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Div – 2
Batch – S1
Mis no – 112103090
DTL Assignment 40 linux command

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tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ mkdir LINUX_COMMANDS
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ ls
a1.c          Assignment9.c  dsa.py        Public    Q5.c   Tejas_Mulange_112103090_assignment2        Tejas_Mulange_112103090_Assignment9.tar.xz
a.out         Desktop        LINUX_COMMANDS Q2.c     Q6.c   Tejas_Mulange_112103090_assignment2.tar     Templates
Assignment7.c  Documents      Music         Q3b.c    Q7.c   Tejas_Mulange_112103090_Assignment7.tar.xz  Videos
Assignment8.c  Downloads      Pictures      Q4.c     snap   Tejas_Mulange_112103090_Assignment8.tar.xz
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ cd LINUX_COMMANDS
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ ls
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ cd
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ cd dsa.py
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dsa.py$ ls
a1.c  a2.py  file1.txt  file2.txt  file3.txt  file4.txt  filemerge.txt  file.txt  filmerge.txt  Q1.c   tejas
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/dsa.py$ cd
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ cd LINUX_COMMANDS
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ touch file1.txt
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ ls
file1.txt
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ cat>file2.txt
Welcome to DTL.
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ ls
file1.txt  file2.txt
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ cat file2.txt
Welcome to DTL.
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ cat>file3.txt
I am learning linux commands.
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ cat file2.txt file3.txt>filemerge.txt
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ ls
file1.txt  file2.txt  file3.txt  filemerge.txt
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ ls *.txt
file1.txt  file2.txt  file3.txt  filemerge.txt
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ touch a.py
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ ls *.py
a.py
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ pwd
/home/tejasmulange64/LINUX_COMMANDS
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ cd
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ cd Templates
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/Templates$ pwd
/home/tejasmulange64/Templates
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/Templates$ cd
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ cd LINUX_COMMANDS
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ cd
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ pwd
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tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ cd LINUX_COMMANDS
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ cp file3.txt a.py
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ cat a.py
I am learning linux commands.
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ ls
a.py  file1.txt  file2.txt  file3.txt  filemerge.txt
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ cd
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ ls
a1.c          Assignment9.c  dsa.py        Public   Q5.c   Tejas_Mulange_112103090_assignment2       Tejas_Mulange_112103090_Assignment9.tar.xz
a.out         Desktop        LINUX_COMMANDS Q2.c     Q6.c   Tejas_Mulange_112103090_assignment2.tar   Templates
Assignment7.c Documents      Music         Q3b.c    Q7.c   Tejas_Mulange_112103090_Assignment7.tar.xz Videos
Assignment8.c Downloads      Pictures      Q4.c     snap   Tejas_Mulange_112103090_Assignment8.tar.xz
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ mv Assignment9.c /home/tejasmulange64/LINUX_COMMANDS
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ cd LINUX_COMMANDS
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ ls
a.py  Assignment9.c  file1.txt  file2.txt  file3.txt  filemerge.txt
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ touch file 4.txt
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ touch file4.txt
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ vi file4.txt
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ cat file4.txt
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
```

```
X
Y
Z
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ head file4.txt
A
B
C
D
E
F
G
H
I
J
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ tail file4.txt
S
T
U
V
W
X
Y
Z
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ cat file3.txt
I am learning linux commands.
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ tac file3.txt
I am learning linux commands.
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ cat filemerge.txt
Welcome to DTL.
I am learning linux commands.
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ tac filemerge.c
tac: failed to open 'filemerge.c' for reading: No such file or directory
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ tac filemerge.txt
I am learning linux commands.
Welcome to DTL.
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ id
uid=1000(tejasmulange64) gid=1000(tejasmulange64) groups=1000(tejasmulange64),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),122(lpadmin),134(lxd),135(sambasha
re)
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tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ cat file3.txt
I am learning linux commands.
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ grep linux commands file3.txt
grep: commands: No such file or directory
file3.txt:I am learning linux commands.
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ grep l file3.txt
I am learning linux commands.
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ cat file2.txt
Welcome to DTL.
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ cat file3.txt
I am learning linux commands.
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ diff file2.txt file3.txt
1c1
< Welcome to DTL.
---
> I am learning linux commands.
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ diff file2.txt filemerge.txt
1a2
> I am learning linux commands.
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ ping google.com
PING google.com (142.250.192.46) 56(84) bytes of data.
64 bytes from bom12s15-in-f14.1e100.net (142.250.192.46): icmp_seq=1 ttl=56 time=37.3 ms
64 bytes from bom12s15-in-f14.1e100.net (142.250.192.46): icmp_seq=2 ttl=56 time=9.52 ms
64 bytes from bom12s15-in-f14.1e100.net (142.250.192.46): icmp_seq=3 ttl=56 time=135 ms
64 bytes from bom12s15-in-f14.1e100.net (142.250.192.46): icmp_seq=4 ttl=56 time=7.95 ms
64 bytes from bom12s15-in-f14.1e100.net (142.250.192.46): icmp_seq=5 ttl=56 time=8.77 ms
64 bytes from bom12s15-in-f14.1e100.net (142.250.192.46): icmp_seq=6 ttl=56 time=8.07 ms
64 bytes from bom12s15-in-f14.1e100.net (142.250.192.46): icmp_seq=7 ttl=56 time=7.49 ms
64 bytes from bom12s15-in-f14.1e100.net (142.250.192.46): icmp_seq=8 ttl=56 time=7.89 ms
64 bytes from bom12s15-in-f14.1e100.net (142.250.192.46): icmp_seq=9 ttl=56 time=8.54 ms
64 bytes from bom12s15-in-f14.1e100.net (142.250.192.46): icmp_seq=10 ttl=56 time=8.62 ms
64 bytes from bom12s15-in-f14.1e100.net (142.250.192.46): icmp_seq=11 ttl=56 time=8.28 ms
64 bytes from bom12s15-in-f14.1e100.net (142.250.192.46): icmp_seq=12 ttl=56 time=8.38 ms
^Z
[1]+  Stopped                 ping google.com
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ ping google.com
ping: google.com: Temporary failure in name resolution
```

```
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ hostname
tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ hostname -i
127.0.1.1
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ cat file2.txt
Welcome to DTL.
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ vi file2.txt
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ cat file2.txt
Welcome to DTL.
Good morning.
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ chmod u=r file2.txt
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ vi file2.txt
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ cat file2.txt
Welcome to DTL.
Good morning.
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ nl filemerge.txt
     1  Welcome to DTL.
     2  I am learning linux commands.
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ cd
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ ls
a1.c          Desktop     LINUX_COMMANDS  Public  Q5.c  Tejas_Mulange_112103090_assignment2       Tejas_Mulange_112103090_Assignment9.tar.xz
a.out         Documents   Music           Q2.c    Q6.c  Tejas_Mulange_112103090_assignment2.tar   Templates
Assignment7.c Downloads   photos          Q3b.c   Q7.c  Tejas_Mulange_112103090_Assignment7.tar.xz  Videos
Assignment8.c dsa.py      Pictures        Q4.c    snap  Tejas_Mulange_112103090_Assignment8.tar.xz
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ rmdir dsa.py
rmdir: failed to remove 'dsa.py': Directory not empty
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ rmdir photos
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ ls
a1.c          Desktop     LINUX_COMMANDS  Q2.c    Q6.c                                Tejas_Mulange_112103090_assignment2.tar     Templates
a.out         Documents   Music           Q3b.c   Q7.c                                Tejas_Mulange_112103090_Assignment7.tar.xz  Videos
Assignment7.c Downloads   Pictures        Q4.c                                        Tejas_Mulange_112103090_Assignment8.tar.xz
Assignment8.c dsa.py      Public          Q5.c    Tejas_Mulange_112103090_assignment2 Tejas_Mulange_112103090_Assignment9.tar.xz
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ tar cvf files.tar Q1.c Q2.c
tar: Q1.c: Cannot stat: No such file or directory
Q2.c
tar: Exiting with failure status due to previous errors
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ tar cvf files.tar Q2.c Q6.c
Q2.c
Q6.c
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ zip files.zip files.tar
  adding: files.tar (deflated 96%)
```

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tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ unzip files.zip
Archive:  files.zip
replace files.tar? [y]es, [n]o, [A]ll, [N]one, [r]ename: n
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ unzip files.zip
Archive:  files.zip
replace files.tar? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
  inflating: files.tar
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ zip a1.c
        zip warning: missing end signature--probably not a zip file (did you
        zip warning: remember to use binary mode when you transferred it?)
        zip warning: (if you are trying to read a damaged archive try -F)

zip error: Zip file structure invalid (a1.c)
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ zip a1.zip a1.c
  adding: a1.c (stored 0%)
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ unzip a1.zip
Archive:  a1.zip
replace a1.c? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
 extracting: a1.c
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ echo Hello everyone
Hello everyone
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ sudo
usage: sudo -h | -K | -k | -V
usage: sudo -v [-ABknS] [-g group] [-h host] [-p prompt] [-u user]
usage: sudo -l [-ABknS] [-g group] [-h host] [-p prompt] [-U user] [-u user] [command]
usage: sudo [-ABbEHknPS] [-r role] [-t type] [-C num] [-D directory] [-g group] [-h host] [-p prompt] [-R directory] [-T timeout] [-u user] [VAR=value]
        [-i|-s] [<command>]
usage: sudo -e [-ABknS] [-r role] [-t type] [-C num] [-D directory] [-g group] [-h host] [-p prompt] [-R directory] [-T timeout] [-u user] file ...
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ mv a1.zip LINUX_COMMANDS
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ cd LINUX_COMMANDS
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ ls
a1.zip  a.py  Assignment9.c  file  file1.txt  file2.txt  file3.txt  file4.txt  filemerge.txt
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ mv file file1
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ ls
a1.zip  a.py  Assignment9.c  file1  file1.txt  file2.txt  file3.txt  file4.txt  filemerge.txt
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ find sparse
find: 'sparse': No such file or directory
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ find . -name sparse
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ find . -name sparsemain.c
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~/LINUX_COMMANDS$ cd
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ find sparse
find: 'sparse': No such file or directory
```

```
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ top

top - 08:29:29 up 14:03,  1 user,  load average: 0.24, 0.18, 0.16
Tasks: 265 total,   2 running, 262 sleeping,   1 stopped,   0 zombie
%Cpu(s):  2.5 us,  0.6 sy,  0.0 ni, 96.9 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :  15694.0 total,  10614.8 free,   1507.4 used,   3571.7 buff/cache
MiB Swap:  15259.0 total,  15259.0 free,      0.0 used.  12424.4 avail Mem

    PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
   1641 tejasmu+  20   0 7322312 484060 207992 R  21.3   3.0  10:33.51 gnome-shell
    234 root     -51   0       0      0      0 S   0.7   0.0   0:50.37 irq/57-ASUE140D
   8379 root       0 -20       0      0      0 I   0.7   0.0   0:03.21 kworker/u17:1-i915_flip
    524 systemd+  20   0   14824   6088   5292 S   0.3   0.0   0:24.00 systemd-oomd
   1812 tejasmu+  20   0  323484  11676   7056 S   0.3   0.1   0:16.12 ibus-daemon
   1940 tejasmu+  20   0  357400  29596  18008 S   0.3   0.2   0:05.44 ibus-extension-
   3210 tejasmu+  20   0  870900  88448  60472 S   0.3   0.6   2:12.46 gnome-terminal-
   8858 root      20   0       0      0      0 I   0.3   0.0   0:00.12 kworker/5:0-events
  10034 tejasmu+  20   0 2588776 164280  92836 S   0.3   1.0   0:11.56 Isolated Web Co
  10107 root      20   0       0      0      0 I   0.3   0.0   0:00.51 kworker/6:0-events
  10269 root      20   0       0      0      0 I   0.3   0.0   0:00.04 kworker/u16:1-i915
  10282 tejasmu+  20   0   21888   4168   3312 R   0.3   0.0   0:00.18 top
      1 root      20   0  168000  13332   8240 S   0.0   0.1   0:02.63 systemd
      2 root      20   0       0      0      0 S   0.0   0.0   0:00.04 kthreadd
      3 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 rcu_gp
      4 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 rcu_par_gp
      5 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 netns
      7 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/0:0H-events_highpri
      9 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 mm_percpu_wq
     10 root      20   0       0      0      0 S   0.0   0.0   0:00.00 rcu_tasks_rude_
     11 root      20   0       0      0      0 S   0.0   0.0   0:00.00 rcu_tasks_trace
     12 root      20   0       0      0      0 S   0.0   0.0   0:00.08 ksoftirqd/0
     13 root      20   0       0      0      0 I   0.0   0.0   0:16.77 rcu_sched
     14 root      rt   0       0      0      0 S   0.0   0.0   0:00.11 migration/0
     15 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/0
     17 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/0
     18 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/1
     19 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/1
     20 root      rt   0       0      0      0 S   0.0   0.0   0:00.19 migration/1
     21 root      20   0       0      0      0 S   0.0   0.0   0:00.09 ksoftirqd/1
     23 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/1:0H-events_highpri
     24 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/2
```
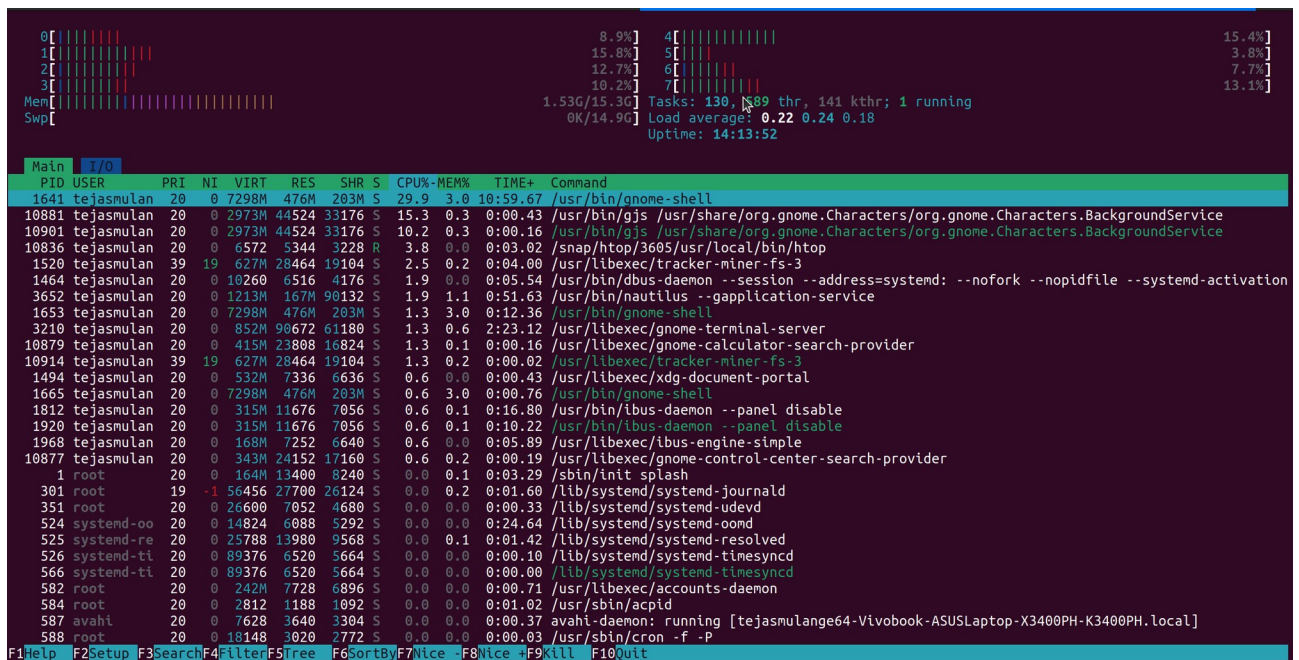
```
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ history
    1  sudo apt update
    2  sudo apt install build-essential
    3  sudo apt-get install manpages-dev
    4  gcc --version
    5  sudo apt-get install vim
    6  vi a1.c
    7  gcc a1.c
    8  ./a.out
    9  vi Q3b.c
   10  gcc Q3b.c
   11  ./a.out
   12  vi Q3b.c
   13  vi Q4.c
   14  gcc Q4.c
   15  ./a.out
   16  vi Q4.c
   17  gcc Q4.c
   18  ./a.out
   19  vi Q5.c
   20  gcc Q5.c
   21  ./a.out
   22  vi Q6.c
   23  gcc Q6.c
   24  ./a.out
   25  vi Q6.c
   26  gcc Q6.c
   27  ./a.out
   28  vi Q7.c
   29  gcc Q7.c
   30  ./a.out
   31  vi Q7.c
   32  vi Q3.c
   33  gcc Q3.c
   34  ./a.out
   35  vi Q4.c
   36  vi Q41.c
   37  gcc Q41.c
   38  ./a.out
   39  75
   40  vi Q41.c
```

```
  0[||||||||                    8.9%]   4[||||||||||||            15.4%]
  1[||||||||||||            15.8%]   5[||||               3.8%]
  2[||||||||||              12.7%]   6[|||||||             7.7%]
  3[||||||||              10.2%]   7[||||||||||||            13.1%]
Mem[|||||||||||||||||||||||||||| 1.53G/15.3G]  Tasks: 130, 589 thr, 141 kthr; 1 running
Swp[                      0K/14.9G]  Load average: 0.22 0.24 0.18
                                     Uptime: 14:13:52

  Main   I/O
  PID USER       PRI  NI  VIRT   RES   SHR S  CPU%-MEM%  TIME+   Command
 1641 tejasmulan  20   0 7298M  476M  203M S  29.9  3.0 10:59.67 /usr/bin/gnome-shell
10881 tejasmulan  20   0 2973M 44524 33176 S  15.3  0.3  0:00.43 /usr/bin/gjs /usr/share/org.gnome.Characters/org.gnome.Characters.BackgroundService
10901 tejasmulan  20   0 2973M 44524 33176 S  10.2  0.3  0:00.16 /usr/bin/gjs /usr/share/org.gnome.Characters/org.gnome.Characters.BackgroundService
10836 tejasmulan  20   0  6572  5344  3228 R   3.8  0.0  0:03.02 /snap/htop/3605/usr/local/bin/htop
 1520 tejasmulan  39  19  627M 28464 19104 S   2.5  0.2  0:04.00 /usr/libexec/tracker-miner-fs-3
 1464 tejasmulan  20   0 10260  6516  4176 S   1.9  0.0  0:05.54 /usr/bin/dbus-daemon --session --address=systemd: --nofork --nopidfile --systemd-activation
 3652 tejasmulan  20   0 1213M  167M 90132 S   1.9  1.1  0:51.63 /usr/bin/nautilus --gapplication-service
 1653 tejasmulan  20   0 7298M  476M  203M S   1.3  3.0  0:12.36 /usr/bin/gnome-shell
 3210 tejasmulan  20   0  852M 90672 61180 S   1.3  0.6  2:23.12 /usr/libexec/gnome-terminal-server
10879 tejasmulan  20   0  415M 23808 16824 S   1.3  0.1  0:00.16 /usr/libexec/gnome-calculator-search-provider
10914 tejasmulan  39  19  627M 28464 19104 S   1.3  0.2  0:00.02 /usr/libexec/tracker-miner-fs-3
 1494 tejasmulan  20   0  532M  7336  6636 S   0.6  0.0  0:00.43 /usr/libexec/xdg-document-portal
 1665 tejasmulan  20   0 7298M  476M  203M S   0.6  3.0  0:00.76 /usr/bin/gnome-shell
 1812 tejasmulan  20   0  315M 11676  7056 S   0.6  0.1  0:16.80 /usr/bin/ibus-daemon --panel disable
 1920 tejasmulan  20   0  315M 11676  7056 S   0.6  0.1  0:10.22 /usr/bin/ibus-daemon --panel disable
 1968 tejasmulan  20   0  168M  7252  6640 S   0.6  0.0  0:05.89 /usr/libexec/ibus-engine-simple
10877 tejasmulan  20   0  343M 24152 17160 S   0.6  0.2  0:00.19 /usr/libexec/gnome-control-center-search-provider
    1 root        20   0  164M 13400  8240 S   0.0  0.1  0:03.29 /sbin/init splash
  301 root        19  -1 56456 27700 26124 S   0.0  0.2  0:01.60 /lib/systemd/systemd-journald
  351 root        20   0 26600  7052  4680 S   0.0  0.0  0:00.33 /lib/systemd/systemd-udevd
  524 systemd-oo  20   0 14824  6088  5292 S   0.0  0.0  0:24.64 /lib/systemd/systemd-oomd
  525 systemd-re  20   0 25788 13980  9568 S   0.0  0.1  0:01.42 /lib/systemd/systemd-resolved
  526 systemd-ti  20   0 89376  6520  5664 S   0.0  0.0  0:00.00 /lib/systemd/systemd-timesyncd
  566 systemd-ti  20   0 89376  6520  5664 S   0.0  0.0  0:00.00 /lib/systemd/systemd-timesyncd
  582 root        20   0  242M  7728  6896 S   0.0  0.0  0:00.71 /usr/libexec/accounts-daemon
  584 root        20   0  2812  1188  1092 S   0.0  0.0  0:01.02 /usr/sbin/acpid
  587 avahi       20   0  7628  3640  3304 S   0.0  0.0  0:00.37 avahi-daemon: running [tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH.local]
  588 root        20   0 18148  3020  2772 S   0.0  0.0  0:00.03 /usr/sbin/cron -f -P
F1Help  F2Setup F3Search F4Filter F5Tree  F6SortBy F7Nice -F8Nice +F9Kill  F10Quit
```

```
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ plocate files.zip
/home/tejasmulange64/files.zip
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ plocate sparsemain.c
/home/tejasmulange64/Downloads/sparse/sparsemain.c
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ df -h
Filesystem      Size  Used Avail Use% Mounted on
tmpfs           1.6G  2.4M  1.6G   1% /run
/dev/nvme0n1p8   84G   42G   38G  53% /
tmpfs           7.7G     0  7.7G   0% /dev/shm
tmpfs           5.0M  4.0K  5.0M   1% /run/lock
/dev/nvme0n1p1  256M   54M  203M  21% /boot/efi
tmpfs           1.6G  2.4M  1.6G   1% /run/user/1000
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ df -m
Filesystem     1M-blocks  Used Available Use% Mounted on
tmpfs               1570     3      1568   1% /run
/dev/nvme0n1p8     85207 42550     38284  53% /
tmpfs               7847     0      7847   0% /dev/shm
tmpfs                  5     1         5   1% /run/lock
/dev/nvme0n1p1       256    54       203  21% /boot/efi
tmpfs               1570     3      1568   1% /run/user/1000
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ du -h/tejasmulange^C
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ du -h /home/tejasmulange64/LINUX_COMMANDS
32K     /home/tejasmulange64/LINUX_COMMANDS
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ jobs
[1]+  Stopped                 ping google.com  (wd: ~/LINUX_COMMANDS)
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ uname -a
Linux tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH 5.15.0-52-generic #58-Ubuntu SMP Thu Oct 13 08:03:55 UTC 2022 x86_64 x86_64 x86_64 GNU/Linux
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ uname -s
Linux
tejasmulange64@tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH:~$ uname -n
tejasmulange64-Vivobook-ASUSLaptop-X3400PH-K3400PH
```