#### PROCEDURE:

#### 1. Basic Linux Commands

- \$ cd : Change directory.

- \$ ls: List directory contents.

- \$ pwd : Print working directory.

- \$ cp : Copy files and directories.

- \$ mv : Move/rename files and directories.

- \$ rm -rf: Remove files and directories.

- \$ chmod : Change file permissions.

- \$ cat : Display file content.

- \$ grep : Search text patterns in files.

- \$ vim / -\$ nano : Terminal based text editor.

- \$ apt / -\$ pacman : Package management commands for installing, updating, and removing software packages.



## 2. Proc File System Commands

'/proc': Directory containing system information.

- \$ cat /proc/cpuinfo : Display CPU information.

- \$ cat /proc/meminfo : Display memory information.

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#### 3. Disk I/O Commands

- \$ iostat : Display CPU and input/output statistics.
- \$ iotop : Monitor I/O usage in real-time.

- \$ dd : Data duplicator for low-level copying and conversion of files. - \$ hdparm : Get/set hard disk parameters,

avg-cpu: Device	Nuser 9.15	OK-XZ-SLIM: S iostat eneric (jeeva-INBOOK-XZ-SLIM) 27/82/24 %nice %system %iowait %steal %idle				_x86_64_	(4 CPU)	
oope oopi oopid		tps 0.02 0.03 0.18	kB_read/s ©.85 0.84	kB_wrtn/s	kB_dscd/s	k8_read	kB_wrtn	kB_dscd
00p11 00p12 00p13 00p14		0.5¢ 1.49 0.08	0.83 8.32 54.58 8.75	0.05 0.69 0.00	6.00 6.46 . 0.00 9.00	27 348 3592 22961		
0002 0003 0004		0.12 1.07	0.10 0.05 14.10	0.60 0.60 0.60 0.60	0,50 0.461 0.00	314 48 352		
00p5 00p6 00p7		0.23 0.24 0.24 5.05	2,57 2,69 2,63	0.65 9.66	9-159 6-159 6-169	3932 8089 1356 1200		
oepā oop9 Vmeāni						1256 1256 1256		

### 4. Buffer Cache Commands

- \$ sync : Synchronize cached writes to disk.
- \$ vmstat : Report virtual memory statistics.
- \$ free : Display amount of free and used memory in the system.

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procs -----to----
r b swpd free buff cache si so bi bo in cs us sy id wa st
1 0 0 3860668 72376 2364764 0 0 316 289 469 754 6 2 89 3 0
jeeva@jeeva-INBOOK-X2-SLIM: $ sync
jeeva@jeeva-INBOOK-X2-SLIM: $ free
                total
7861880
                                    used
                                                    free
                                                                 shared buff/cache
                                                                                            available
                                1514844
                                                3941176
                                                                 436476
                                                                               2405760
                                                                                               5635872
                2097148
```

# 5. Disk Monitoring Tool Commands

- \$ vmstat : Report virtual memory statistics.

- \$ htop: Interactive process viewer.



Result:
Thus we have successfully rearns the basic
linux commands and system component.