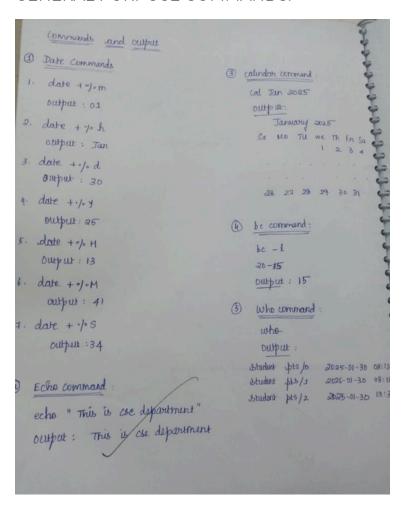
OPERATING SYSTEM - CS23431 EXP 1 BASIC LINUX COMMANDS

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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 :
   content = unconfined - u : unconfined - n: unconfined -t: so-so:co.co.es
(3) Pertype command:
     output: /dox/pts/3
(9) clean command
     clean
    output: console screen is cleared
(1) Nan command:
     man who
     output: Name who - show who is logged on .....
(1) Paous Status command:
     48
     output:
     PID TTY THE CHO
    2627 pre/3 000000 bash
    2846 - 15/3 00:00:00 /5
    ps-e
```

```
Uname commends:

1. uname -m
output: 1886
2. uname -n
output: leathest localdomain
3. uname -n
output: leathest localdomain
4. uname -b
output: livua
5. uname -y
output: #1 SMF Thu In 20 20:38: 20 UTC 2017
b. uname -a
Durput: linua localdom localdomain 4:18-320/2 Re. 1886 IPAE #1 SMF Thu
Jun 29 20:33: 21 UTC 2017 (886 IBSE 1886 AND) Linuax
```

DIRECTORY COMMANDS:

```
(3) Directory commands:

(4) pud (print working directory)

output: /home) studiest

(5) middin crassed

(6) output: New directory crosse created

(7) output: Housed to "escise" directory

(8) ls

output: file 1

(8) output: file 1

(9) output: Asked a

output: Asked a

output: Asked a

output: New-rw-r-, & student student 24 tim 30 14:15 files

(9) b - a

output: . . . files
```

FILE HANDLING COMMANDS:

```
7. Findir csa169
   output: ramous the directory cself4
  File hardling commands:
1. cat > file 2
  " This is ase department"
eurpube: file 'files' is created
2. cat file 1
  output: This is use department
3. cp files files
   output: which file: to file?
4. Im files
    output: removes fire
5. rw files filez
     output: moves file 1 to file 2
6. file files
    output : ASCII teat
7. wc files
    output: 1 4 24 files
```

8. lb 7 files

output: Disab List of files to files

10. who | ten files | we-1

output: 28

11. lb f*

output: files

12. lb [a-m]*

output: files

13. lb [1a-m]*

output: Student

14. lb +w-1

output: total 8

-x-x-x- 3 thereof charres 24 Feb 1 78:30 files

-xu-x-x- 3 thereof charres 250 Feb 1 78:30 files

GROUPING COMMANDS:

```
15) chrond -nex files
                                                                    output: Restricts read, write a execute command access to
16) chomod + siwx files
    output: Gives read, write a execute access to file ?
 Grouping commands;
n who; date
   Output:
   orbot Hy 2 2026-02-01 13:35 (tty)
  Challe pts/1 2025-02-01 13:39 (172.16.52.161)
Challe pts/2 2025-02-01 13:39 (172.16.52.173)
   Saturday of February 2025 01:55:12 PM IST
2) who 22 date
     Output
            tty2 2025-087-01 13:35 (tty)
      rust
      Charles plays 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 PM JST
```

FILTER COMMANDS:

```
to H adu (6
3) date 11 who
   Output :
     Saturday of February 2025 81:55:29 PM IST
 Filter commands :
is head file 1
   output: This is use department
2) Ital file 1
output: This is use department
3) grap " Use" student
    Dutput: Arun ese Ram ese
4) Sort Student
    output: Arun use
              Ram use
              Ram cho
5) sort - restudent
    output: Raph ise
               Arun use
```

```
6) Lord -n Student

Output: Firum use

Ram use

7) Sort -m Student

Output: Arun use

Ram use

8) Lord -u Student

output: Arun use

Ram use

9) no student

Output: 1. Arun use
2. Ram uso
3. Ram use

10) cut -c 1-3 Student

output: Arun

Ram

Ram
```

OTHER COMMANDS:

```
other essential commands
1) free command:
 (is free who
    output :
                               free shared boff/cache
                     used
           total
  Mam: 16092656 1702248 16948 764 277464 3541644
                      0 9398804
   Shap: 8388604
                                           available
                                           13810116
 cis free - h
    output:
                            free shared buff/cache
  total
                  used
 Mem: 1500
                 1.600
                            1000
                                   MOFE
                                             3.400
 Suap: 8.06ii
                  OB
                            8.00u
                                            available
                                              13 Ori
2) top
   output:
```

top -14:37:03 up 1:03, 26 lesers, load aurage: 0.06,0.02,000 Tasks: 468 total, a nunning, 486 sleeping, a stopped, o zombie 1/0 cpu (5): 0.0 ub, 0.0 sy, 0.0 nd, 99.9 id, 0.0 um, 0.0 hd, 0.0 st MiB Mem: 15715.5 Total, 10332.0 free, 1920.9 used MiB Swap, 8192.0 total, 8192.0 pra, 0.0 used PID ODER PR NI NIRT RES SMRS 9.0PU 1/2 MEM 8247 Chalby 20 0 226784 468 3455 R 0.3 0.0

```
3) Vmstat
   output :
  proces ----- memory ----- such --- io --- system -
    on b supel free buff eache si so be bo in as us eg
                                          id wa st
    1 0 . 0 10575300 5060 3652196 0 0 40 23 40 43 0 0
                                           99 10
4) df
  output :
  Filesystem 1K-blocks Used Available Use-1. Mounted 647
                                            1 dev
             4096
   devemply
                               4096
                                      0.1.
             8046328
                              8046328 0% (dev) 8hm
   tmple
   trapps
             32/8532 2332 32/6200 1./0 / Jun
5) ping 172.16.4.1
   ठाम् ।
  PING 172.16.4.1 (172.16.4.1) 56(94) bytes of data.
   64 bytes from 172/16.41: sump- seq=1 ttl=64 time=0.272 ms
   64 butes from 172.15.4.1: icmp_sig=2 ttl=64 time=0 350 ms
```

7. Jundin che 164 output: rancus the directory escua File handling commands: 1. cat > file 2 " This is are department" Durpute: File 'files' is created 2. car file 1 output: This is use department 3. cp files files output: copies file: to file2 4. rm files output: removes firs 5. mu giles files output: moves files to files 6. file files output : ASCII teat 7. wc file 1 output: 1 4 24 files