv@kali)-[~/Documents/Test]
$
```

### Git checking The Logs

```
dhruv@kali:~/Documents/Test
File Actions Edit View Help
To https://github.com/Dhruv-Cs2004/DevopsLab2027_Sem5.git
 * [new branch]      new -> new

(dhruv@kali)-[~/Documents/Test]
$ git merge main
merge: main - not something we can merge

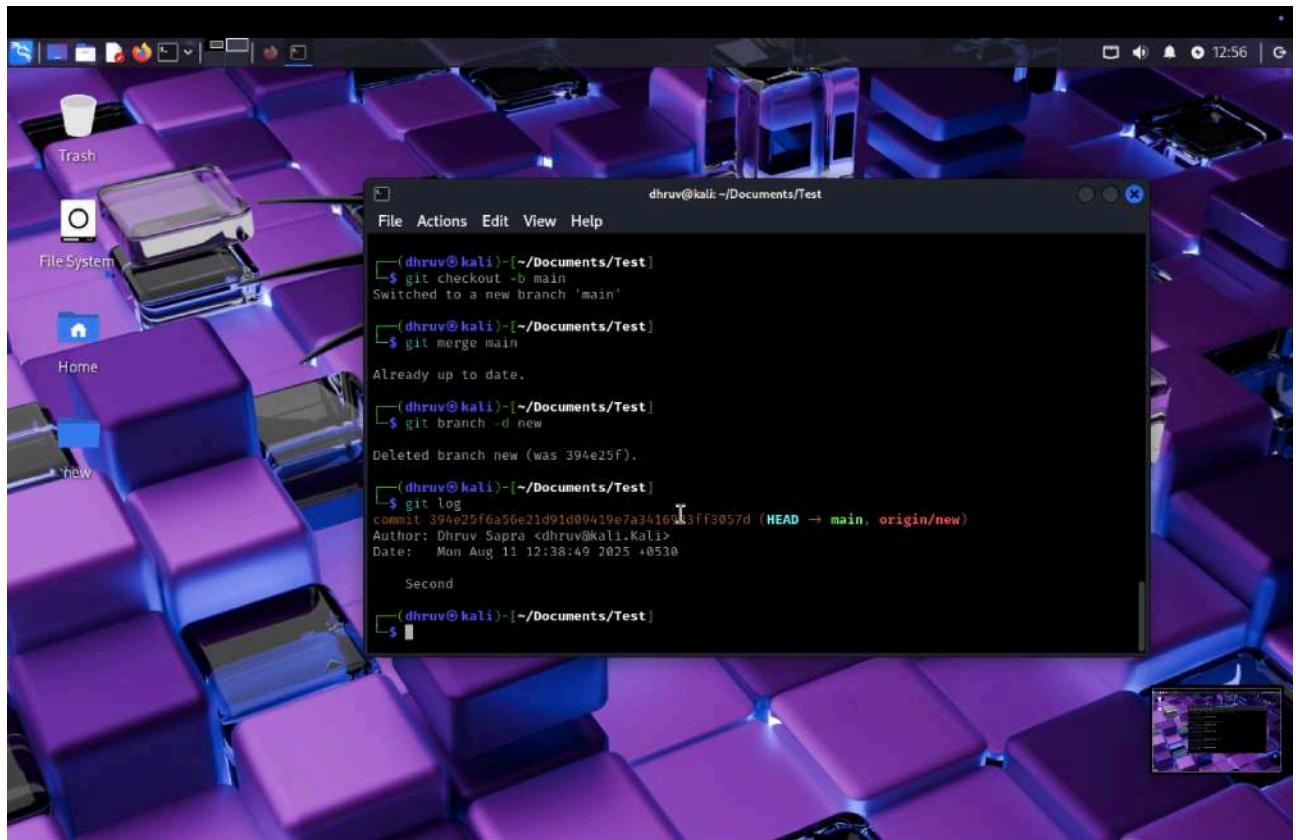
(dhruv@kali)-[~/Documents/Test]
$ git checkout -b main
Switched to a new branch 'main'

(dhruv@kali)-[~/Documents/Test]
$ git merge main
Already up to date.

(dhruv@kali)-[~/Documents/Test]
$ git branch -d new
Deleted branch new (was 394e25f).

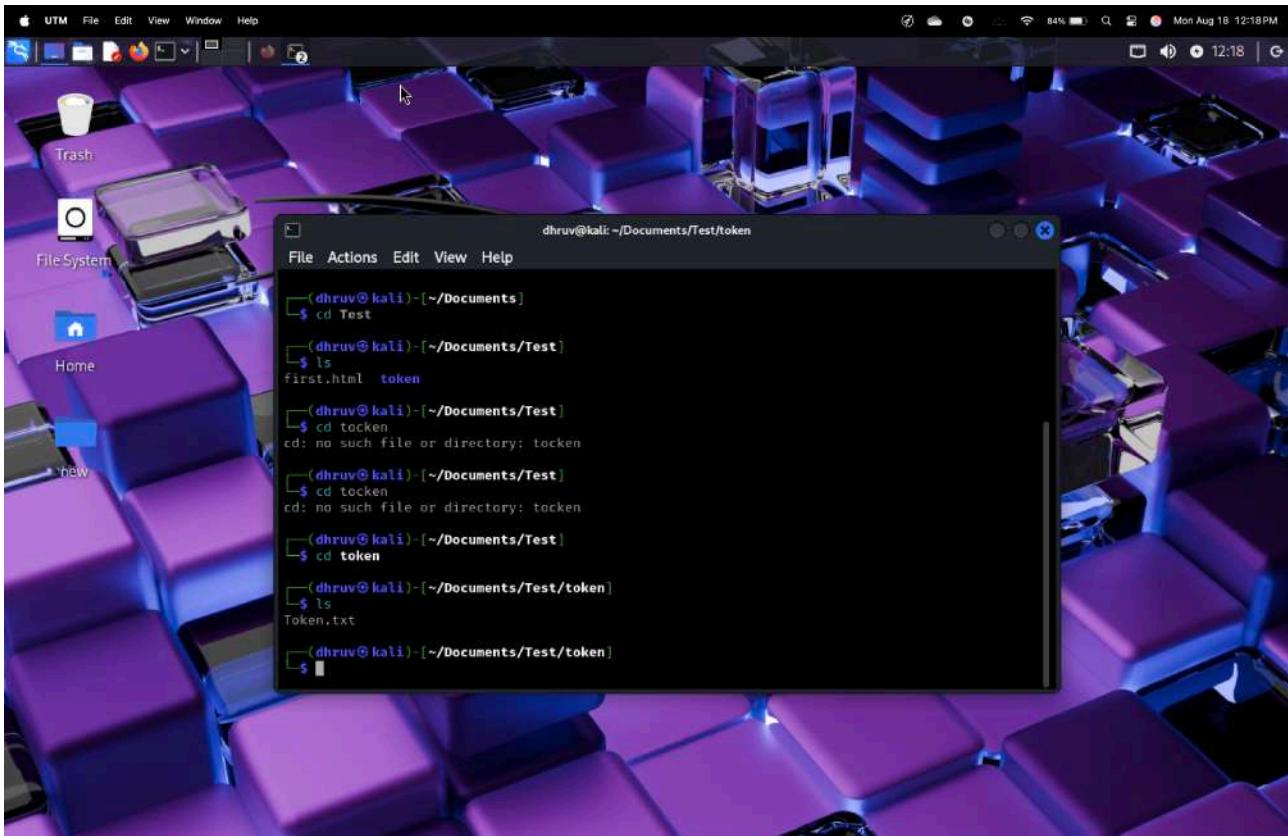
(dhruv@kali)-[~/Documents/Test]
$ git log
```

## Experiment 1 And 1.1



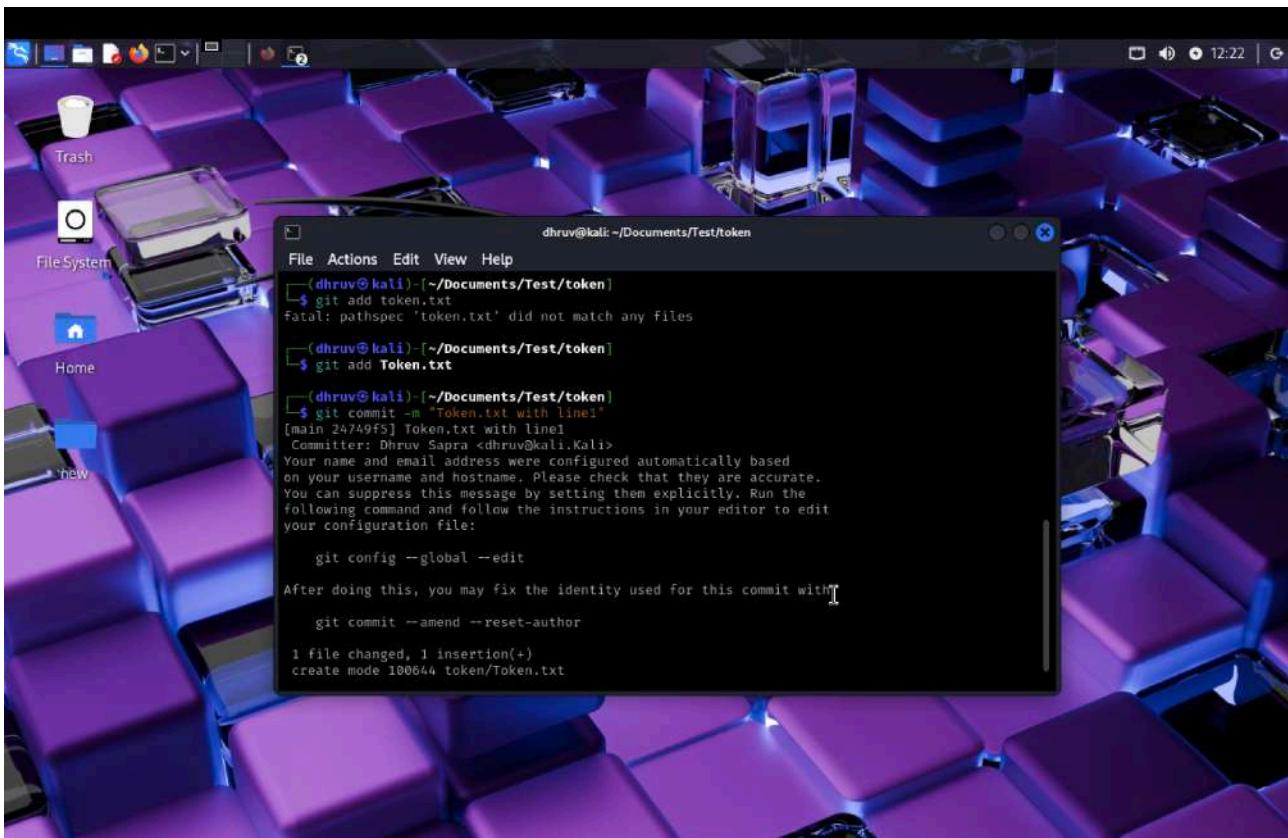
## Experiment 1 And 1.1

### Creating A file And Make changes



A screenshot of a Linux desktop environment with a purple and blue hexagonal keyboard skin. A terminal window is open, showing the following command-line session:

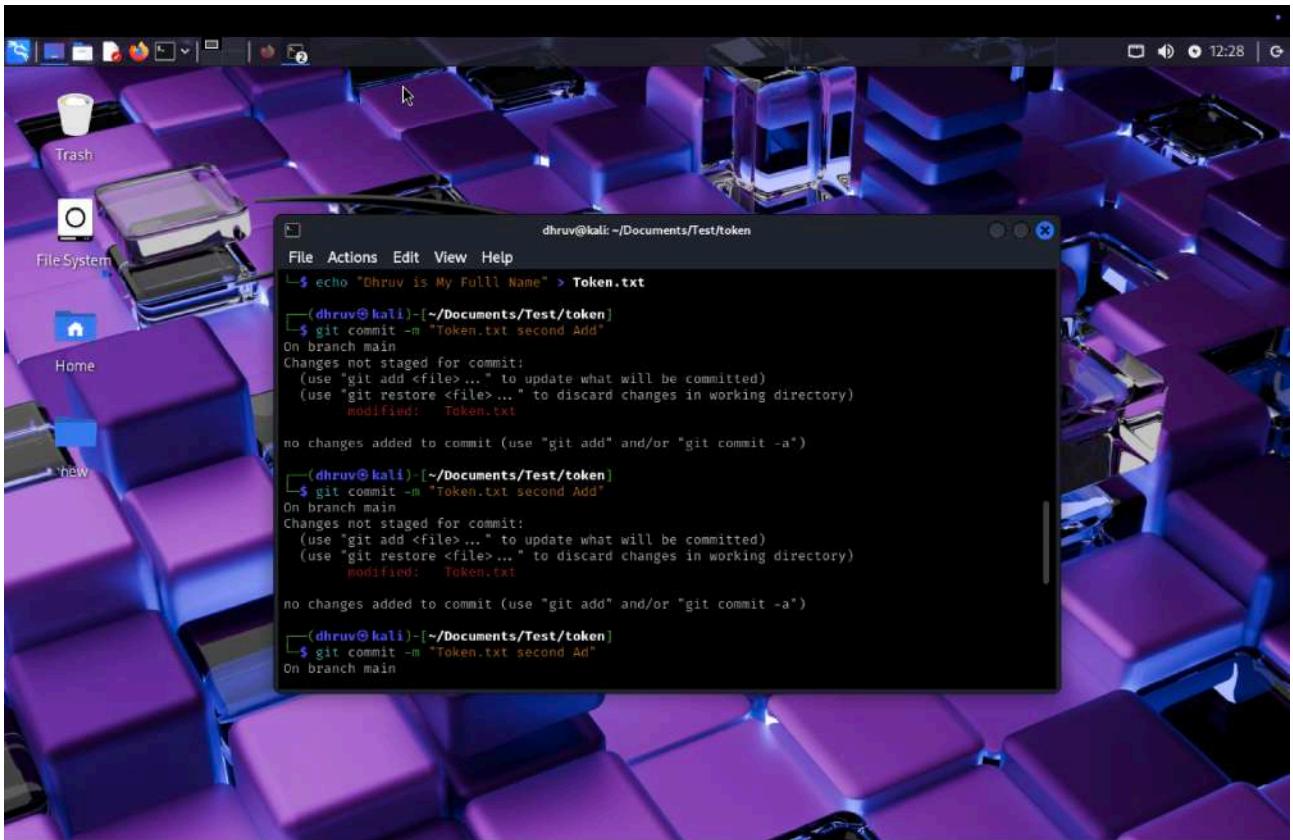
```
dhruv@kali: ~/Documents/Test/token
File Actions Edit View Help
(dhruv@kali) [~/Documents]
$ cd Test
(dhruv@kali) [~/Documents/Test]
$ ls
first.html token
(dhruv@kali) [~/Documents/Test]
$ cd token
cd: no such file or directory: token
(dhruv@kali) [~/Documents/Test]
$ cd token
cd: no such file or directory: token
(dhruv@kali) [~/Documents/Test]
$ cd token
(dhruv@kali) [~/Documents/Test/token]
$ ls
Token.txt
(dhruv@kali) [~/Documents/Test/token]
```



A screenshot of a Linux desktop environment with a purple and blue hexagonal keyboard skin. A terminal window is open, showing the following command-line session for committing changes:

```
dhruv@kali: ~/Documents/Test/token
File Actions Edit View Help
(dhruv@kali) [~/Documents/Test/token]
$ git add token.txt
fatal: pathspec 'token.txt' did not match any files
(dhruv@kali) [~/Documents/Test/token]
$ git add Token.txt
(dhruv@kali) [~/Documents/Test/token]
$ git commit -m "Token.txt with line1"
[main 24749ff] Token.txt with line1
 1 file changed, 1 insertion(+)
 create mode 100644 token/Token.txt
Committer: Dhruv Sapra <dhruv@kali.Kali>
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
```

## Experiment 1 And 1.1



A screenshot of a Linux desktop environment with a purple and blue hexagonal keyboard skin. A terminal window is open in the center, showing the following command history:

```
dhruv@kali: ~/Documents/Test/token
$ echo "Dhruv is My Full Name" > Token.txt
dhruv@kali:~/Documents/Test/token]
$ git commit -m "Token.txt second Add"
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:   Token.txt

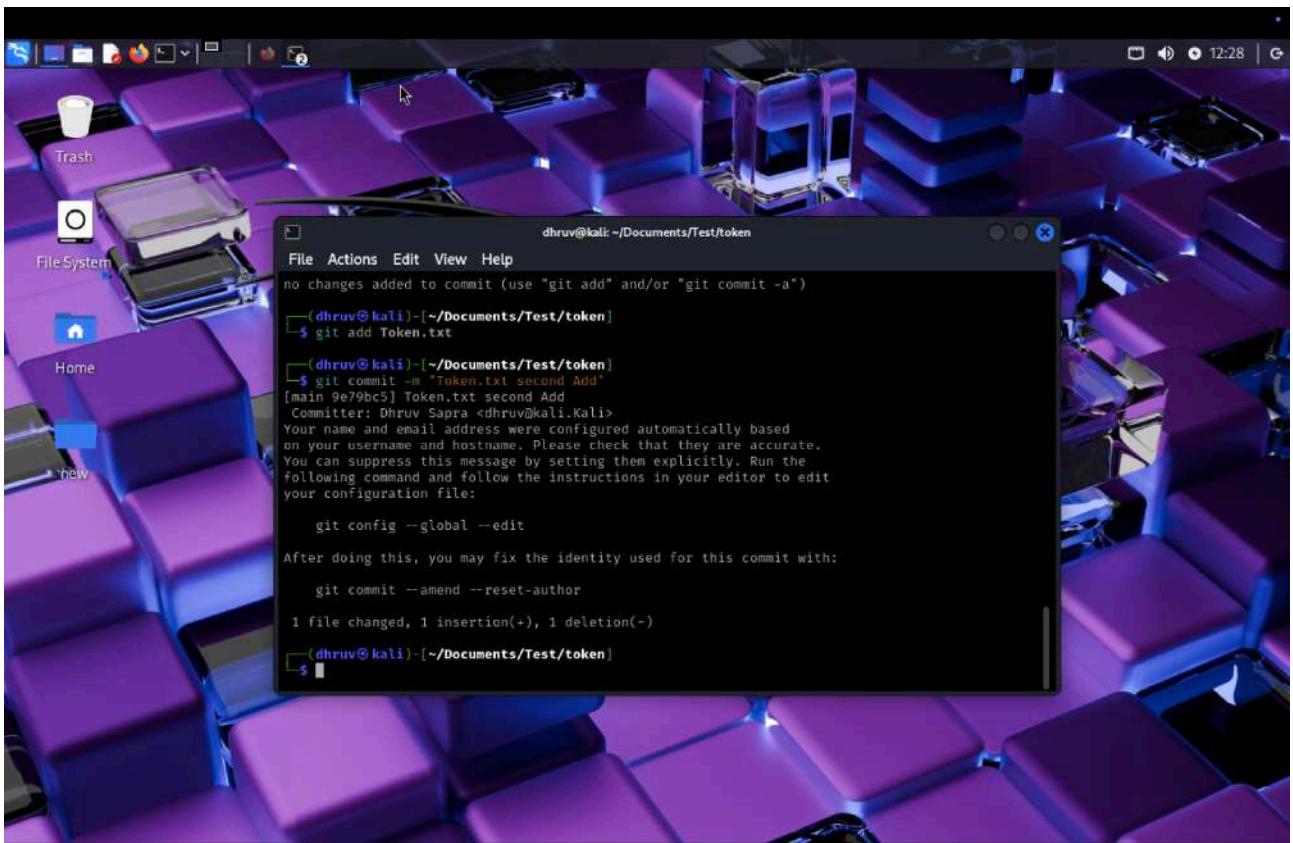
no changes added to commit (use "git add" and/or "git commit -a")

dhruv@kali:~/Documents/Test/token]
$ git commit -m "Token.txt second Add"
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:   Token.txt

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

dhruv@kali:~/Documents/Test/token]
$ git commit -m "Token.txt second Ad"
On branch main
```

### Adding Token .txt File



A screenshot of a Linux desktop environment with a purple and blue hexagonal keyboard skin. A terminal window is open in the center, showing the following command history:

```
dhruv@kali: ~/Documents/Test/token
$ git add Token.txt
dhruv@kali:~/Documents/Test/token]
$ git commit -m "Token.txt second Add"
[main 9e79bc5] Token.txt second Add
Committer: Dhruv Supra <dhruv@kali.Kali>
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:

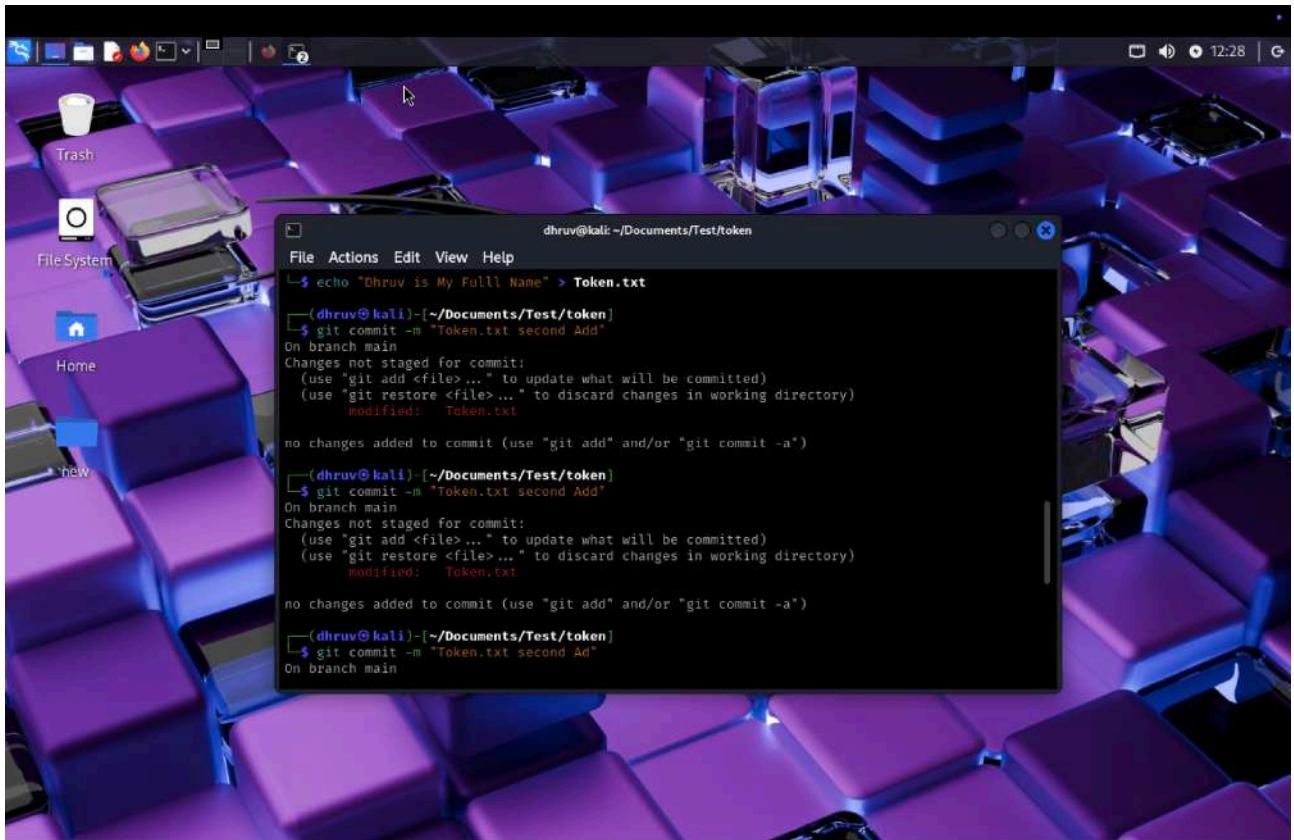
git commit --amend --reset-author

1 file changed, 1 insertion(+), 1 deletion(-)

dhruv@kali:~/Documents/Test/token]
$
```

## Experiment 1 And 1.1

### Echo command for Updating fileAdding Token .txt File



```
dhruv@kali: ~/Documents/Test/token
File Actions Edit View Help
$ echo "Dhruv is My Full Name" > Token.txt
[~/Documents/Test/token]
$ git commit -m "Token.txt second Add"
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: Token.txt

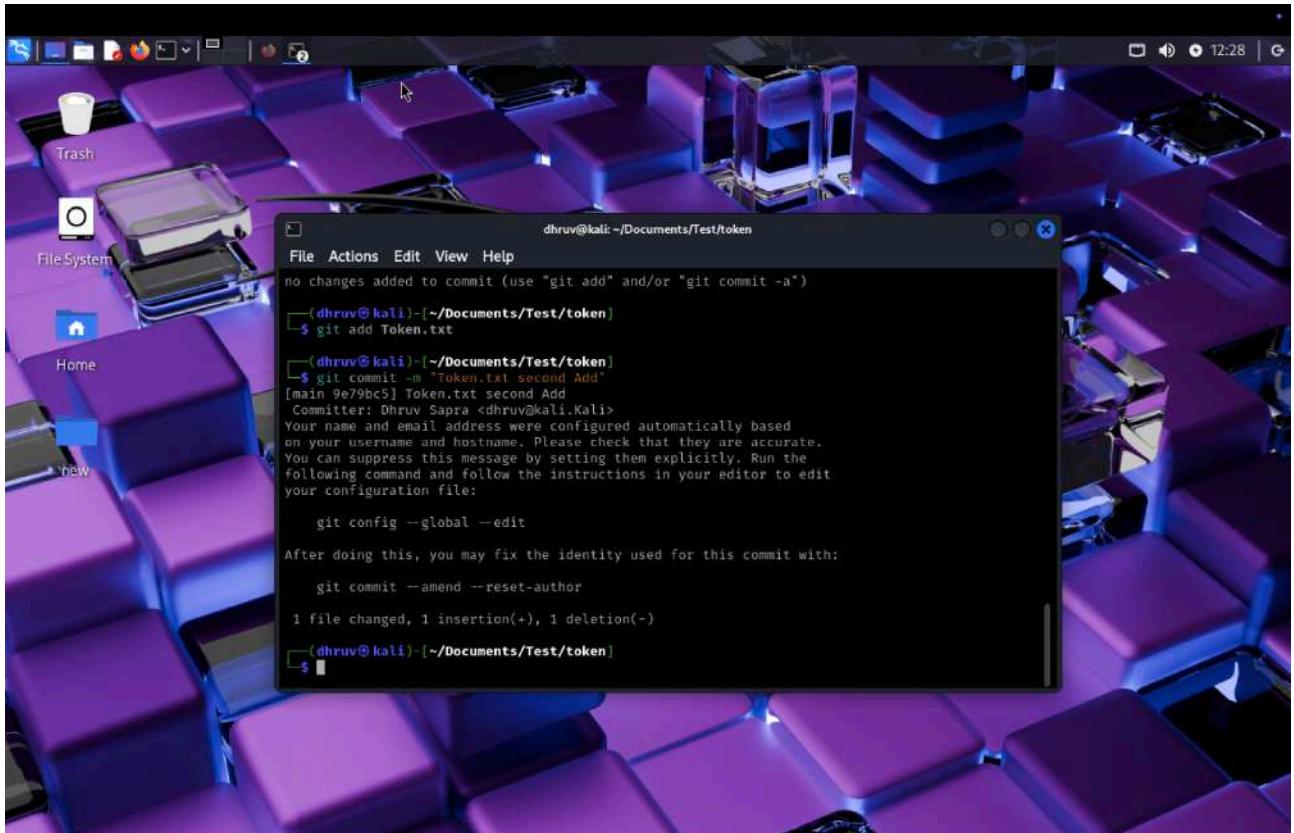
no changes added to commit (use "git add" and/or "git commit -a")

[~/Documents/Test/token]
$ git commit -m "Token.txt second Add"
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: Token.txt

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

[~/Documents/Test/token]
$ git commit -m "Token.txt second Add"
On branch main
```

### Adding file



```
dhruv@kali: ~/Documents/Test/token
File Actions Edit View Help
no changes added to commit (use "git add" and/or "git commit -a")

[~/Documents/Test/token]
$ git add Token.txt
[~/Documents/Test/token]
$ git commit -m "Token.txt second Add"
[main 9e79bc5] Token.txt second Add
Committer: Dhruv Sapra <dhruv@kali.Kali>
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(+), 1 deletion(-)

[~/Documents/Test/token]
$
```

## Experiment 1 And 1.1

### Again command for Updating file Adding Token .txt File

The terminal window shows the following sequence of commands:

```
dhruv@kali: ~/Documents/Test/token
File Actions Edit View Help

git commit --amend --reset-author
1 file changed, 1 insertion(+), 1 deletion(-)

(dhruv@kali:~/Documents/Test/token)
$ echo "Dhruv is My Full Name Now I am adding some thing new" > Token.txt
(dhruv@kali:~/Documents/Test/token)
$ git add Token.txt
(dhruv@kali:~/Documents/Test/token)
$ git commit -m "Token.txt third Add"
[main f65ad32] Token.txt third Add
Committer: Dhruv Sapra <dhruv@Kali.Kali>
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:
```

The terminal window shows the following sequence of commands:

```
dhruv@kali: ~/Documents/Test/token
File Actions Edit View Help

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(+), 1 deletion(-)

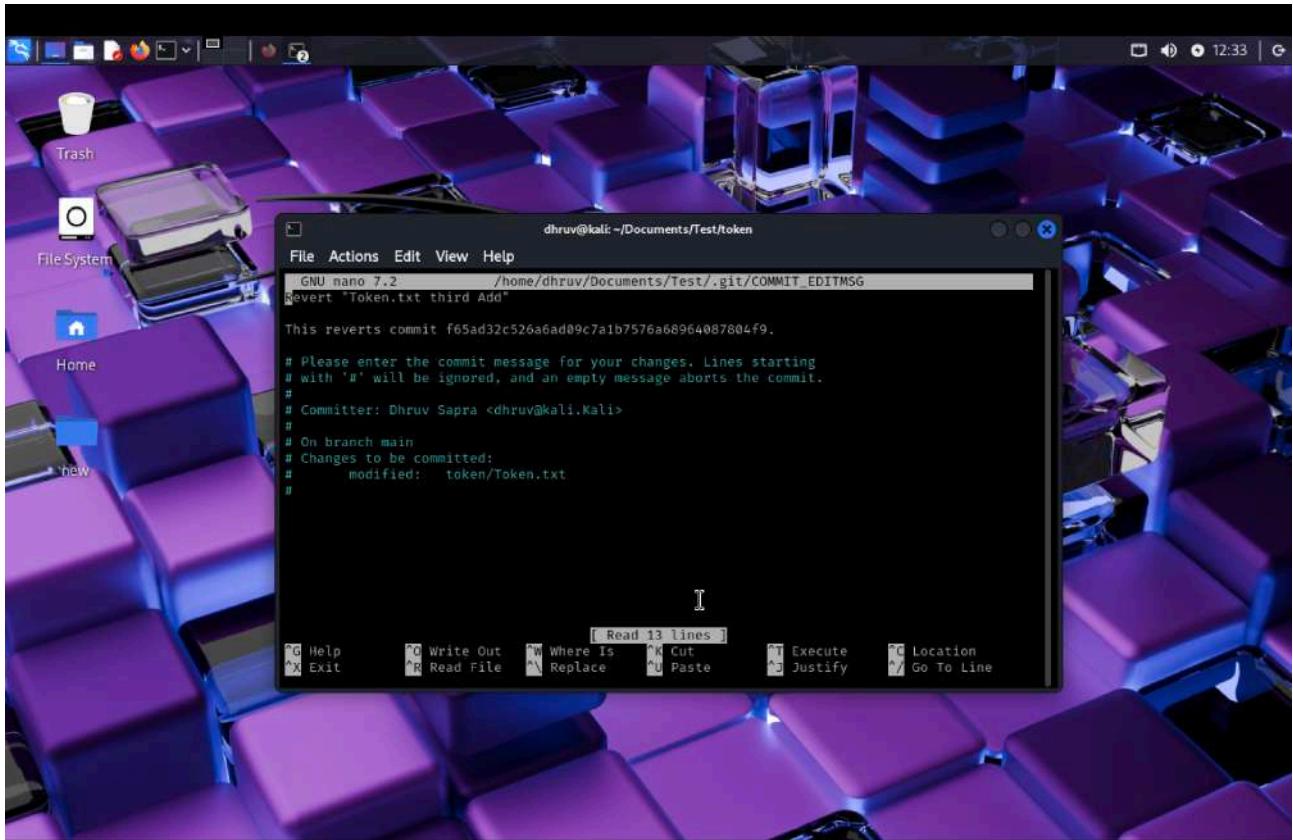
(dhruv@kali:~/Documents/Test/token)
$ git log--online
git: 'log--online' is not a git command. See 'git --help'.

(dhruv@kali:~/Documents/Test/token)
$ git log--oneline
git: 'log--oneline' is not a git command. See 'git --help'.

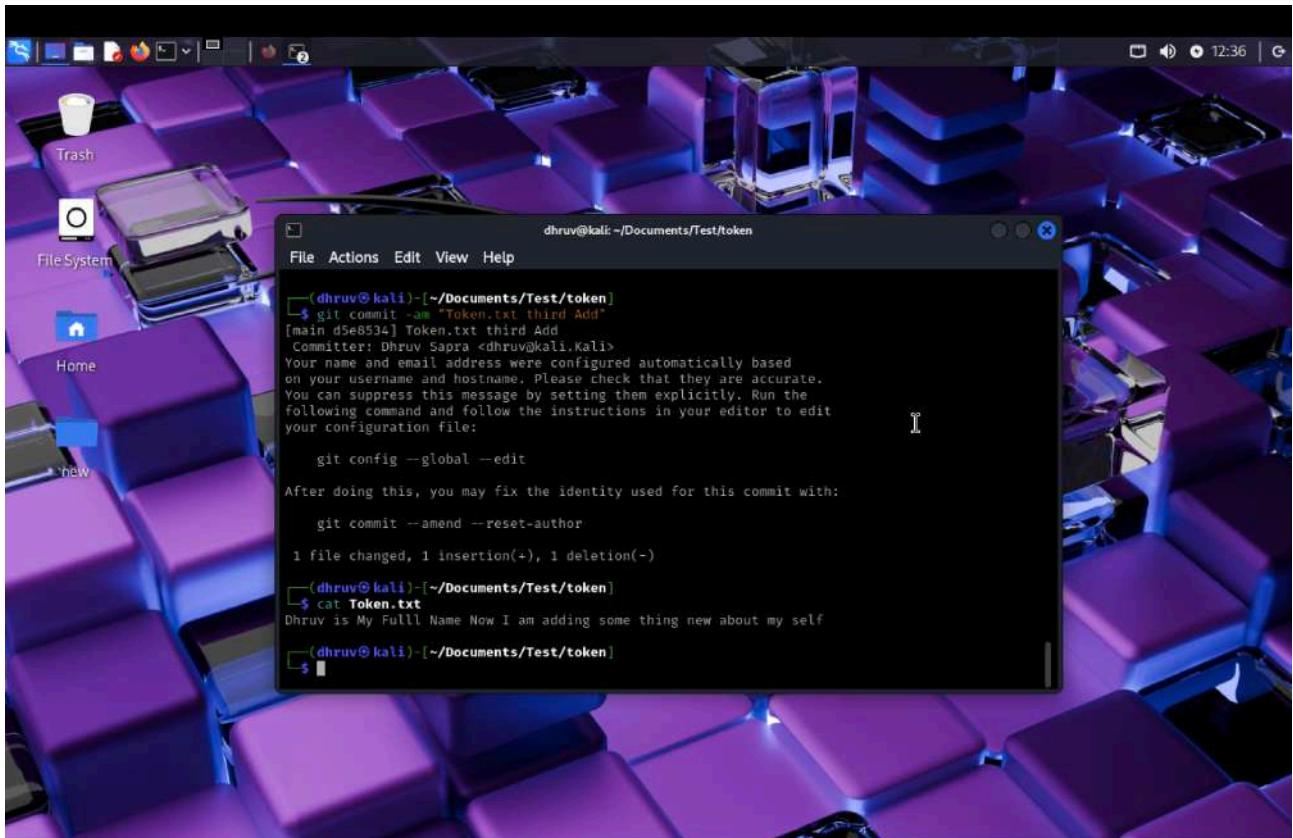
(dhruv@kali:~/Documents/Test/token)
$ git log --oneline
f65ad32 (HEAD -> main) Token.txt third Add
9e79bc5 Token.txt second Add
24769f5 Token.txt with line1
394e25f (origin/new) Second

(dhruv@kali:~/Documents/Test/token)
$
```

## Experiment 1 And 1.1

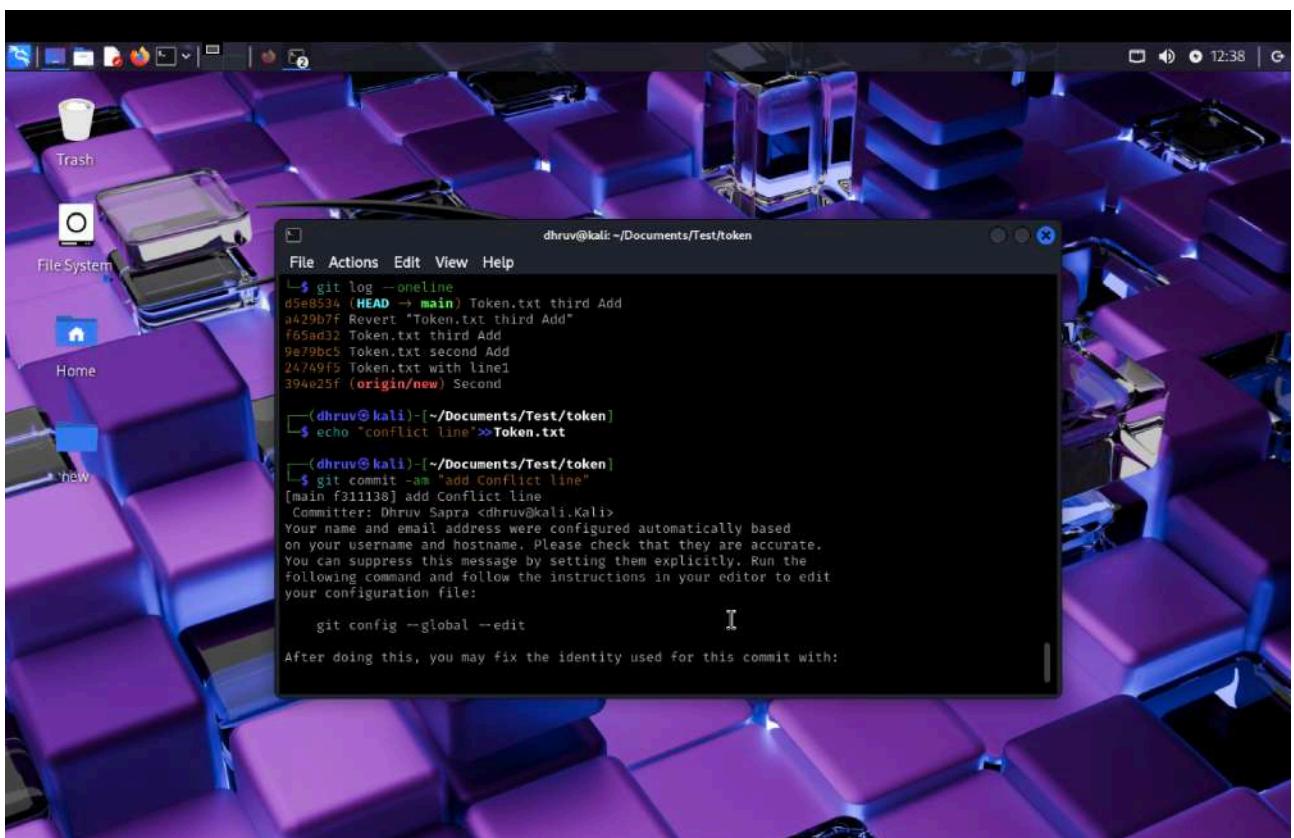
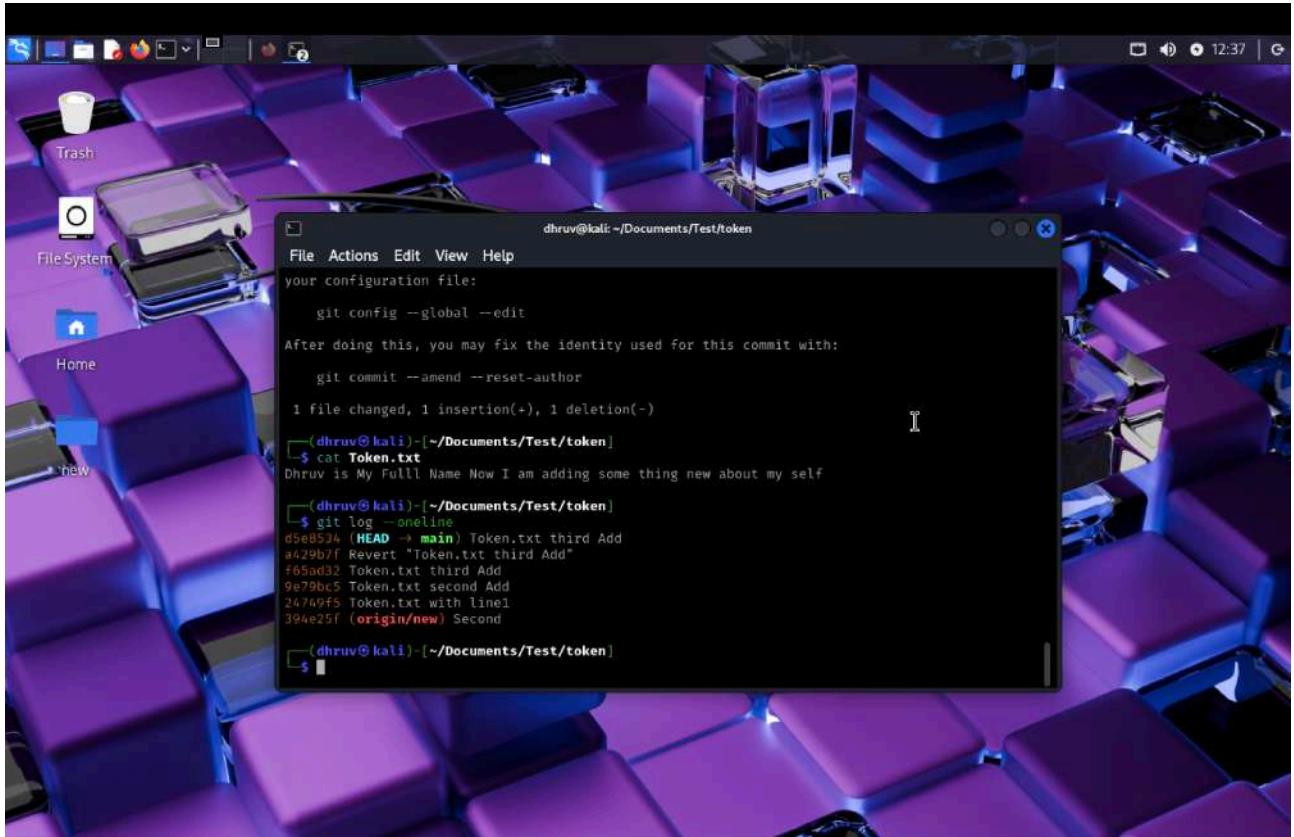


### Relating command for Changing the file up to three times

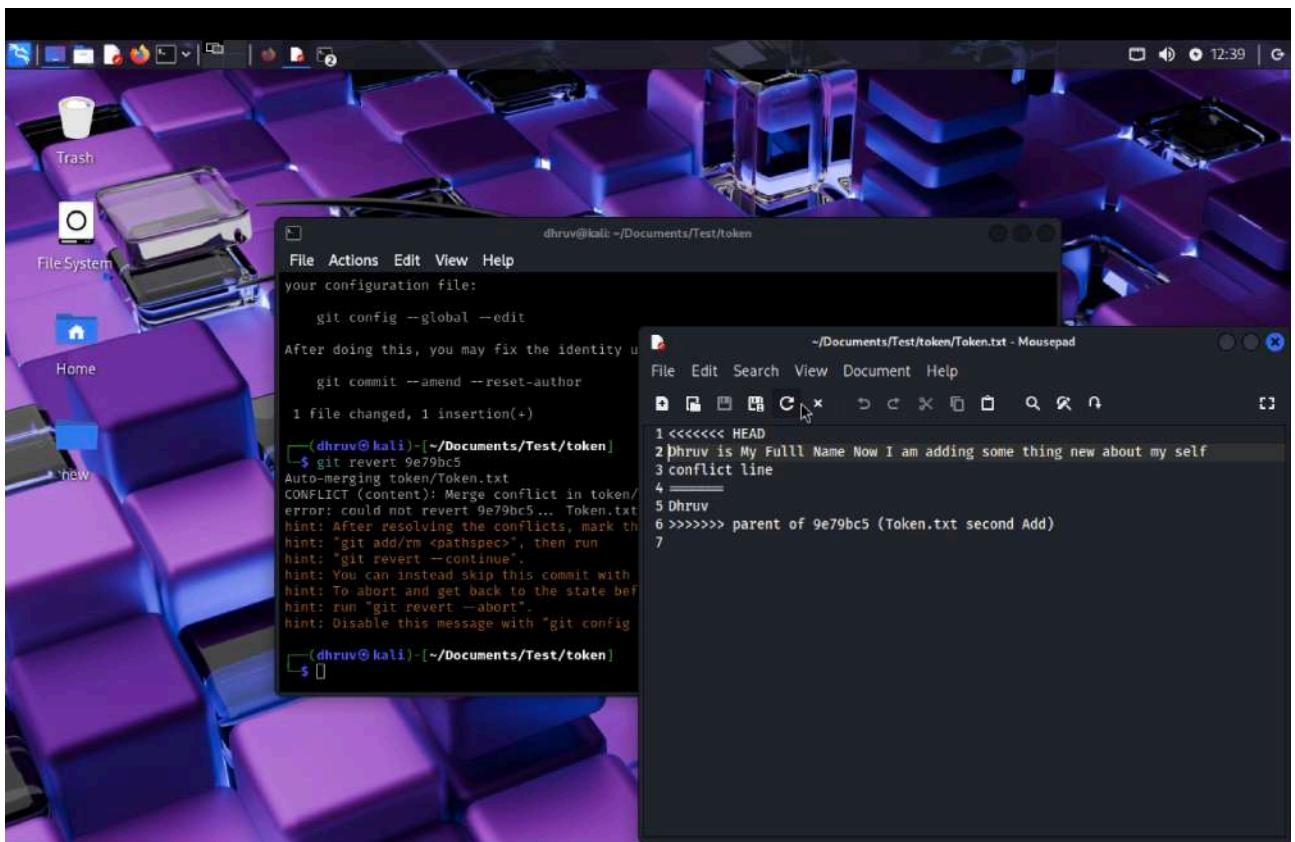
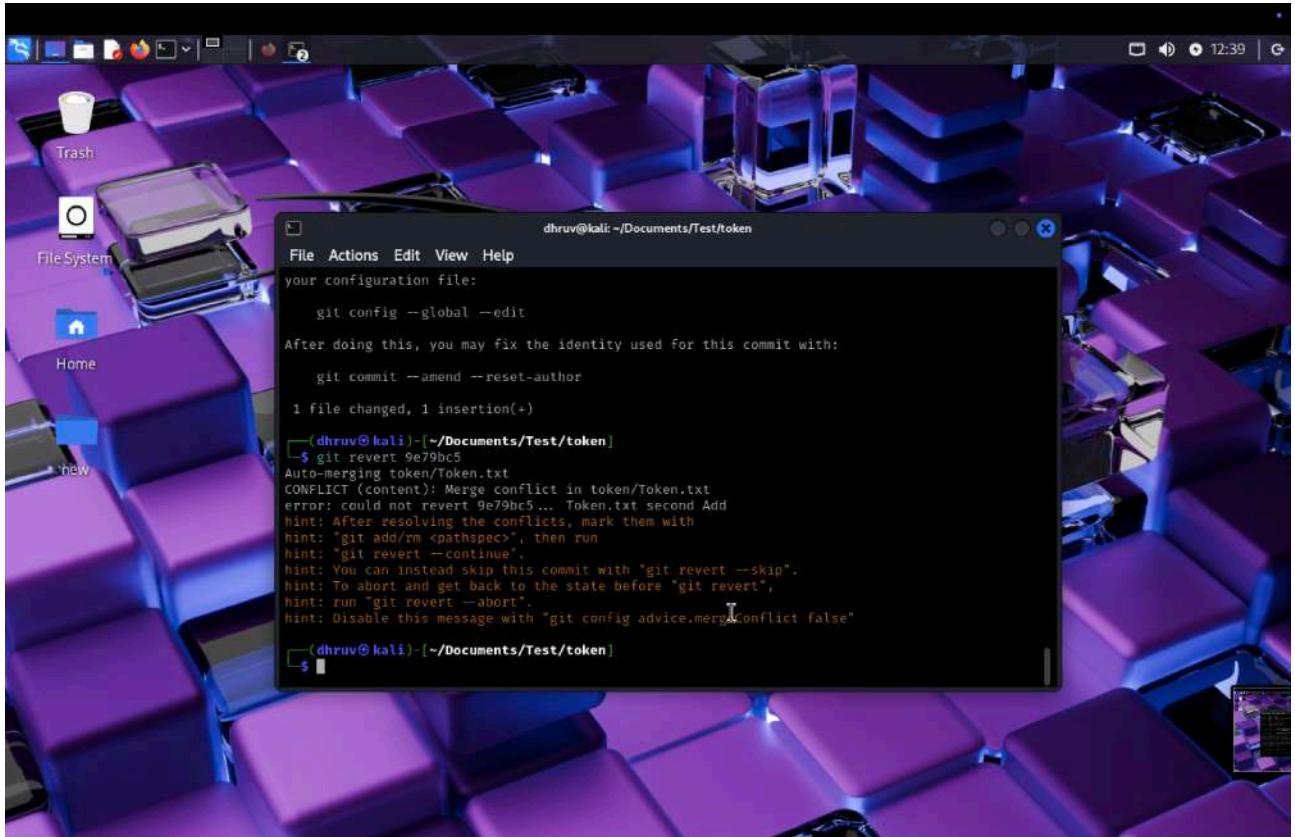


## Experiment 1 And 1.1

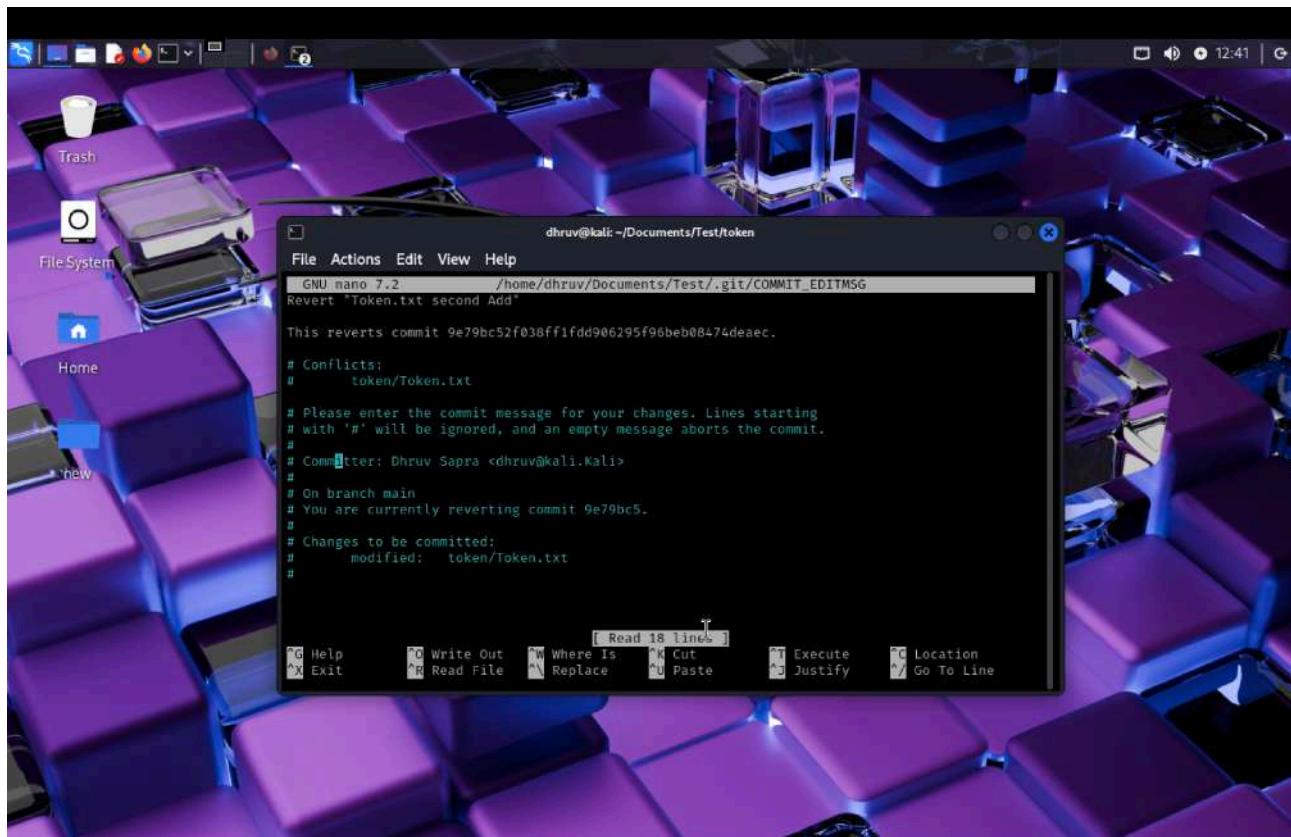
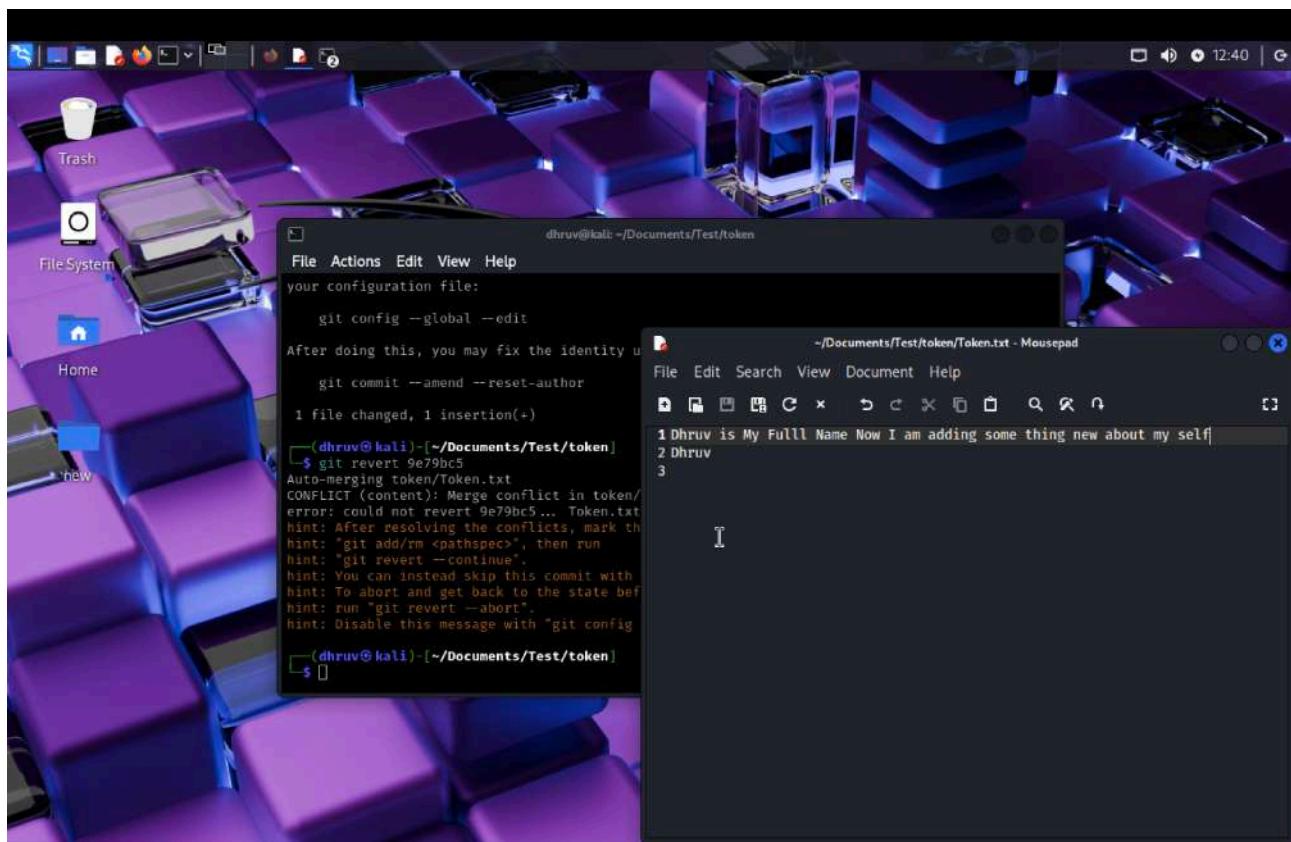
### Git log for checking the logs



## Experiment 1 And 1.1



## Experiment 1 And 1.1



## Experiment 1 And 1.1

