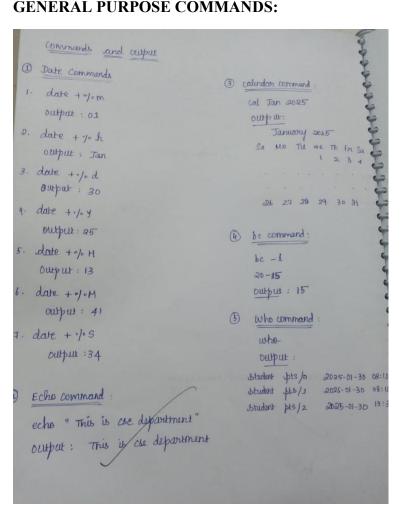
# **OPERATING SYSTEM - CS23431**

## **EXP 1(B)**

#### **BASIC LINUX COMMANDS**

NAME: S.G.LOGAPRIYA ROLL NO: 230701164

#### **GENERAL PURPOSE COMMANDS:**



```
1 who am i command:
     who am i
      Output: Student pts/3 2025-01-38 13:36
1 id command
      id
      output :
    evid = 1000 (strudent) gid = 1000 (strudent) groups = 1000 (strukent)
content = unconfined - u : unconfined - n : unconfined - t : co-so : co-so : co-so es
 (3) - Peletype command :
     output: /dox/pts/3
(9) clean command.
      dean
     output: console screen is cleared
(1) Man command:
      man who
      output: Name who - show who is logged on .....
(1) Passess Status command:
     J28
      output:
      PID TRY TIME CHO
     2627 pre/3 00:00 bash
     2846 - 25/3 00:00:00 $5
     ps-e
```

#### **DIRECTORY COMMANDS:**

```
(3) Directory commands:

(4) pud (prust working directory)

(5) subject: /home/student

(5) middin crossed

(6) output: New directory crossed created

(7) couput: Housed to "crossed" directory

(8) ls

(9) couput: file 1

(8) ls -1

(9) couput: house 4

(10) rw-rw-r-, & student student 24 tan 30 14:15 files

(8) ls -a

(9) couput: . . . files
```

#### FILE HANDLING COMMANDS:

```
7. Irondin cse 169
   output: ramous the directory cself4
  File hardling commands:
1. cat > file 1
  " This is ese department"
 entpute: file 'file1' is created
2. cat file 1
  output: This is ese department
3. cp files files
    output: copies file: to file?
4. Im files
    output: removes first
5. mv file1 filez
     output: moves file 1 to file 2
6. file files
    output: ASCII teat
7. wc file1
     output: 1 4 24 files
```

8. lb > files

outer: Direct dist of files to files

4. who | wc-1 cutput: 28

to. coho | tex files | we-1

11. le ge

12. les [a-m]\*
Output: file 1

13. ls [1a-m]\*
output: Student

14. B out - l output: total 8

-x -x-x-. 1 (18164 (18164 24 Feb 1 18:50 file 1 -xux-x--x- ) 280 kg (18864 1830 Feb 1 18:04 Student

#### **GROUPING COMMANDS:**

```
13) chrond -nex files
                                                                         output: Restricts read, write a execute command access to
               files
16) chmod + siwx files
     output: Gives read, write a execute access to file 1
  Grouping commands;
n who; date
   Output:
   01001 Hy2 2026-02-01 13:35 (tty)

thelet pts/s 2025-02-61 13:39 (172.16.52.161)

Cos 192 pts/2 2025-02-01 13:39 (172.16.52.173)
   Saturday of February 2025 01:55:12 PM IST
23 who 22 date
     Output
      root ty2 2025-082-01 13:35 (tty)
       Chelli pist 2025-02-01 13:39 (122.16.52.161)
                      2025-62-01 13:39 (172.16.52.173)
      Saturday of February 2025 01:55:12 PMJST
```

### **FILTER COMMANDS:**

```
to 11 adus (6
3) date 11 who
   Bullput :
     Saturday of February 2025 01:55:29 PM IST
 Filter commands :
is head file 1
   output: This is use department
2) Unil file 1
output: This is use department
3) grap " Use" student
    Dutput: Arun ese
Ram ese
Ram ese
4) sort student
    output: Arun use
              Ram use
              Ram cho
 5) sort - in student /
    output: Raph Use
               Atrun cse
```

```
b) Lort -n Student

Dutput: Perum use

Ram use

7) Sort -m Student

Dutput: Poun use

Ram use

8) Lort -u Student

Output: Arun use

Ram use

9) In student

Dutput: 1. Arun use

2. Ram use

3. Ram use

3. Ram use

where the student

Output: 1. Arun use

Ram use
```

#### **OTHER COMMANDS:**

```
other essential commands
1) free command:
 (is free who
    output :
                                 free shared boys/cache
             total
                       used
   Mam: 16092656 1702248 16948764 277464 3541644
                       0 9398604
   Swap: 8338604
                                               available
                                               13810116
 cis free - h
     output:
  total
                                    shared buff/cache
                    used
                               pre
 mem: 1500
                   1.600
                               1000
                                      ZHOMÍ
                                                 3.400
 Sump: 8.060
                    OB
                               8.00u
                                                available
                                                  13 Ori
2) top
   output:
   top -14:37:03 up 1:03, 26 Mbers, Ivad average: 0.06,0.02,000
  Tasks: 468 total, a nunning, 486 sleeping, a stopped, o zombie
  1/0 cpu ($): 0.0 ub, 0.0 sy, 0.0 nd, 99.9 id, 0.0 um, 0.0 hl, 0.0 sl
   MiB Mem: 15715.5 total, 10332.0 free, 1920.9 used
```

MiB Swap , 8192.0 total , 8192.0 pra , 0.0 used

PID WEN PR NI NIRT RES SMRS %-CPU %, MEM 8247 Che164 20 0 226784 4608 3455 R 0.3 0.0

```
3) Vmstat
   output :
  proces ---- memory ---- swaf --- io --- system-
    on b sight free buff eache si so be be in as us sy
                                         id wa st
    1 0 . 0 10575300 5060 3652196 0 0 40 23 40 43 0 0
                                          99 10
4) of
  output:
  Filesystem 1K-blocks Used Available Use of Mounted on
                                            1 dev
  deveripts 4096
                              4096
             8046328
                       0 8046328 0% (dev) 3hm
   tmple
   tropps
            32/8532 2332 32/6200 1·/0 / hun
5) ping 172.16.4.1
   மயும் :
  PING 172.16.4.1 (172.16.4.1) 56(84) bytes of data.
   64 bytes from 172.16.41: runp- seq=1 ttl=64 time=0.272 ms
   64 bytes from 172.16-4.1: icmp_seq=2 ttl=64 time=0.350 ms
```

7. Jundin che 164 output: rancus the directory cself4 File handling commands: 1. cat > file 2 " This is are department" Dutpute: File 'file1' is created 2. cat file 1 output: This is ese department 3. cp files files output: copies file: to file? 4. Im files output: removes file 1 5. mu gilet filez output: noves jilet to file 2 6. file file 1 output: ASCII teat super: 1 4 24 files