

OS EXPERIMENT 3

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

THEORY:

cp → cp - r → copies the file

cp - backups → It copies the backups of the destination file in the source folder.

cp - i → It asks for confirmation of the user whether yes or no and gives warning to

the user before overriding the destination file.

cp-ie.txt b.txt

cp -f → Unable to open destination file for writing because the user has not allowed the writing operation .By writing the command, the destination file is deleted and the content is copied from source to destination.

cp - v → it is used for which command is running in backup.

cp - p → It preserves the attributes of files such as last date modification time, time of last access owners and the file permissions.

Syntax : cp-p source file destination file.

cp - l → To create a hand link file

mv → (move or rename).

`mv -i` → Ask the user for confirmation before moving the file.

`mv -f` → It provides the protection and overrides destination file forcefully and deletes the source file.

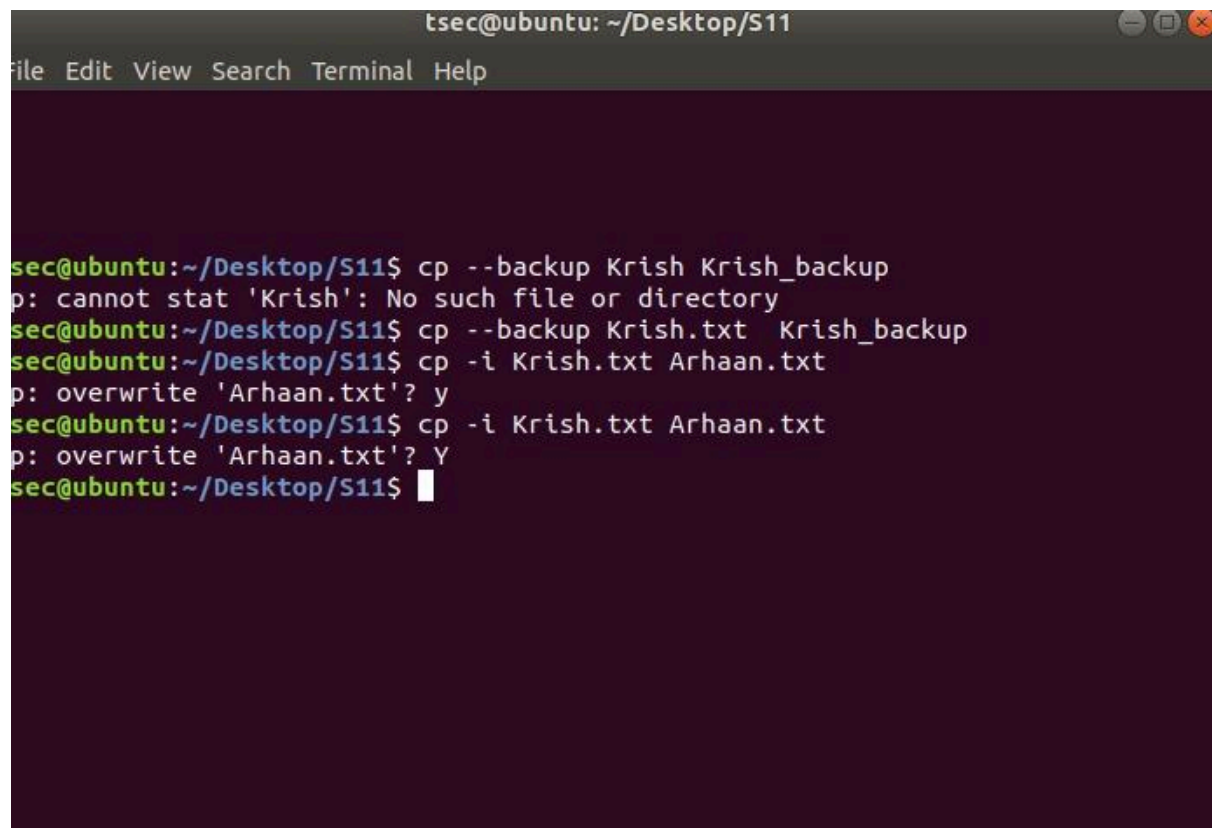
`mv -f a.txt b.txt`

`mv -n` → It takes/prevents the existing file from being overridden.

`mv -n a.txt b.txt`

`mv -b` → To take the backup of an existing file.
// source code

OUTPUT:

A terminal window titled 'tsec@ubuntu: ~/Desktop/S11' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the following commands and outputs:

```
tsec@ubuntu:~/Desktop/S11$ cp --backup Krish Krish_backup
cp: cannot stat 'Krish': No such file or directory
tsec@ubuntu:~/Desktop/S11$ cp --backup Krish.txt Krish_backup
tsec@ubuntu:~/Desktop/S11$ cp -i Krish.txt Arhaan.txt
cp: overwrite 'Arhaan.txt'? y
tsec@ubuntu:~/Desktop/S11$ cp -i Krish.txt Arhaan.txt
cp: overwrite 'Arhaan.txt'? Y
tsec@ubuntu:~/Desktop/S11$
```

CONCLUSION: Thus we have successfully studied and implemented various basic commands of Linux like `ls`, `cp` and `mv` using kernel APIs.