**Essential Linux commands:**

**1)File operations:**

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| **ls** | lists all the files and directories in the pwd |
| **ls -R** | lists file in sub directories as well |
| **Ls -a** | Shows hidden files |
| **Ls -al** | lists files and directories with detailed information like permissions, size, owner |
| **cd <directory name>** | change directories |
| **cd ..** |  |
| **pwd** | Present working directory |
| **cat > filename** | Creates new file(to save enter ctrl+d |
| **cat filename** | Displays file contents |
| **Cat file 1 file2 > file3** | Joins two files file1 and file 2. Stores output in a new file 3 |
| **touch filename** | Create a new empty file |
| **touch file1 file2 file3...** | Create multiple files at once |
| **touch /home/kali/Documents/notes.txt** | Create a file in a specific directory |
| **rm filename** | Deleted a file |
| **cp source destination** | Copies a file |
| **mv source destination** | Moves a file |
| **find / -name filename** | Finds a file or a directory by its name starting from root(after getting output try open it using cat or nano commands) |
| **file filename** | Determines the file type |
| **less filename** | View the page content |
| **head filename** | Views the first ten lines of a file |
| **tail filename** | Views the last ten lines of a file |
| **lsof** | Shows which files opened by which process |
| **du -h –max-depth=1** | Shows the size of each directory |
| **sudo fdisk -l** | Disk partition manipulation command (Disk partitioning helps in **protecting, analysing, recovering, and managing** data) |

**2)Directory operations:**

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| **mkdir directoryname** | Creates a new directory in pwd |
| **rmdir directoryname** | Deletes a directory |
| **cp -r source destination** | Copies directories recursively |
| **mv olddir newdir** | Rename directories |
| **find / -type d -name directoryname** | Finds a directory starting from root |