

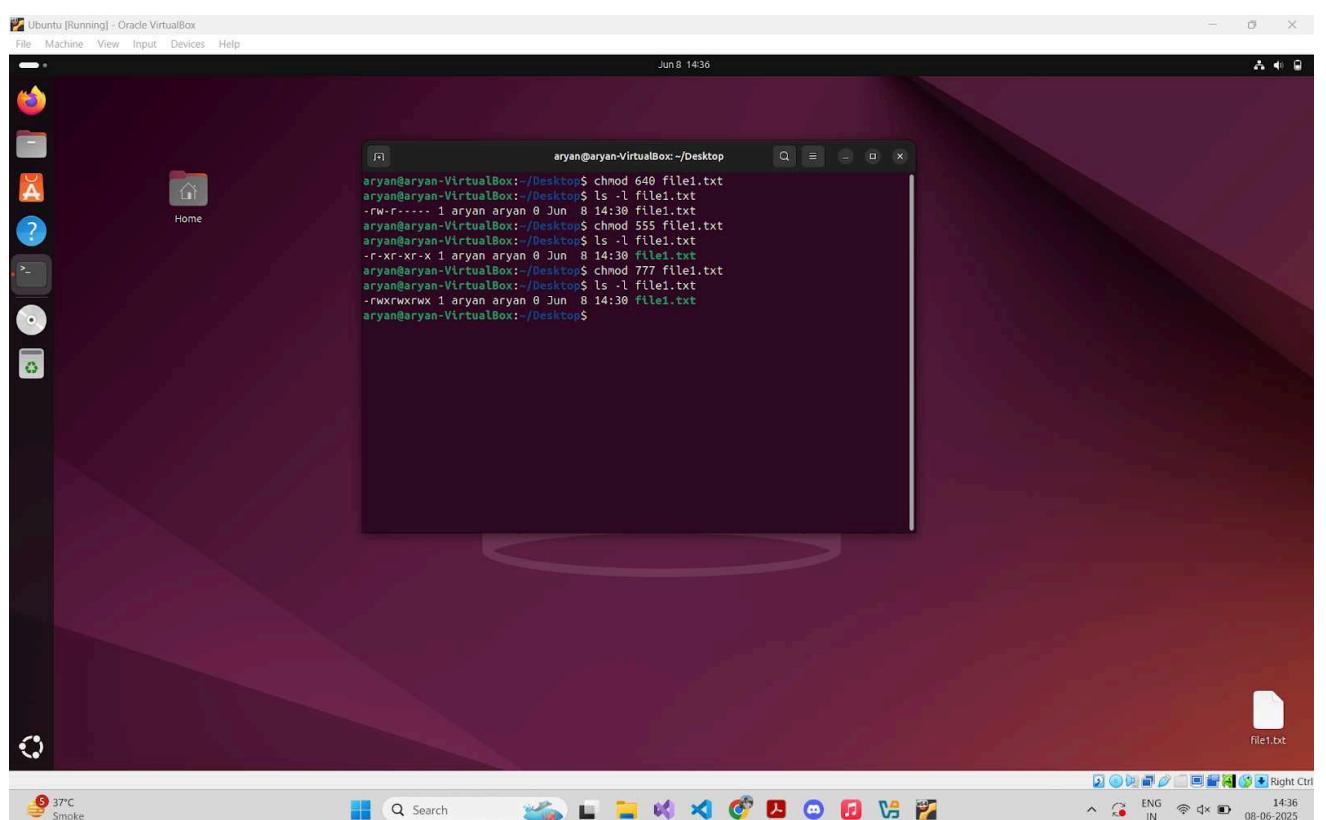
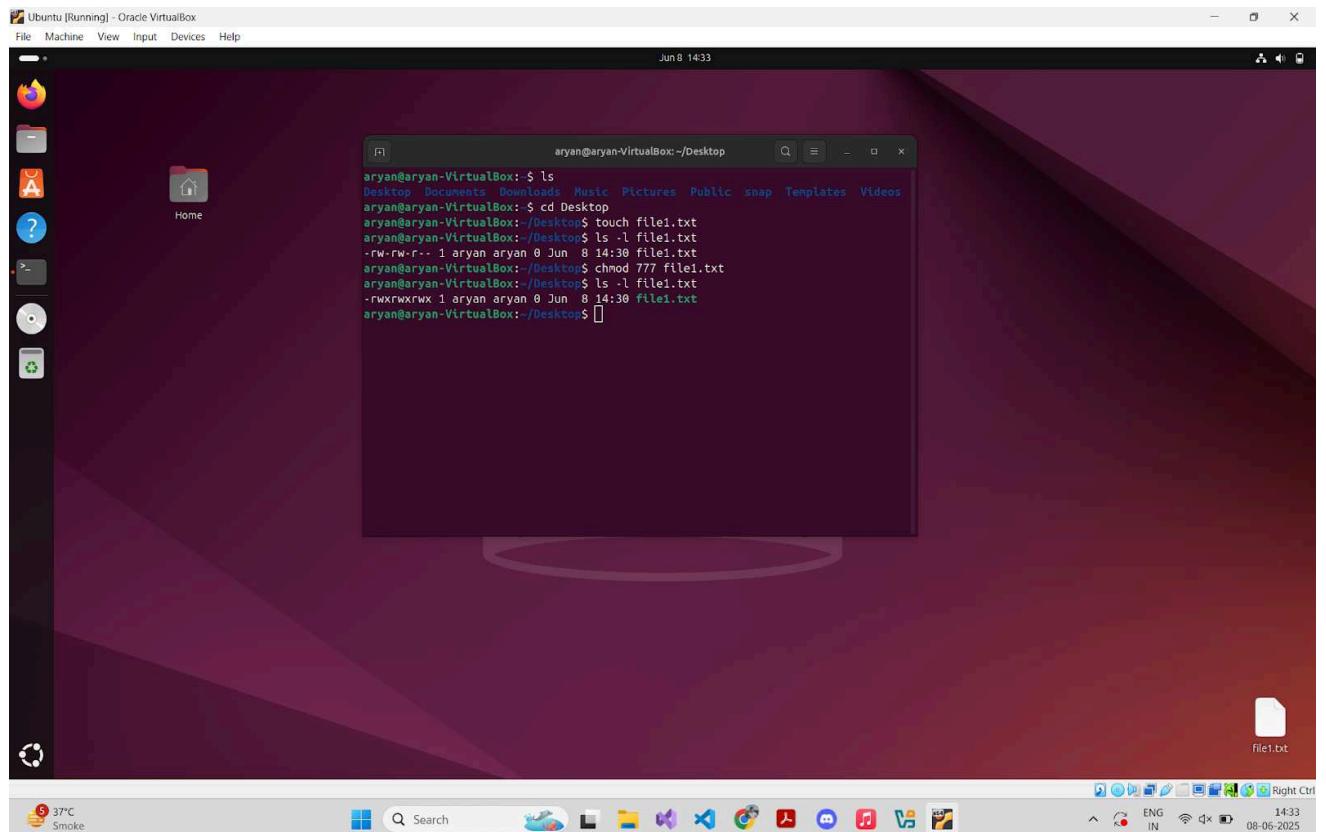
**Name :** Aryan Patel

**Email :** aaryanpatel03@gmail.com

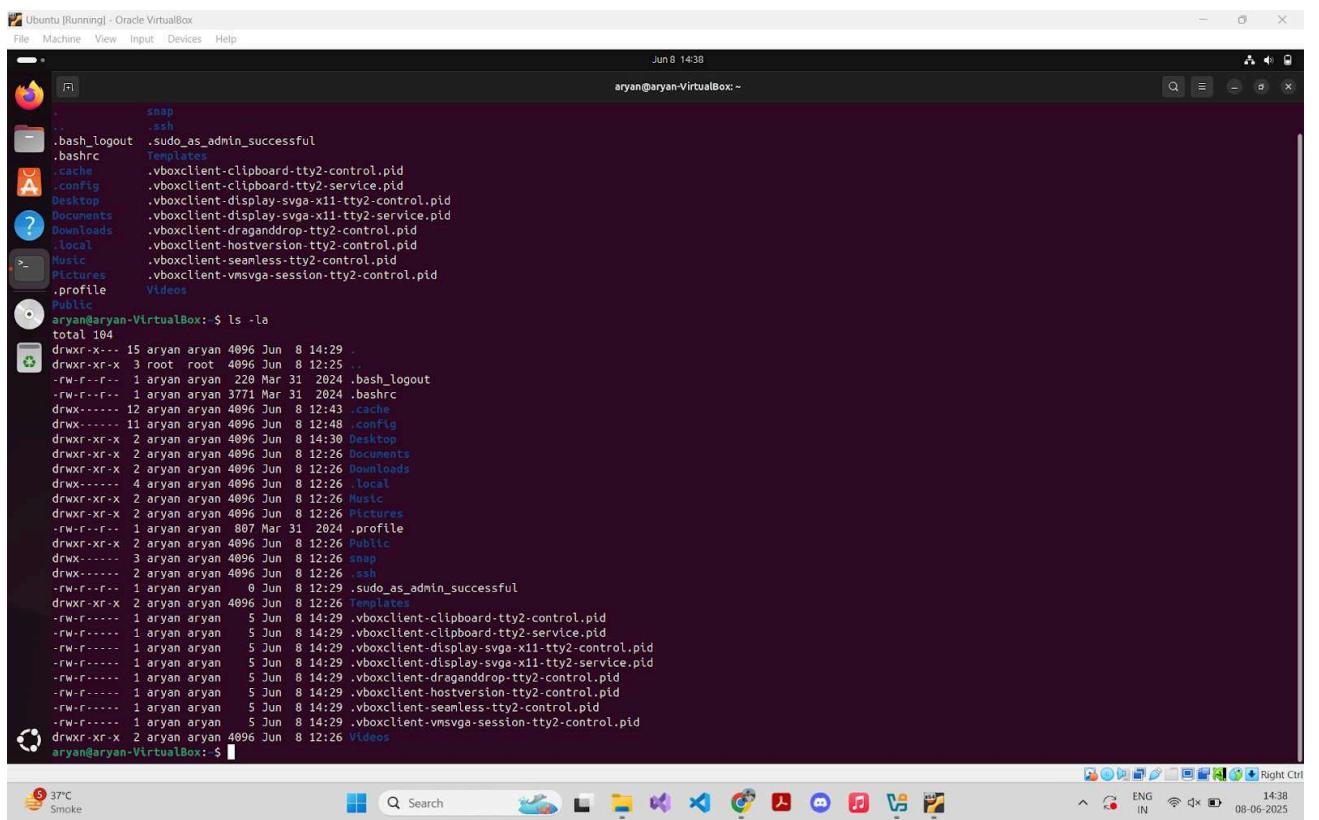
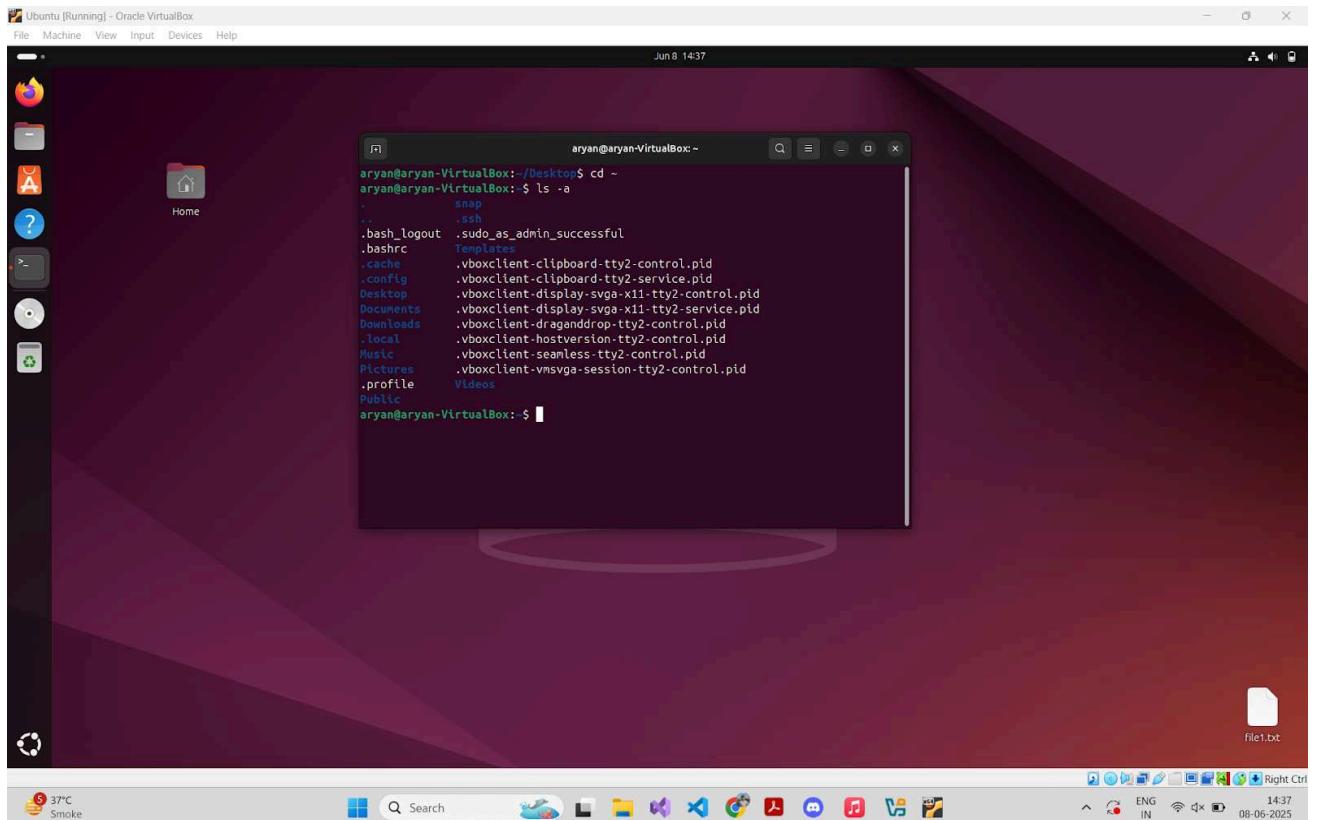
**Domain :** Devops

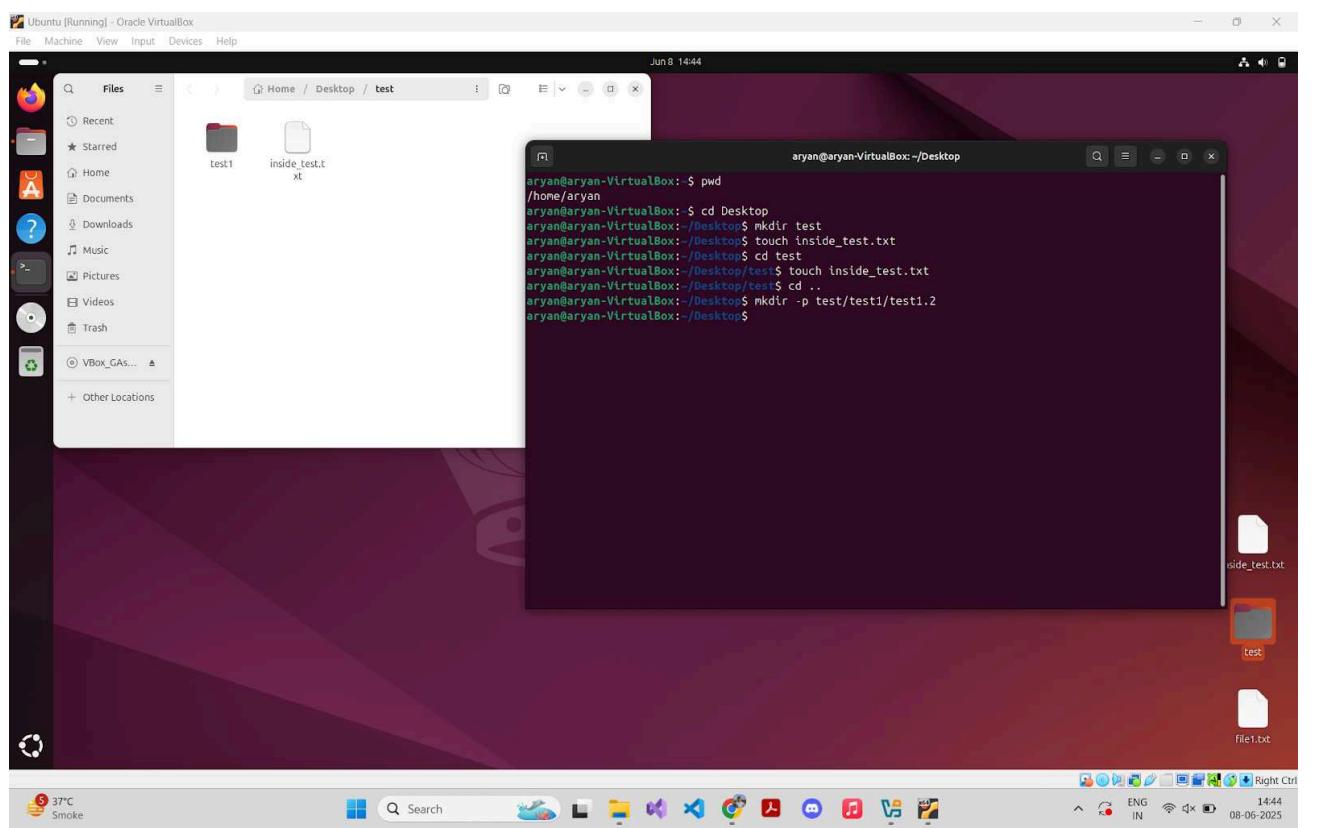
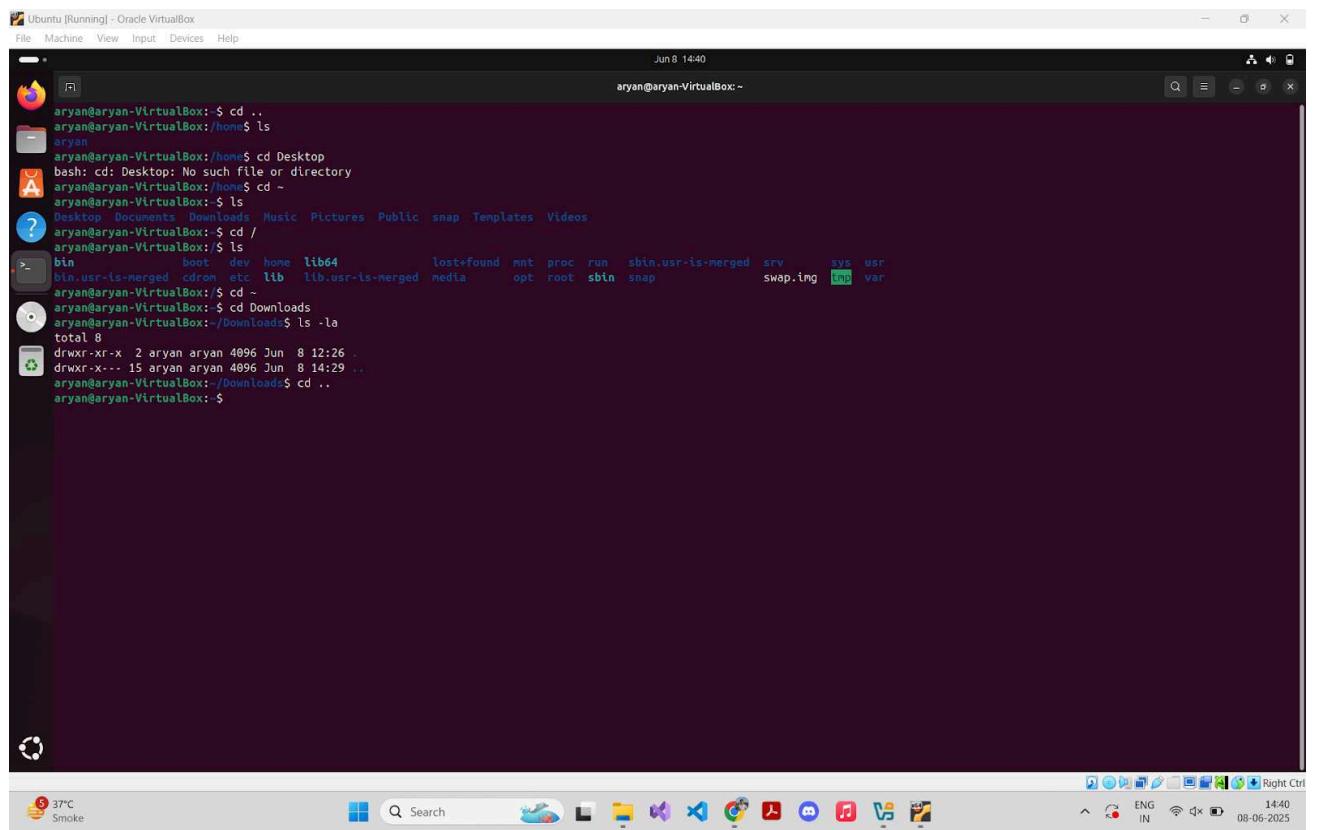
## **WEEK 1 Assignment(Linux/Git)**

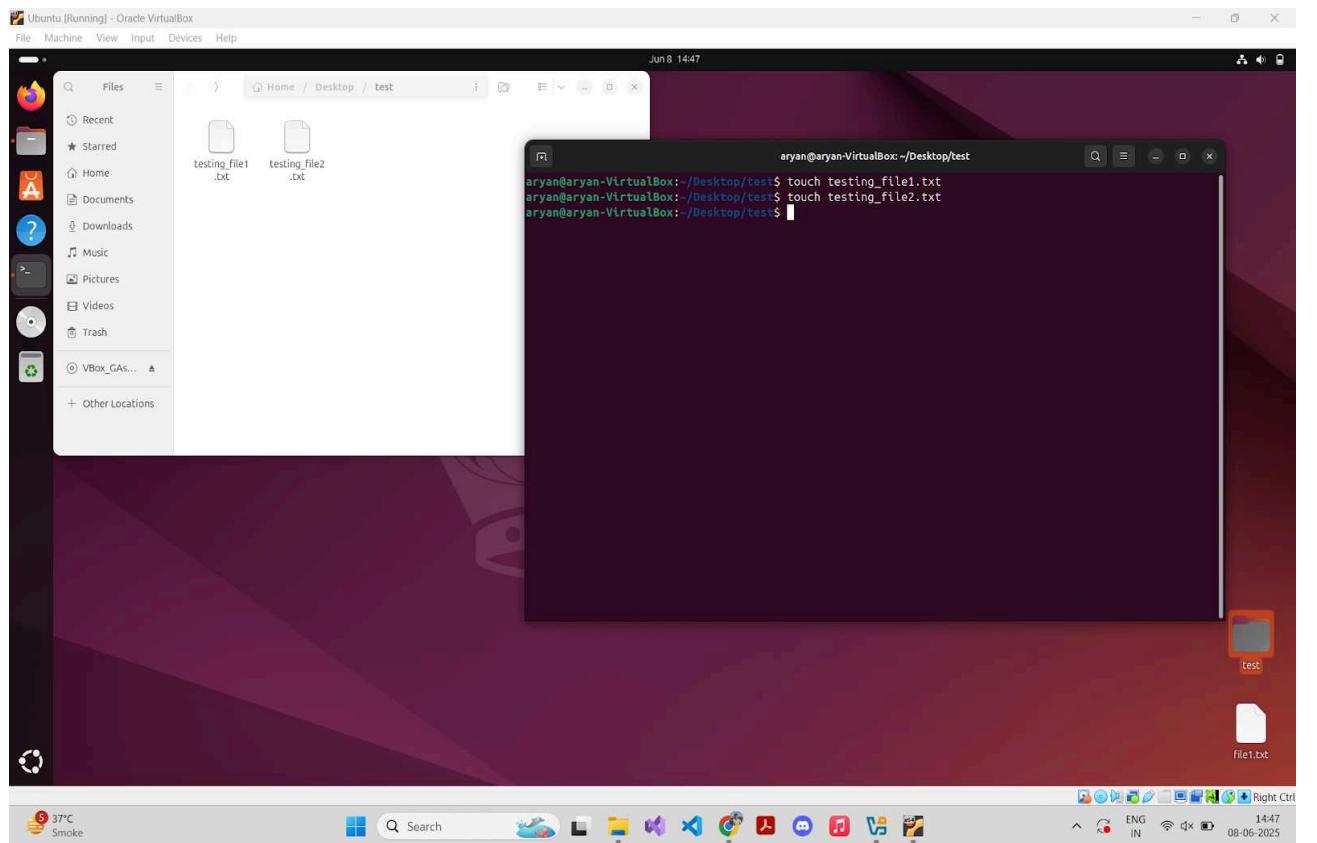
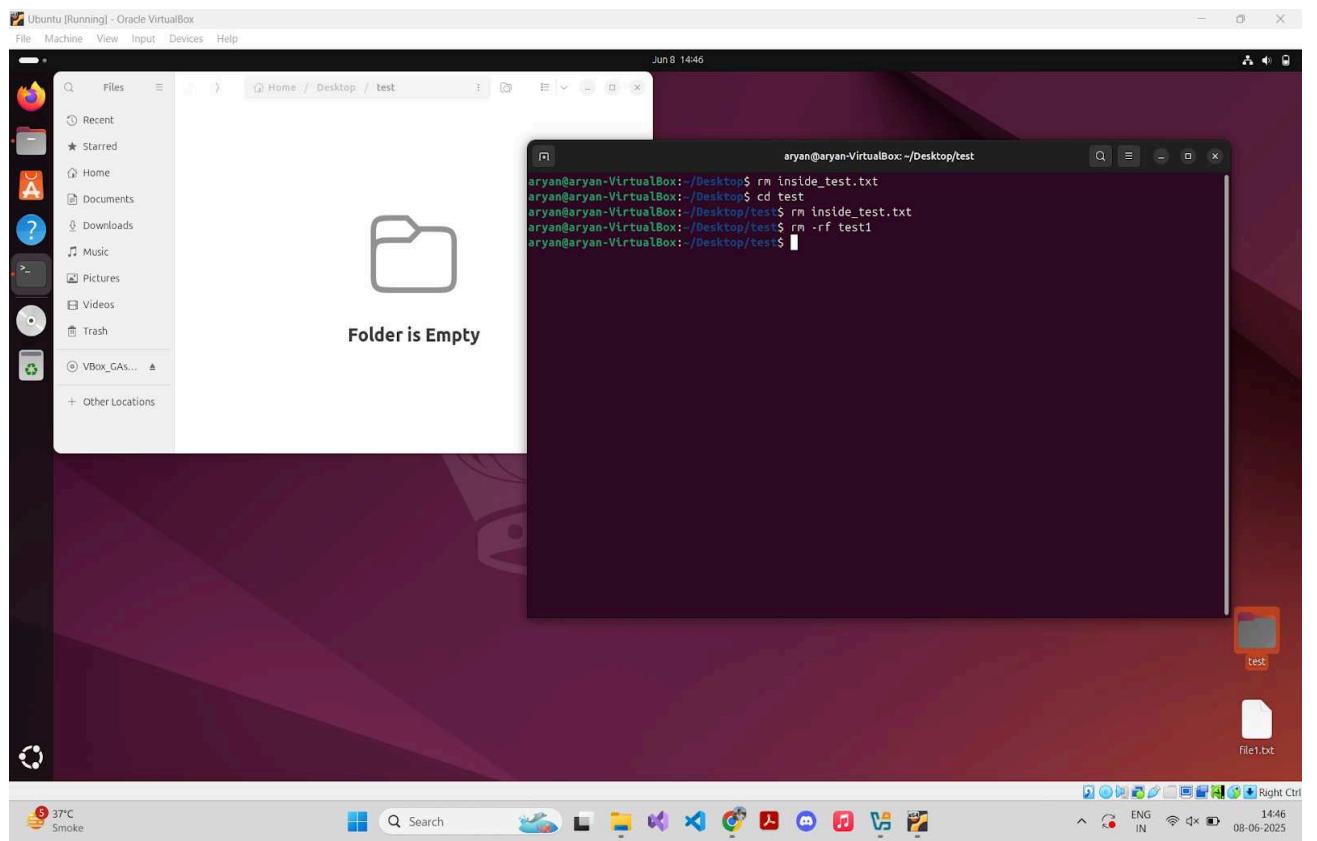
1. Create a file, assign permissions (read, write, execute) to different user categories (owner, group, others), and practice changing permissions using chmod.



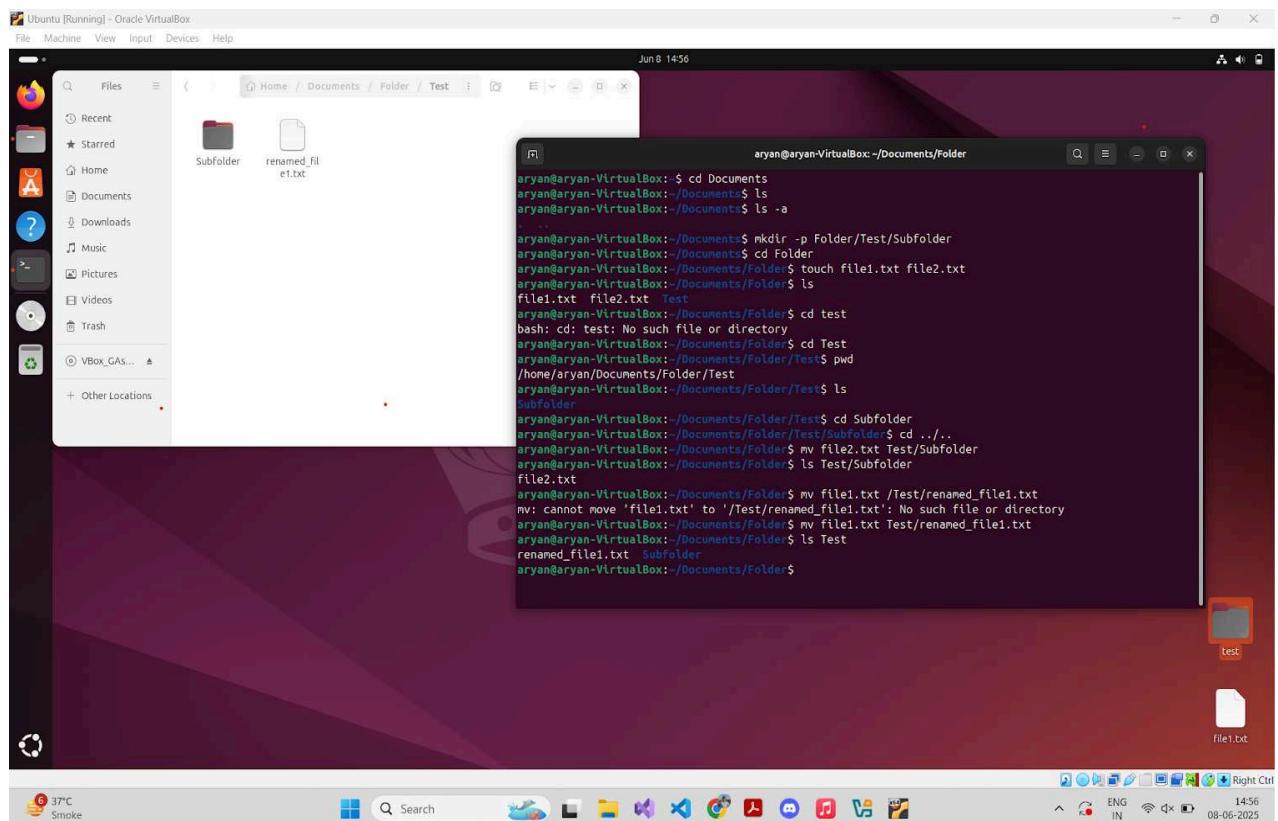
## 2. Execute basic Linux commands (e.g., ls, cd, mkdir, rm, touch) to manipulate files and directories, with an emphasis on understanding their usage.



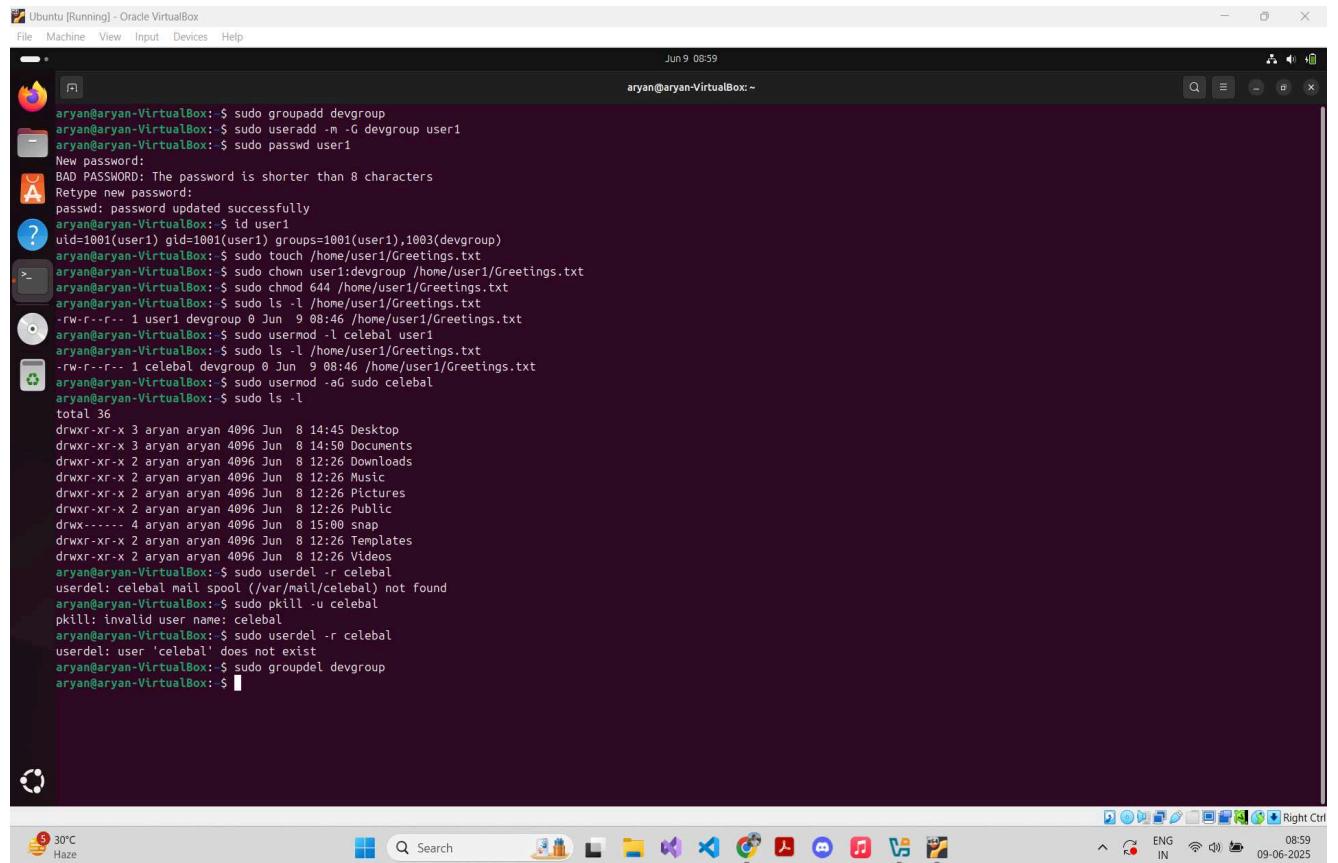




### 3. Using the terminal, practice navigating through directories, listing file contents, and moving files to different locations.



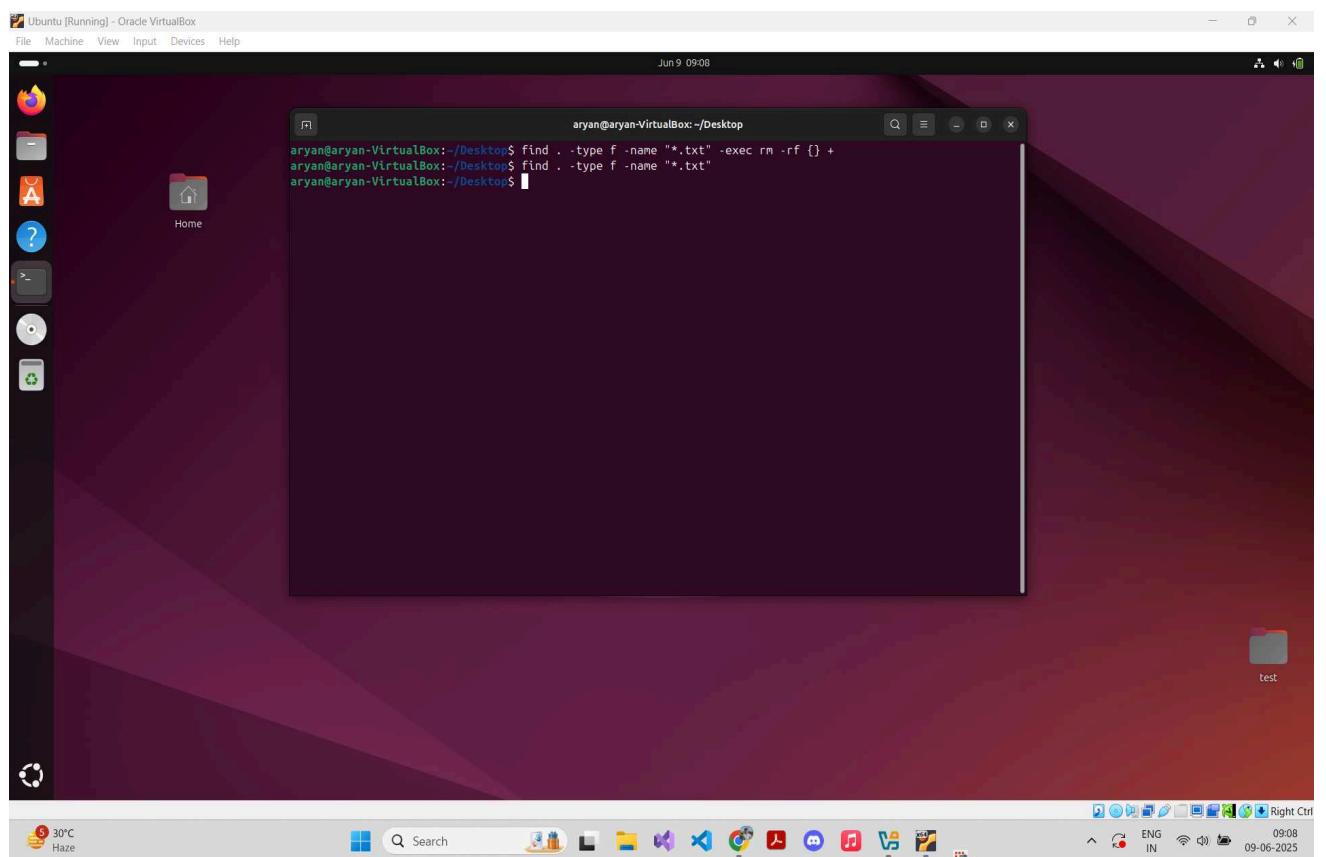
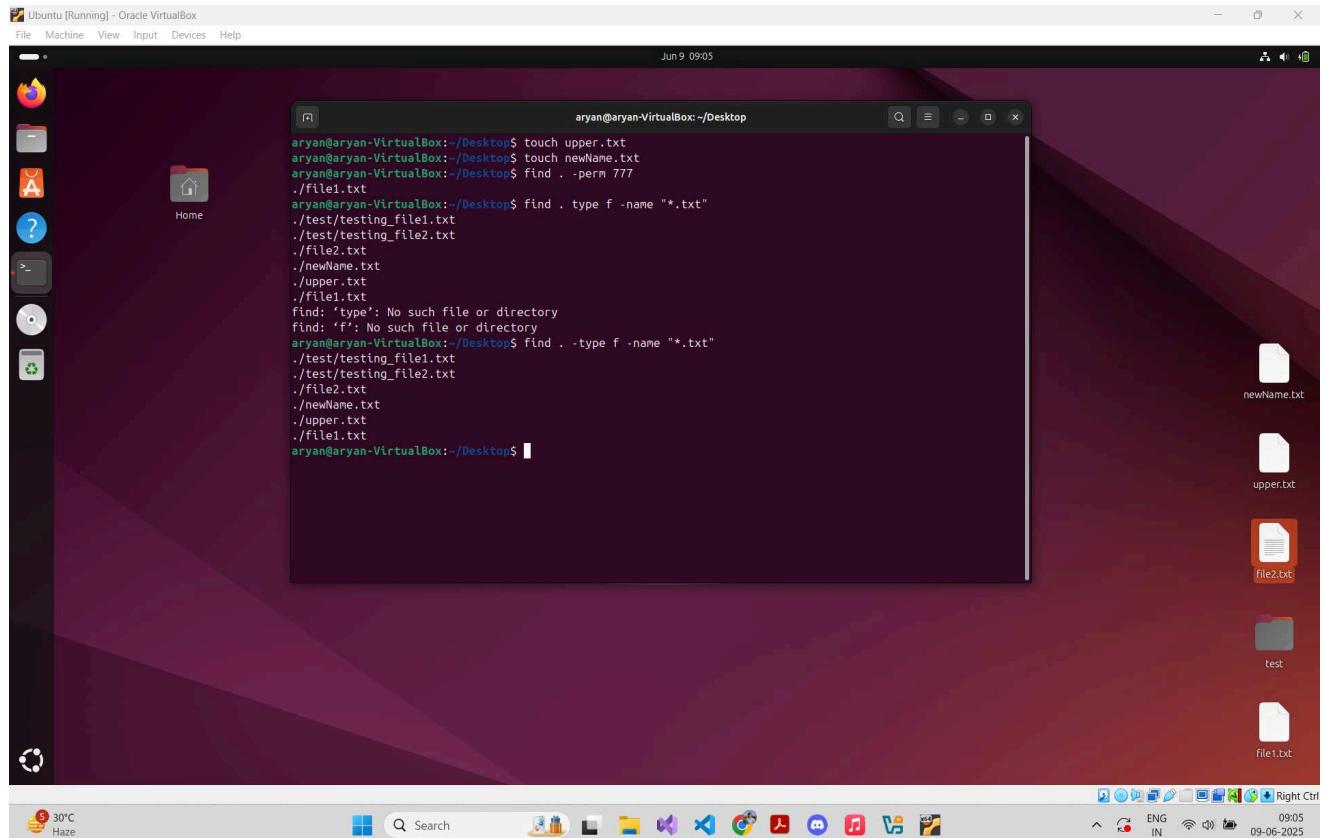
#### 4. Create a new user and group, set their permissions, and explore user management commands like useradd, usermod, and userdel.

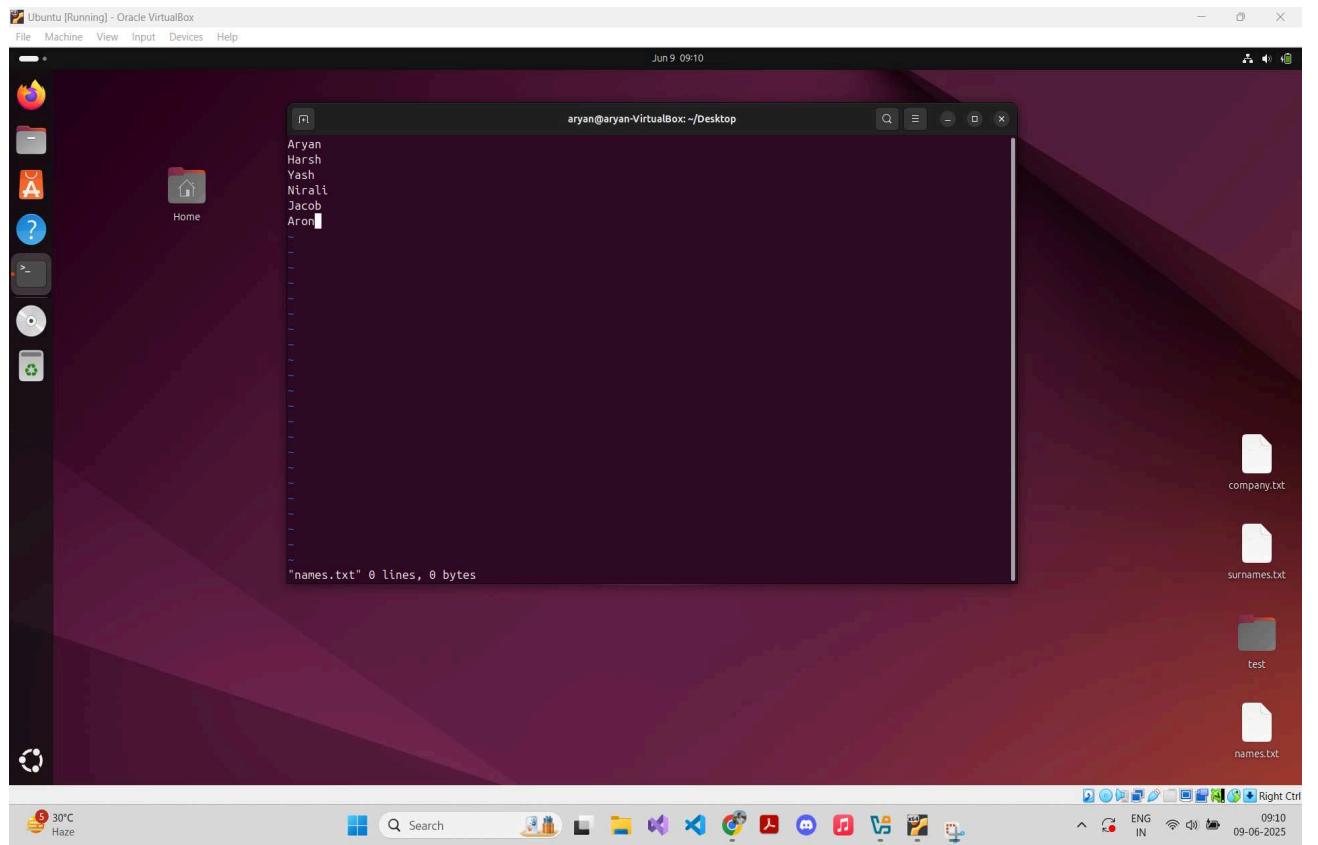
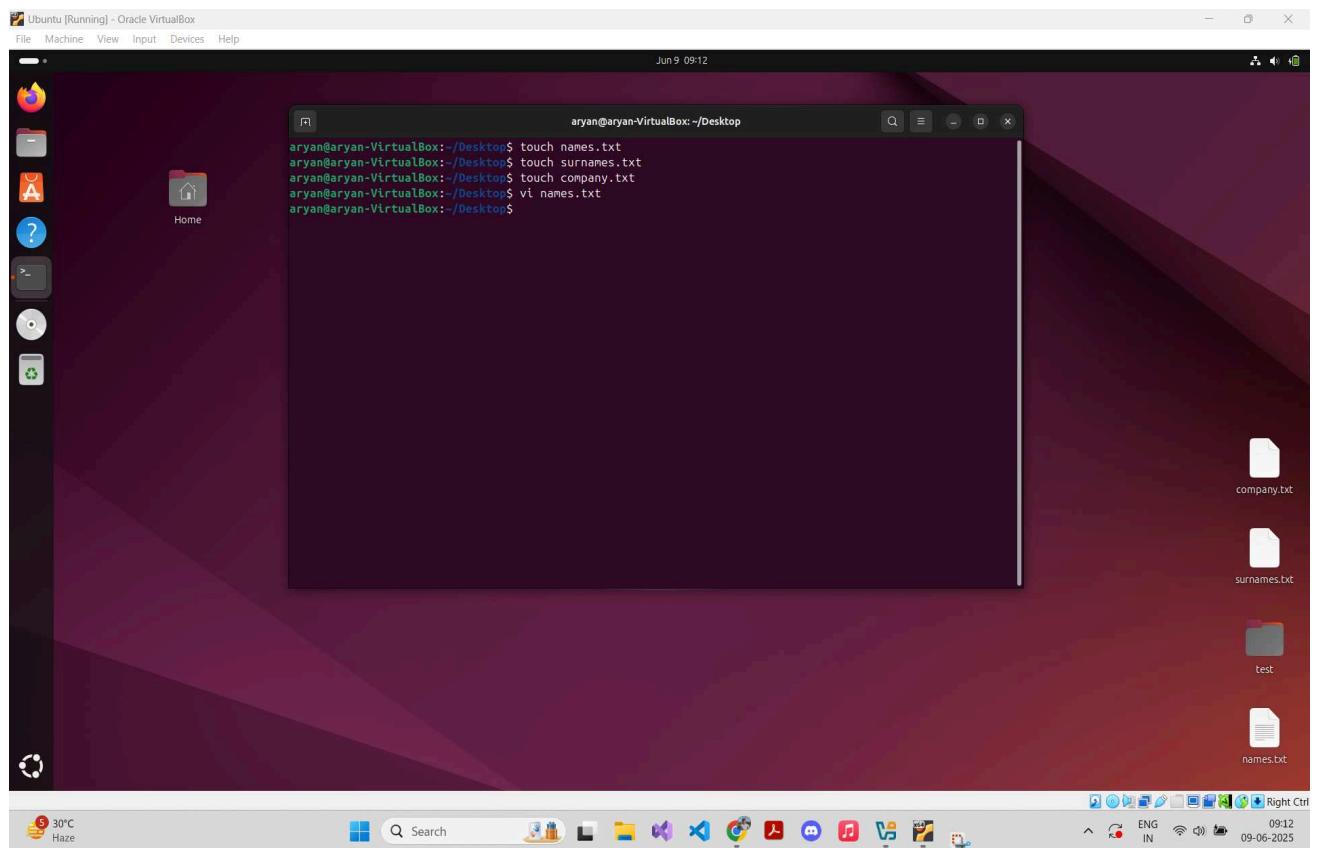


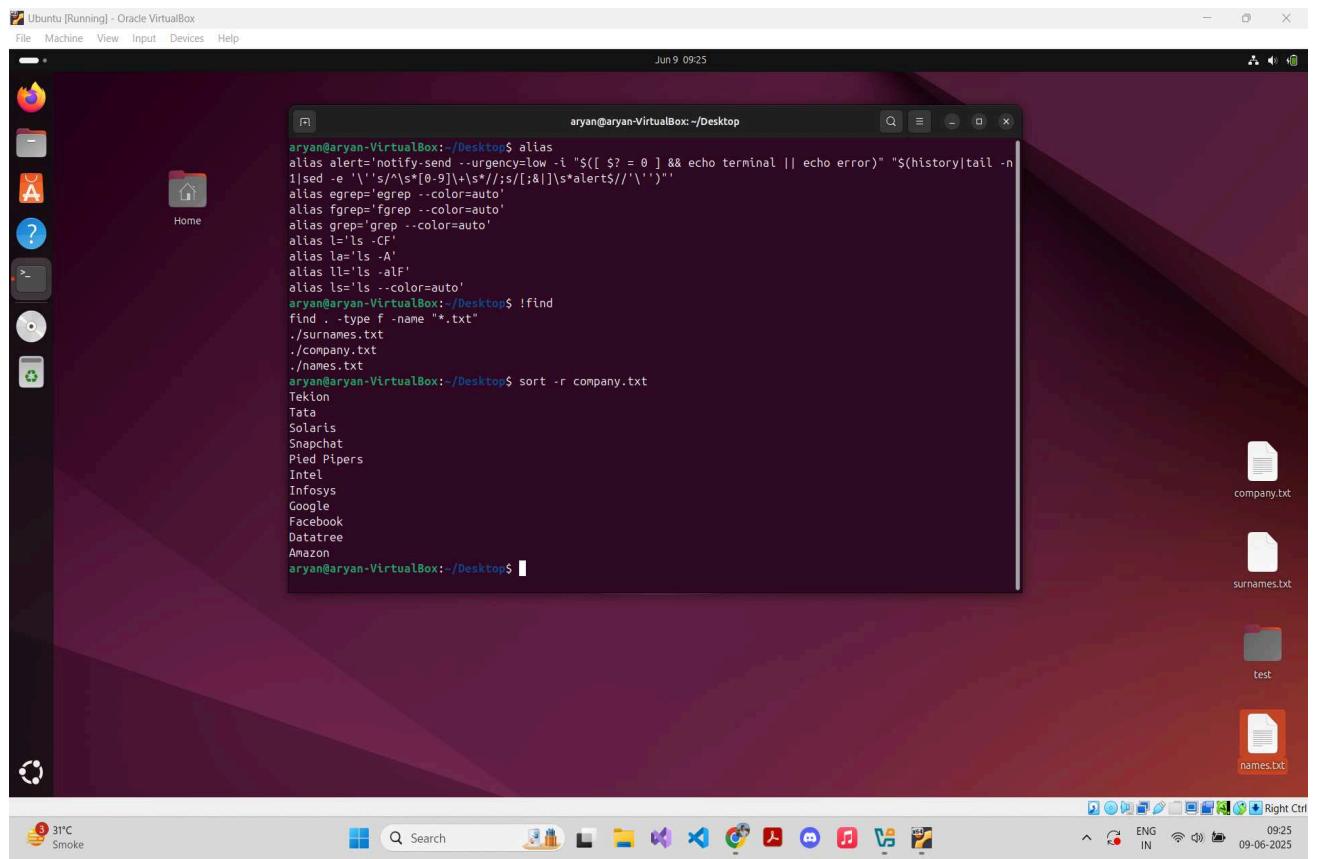
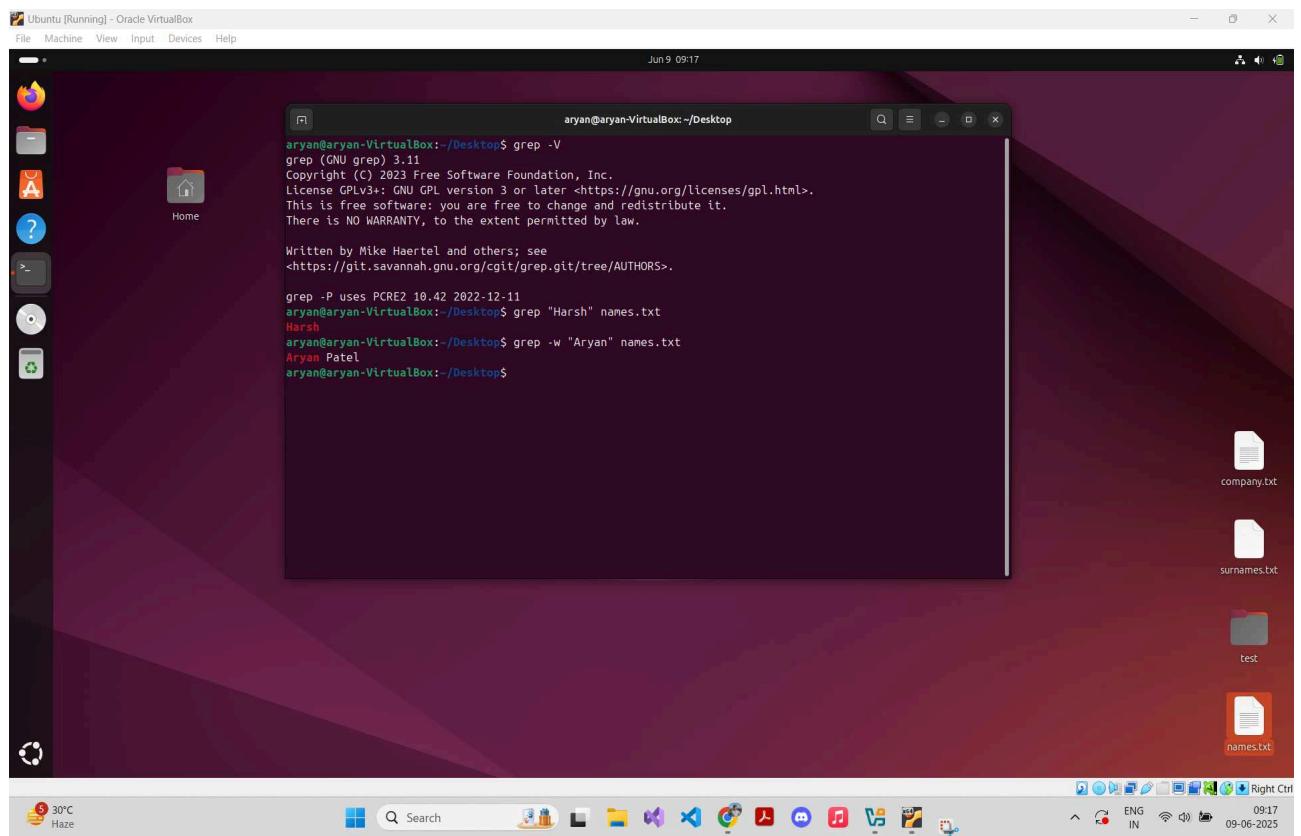
The screenshot shows a terminal window titled "Ubuntu [Running] - Oracle VirtualBox". The terminal session starts with the command \$ sudo groupadd devgroup, followed by \$ sudo useradd -m -G devgroup user1. It prompts for a new password, which is rejected as being shorter than 8 characters. The password is then re-entered successfully. The user's details are checked with \$ id user1, and a file is created with \$ sudo touch /home/user1/Greetings.txt. The file is then modified with \$ sudo chown user1:devgroup /home/user1/Greetings.txt and its permissions are changed with \$ sudo chmod 644 /home/user1/Greetings.txt. A directory listing is shown with \$ sudo ls -l /home/user1/Greetings.txt. The user's home directory is then modified with \$ sudo usermod -l celebal user1, and the user's details are checked again with \$ id user1. Finally, the user is deleted with \$ sudo userdel -r celebal, and the group is deleted with \$ sudo groupdel devgroup.

```
aryan@aryan-VirtualBox: $ sudo groupadd devgroup
aryan@aryan-VirtualBox: $ sudo useradd -m -G devgroup user1
aryan@aryan-VirtualBox: $ sudo passwd user1
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
aryan@aryan-VirtualBox: $ id user1
uid=1001(user1) gid=1001(user1) groups=1001(user1),1003(devgroup)
aryan@aryan-VirtualBox: $ sudo touch /home/user1/Greetings.txt
aryan@aryan-VirtualBox: $ sudo chown user1:devgroup /home/user1/Greetings.txt
aryan@aryan-VirtualBox: $ sudo chmod 644 /home/user1/Greetings.txt
aryan@aryan-VirtualBox: $ sudo ls -l /home/user1/Greetings.txt
-rw-r--r-- 1 user1 devgroup 0 Jun  9 08:46 /home/user1/Greetings.txt
aryan@aryan-VirtualBox: $ sudo usermod -l celebal user1
aryan@aryan-VirtualBox: $ sudo ls -l /home/user1/Greetings.txt
-rw-r--r-- 1 celebal devgroup 0 Jun  9 08:46 /home/user1/Greetings.txt
aryan@aryan-VirtualBox: $ sudo usermod -aG sudo celebal
aryan@aryan-VirtualBox: $ sudo ls -l
total 36
drwxr-xr-x 3 aryan aryan 4096 Jun  8 14:45 Desktop
drwxr-xr-x 3 aryan aryan 4096 Jun  8 14:50 Documents
drwxr-xr-x 2 aryan aryan 4096 Jun  8 12:26 Downloads
drwxr-xr-x 2 aryan aryan 4096 Jun  8 12:26 Music
drwxr-xr-x 2 aryan aryan 4096 Jun  8 12:26 Pictures
drwxr-xr-x 2 aryan aryan 4096 Jun  8 12:26 Public
drwx----- 4 aryan aryan 4096 Jun  8 15:00 snap
drwxr-xr-x 2 aryan aryan 4096 Jun  8 12:26 Templates
drwxr-xr-x 2 aryan aryan 4096 Jun  8 12:26 Videos
aryan@aryan-VirtualBox: $ sudo userdel -r celebal
userdel: celebal mail spool (/var/mail/celebal) not found
aryan@aryan-VirtualBox: $ sudo pkill -u celebal
pkill: invalid user name: celebal
aryan@aryan-VirtualBox: $ sudo userdel -r celebal
userdel: user 'celebal' does not exist
aryan@aryan-VirtualBox: $ sudo groupdel devgroup
aryan@aryan-VirtualBox: $
```

## 5. Practices more linux commands.







Ubuntu [Running] - Oracle VirtualBox

File Machine View Input Devices Help Jun 9 09:29

aryan@aryan-VirtualBox:~/Desktop

```
top - 09:29:49 up 1:04, 1 user, load average: 1.12, 0.64, 0.34
Tasks: 316 total, 2 running, 314 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.7 us, 0.5 sy, 0.0 ni, 98.6 id, 0.0 wa, 0.0 hi, 0.2 si, 0.0 st
Mem: 5872.1 total, 3792.9 free, 1385.3 used, 963.8 buff/cache
Swap: 4096.0 total, 4096.0 free, 0.0 used. 4486.8 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
2365	aryan	20	0	6538396	446492	149776	S	51.5	7.4	16:46:42	gnome-shell
3423	aryan	20	0	712520	59992	48240	S	1.3	1.0	0:10:85	gnome-terminal
128	root	0	-20	0	0	0	I	0.3	0.0	0:00:27	kworker/3:H-kblockd
370	root	20	0	0	0	0	S	0.3	0.0	0:01:40	jbd2/sda2-8
1276	root	20	0	304452	3540	3272	S	0.3	0.1	0:02:90	VBoxService
3818	root	20	0	0	0	0	I	0.3	0.0	0:00:21	kworker/u52:3-writeback
4169	root	20	0	0	0	0	I	0.3	0.0	0:00:28	kworker/u55:2-flush-8:0
5843	root	20	0	0	0	0	I	0.3	0.0	0:01:41	kworker/0:2-events
6379	root	0	-20	0	0	0	I	0.3	0.0	0:00:02	kworker/5:0H-kblockd
7023	aryan	20	0	23328	5944	3768	R	0.3	0.1	0:00:12	top
1	root	20	0	23132	13704	9352	S	0.0	0.2	0:07:61	systemd
2	root	20	0	0	0	0	S	0.0	0.0	0:00:41	kthreadd
3	root	20	0	0	0	0	S	0.0	0.0	0:00:00	root/workqueue_release
4	root	0	-20	0	0	0	I	0.0	0.0	0:00:00	kworker/R-rcu_gp
5	root	0	-20	0	0	0	I	0.0	0.0	0:00:00	kworker/R-sync_wq
6	root	0	-20	0	0	0	I	0.0	0.0	0:00:00	kworker/R-slub_flushwq
7	root	0	-20	0	0	0	I	0.0	0.0	0:00:00	kworker/R-netns
10	root	0	-20	0	0	0	I	0.0	0.0	0:00:00	kworker/0:0H-events_highpri
11	root	20	0	0	0	0	I	0.0	0.0	0:00:00	kworker/u48:0-ipv6_addrconf
12	root	0	-20	0	0	0	I	0.0	0.0	0:00:00	kworker/R-mm_percpu_wq
13	root	20	0	0	0	0	I	0.0	0.0	0:00:00	rcu_tasks_kthread
14	root	20	0	0	0	0	I	0.0	0.0	0:00:00	rcu_tasks_rude_kthred
15	root	20	0	0	0	0	I	0.0	0.0	0:00:00	rcu_tasks_trace_kthred
16	root	20	0	0	0	0	S	0.0	0.0	0:00:37	ksoftirqd/0
17	root	20	0	0	0	0	I	0.0	0.0	0:14:45	rcu_preempt
18	root	20	0	0	0	0	S	0.0	0.0	0:00:00	rcu_exp_par_gp_kthred_worker/0
19	root	20	0	0	0	0	S	0.0	0.0	0:03:72	rcu_exp_gp_kthred_worker
20	root	rt	0	0	0	0	S	0.0	0.0	0:00:29	migration/0
21	root	-51	0	0	0	0	S	0.0	0.0	0:00:00	idle_inject/0
22	root	20	0	0	0	0	S	0.0	0.0	0:00:00	cpuhp/0
23	root	20	0	0	0	0	S	0.0	0.0	0:00:00	cpuhp/1
24	root	-51	0	0	0	0	S	0.0	0.0	0:00:00	idle_inject/1
25	root	rt	0	0	0	0	S	0.0	0.0	0:00:72	migration/1
26	root	20	0	0	0	0	S	0.0	0.0	0:00:34	ksoftirqd/1
28	root	0	-20	0	0	0	I	0.0	0.0	0:00:00	kworker/1:0H-events_highpri
29	root	20	0	0	0	0	S	0.0	0.0	0:00:00	cpuhp/2
30	root	-51	0	0	0	0	S	0.0	0.0	0:00:00	idle_inject/2

31°C Smoke

Search

File Machine View Input Devices Help Jun 9 09:29

ENG IN 09-06-2025

Ubuntu [Running] - Oracle VirtualBox

File Machine View Input Devices Help Jun 9 09:32

aryan@aryan-VirtualBox:~/Desktop

```
aryan@aryan-VirtualBox:~/Desktop$ zip files.zip company.txt names.txt
adding: company.txt (deflated 8%)
adding: names.txt (deflated 87%)
aryan@aryan-VirtualBox:~/Desktop$ unzip files.zip
Archive: files.zip
replace company.txt? [y]es, [n]o, [A]ll, [N]one, [r]ename: A
  inflating: company.txt
  inflating: names.txt
aryan@aryan-VirtualBox:~/Desktop$
```

files.zip

company.txt

surnames.txt

test

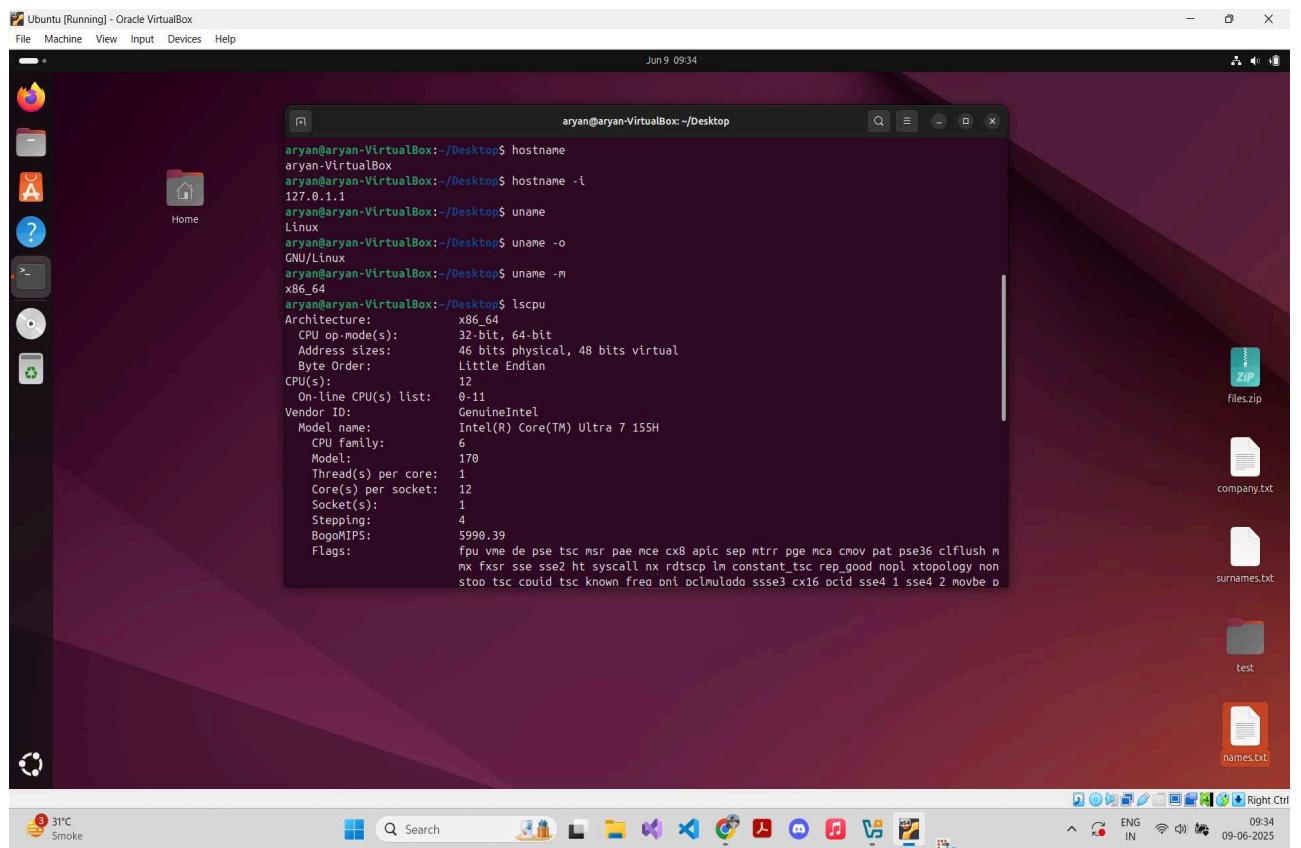
names.txt

31°C Smoke

Search

File Machine View Input Devices Help Jun 9 09:32

ENG IN 09-06-2025



## 6. Introduction to version control and Git basics, Git installation and configuration, Basic Git commands (init, add, commit, push, pull)

```
aary@Aryan-PC MINGW64 ~
$ git config --global core.editor "code --wait"
aary@Aryan-PC MINGW64 ~
$ git config --global -e
aary@Aryan-PC MINGW64 ~
$ git config --global core.autocrlf true
aary@Aryan-PC MINGW64 ~
$ ls
AppData/
'Application Data'@
'Cisco Packet Tracer 8.2.2'/
Contacts/
Cookies/
Documents/
Downloads/
Favorites/
Links/
'Local Settings'@
Mus/12...
My Documents@
NTUSER.DAT
NTUSER.DAT[7a9cf3af-79a9-11ef-aa02-8c47be171a1b].TM.blf
NTUSER.DAT[7a9cf3af-79a9-11ef-aa02-8c47be171a1b].TMContainer00000000000000000000000000000001.retrans-ms
NTUSER.DAT[7a9cf3af-79a9-11ef-aa02-8c47be171a1b].TMContainer00000000000000000000000000000002.retrans-ms
'Networks'@
OneDrive/
Photos/7...
Printblood@
Recent@
'Saved Games'/
Searches/
Sendies/
Start Menu@
Templates@
Videos/
'VirtualBox VMs'/
get-pip.py@
ntuser.dat.LOG1
ntuser.dat.LOG2
ntuser.ini
source/
test1.js
wekafiles/
aary@Aryan-PC MINGW64 ~
$ cd Documents
aary@Aryan-PC MINGW64 ~/Documents
$ mkdir Git_Assignment
aary@Aryan-PC MINGW64 ~/Documents
$ cd Git_Assignment/
aary@Aryan-PC MINGW64 ~/Documents/Git_Assignment
$ git init
Initialized empty Git repository in C:/Users/aarya/Documents/Git_Assignment/.git/
aary@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$
```

The screenshot shows a Windows terminal window titled 'MINGW64/c/Users/aarya/Documents/Git\_Assignment'. The user has run several commands to initialize a new Git repository in the 'Git\_Assignment' directory. The repository is currently empty with no commits.

```
aary@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ echo "Hello, World!" > hello.txt
aary@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git status
On branch master
No commits yet
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    Hello.txt

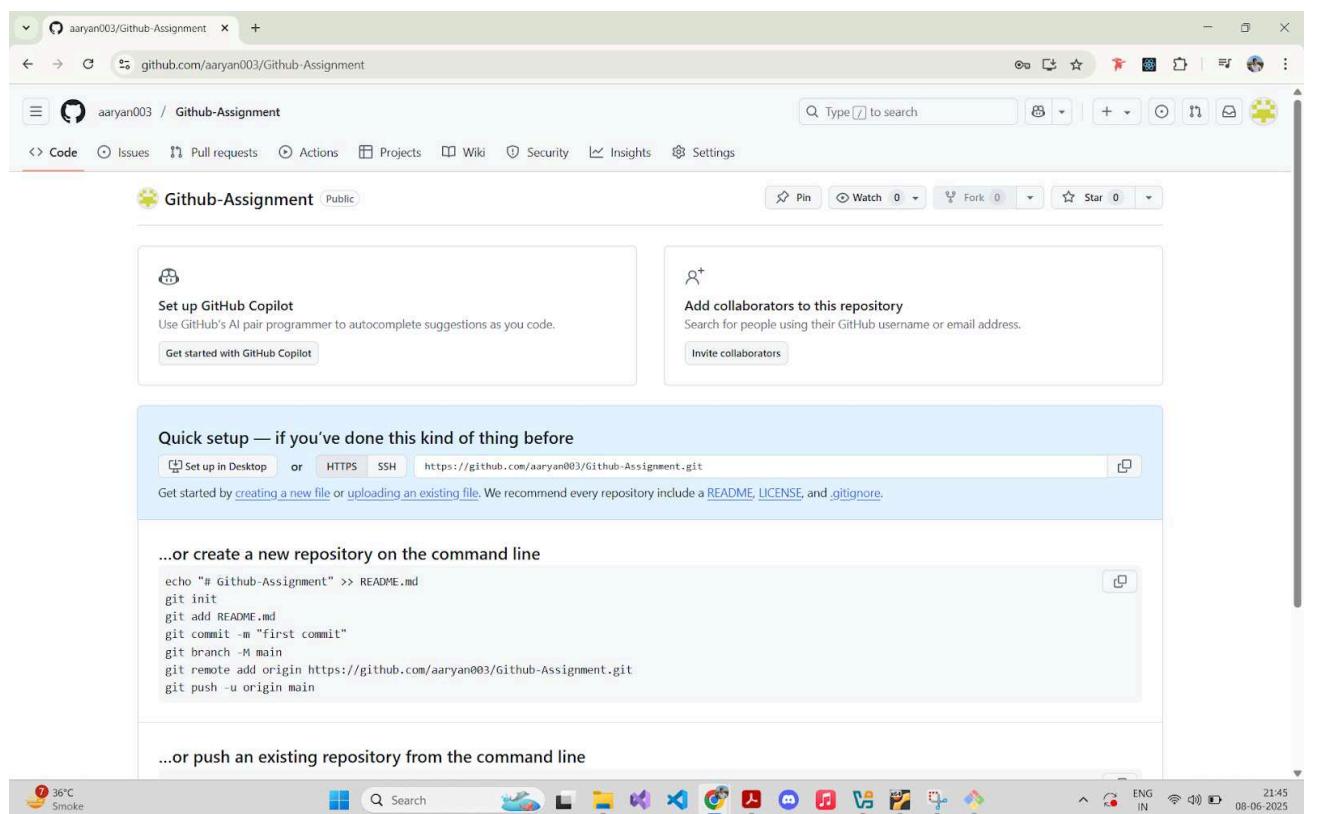
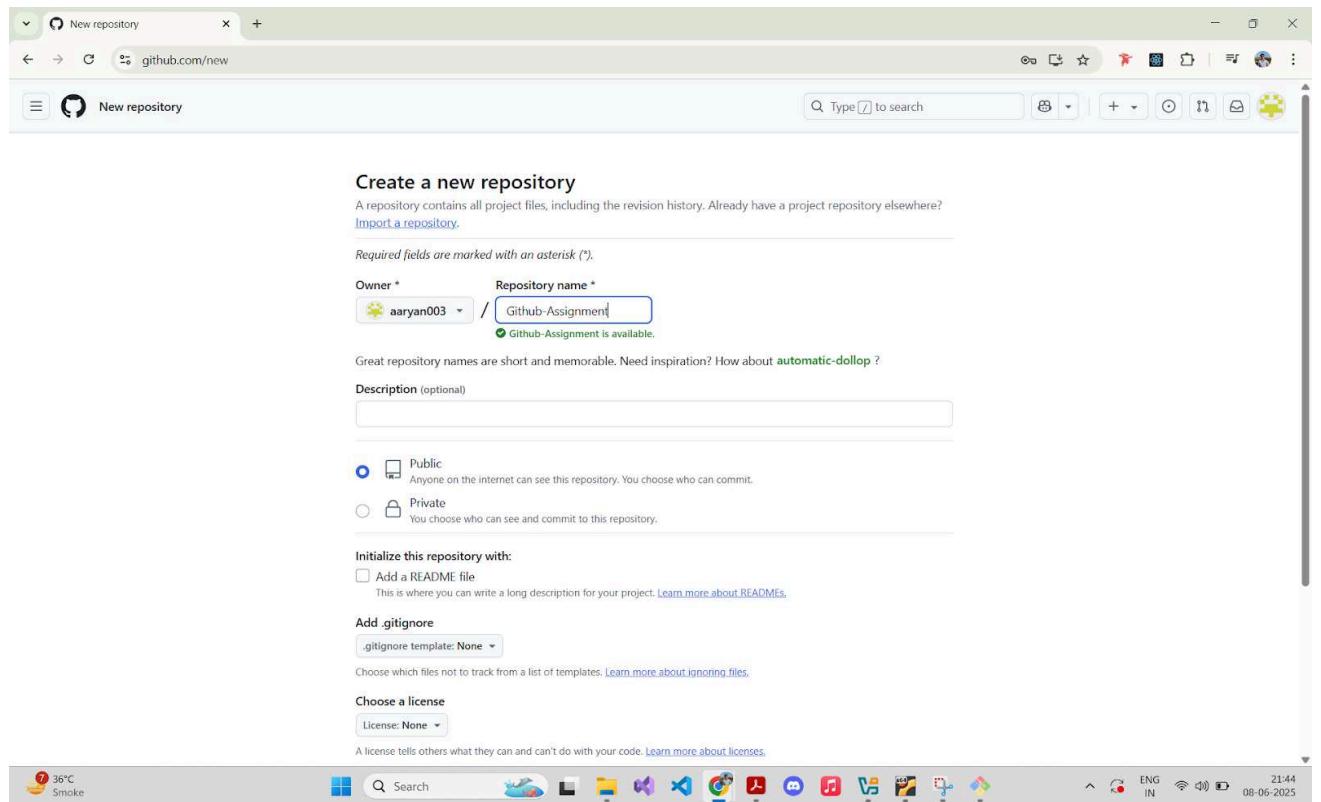
nothing added to commit but untracked files present (use "git add" to track)
aary@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git add Hello.txt
warning: in the working copy of 'hello.txt', LF will be replaced by CRLF the next time Git touches it
aary@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git commit -m "Initial Commit"
[initial commit] (empty commit)
 1 file changed, 1 insertion(+)
 create mode 100644 hello.txt
aary@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git status
On branch master
nothing to commit, working tree clean
aary@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ echo "From Aryan" >> hello.txt
aary@Aryan-PC MINGW64 ~/Documents/Git_Assignment (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:   Hello.txt

no changes added to commit (use "git add" and/or "git commit -a")
aary@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git add hello.txt
warning: in the working copy of 'hello.txt', LF will be replaced by CRLF the next time Git touches it
aary@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git commit
[master 4826c48] Appended some text in hello.txt.
 1 file changed, 1 insertion(+)
aary@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git mv hello.txt main.js
aary@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    renamed:   hello.txt -> main.js

aary@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
```

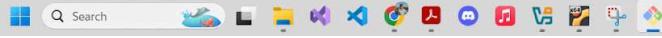
The screenshot shows the user creating a file named 'hello.txt' with the content 'Hello, World!', committing it with the message 'Initial Commit', and then modifying it to contain 'From Aryan'. The user then renames the file to 'main.js' and stages the change for the next commit.

## 7. Setup a remote repository in Local , Add a file and commit or save the changes and push to master branch



```
aarya@Aaryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git status
On branch master
nothing to commit, working tree clean
aarya@Aaryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git remote add origin https://github.com/aaryan003/Github-Assignment.git
error: remote origin already exists.
aarya@Aaryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ nc
aarya@Aaryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git remote remove origin
aarya@Aaryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git remote add origin https://github.com/aaryan003/Github-Assignment.git
aarya@Aaryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git
origin https://github.com/aaryan003/Github-Assignment.git (fetch)
origin https://github.com/aaryan003/Github-Assignment.git (push)
aarya@Aaryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git push origin master
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 22 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (8/8), 679 bytes | 160.00 KB/s, done.
Total 8 (delta 5), reused 0 (delta 0) pack-reused 0 (from 0)
To https://github.com/aaryan003/Github-Assignment.git
 * [new branch]      master -> master
aarya@Aaryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$
```

7 35°C  
Smoke



ENG IN 21:48 08-06-2025

## 8. Merge types, Create a new branch then commit and push the changes to the new branch and merge it with the master branch using pull request.

```
MINGW64:/c/Users/aaryan/Documents/Git_Assignment
aaryan@Aryan-PC MINGW64 ~/Documents
$ cd Git_Assignment
aaryan@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git remote -v
origin https://github.com/aaryan003/Github-Assignment.git (fetch)
origin https://github.com/aaryan003/Github-Assignment.git (push)
aaryan@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git checkout -b feature-branch
Switched to a new branch 'feature-branch'
aaryan@Aryan-PC MINGW64 ~/Documents/Git_Assignment (feature-branch)
$ echo "this is a new feature added in feature-branch which is in feature.txt." > feature.txt
aaryan@Aryan-PC MINGW64 ~/Documents/Git_Assignment (feature-branch)
$ git status
On branch feature-branch
Untracked files:
  (use "git add <file...>" to include in what will be committed)
    feature.txt

nothing added to commit but untracked files present (use "git add" to track)
aaryan@Aryan-PC MINGW64 ~/Documents/Git_Assignment (feature-branch)
$ git add feature.txt
warning: in the working copy of 'feature.txt', LF will be replaced by CRLF the next time Git touches it
aaryan@Aryan-PC MINGW64 ~/Documents/Git_Assignment (feature-branch)
$ git commit -m "Added feature.txt in feature-branch"
[feature-branch]          Added feature.txt in feature-branch
  1 file changed, 1 insertion(+)
   create mode 100644 feature.txt
aaryan@Aryan-PC MINGW64 ~/Documents/Git_Assignment (feature-branch)
$ git push -u origin feature-branch
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 22 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 341 bytes | 170.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
  To https://github.com/aaryan003/Github-Assignment.git
    * [new branch]      feature-branch -> feature-branch
Branch 'feature-branch' set up to track 'origin/feature-branch'.
aaryan@Aryan-PC MINGW64 ~/Documents/Git_Assignment (feature-branch)
$
```

The screenshot shows a GitHub repository page for 'aaryan003/Github-Assignment'. The repository has 2 branches and 0 tags. A recent push from the 'feature-branch' was made 13 hours ago, refactoring code in 'main.js'. The repository has 3 commits and 0 stars. It includes sections for About (no description), Activity (0 stars, 0 watching, 0 forks), Releases (no releases published), Packages (no packages published), Languages (JavaScript 100.0%), and Suggested workflows (based on tech stack). The URL shown is <https://github.com/aaryan003/Github-Assignment/compare/feature-branch?expand=1>.

LMS | (3) Complete Git and GitHub T... | usermod command in linux - G... | Comparing master...feature-bran... | +

github.com/aaryan003/Github-Assignment/compare/feature-branch?expand=1

aaryan003 / Github-Assignment

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

### Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also compare across forks. [Learn more about diff comparisons here.](#)

base: master ▾ compare: feature-branch ▾ ✓ Able to merge. These branches can be automatically merged.

Add a title  
Added feature.txt in feature-branch

Add a description

Write Preview

\*\*Title:\*\* Add feature.txt file  
\*\*Message:\*\* Merging feature-branch changes into master|

Markdown is supported Paste, drop, or click to add files

Create pull request

Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

31°C Smoke Search File Explorer Taskbar 09-06-2025

LMS | (3) Complete Git and GitHub T... | usermod command in linux - G... | Added feature.txt in feature-bran... | +

github.com/aaryan003/Github-Assignment/pull/1

### Added feature.txt in feature-branch #1

Open aaryan003 wants to merge 1 commit into master from feature-branch

Conversation 0 Commits 1 Checks 0 Files changed 1

aaryan003 commented now

Title: Add feature.txt file  
Message: Merging feature-branch changes into master

No conflicts with base branch  
Merging can be performed automatically.

Merge pull request

Add a comment

Write Preview

Add your comment here...

Markdown is supported Paste, drop, or click to add files

Close pull request Comment

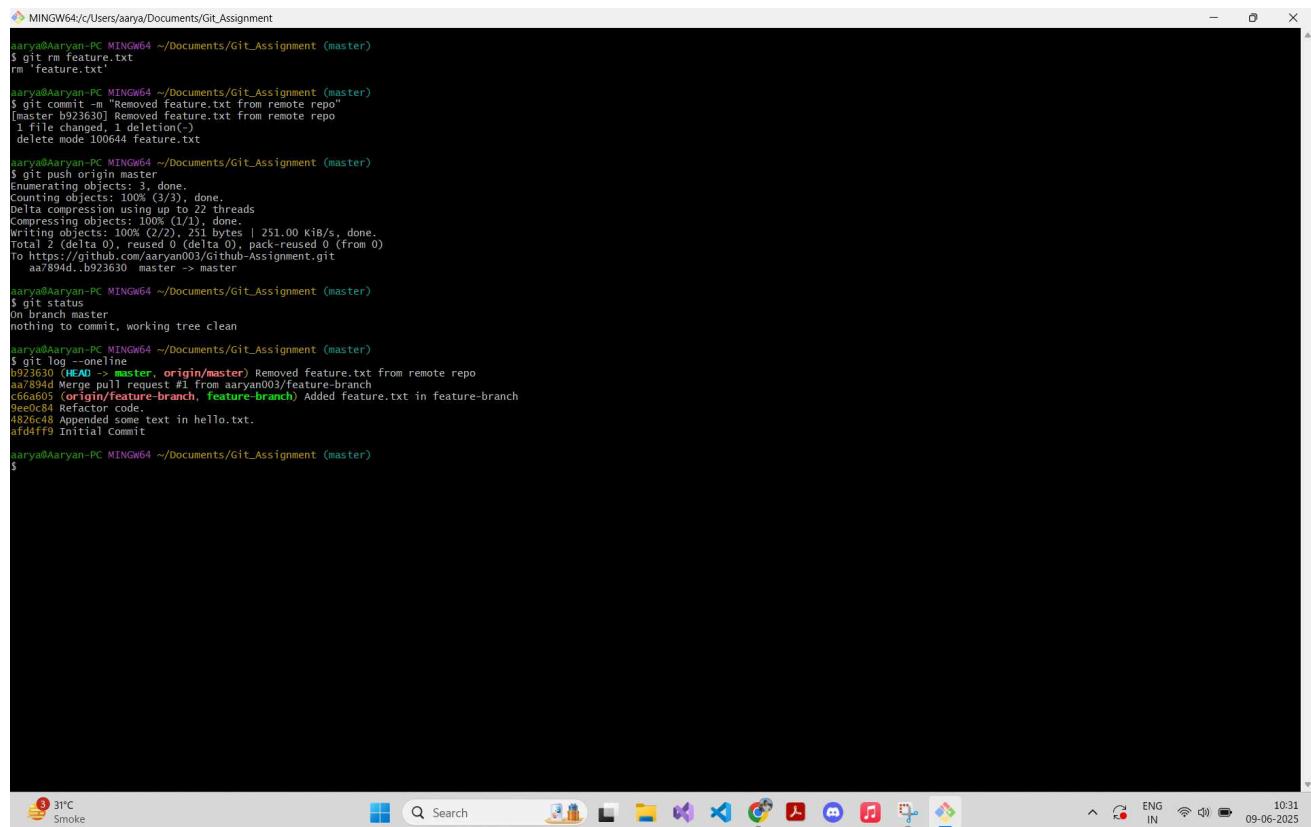
Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

31°C Smoke Search File Explorer Taskbar 09-06-2025

```
MINGW64/c/Users/aarya/Documents/Git_Assignment
aarya@aaryan-PC MINGW64 ~/Documents/Git_Assignment (Feature-branch)
$ git checkout master
Switched to branch 'master'

aarya@aaryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git pull origin master
remote: Enumerating objects: 1, done.
remote: Counting objects: 100% (1/1), done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Delta compression using up to 8 threads
remote: Compressing objects: 100% (1/1), 907 bytes | 151.00 KiB/s, done.
From https://github.com/aaryan003/Github-Assigment
 * branch      master    -> FETCH_HEAD
   9ee0c84..aa7894d master      -> origin/master
Updating 9ee0c84..aa7894d
Fast-forward
  feature.txt | 1 +
  1 file changed, 1 insertion(+)
 create mode 100644 feature.txt
$ |
```

## 9. Undo the last commit or remove the last created file from remote repo using CLI.



```
aarya@Aaryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git rm feature.txt
aarya@Aaryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git commit -m "Removed feature.txt from remote repo"
[master b923630] Removed feature.txt from remote repo
 1 file changed, 1 deletion(-)
 delete mode 100644 feature.txt
aarya@Aaryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git push origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 22 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/aaryan003/Github-Assignment.git
 ! [new branch]      master       > master
aarya@Aaryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git status
On branch master
nothing to commit, working tree clean
aarya@Aaryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git log --oneline
b923630 (HEAD → master, origin/master) Removed feature.txt from remote repo
a27894d Merge pull request #1 from aaryan003/feature-branch
c66a605 (origin/feature-branch, feature-branch) Added feature.txt in feature-branch
9ee0c84 Refactor code.
4826c48 Appended some text in hello.txt.
af04ff9 Initial Commit
aarya@Aaryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$
```

## 10. Branching and merging in Git, Resolve merge conflicts.

```
MINGW64:/c/Users/aarya/Documents/Git_Assignment
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ echo "This line is from the master branch" > conflict.txt
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git add .
warning: in the working copy of 'conflict.txt', LF will be replaced by CRLF the next time Git touches it
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git commit -m "Added line from master"
[master a850f76] Added line from master
 1 file changed, 1 insertion(+)
 create mode 100644 conflict.txt
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git checkout -b branch-a
Switched to a new branch 'branch-a'
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (branch-a)
$ echo "This line is from branch-a." > conflict.txt
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (branch-a)
$ git commit -m "Edit conflict.txt in branch-a."
On branch branch-a
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: conflict.txt

no changes added to commit (use "git add" and/or "git commit -a")
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (branch-a)
$ git add .
warning: in the working copy of 'conflict.txt', LF will be replaced by CRLF the next time Git touches it
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (branch-a)
$ git commit -m "Edit conflict.txt in branch-a."
[branch-a 62ca3c0] Edit conflict.txt in branch-a.
 1 file changed, 1 insertion(+), 1 deletion(-)
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (branch-a)
$ git checkout master
Switched to branch 'master'
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ echo "Conflicting line from master" > conflict.txt
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git commit -am "Edit conflict.txt in master branch."
warning: in the working copy of 'conflict.txt', LF will be replaced by CRLF the next time Git touches it
[master 57711ad] Edit conflict.txt in master branch.
 1 file changed, 1 insertion(+), 1 deletion(-)
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$
```

```
MINGW64:/c/Users/aarya/Documents/Git_Assignment
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git merge branch-a
Auto-merging conflict.txt
CONFLICT (content): Merge conflict in conflict.txt.
Automatic merge failed; fix conflicts and then commit the result.
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)MERGING
$ code conflict.txt
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)MERGING
$ |
```

The screenshot shows a code editor window with a dark theme. The title bar reads "File Edit Selection View Go Run Terminal Help". A status bar at the bottom indicates "Ln 1, Col 1 Spaces: 4 UTF-8 CRLF {} Plain Text ⚙️ ✓ Prettier". A tooltip in the center says "You have Docker installed on your system. Do you want to install the recommended extensions from Microsoft for it?".

The main content area displays the following text:

```
C:> Users > aarya > Documents > Git_Assignment > conflict.txt
1 <<<< HEAD (Current Change)
2 Conflicting line from master
3 =====
4 This line is from branch-a.
5 >>>> branch-a (Incoming Change)
6
```

The screenshot shows a code editor window with a dark theme. The title bar reads "File Edit Selection View Go Run Terminal Help". A status bar at the bottom indicates "Ln 1, Col 40 Spaces: 4 UTF-8 CRLF {} Plain Text ⚙️ ✓ Prettier". A tooltip in the center says "You have Docker installed on your system. Do you want to install the recommended extensions from Microsoft for it?".

The main content area displays the following text:

```
C:> Users > aarya > Documents > Git_Assignment > conflict.txt
1 Final version after resolving conflict.]
```

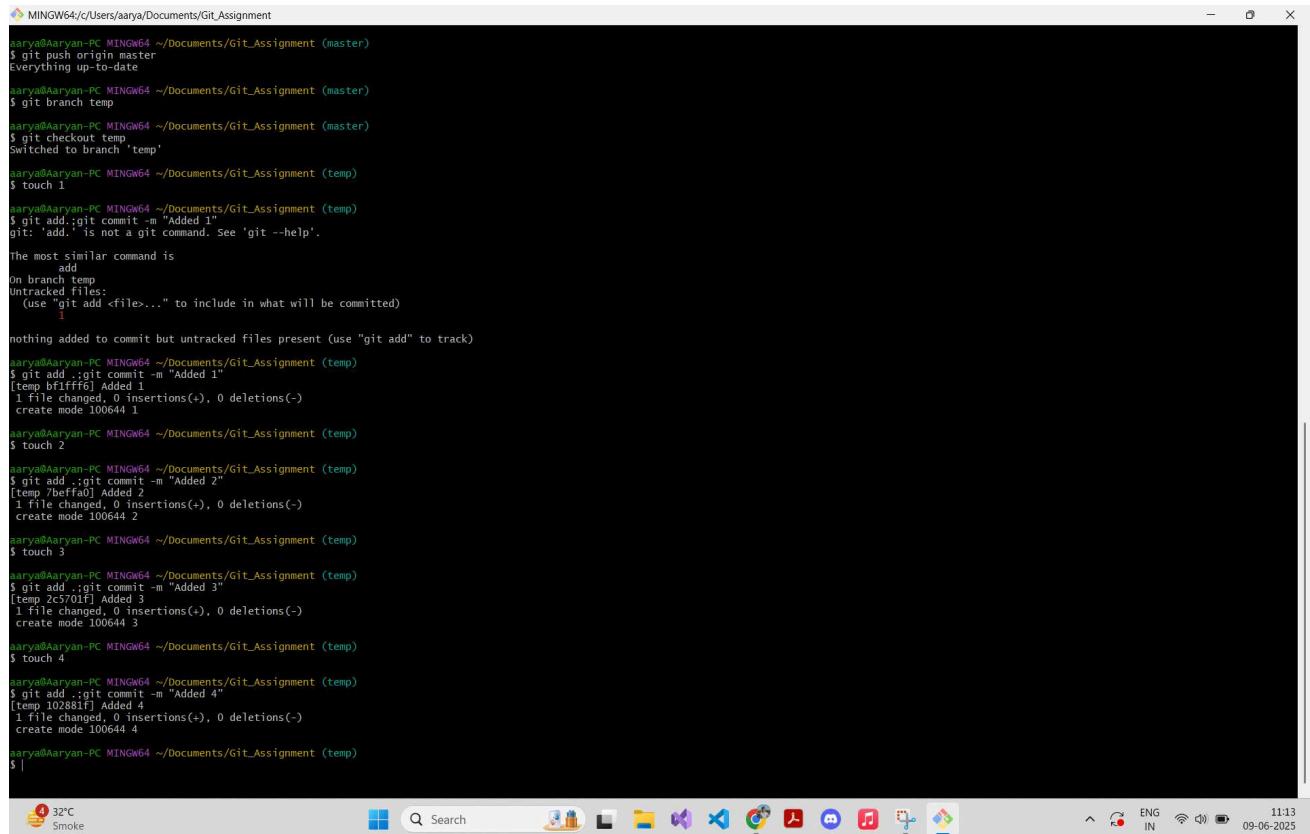
```
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master|MERGING)
$ git add conflict.txt
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master|MERGING)
$ git commit -m "Resolved merge conflict between master branch and branch-a."
[master c5283da] Resolved merge conflict between master branch and branch-a.
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git push origin master
Enumerating objects: 13, done.
Counting objects: 100% (13/13), done.
Delta compression using up to 2 threads.
Compressing objects: 100% (8/8), done.
Writing objects: 100% (12/12) 1.21 KiB | 248.00 KiB/s, done.
Total 12 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/aaryan003/Github-Assignment.git
 b923630..c5283da master -> master
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git branch
  branch-a
  feature-branch
* master
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git log --online --graph --all
fatal: unrecognized argument: --online
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git log --online --graph --all
[master c5283da] Resolved merge conflict between master branch and branch-a.
\ \* c5283da (HEAD -> master, origin/master) Resolved merge conflict between master branch and branch-a.
\ \* | 57711ad Edit conflict.txt in master branch.
\ \* |
\ \* a850f76 Added line from master
\ \* b923630 Removed feature.txt from remote repo
\ \* aa894d Merge pull request #1 from aaryan003/feature-branch
\ \* | c66a605 (origin/feature-branch, feature-branch) Added feature.txt in feature-branch
\ \* |
\ \* 9ee0c84 Refactor code.
\ \* 4826c48 Appended some text in hello.txt.
\ \* af94ff9 Initial Commit
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$
```

3 High UV  
Now



ENG IN 11:01 09-06-2025

## 11. Practice More git commands.



```
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment
$ git push origin master
Everything up-to-date

aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git branch temp
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (master)
$ git checkout temp
Switched to branch 'temp'

aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (temp)
$ touch 1
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (temp)
$ git add .git commit -m "Added 1"
git: 'add.' is not a git command. See 'git --help'.
The most similar command is
    add
On branch temp
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    1

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

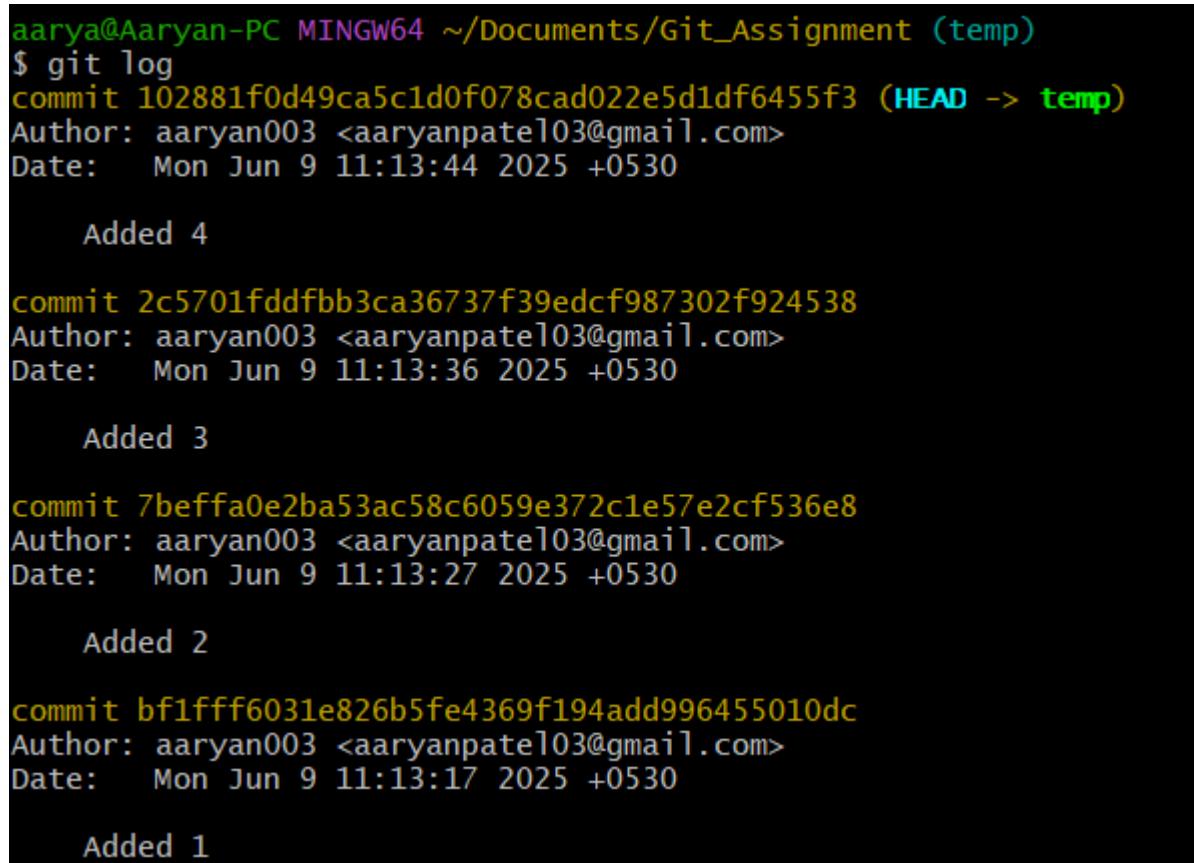
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (temp)
$ git add .git commit -m "Added 1"
[temp bf1fff6] Added 1
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 1

aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (temp)
$ touch 2
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (temp)
$ git add .git commit -m "Added 2"
[temp 7beffa0] Added 2
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 2

aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (temp)
$ touch 3
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (temp)
$ git add .git commit -m "Added 3"
[temp 2c5701f] Added 3
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 3

aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (temp)
$ touch 4
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (temp)
$ git add .git commit -m "Added 4"
[temp 102881f] Added 4
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 4

aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (temp)
$ |
```



```
aarya@Aryan-PC MINGW64 ~/Documents/Git_Assignment (temp)
$ git log
commit 102881f0d49ca5c1d0f078cad022e5d1df6455f3 (HEAD -> temp)
Author: aaryan003 <aaryanpatel03@gmail.com>
Date:   Mon Jun 9 11:13:44 2025 +0530

    Added 4

commit 2c5701fddfb3ca36737f39edcf987302f924538
Author: aaryan003 <aaryanpatel03@gmail.com>
Date:   Mon Jun 9 11:13:36 2025 +0530

    Added 3

commit 7beffa0e2ba53ac58c6059e372c1e57e2cf536e8
Author: aaryan003 <aaryanpatel03@gmail.com>
Date:   Mon Jun 9 11:13:27 2025 +0530

    Added 2

commit bf1fff6031e826b5fe4369f194add996455010dc
Author: aaryan003 <aaryanpatel03@gmail.com>
Date:   Mon Jun 9 11:13:17 2025 +0530

    Added 1
```

```
aarya@Aaryan-PC MINGW64 ~ /Documents/Git_Assignment (temp)
$ git rebase -i c5283dahae93fachb31bb5efb19ccedb6c8a8495c
```

```
git-rebase-todo
```

C:\> Users > aarya > Documents > Git Assignment > .git > rebase-merge > git-rebase-todo

```
1 pick bf1ffff6 Added 1
2 pick 7befffa0 Added 2
3 pick 2c5701f Added 3
4 pick 102881f Added 4
5
6 # Rebase c5283da..102881f onto c5283da (4 commands)
7 #
8 # Commands:
9 # p, pick <commit> = use commit
10 # r, reword <commit> = use commit, but edit the commit message
11 # e, edit <commit> = use commit, but stop for amending
12 # s, squash <commit> = use commit, but meld into previous commit
13 # f, fixup [-C | -c] <commit> = like "squash" but keep only the previous
14 # commit's log message, unless -C is used, in which case
15 # keep only this commit's message; -c is same as -C but
16 # opens the editor
17 # x, exec <command> = run command (the rest of the line) using shell
18 # b, break = stop here ((continue rebase later with 'git rebase --continue')
19 # d, drop <commit> = remove commit
20 # l, label <label> = label current HEAD with a name
21 # t, reset <label> = reset HEAD to a label
22 # m, merge [-c <commit> | -c <commit>] <label> [# <oneline>]
23 #           create a merge commit using the original merge commit's
24 #           message (or the oneline, if no original merge commit was
25 #           specified); use -c <commit> to reword the commit message
26 # u, update-ref <ref> = track a placeholder for the <ref> to be updated
27 #           to this position in the new commits. The <ref> is
28 #           updated at the end of the rebase
29 #
30 # These lines can be re-ordered; they are executed from top to bottom.
31 #
32 # If you remove a line here THAT COMMIT WILL BE LOST.
33 #
34 # However, if you remove everything, the rebase will be aborted.
35 #
36
```

You have Docker installed on your system. Do you want to install the recommended extensions from Microsoft for it?

Install Show Recommendations

Ln 1, Col 1 Spaces: 4 UTF-8 LF {} Git Rebase Message ↻ ✓ Prettier ↻

32°C Smoke

Search

ENG IN 09-06-2025 11:18

A screenshot of a Windows desktop environment. In the foreground, a code editor window titled 'COMMIT\_EDITMSG' displays a multi-line commit message. The message includes several 'Added' entries, a 'Commits merged.' section, and a final set of changes. A status bar at the bottom of the code editor shows 'In 19, Col 1 (17 selected) Spaces: 4 UTF-8 LF'. To the right of the code editor, a small pop-up window from Microsoft offers to install Docker extensions. The system tray at the bottom shows icons for battery (32°C), network, and date/time (09-06-2025). The taskbar includes standard Windows icons like File Explorer, Edge, and File Explorer.

A screenshot of a terminal window titled 'MINGW64/c/Users/aarya/Documents/Git\_Assignment'. The terminal output shows a git rebase process. It starts with a rebase command, followed by a log of commits being applied. The log includes several 'Added' entries and a 'Commits merged.' section. After the merge, it shows a 'Resolved merge conflict between master branch and branch-a.' followed by a series of commits for branch-a, each with its author (aaryan003), date (Mon Jun 9 10:42:11 2025 +0530), and a brief description. One commit is noted as 'Edit conflict.txt in master branch.'. The terminal ends with a 'Merge pull request #1 from aaryan003/feature-branch' command. The system tray at the bottom shows icons for battery (32°C), network, and date/time (09-06-2025). The taskbar includes standard Windows icons like File Explorer, Edge, and File Explorer.

```
MINGW64/c/Users/aarya/Documents/Git_Assignment
aarya@aaryan-PC MINGW64 ~/Documents/Git_Assignment (temp)
$ git status
On branch temp
nothing to commit, working tree clean
aarya@aaryan-PC MINGW64 ~/Documents/Git_Assignment (temp)
$ git reset --hard c5283dbae93facb31bb5efb19ccedbd6c8a8495c
HEAD is now at c5283da Resolved merge conflict between master branch and branch-a.
aarya@aaryan-PC MINGW64 ~/Documents/Git_Assignment (temp)
$ git log
commit c5283dbae93facb31bb5efb19ccedbd6c8a8495c (HEAD -> temp, origin/master, master)
Merge: 5771ad 62cac3
Author: aarya003 <aaryanpate103@gmail.com>
Date: Mon Jun 9 11:00:30 2025 +0530

    Resolved merge conflict between master branch and branch-a.

commit 5771ad27e029a0a9c2853952b4e86bc14a03a5
Author: aarya003 <aaryanpate103@gmail.com>
Date: Mon Jun 9 10:43:56 2025 +0530

    Edit conflict.txt in master branch.

commit 62cac30ee374017ff31d665485371df21e856971 (branch-a)
Author: aarya003 <aaryanpate103@gmail.com>
Date: Mon Jun 9 10:42:11 2025 +0530

    Edit conflict.txt in branch-a.

commit a850f76a73ac6ca116d9dcff91105fbeda540a3c
Author: aarya003 <aaryanpate103@gmail.com>
Date: Mon Jun 9 10:40:12 2025 +0530

    Added line from master

commit b923630403ada3667454273c852ef4f13210a863
Author: aarya003 <aaryanpate103@gmail.com>
Date: Mon Jun 9 10:30:41 2025 +0530

    Removed feature.txt from remote repo

commit aa7894def007e031b92143213ac263885eb6c548
Merge: 9ee0c84d c66a605
Author: aarya003 <9139954+aarya003@users.noreply.github.com>
Date: Mon Jun 9 10:26:27 2025 +0530

    Merge pull request #1 from aarya003/feature-branch

    Added feature.txt in feature-branch

commit c66a6056c44e3bcc9052c79bc9d630454898d26 (origin/feature-branch, feature-branch)
Author: aarya003 <aaryanpate103@gmail.com>
Date: Mon Jun 9 10:21:52 2025 +0530

    Added feature.txt in feature-branch

commit 9ee0c84ea32bd44123df1a5a8590e8a5d0e772
Author: aarya003 <aaryanpate103@gmail.com>
Date: Sun Jun 8 21:22:09 2025 +0530

    Refactor code.

commit 4826c48e39ab25a3ae88fc72a16e3807241dc6f8
```



11:24 ENG IN 09-06-2025