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Practical 1

AIM: Study of Basic commands of Linux.

1. pwd Command

The **pwd** command is used to display the location of the current working directory.

2. mkdir Command

The **mkdir** command is used to create a new directory under any directory.

3. rmdir Command

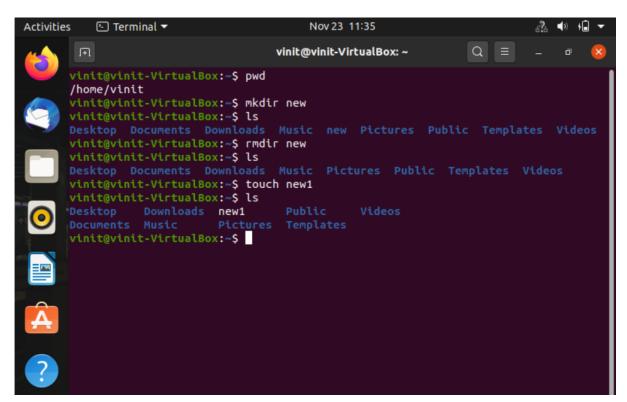
The **rmdir** command is used to delete a directory.

4. Is Command

The **Is** command is used to display a list of content of a directory.

5. touch Command

The **touch** command is used to create empty files. We can create multiple empty files by executing it once.



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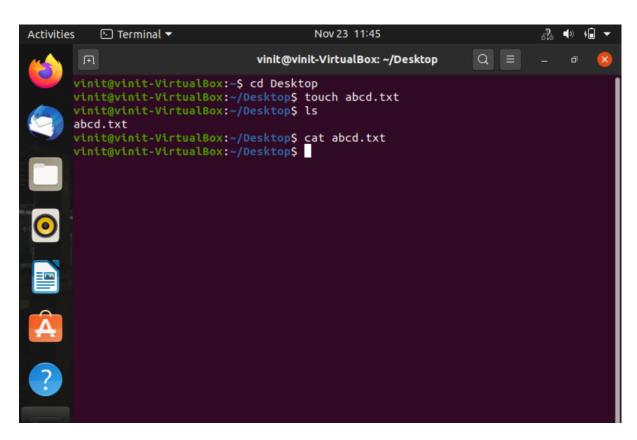
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6. cd Command

The **cd** command is used to change the current directory.

7. cat Command

The **cat** command is a multi-purpose utility in the Linux system. It can be used to create a file, display content of the file, copy the content of one file to another file, and more.



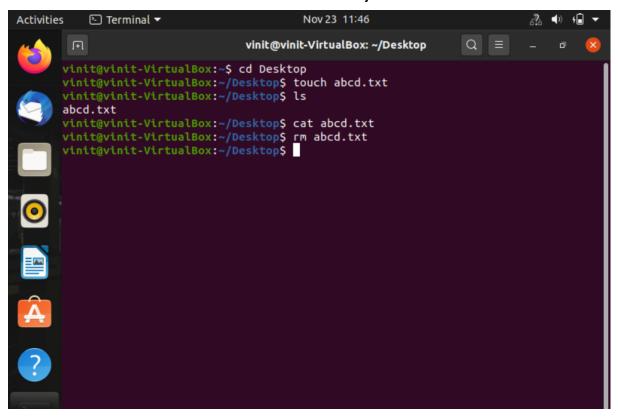
8. rm Command

The **rm** command is used to remove a file.



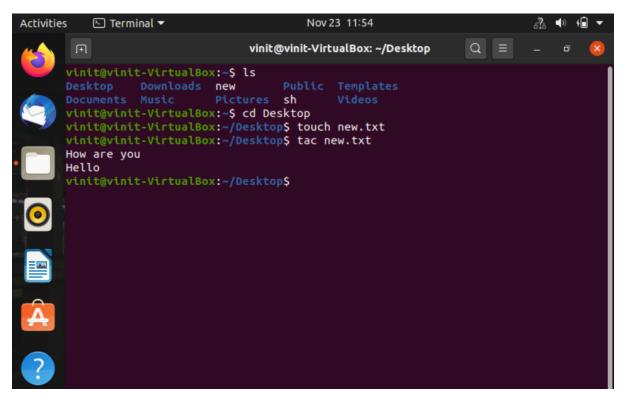
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9. tac Command

The **tac** command is the reverse of cat command, as its name specified. It displays the file content in reverse order (from the last line).



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10. more command

The **more** command is quite similar to the cat command, as it is used to display the file content in the same way that the cat command does. The only difference between both commands is that, in case of larger files, the more command displays screenful output at a time.

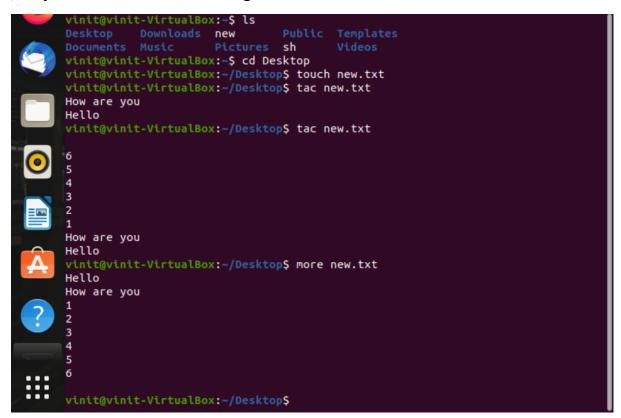
In more command, the following keys are used to scroll the page:

ENTER key: To scroll down page by line.

Space bar: To move to the next page.

b key : To move to the previous page.

/ **key** : To search the string.



11. head Command

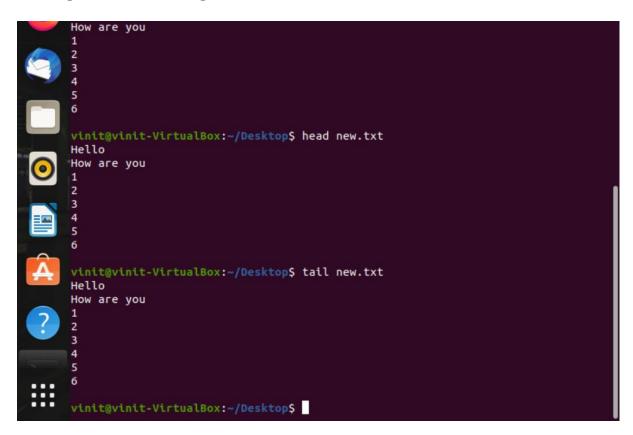
The **head** command is used to display the content of a file. It displays the first 10 lines of a file.

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12. tail Command

The **tail** command is similar to the head command. The difference between both commands is that it displays the last ten lines of the file content. It is useful for reading the error message.



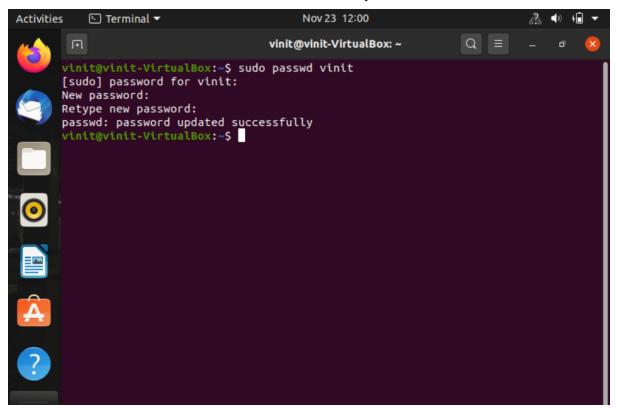
13. passwd Command

The **passwd** command is used to create and change the password for a user.



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14. id Command

The **id** command is used to display the user ID (UID) and group ID (GID).

15. su Command

The **su** command provides administrative access to another user. In other words, it allows access of the Linux shell to another user.

16. less Command

The **less** command is similar to the more command. It also includes some extra features such as 'adjustment in width and height of the terminal.'

Comparatively, the more command cuts the output in the width of the terminal.

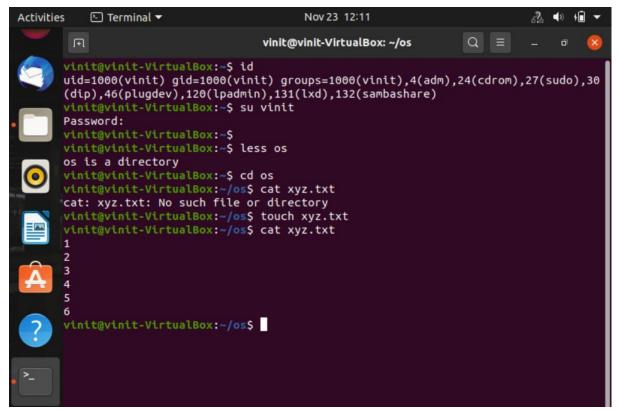
17. cp Command

The **cp** command is used to copy a file or directory.



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Practical 2

AIM: Study basics of shell programming.

SHELL SCRIPT

A shell script is a text file that contains a sequence of commands for a UNIX-based operating system. It is called a shell script because it combines a sequence of commands, that would otherwise have to be typed into the keyboard one at a time, into a single script.

Types of script

- The Bourne Shell
- The C Shell
- The Korn Shell
- The GNU Bourne-Again Shell

Create shell script files

create a file "file.sh". command for create file "cat > file.sh"

- **Echo** function is use for output the statement.
- Read function use for input the data.

There is 3 types to create file

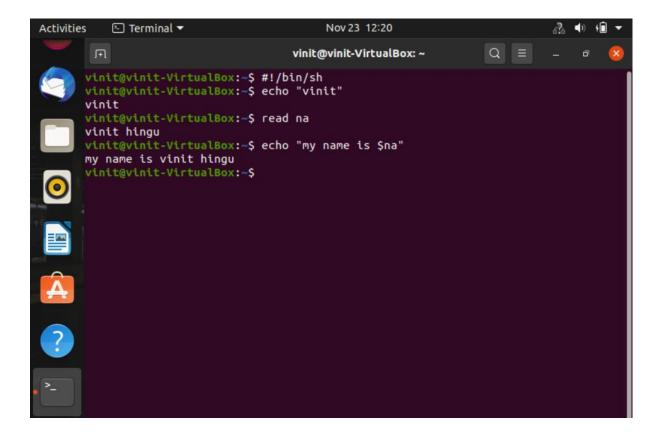
- 1. Touch
- 2. Cat command
- 3. Text editor



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Shell script example





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