OPERATING SYSTEM - CS23431

EXP 1(B)

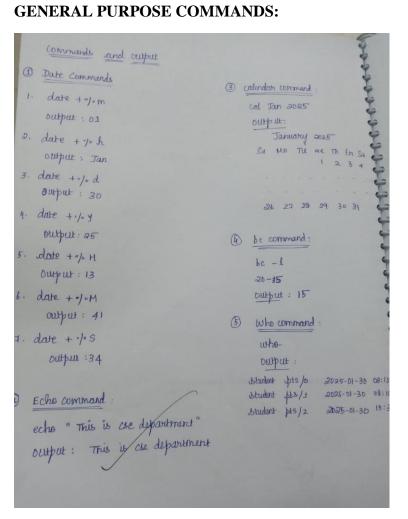
BASIC LINUX COMMANDS

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GENERAL PURPOSE COMMANDS:



```
1 who am i command:
     who am i
     output: Student pts/3 2025-01-30 13:36
(1) id command
     id
     output :
    uid=1000/studera) gid=1000 (studera) groups=1000/strukera)
context= unconfined-u: unconfined-r: unconfined-t: So-So: co.closs
(8) Beetype command:
     output: /don/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) Papers Status command:
     Jp8
     output:
     PID TRY TIME CHO
     2627 pre/3 08:00:00 bash
     2846 pts/3 00:00:00 ps
     ps-e
```

DIRECTORY COMMANDS:

```
(3) Directory commands:

(4) purple working directory output: /home / student

(5) mindin crossed output: New directory crossed created

(6) ed crossed output: Housed to "crossed" directory

(6) ls

(7) coutput: file 1

(8) ls -1

(9) coutput: land 4

(10) -no-no-n-, & student student 24 tan 30 14:15 files

(8) ls -a

(9) coutput: . . . files
```

FILE HANDLING COMMANDS:

```
7. Indir che 164
   output: removes the directory esers
  File hardling commands:
1. cat > file 1
  " This is ese department"
 entpute: File 'file1' is created
2. cat file 1
  output: This is use department
3. cp files files
    output: copies file 1 to gile 2
4. In files
    output: removes files
5. mv file 1 filez
     surpilt: moves file 1 to file 2
6. file file 1
    output : ASCII teat
7. wc file1
     output: 1 4 2 4 files
```

8. lb > files of files to files

4. who | wc-1 cutput: 28

to. cake | tex files | we -1

11. le g.

12. les [a-m]*

Output: file:

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

14. ls our-l output: total 8

-x-x-x-1 (32164 (32164 24 Feb 1 13:50 file1 -xu-x-x-) 260164 (32164 1530 Feb 1 14:04 Student

GROUPING COMMANDS:

```
15) chrond -nux files
                                                              output: Restricts read, write a execute command access to
            files
16) chomod + siwx files
    output: Gives read, write a execute access to file 1
 Grouping commands;
n who; date
   Output:
  suppl Hy 2 2025-02-01 13:35 (tty)
   thelb1 pts/1 2025-02-61 13:39 (172.16.52.161)
   Challe p15/2 2025-02-01 13:39 (172.16.52.173)
   Saturday of February 2025 01:55:12 PM IST
2) who 22 date
     Output
     root thy 2 2025-02201 13:35 (tty)
      Chelle pts/1 2025-02-01 13:39 (127.16.52.161)
                   2025-62-01 13:39 (172.16.52.173)
     Saturday of February 2025 01:55:12 PMIST
```

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) tail file 1
   output: This is use department
3) grep "ese" student
    Dutput: Arun ese
Ram ese
Ram ese
4) Sort Student
   output: Arun use
              Ram use
              Ram cho
5) sort - or student
    output: Raph use
               Atun cse
```

```
6) sort -n student
   output: Forum use
            Ram use
             Ram use
7) Sørt -m student
   output: Arun use
           Ram ese
            Ram use
8) sort -u student
   output: Avun use
            Ram use
9) rl student
    output: 1. Arun ese
           2. Ram Wse
            3. Ran cse
10) cut -c 1-3 student
    output: Aru
              Ram
              Ram
```

OTHER COMMANDS:

```
other essential commands:
 1) free command:
 (is free sols
     output:
                     used free shared boys/each
            total
    Mam: 16092656 1702248 10948764 277464 3541644
    Stup: 8338604 0 9388604
                                              available
                                              13810116
 cis free - h
    output:
   total
                   used
                              bree shared buff/cache
 mem: 150 û
                                               3.400
                  1.60u
                                     270Mi
                              1000
 Suap: 8.060
                  OB
                             8.00u
                                               available
                                                13 Ori
2) top
   output:
   top -14:37:03 up 1:03, 26 Mbers, Isad awage: 0.06,0.02,000
  Tasks: 468 total, a nurning, 486 sleeping, a stopped, o zombie
  1/0 Cqu ($): 0.0 us, 0.0 sy, 0.0 ni, 99.9 id, 0.0 us, 0.0 hi, 0.0 si
   MiB Mem: 15715.5 total, 10332.0 free, 1820.9 used
  MiB Swap, 8192.0 total, 8192.0 fra, 0.0 used
      PID WEN PR NI NIRT RES SPIRS % OPD % MEM
       8247 Chalby 20 0 226784 4668 3455 R 0.3 0.0
```

```
3) Vmstat
   output :
  proce ----- memory ----- swap --- io --- system -
    on b sight free buff cache si so be bo in as us eg
                                        id wa st
    1 0 . 0 10575100 5060 3652196 0 0 40 23 40 43 0 0
                                         99 10
4) of
  output:
  Filesystem 1K-blocks used Available Use-1. Mounted on
  developps 4096
                                           /dev
                       0 4096
                                     0.1.
            8046328
                       0 8046328 0% (dev) shim
   tmpps
   tropps
            32/8532 2332 32/6200 11/0 /nun
5) ping 172.16.4.1
   output :
  PING 172.16.4.1 (172.16.4.1) 56(84) bytes of data.
   64 bytes from 17216.41: runp seq=1 ttl=64 time=0.272 ms
   24 bytes from 172.16.4.1: icmp_sig=2 ttl=64 time=0.350 ms
```

7. Fradir cse 164 output: rancus the directory coeleq File handling commands: 1. cat > file 1 " This is ase department" Durpute: File 'files' is created 2. cat file 1 output: This is use department 3. cp files files output: copies file: to file2 4. In files output: removes firs 5. mv gilet filez output: noves filet to file 2 6. file files output : ASCII teat output: 1 4 24 files