

Assignment 1 : Write some 30 Linux commands.

Here are 30 Linux commands with examples:

1. **cd** - Change directory

Example: `cd /home/user/Documents`

2. **ls** - List files and directories

Example: `ls -l /home/user`

3. **mkdir** - Make a new directory

Example: `mkdir /home/user/NewFolder`

4. **rm** - Remove a file or directory

Example: `rm /home/user/oldfile.txt`

5. **cp** - Copy a file

Example: `cp /home/user/file.txt /home/user/Documents`

6. **mv** - Move or rename a file

Example: `mv /home/user/file.txt /home/user/Documents/newfile.txt`

7. **touch** - Create a new empty file

Example: `touch /home/user/newfile.txt`

8. **echo** - Output text to the screen

Example: `echo "Hello World!"`

9. **cat** - Concatenate and display files

Example: `cat /home/user/file.txt`

10. **grep** - Search for a pattern in a file

Example: `grep "keyword" /home/user/file.txt`

11. **find** - Search for files based on criteria

Example: `find /home/user -name "file.txt"`

12. **chmod** - Change file permissions

Example: `chmod 755 /home/user/file.txt`

13. **chown** - Change file ownership

Example: `chown user:user /home/user/file.txt`

14. **ssh** - Connect to a remote server

Example: `ssh user@remote-server`

15. **scp** - Securely copy files between hosts

Example: `scp user@remote-server:/home/user/file.txt /home/user`

16. **sudo** - Run a command with superuser privileges

Example: `sudo apt-get install firefox`

17. **apt-get** - Manage packages on Debian-based systems

Example: `apt-get install firefox`

18. **yum** - Manage packages on Red Hat-based systems

Example: `yum install firefox`

19. **pip** - Manage Python packages

Example: `pip install requests`

20. **service** - Manage system services

Example: `service apache2 start`

21. **systemctl** - Manage system services (systemd)

Example: `systemctl start httpd`

22. **ps** - Display running processes

Example: `ps -ef | grep firefox`

23. **kill** - Terminate a process

Example: `kill 1234`

24. **df** - Display disk usage

Example: `df -h /home/user`

25. **du** - Estimate disk usage

Example: `du -sh /home/user`

26. **free** - Display memory and swap usage

Example: `free -m`

27. **uptime** - Display system uptime

Example: `uptime`

28. **whoami** - Display the current user

Example: `whoami`

29. **hostname** - Display the system's hostname

Example: `hostname`

30. **man** - Display the manual for a command or function

Example: `man ls`