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Experiment 3:

• AIM: Implement Basic Commands of Linux like ls, cp, mv using Kernel APIs.

• THEORY:

- cp o Copies the file.
- $cp -r \rightarrow Copies recursively (directories).$
- $cp b \rightarrow Copies the backups of the destination file in the source folder.$
- $cp i \rightarrow Asks$ for confirmation before overwriting the destination file.
- $cp f \rightarrow Forces copying by deleting the destination file if necessary.$
- $cp v \rightarrow Enables verbose mode, showing which files are being copied.$
- cp -p → Preserves file attributes such as modification time, access time, owners, and permissions.

Syntax: cp -p source_file destination_file.

- $cp -l \rightarrow Creates a hard link file.$
- $mv \rightarrow Moves or renames a file.$
- $mv i \rightarrow Asks$ for confirmation before moving the file.
- $mv f \rightarrow Forces moving by deleting the destination file if necessary.$

Syntax: mv -f source_file destination_file.

 $mv - n \rightarrow Prevents overwriting an existing file.$

Syntax: mv -n source_file destination_file.

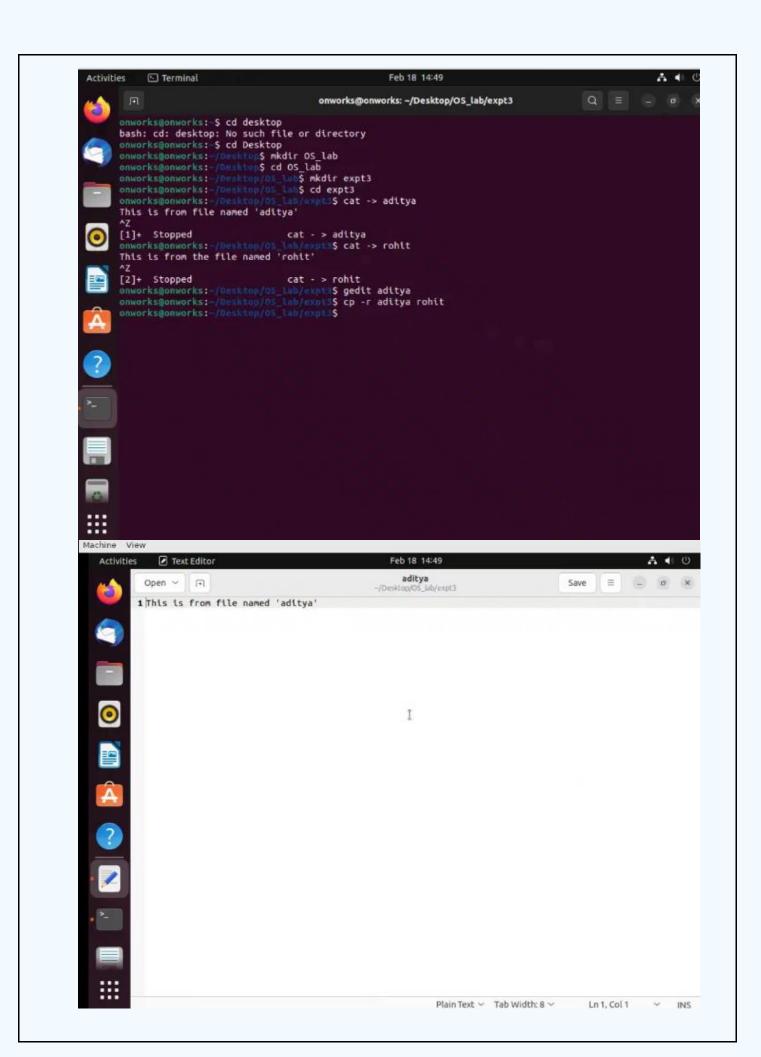
 $mv - b \rightarrow Takes a backup of an existing file.$

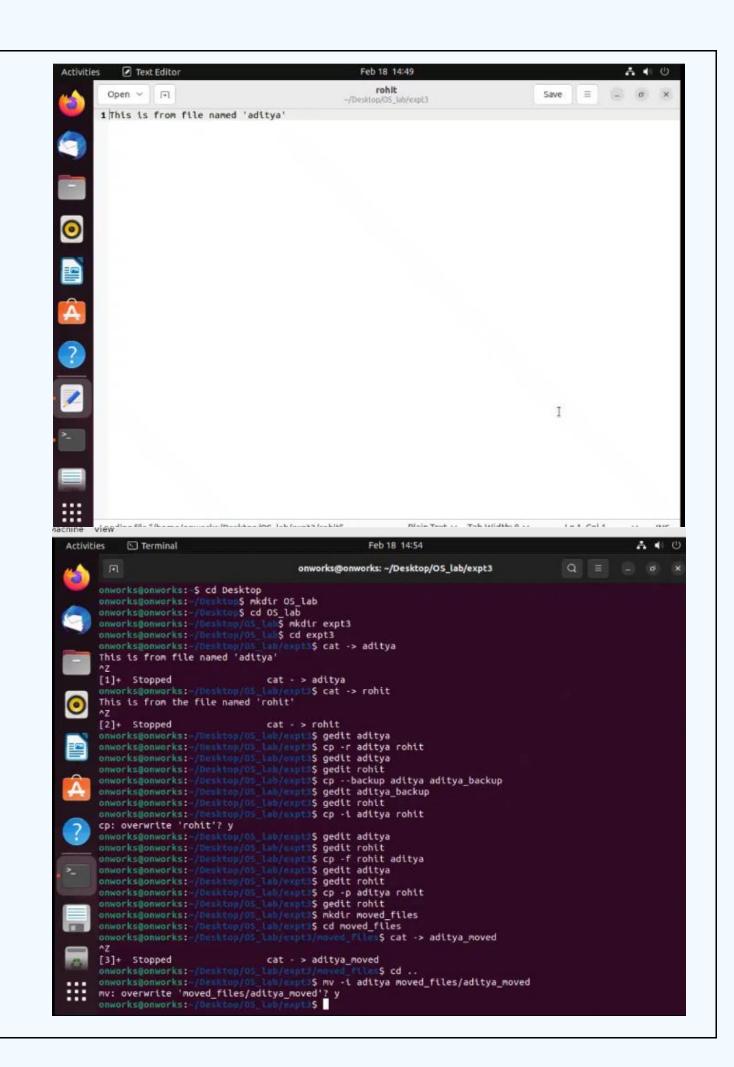
SCREENSHOTS: aditya -/Desktop/OS_lab/expt3 Open ~ F Save 1 This is from file named 'aditya'. I rohit Open ~ (F) Save \equiv ~/Desktop/OS_lab/expt3 1 This is from the file named 'rohit'.

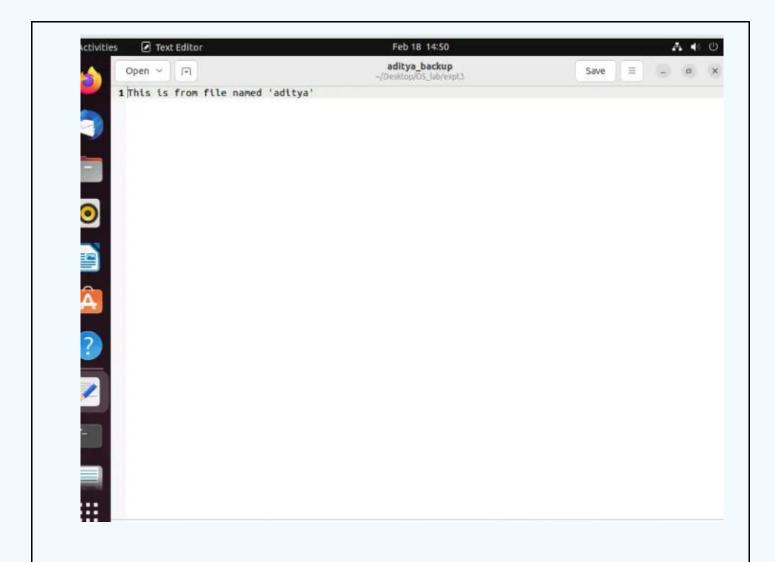
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• <u>CONCLUSION:</u> Thus, we have successfully studied and implemented various basic commands of Linux like ls, cp and mv using kernel APIs.