40 commands

```
./snap/code:
113  116  common  current

./snap/code/113:

./snap/code/116:

./snap/code/common:

./snap/firefox:
2154  2211  common  current

./snap/firefox/2154:

./snap/firefox/2211:

./snap/firefox/common:

./snap/kesty-whatsapp:
39  common  current

./snap/kesty-whatsapp/39:

./snap/kesty-whatsapp/common:

./snap/snapd-desktop-integration:
43  49  common  current

./snap/snapd-desktop-integration/43:
Desktop  Documents  Downloads  Music  Pictures  Public  Templates  Videos

./snap/snapd-desktop-integration/43/Desktop:

./snap/snapd-desktop-integration/43/Documents:

./snap/snapd-desktop-integration/43/Downloads:

./snap/snapd-desktop-integration/43/Music:

./snap/snapd-desktop-integration/43/Pictures:

./snap/snapd-desktop-integration/43/Public:

./snap/snapd-desktop-integration/43/Templates:

./snap/snapd-desktop-integration/43/Videos:

./snap/snapd-desktop-integration/49:
Desktop  Documents  Downloads  Music  Pictures  Public  Templates  Videos

./snap/snapd-desktop-integration/49/Desktop:
```

```
./snap/snapd-desktop-integration/49/Desktop:

./snap/snapd-desktop-integration/49/Documents:

./snap/snapd-desktop-integration/49/Downloads:

./snap/snapd-desktop-integration/49/Music:

./snap/snapd-desktop-integration/49/Pictures:

./snap/snapd-desktop-integration/49/Public:

./snap/snapd-desktop-integration/49/Templates:

./snap/snapd-desktop-integration/49/Videos:

./snap/snapd-desktop-integration/common:

./snap/snap-store:
599  638  common  current

./snap/snap-store/599:

./snap/snap-store/638:

./snap/snap-store/common:

./snap/telegram-desktop:
4384  4470  common  current

./snap/telegram-desktop/4384:

./snap/telegram-desktop/4470:

./snap/telegram-desktop/common:

./snap/vlc:
3078  common  current

./snap/vlc/3078:

./snap/vlc/common:
vlcrc

./Templates:

./Videos:
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~$ ls -a
.                Documents       .nmcli-history        snap
..               Downloads       .p.c.swp              .ssh
.bash_history    file,c          Pictures              .sudo_as_admin_successful
.bash_logout     file.c          .pki                  Templates
```

```
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~$ ls -a
.                  Documents          .nmcli-history      snap
..                 Downloads          .p.c.swp            .ssh
.bash_history      file,c             Pictures            .sudo_as_admin_successful
.bash_logout       file.c             .pki                Templates
.bashrc            .gnupg             ppl2                .texlive2021
.cache             .hello.c.swp       'PPL Assignment'    Videos
.config            .local             .profile            .viminfo
Desktop            Music              Public              .vscode
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~$ ls -lh
total 52K
drwxr-xr-x 2 pawan pawan 4.0K Nov  4 09:27 Desktop
drwxr-xr-x 2 pawan pawan 4.0K Nov 30 13:35 Documents
drwxr-xr-x 2 pawan pawan 4.0K Jan  5 09:13 Downloads
-rw-rw-r-- 1 pawan pawan   41 Nov 30 13:31 file,c
-rw-rw-r-- 1 pawan pawan    4 Nov 27 16:21 file.c
drwxr-xr-x 2 pawan pawan 4.0K Nov  4 09:27 Music
drwxr-xr-x 3 pawan pawan 4.0K Nov 30 13:50 Pictures
drwxrwxr-x 2 pawan pawan 4.0K Dec 27 22:46 ppl2
drwxrwxr-x 2 pawan pawan 4.0K Dec 27 22:40 'PPL Assignment'
drwxr-xr-x 2 pawan pawan 4.0K Nov  4 09:27 Public
drwx------ 9 pawan pawan 4.0K Nov 18 15:51 snap
drwxr-xr-x 2 pawan pawan 4.0K Nov  4 09:27 Templates
drwxr-xr-x 2 pawan pawan 4.0K Nov  4 09:27 Videos
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~$ cd Documents/
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ cd-
Command 'cd-' not found, did you mean:
  command 'cde' from deb cde (0.1+git9-g551e54d-1.2)
  command 'cdi' from deb cdo (2.0.4-1)
  command 'cd5' from deb cd5 (0.1-4)
  command 'cdo' from deb cdo (2.0.4-1)
  command 'cdb' from deb tinycdb (0.78build3)
  command 'cdw' from deb cdw (0.8.1-2)
  command 'cdp' from deb irpas (0.10-9)
Try: sudo apt install <deb name>
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ cd ~
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~$ cd ..
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:/home$ ls
pawan
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:/home$ cd pawan/Documents/
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ ls
a.out  hello.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ tac hello.c
}
        return k;
        k=i+j;
        int k;
int add(int i,int j){
}
        return 0;
        c=add(a,b);
        h=2;
```

```
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ tac hello.c
}
        return k;
        k=i+j;
        int k;
int add(int i,int j){
}
        return 0;
        c=add(a,b);
        b=2;
        a=1;
        int a,b,c;
int main(){
#include <stdio.h>
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ cat hello.c
#include <stdio.h>
int main(){
        int a,b,c;
        a=1;
        b=2;
        c=add(a,b);
        return 0;
}
int add(int i,int j){
        int k;
        k=i+j;
        return k;
}
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ cat > Dtl.txt
Command we are learning :-
1]sudo 2] pwd 3]cd 4]catpawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ cat >Dtlpage2.txt
Here meaning of commands is:-
1]pwd- It shows the current directory
2]ls - It list all the files and folder in current directory
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ cat Dtl.txt Dtlpage2.txt > Dtlpage3.txt
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ tac Dtlpage3.txt
2]ls - It list all the files and folder in current directory
1]pwd- It shows the current directory
1]sudo 2] pwd 3]cd 4]catHere meaning of commands is:-
Command we are learning :-
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ cp hello.c
cp: missing destination file operand after 'hello.c'
Try 'cp --help' for more information.
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ cp --help
Usage: cp [OPTION]... [-T] SOURCE DEST
  or:  cp [OPTION]... SOURCE... DIRECTORY
  or:  cp [OPTION]... -t DIRECTORY SOURCE...
Copy SOURCE to DEST, or multiple SOURCE(s) to DIRECTORY.

Mandatory arguments to long options are mandatory for short options too.
  -a, --archive              same as -dR --preserve=all
      --attributes-only      don't copy the file data, just the attributes
```

```
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ pwd
/home/pawan/Documents
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ cp hello.c/home/pawan/Documents
cp: missing destination file operand after 'hello.c/home/pawan/Documents'
Try 'cp --help' for more information.
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ cp hello.c/home/pawan/Downloads
cp: missing destination file operand after 'hello.c/home/pawan/Downloads'
Try 'cp --help' for more information.
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ cp Dtlpage2.txt Dtlpage3.txt
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ cat Dtlpage3.txt
Here meaning of commands is:-
1]pwd- It shows the current directory
2]ls - It list all the files and folder in current directory
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ mv Dtl.txt /home/pawan/Downloads
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ cd ..
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~$ cd Downloads/
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Downloads$ ls
'DTL - Bash Scripting.pptx'
'DTL - Forty Linux Commands (2).pptx'
 Dtl.txt
'linux commands_for execution.docx'
 ppl2-2.pdf
'Test 2_Answers.docx'
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Downloads$ mv Dtl.txt Dtlpage1.txt
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Downloads$ ls
'DTL - Bash Scripting.pptx'
'DTL - Forty Linux Commands (2).pptx'
 Dtlpage1.txt
'linux commands_for execution.docx'
 ppl2-2.pdf
'Test 2_Answers.docx'
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Downloads$ cd ..
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~$ cd Documents/
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ ls
a.out  Dtlpage2.txt  Dtlpage3.txt  hello.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ mkdir Assignment
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ mkdir Assignment/bash-scripting
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ ls
a.out  Assignment  Dtlpage2.txt  Dtlpage3.txt  hello.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ cd Assignment/
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/Assignment$ ls
bash-scripting
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/Assignment$ mkdir -p bash-scripting/shell/terminal
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/Assignment$ ls
bash-scripting
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/Assignment$ cd bash-scripting/
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/Assignment/bash-scripting$ ls
shell
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/Assignment/bash-scripting$ cd shell/
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/Assignment/bash-scripting/shell$ ls
terminal
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/Assignment/bash-scripting/shell$ cd ..
```

```
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/Assignment/bash-scripting/shell$ cd ..
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/Assignment/bash-scripting$ cd ..
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/Assignment$ cd ..
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ ls
a.out  Assignment  Dtlpage2.txt  Dtlpage3.txt  hello.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ mkdir -m777 Documents
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ mkdir -v
mkdir: missing operand
Try 'mkdir --help' for more information.
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ mkdir -V
mkdir: invalid option -- 'V'
Try 'mkdir --help' for more information.
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ rmdir -p Assignment/bash-scripting/shell
rmdir: failed to remove 'Assignment/bash-scripting/shell': Directory not empty
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ rmdir -p Assignment/bash-scripting/shell/terminal/
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ ls
a.out  Documents  Dtlpage2.txt  Dtlpage3.txt  hello.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ ls
a.out  Documents  Dtlpage2.txt  Dtlpage3.txt  hello.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ cd Documents/
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/Documents$ ls
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/Documents$ mv Documents Assignment
mv: cannot stat 'Documents': No such file or directory
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/Documents$ mkdir -m777 Documents
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/Documents$ ls
Documents
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/Documents$ rmdir Documents
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/Documents$ ls
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/Documents$ ls
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents/Documents$ cd ..
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ ls
a.out  Documents  Dtlpage2.txt  Dtlpage3.txt  hello.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ rmdir Documents
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ ls
a.out  Dtlpage2.txt  Dtlpage3.txt  hello.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ touch main.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ touch index.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ touch design.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ ls
a.out  design.c  Dtlpage2.txt  Dtlpage3.txt  hello.c  index.c  main.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ rm index.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ ls
a.out  design.c  Dtlpage2.txt  Dtlpage3.txt  hello.c  main.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ rm design.c main.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ ls
a.out  Dtlpage2.txt  Dtlpage3.txt  hello.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ rm -i
rm: missing operand
Try 'rm --help' for more information.
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ touch Main.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ rm -i Main.c
```

```
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ touch Main.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ rm -i Main.c
rm: remove regular empty file 'Main.c'? f
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ ls
a.out  Dtlpage2.txt  Dtlpage3.txt  hello.c  Main.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ rm -i Main.c
rm: remove regular empty file 'Main.c'? Yes
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ ls
a.out  Dtlpage2.txt  Dtlpage3.txt  hello.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ touch main.c index.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ ls
a.out  Dtlpage2.txt  Dtlpage3.txt  hello.c  index.c  main.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ rm -f main.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ ls
a.out  Dtlpage2.txt  Dtlpage3.txt  hello.c  index.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ rm -r index.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ ls
a.out  Dtlpage2.txt  Dtlpage3.txt  hello.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ locate -i Dtlpage1.txt
Command 'locate' not found, but can be installed with:
sudo apt install plocate
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ sudo apt install plocate
[sudo] password for pawan:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libflashrom1 libftdi1-2 libqt5qml5
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  liburing2
The following NEW packages will be installed:
  liburing2 plocate
0 upgraded, 2 newly installed, 0 to remove and 85 not upgraded.
Need to get 140 kB of archives.
After this operation, 555 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://in.archive.ubuntu.com/ubuntu jammy/main amd64 liburing2 amd64 2.1-2build1 [10.3 kB]
Get:2 http://in.archive.ubuntu.com/ubuntu jammy/main amd64 plocate amd64 1.1.15-1ubuntu2 [129 kB]
Fetched 140 kB in 2s (55.9 kB/s)
Selecting previously unselected package liburing2:amd64.
(Reading database ... 214414 files and directories currently installed.)
Preparing to unpack .../liburing2_2.1-2build1_amd64.deb ...
Unpacking liburing2:amd64 (2.1-2build1) ...
Selecting previously unselected package plocate.
Preparing to unpack .../plocate_1.1.15-1ubuntu2_amd64.deb ...
Unpacking plocate (1.1.15-1ubuntu2) ...
Setting up liburing2:amd64 (2.1-2build1) ...
Setting up plocate (1.1.15-1ubuntu2) ...
update-alternatives: using /usr/bin/plocate to provide /usr/bin/locate (lo
cate) in auto mode
Adding group `plocate' (GID 138) ...
```

```
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ locate -i Dtlpage1.txt
/home/pawan/Downloads/Dtlpage1.txt
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ find /home/pawan -name Dtlpage1.txt
/home/pawan/Downloads/Dtlpage1.txt
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ find -name Dtlpage1.txt
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ ks
ks: command not found
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ ls
a.out  Dtlpage2.txt  Dtlpage3.txt  hello.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ grep stdio.h hello.c
#include <stdio.h>
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ grep int hello.c
int main(){
        int a,b,c;
int add(int i,int j){
        int k;
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ df -h hello.c
Filesystem      Size  Used Avail Use% Mounted on
/dev/nvme0n1p5  103G   36G   63G  37% /
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ df -m hello.c
Filesystem     1M-blocks  Used Available Use% Mounted on
/dev/nvme0n1p5    105362 36313     63652  37% /
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ df -k hello.c
Filesystem     1K-blocks     Used Available Use% Mounted on
/dev/nvme0n1p5 107890228 37184468  65179080  37% /
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ df -T hello.c
Filesystem     Type 1K-blocks     Used Available Use% Mounted on
/dev/nvme0n1p5 ext4 107890228 37184612  65178936  37% /
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ du/home/pawan/Documents/
bash: du/home/pawan/Documents/: No such file or directory
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ pwd
/home/pawan/Documents
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ du /home/pawan/Documents
60      /home/pawan/Documents
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ du -s
60      .
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ du -m
1       .
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ du -s home/pawan/Documents
du: cannot access 'home/pawan/Documents': No such file or directory
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ du -s /home/pawan/Documents
60      /home/pawan/Documents
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ du -m /
bin/        etc/        lib64/      mnt/        run/        sys/
boot/       home/       libx32/     opt/        sbin/       tmp/
cdrom/      lib/        lost+found/ proc/       snap/       usr/
dev/        lib32/      media/      root/       srv/        var/
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ du -m /home/pawan/Documents
1       /home/pawan/Documents
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ du k /home/pawan/Documents
du: cannot access 'k': No such file or directory
60      /home/pawan/Documents
```

```
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ du -m /home/pawan/Documents
1       /home/pawan/Documents
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ du k /home/pawan/Documents
du: cannot access 'k': No such file or directory
60      /home/pawan/Documents
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ du -h /home/pawan/Documents
60K     /home/pawan/Documents
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ head Dtlpage3.txt
Here meaning of commands is:-
1]pwd- It shows the current directory
2]ls - It list all the files and folder in current directory
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ head hello.c
#include <stdio.h>
int main(){
        int a,b,c;
        a=1;
        b=2;
        c=add(a,b);
        return 0;
}
int add(int i,int j){
        int k;
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ head -n 6 hello.c
#include <stdio.h>
int main(){
        int a,b,c;
        a=1;
        b=2;
        c=add(a,b);
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ head -n -5 hello.c
#include <stdio.h>
int main(){
        int a,b,c;
        a=1;
        b=2;
        c=add(a,b);
        return 0;
}
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ head -n 4 hello.c
#include <stdio.h>
int main(){
        int a,b,c;
        a=1;
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ head -c
head: option requires an argument -- 'c'
Try 'head --help' for more information.
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ head -c hello.c
head: invalid number of bytes: 'hello.c'
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ head -bytes
head: invalid option -- 'b'
Try 'head --help' for more information.
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ head --help
```

```
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ head --help
Usage: head [OPTION]... [FILE]...
Print the first 10 lines of each FILE to standard output.
With more than one FILE, precede each with a header giving the file name.

With no FILE, or when FILE is -, read standard input.

Mandatory arguments to long options are mandatory for short options too.
  -c, --bytes=[-]NUM       print the first NUM bytes of each file;
                             with the leading '-', print all but the last
                             NUM bytes of each file
  -n, --lines=[-]NUM       print the first NUM lines instead of the first 10;
                             with the leading '-', print all but the last
                             NUM lines of each file
  -q, --quiet, --silent    never print headers giving file names
  -v, --verbose            always print headers giving file names
  -z, --zero-terminated    line delimiter is NUL, not newline
      --help     display this help and exit
      --version  output version information and exit

NUM may have a multiplier suffix:
b 512, kB 1000, K 1024, MB 1000*1000, M 1024*1024,
GB 1000*1000*1000, G 1024*1024*1024, and so on for T, P, E, Z, Y.
Binary prefixes can be used, too: KiB=K, MiB=M, and so on.

GNU coreutils online help: <https://www.gnu.org/software/coreutils/>
Full documentation <https://www.gnu.org/software/coreutils/head>
or available locally via: info '(coreutils) head invocation'
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ head -q hello.c
#include <stdio.h>
int main(){
        int a,b,c;
        a=1;
        b=2;
        c=add(a,b);
        return 0;
}
int add(int i,int j){
        int k;
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ tail -n hello.c
tail: invalid number of lines: 'hello.c'
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ tail hello.c
        a=1;
        b=2;
        c=add(a,b);
        return 0;
}
int add(int i,int j){
        int k;
        k=i+j;
        return k;
}
```

```
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ diff Dtlpage1.txt Dtlpage2.txt
diff: Dtlpage1.txt: No such file or directory
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ diff hello.c Dtlpage3.txt
1,13c1,3
< #include <stdio.h>
< int main(){
<       int a,b,c;
<       a=1;
<       b=2;
<       c=add(a,b);
<       return 0;
< }
< int add(int i,int j){
<       int k;
<       k=i+j;
<       return k;
< }
---
> Here meaning of commands is:-
> 1]pwd- It shows the current directory
> 2]ls - It list all the files and folder in current directory
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ diff -c hello.c Dtlpage3.txt
*** hello.c     2022-11-30 13:34:41.228443261 +0530
--- Dtlpage3.txt        2023-01-06 03:18:57.740281777 +0530
***************
*** 1,13 ****
! #include <stdio.h>
! int main(){
!       int a,b,c;
!       a=1;
!       b=2;
!       c=add(a,b);
!       return 0;
! }
! int add(int i,int j){
!       int k;
!       k=i+j;
!       return k;
! }
--- 1,3 ----
! Here meaning of commands is:-
! 1]pwd- It shows the current directory
! 2]ls - It list all the files and folder in current directory
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ diff -u hello.c Dtlpage3.txt
--- hello.c     2022-11-30 13:34:41.228443261 +0530
+++ Dtlpage3.txt        2023-01-06 03:18:57.740281777 +0530
@@ -1,13 +1,3 @@
-#include <stdio.h>
-int main(){
-       int a,b,c;
-       a=1;
-       b=2;
```

```
!       int k;
!       k=i+j;
!       return k;
! }
--- 1,3 ----
! Here meaning of commands is:-
! 1]pwd- It shows the current directory
! 2]ls - It list all the files and folder in current directory
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ diff -u hello.c Dtlpage3.txt
--- hello.c     2022-11-30 13:34:41.228443261 +0530
+++ Dtlpage3.txt        2023-01-06 03:18:57.740281777 +0530
@@ -1,13 +1,3 @@
-#include <stdio.h>
-int main(){
-       int a,b,c;
-       a=1;
-       b=2;
-       c=add(a,b);
-       return 0;
-}
-int add(int i,int j){
-       int k;
-       k=i+j;
-       return k;
-}
+Here meaning of commands is:-
+1]pwd- It shows the current directory
+2]ls - It list all the files and folder in current directory
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ diff -i hello.c Dtlpage3.txt
1,13c1,3
< #include <stdio.h>
< int main(){
<       int a,b,c;
<       a=1;
<       b=2;
<       c=add(a,b);
<       return 0;
< }
< int add(int i,int j){
<       int k;
<       k=i+j;
<       return k;
< }
---
> Here meaning of commands is:-
> 1]pwd- It shows the current directory
> 2]ls - It list all the files and folder in current directory
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ tar -cvf Archive.tar/home/pawn/Documents
tar: Cowardly refusing to create an empty archive
Try 'tar --help' or 'tar --usage' for more information.
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$
```

```
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~$ ls
Desktop    file,c    Pictures        Public      Videos
Documents  file.c    ppl2            snap
Downloads  Music     'PPL Assignment'  Templates
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~$ cd Documents/
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ ls
a.out  Dtlpage2.txt  Dtlpage3.txt  hello.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ ping google.com
PING google.com(bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e)) 56 data bytes
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=1 ttl=113 time=145 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=2 ttl=113 time=372 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=3 ttl=113 time=190 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=4 ttl=113 time=213 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=5 ttl=113 time=90.5 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=6 ttl=113 time=257 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=7 ttl=113 time=281 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=8 ttl=113 time=304 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=9 ttl=113 time=328 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=10 ttl=113 time=147 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=11 ttl=113 time=375 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=12 ttl=113 time=194 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=13 ttl=113 time=217 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=14 ttl=113 time=240 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=15 ttl=113 time=262 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=16 ttl=113 time=488 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=17 ttl=113 time=308 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=18 ttl=113 time=228 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=19 ttl=113 time=355 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=20 ttl=113 time=173 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=21 ttl=113 time=196 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=22 ttl=113 time=218 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=25 ttl=113 time=971 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=26 ttl=113 time=484 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=27 ttl=113 time=303 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=28 ttl=113 time=326 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=29 ttl=113 time=350 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=30 ttl=113 time=374 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=31 ttl=113 time=398 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=32 ttl=113 time=217 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=33 ttl=113 time=239 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=34 ttl=113 time=262 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=35 ttl=113 time=286 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=36 ttl=113 time=309 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=37 ttl=113 time=332 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=38 ttl=113 time=357 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=39 ttl=113 time=176 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=40 ttl=113 time=404 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=41 ttl=113 time=223 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=42 ttl=113 time=246 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=43 ttl=113 time=271 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=44 ttl=113 time=293 ms
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=45 ttl=113 time=316 ms
```

```
64 bytes from bom07s28-in-x0e.1e100.net (2404:6800:4009:81e::200e): icmp_seq=79 ttl=113 time=269 ms
top - 04:21:32 up  1:26,  1 user,  load average: 0.11, 0.40, 0.40
Tasks: 321 total,   3 running, 317 sleeping,   1 stopped,   0 zombie
%Cpu(s): 10.3 us, 10.3 sy,  0.0 ni, 79.5 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :  15321.2 total,  10051.2 free,   2141.7 used,   3128.3 buff/cache
MiB Swap:  15259.0 total,  15259.0 free,      0.0 used.  12852.0 avail Mem

    PID USER       PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND

  10555 pawan      20   0 2775656 225464 111076 R 100.0   1.4   0:45.05 Isolated Web Co

  10859 pawan      20   0  824396  53476  41004 S  66.7   0.3   0:02.52 gnome-terminal-

  11187 pawan      20   0   22068   4188   3328 R  66.7   0.0   0:00.05 top

   8688 pawan      20   0   25.5g 162232  97292 R  33.3   1.0   0:14.55 Xorg

   9037 pawan      20   0 6351160 299436 132232 S  33.3   1.9   0:15.57 gnome-shell

      1 root       20   0  168364  13620   8124 S   0.0   0.1   0:02.45 systemd

      2 root       20   0       0      0      0 S   0.0   0.0   0:00.00 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

     10 root        0 -20       0      0      0 I   0.0   0.0   0:00.00 mm_percpu_wq

     11 root       20   0       0      0      0 S   0.0   0.0   0:00.00 rcu_tasks_rude_

     12 root       20   0       0      0      0 S   0.0   0.0   0:00.00 rcu_tasks_trace

     13 root       20   0       0      0      0 S   0.0   0.0   0:00.07 ksoftirqd/0

     14 root       20   0       0      0      0 I   0.0   0.0   0:06.78 rcu_sched

     15 root       rt   0       0      0      0 S   0.0   0.0   0:00.03 migration/0

     16 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   0:00.30 migration/1
```

```
     20 root       rt   0       0      0      0 S   0.0   0.0   0:00.30 migratio
top - 04:21:42 up  1:26,  1 user,  load average: 0.57, 0.49, 0.43
Tasks: 321 total,   1 running, 319 sleeping,   1 stopped,   0 zombie
%Cpu(s):  0.5 us,  0.3 sy,  0.0 ni, 99.1 id,  0.1 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :  15321.2 total,  10049.2 free,   2143.0 used,   3128.9 buff/cache
MiB Swap:  15259.0 total,  15259.0 free,      0.0 used.  12850.6 avail Mem

    PID USER       PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
  10555 pawan      20   0 2775656 224332 111076 S   3.0   1.4   0:45.57 Isolated Web Co
  10551 pawan      20   0 2451932  89508  69020 S   2.2   0.6   0:00.69 WebExtensions
  10423 pawan      20   0 2448308 108372  83652 S   1.5   0.7   0:02.05 Privileged Cont
    163 root       20   0       0      0      0 I   0.7   0.0   0:00.85 kworker/3:1-mm_percpu_wq
    302 root       20   0       0      0      0 S   0.7   0.0   0:01.05 jbd2/nvme0n1p5-
    344 root       19  -1  105572  49040  47252 S   0.7   0.3   0:34.87 systemd-journal
   7804 root       20   0       0      0      0 I   0.7   0.0   0:01.02 kworker/u32:4-kec
   8688 pawan      20   0   25.5g 162240  97292 S   0.7   1.0   0:15.09 Xorg
   9037 pawan      20   0 6351160 299444 132232 S   0.7   1.9   0:15.96 gnome-shell
   9272 pawan      20   0  873780  29824  21764 S   0.7   0.2   0:00.20 gsd-media-keys
   9318 pawan      20   0  281192  29212  17804 S   0.7   0.2   0:01.30 ibus-extension-
  10859 pawan      20   0  825292  53980  41004 S   0.7   0.3   0:03.11 gnome-terminal-
  11187 pawan      20   0   22068   4188   3328 R   0.7   0.0   0:00.11 top
      1 root       20   0  168364  13620   8124 S   0.0   0.1   0:02.45 systemd
      2 root       20   0       0      0      0 S   0.0   0.0   0:00.00 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
     10 root        0 -20       0      0      0 I   0.0   0.0   0:00.00 mm_percpu_wq
     11 root       20   0       0      0      0 S   0.0   0.0   0:00.00 rcu_tasks_rude_
     12 root       20   0       0      0      0 S   0.0   0.0   0:00.00 rcu_tasks_trace
     13 root       20   0       0      0      0 S   0.0   0.0   0:00.07 ksoftirqd/0
     14 root       20   0       0      0      0 I   0.0   0.0   0:06.79 rcu_sched
     15 root       rt   0       0      0      0 S   0.0   0.0   0:00.03 migration/0
     16 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   0:00.30 migration/1
     21 root       20   0       0      0      0 S   0.0   0.0   0:00.05 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
     25 root      -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/2
     26 root       rt   0       0      0      0 S   0.0   0.0   0:00.30 migration/2
     27 root       20   0       0      0      0 S   0.0   0.0   0:00.03 ksoftirqd/2
     29 root        0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/2:0H-events_highpri
     30 root       20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/3
     31 root      -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/3
     32 root       rt   0       0      0      0 S   0.0   0.0   0:00.30 migration/3
     33 root       20   0       0      0      0 S   0.0   0.0   0:00.02 ksoftirqd/3
     35 root        0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/3:0H-events_highpri
     36 root       20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/4
```

You can paste the image from the clipboard.

```
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ history
    1  nmcli con edit type pppoe con-name "Coep-LAN"
    2  sudo pppoeconf
    3  sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv-keys D6BC243565B2087BC3F897C9277A7293F59E4889
    4  echo "deb http://miktex.org/download/ubuntu jammy universe"
    5  sudo apt-get update
    6  sudo apt-get install miktex
    7  sudo snap install vlc
    8  sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv-keys D6BC243565B2087BC3F897C9277A7293F59E4889
    9  echo "deb http://miktex.org/download/ubuntu jammy universe" | sudo tee /etc/apt/sources.list.d/miktex.list
   10  sudo apt-get update
   11  sudo apt-get install miktex
   12  miktexsetup.
   13  miktexsetup
   14  clear
   15  sudo apt-get update
   16  sudo apt-get install texlive-full
   17  sudo apt install texlive-full
   18  sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv-keys D6BC243565B2087BC3F897C9277A7293F59E4889
   19  echo "deb http://miktex.org/download/ubuntu bionic universe" | sudo tee /etc/apt/sources.list.d/miktex.list
   20  sudo apt-get update
   21  sudo apt-get install miktex
   22  quit
   23  exit
   24  ip addr
   25  clear
   26  sudo lshw -C NETWORK
   27  clear
   28  sudo lshw -C network
   29  sudo apt-get update -y
   30  sudo apt-get install -y r8168-dkms
   31  sudo nmcli networking off
   32  sudo nmcli networking on
   33  sudo apt-get install wine
   34  wine ./basic-miktex-22.10-x64.exe
   35  sudo apt install wine-development
   36  wine ./basic-miktex-22.10-x64.exe
   37  ls
   38  cd Documents/
   39  ls
   40  cd DTL\ work/
   41  LS
   42  ls
   43  touch latex.tex
   44  ls
   45  touch assignment\2.pdf
   46  ls
   47  rmdir assignment2.pdf
   48  rm assignment2.pdf
   49  ls
   50  touch assignment2.c
   51  ls
```

```
   51  ls
   52  gopen assignment2.c
   53  cat assignment2.c
   54  ls
   55  gcc assignment2.c
   56  sudo apt install gcc
   57  gcc assignment2.c
   58  clear
   59  ls
   60  nl assignment2.c
   61  ls
   62  vi assignment2.c
   63  vi  file.c
   64  vi file.c
   65  vi file1.c
   66  vigdb.c
   67  vi vi gdb.c
   68  ls
   69  l
   70  ls
   71  touch assg2.c
   72  s
   73  ls
   74  vi assg2.c
   75  vi p.c
   76  vi hello.c
   77  sudo apt update
   78  sudo apt install build -essential
   79  sudo apt install build-essential
   80  sudo apt --fix-broken install
   81  sudo apt install build-essential
   82  sudo apt-get install manpages-dev
   83  gcc --version
   84  sudo apt-get install vim
   85  vi file.c
   86  sudo netplan generate
   87  sudo netplan apply
   88  reboot
   89  lsmod | grep r8152
   90  ifconfig
   91  ipconfig
   92  lsmod | grep r8152
   93  dmesg | grep r8152
   94  lspci
   95  clear
   96  sudo lshw -c network
   97  ip a
   98  ls
   99  vi file,c
  100  cd Documents/
  101  ls
  102  vi hello.c
```

```
100  cd Documents/
101  ls
102  vi hello.c
103  gcc hello.c
104  vi hello.c
105  gcc hello.c
106  ls
107  gcc -g hello.c
108  gdb a.out
109  dmesg | grep -i bluetooth
110  sudo apt-get update
111  sudo apt-get install blueman
112  sudo rm /var/lib/bluetooth/cache/*
113  mv  ~/.config/pulse/ ~/.config/pulse_old/
114  rm -r  ~/.config/pulse/
115  ls
116  cd PPL\ Assignment/
117  LS
118  ls
119  vi assignment2.c
120  gcc -S assignment2.c
121  vi assignment2.c
122  clear
123  ls
124  gcc -S assignment2.c
125  ls
126  gcc --save-temp assignment2.c
127  ls
128  objdump -l assignment2.o
129  objdump -d assignment2.c
130  objdump -d assignment2.o
131  clear
132  ls
133  cd..
134  cd ..
135  ls
136  rmdir ppl2
137  mkdir ppl2
138  ls
139  cd ppl2
140  ls
141  cd ..
142  ls
143  cd PPL Assignment
144  cd PPL/Assignment
145  cd PPL\ Assignment/
146  LS
147  ls
148  vi assignment2.c
149  cd..
150  cd ..
151  ls
```

```
151  ls
152  cd ppl2
153  vi ppl2.c
154  cd ..
155  clear
156  ls
157  cd ppl2
158  ls
159  vi ppl2.c
160  gcc -s ppl2.c
161  vi ppl2.c
162  clear
163  ls
164  vi ppl2.c
165  gcc -s ppl2.c
166  ls
167  gcc --save-temp ppl2.c
168  ls
169  objdump -l a-ppl2.o
170  objdump -d  a-ppl2.o
171  objdump -r a-ppl2.o
172  gcc -g ppl2.c
173  gdb a.out
174  ls
175  cd ppl2
176  ls
177  gcc -g ppl2.c
178  gdb a.out
179  ls
180  ls -a
181  ls a
182  ls -a           ###asd
183  ls -a           asss
184  pwd     ///asdf
185  asd     asdf
186  clear
187  ls
188  ls -a
189  ls -R
190  ls -lh
191  pwd
192  ls
193  clc
194  clear
195  ls
196  clear
197  sudo
198  sudo-k
199  sudo -k
200  sudo -h
201  sudo -g
202  clear
```

```
207  pwd -P
208  LS
209  ls
210  cd Documents/
211  ls
212  clear
213  cd ..
214  ls
215  clear
216  pwd
217  pwd -L
218  pwd -logical
219  pwd -P
220  CLEAR
221  clear
222  pwd
223  sudo -L
224  CLEAR
225  clear
226  pwd
227  pwd -L
228  pwd -P
229  ls
230  ls -R
231  ls -a
232  ls -lh
233  cd Documents/
234  cd-
235  cd ~
236  cd ..
237  ls
238  cd pawan/Documents/
239  ls
240  tac hello.c
241  cat hello.c
242  cat > Dtl.txt
243  cat >Dtlpage2.txt
244  cat Dtl.txt Dtlpage2.txt > Dtlpage3.txt
245  tac Dtlpage3.txt
246  cp hello.c
247  cp --help
248  pwd
249  cp hello.c/home/pawan/Documents
250  cp hello.c/home/pawan/Downloads
251  cp Dtlpage2.txt Dtlpage3.txt
252  cat Dtlpage3.txt
253  mv Dtl.txt /home/pawan/Downloads
254  cd ..
255  cd Downloads/
256  ls
257  mv Dtl.txt Dtlpage1.txt
258  ls
```

```
258  ls
259  cd ..
260  cd Documents/
261  ls
262  mkdir Assignment
263  mkdir Assignment/bash-scripting
264  ls
265  cd Assignment/
266  ls
267  mkdir -p bash-scripting/shell/terminal
268  ls
269  cd bash-scripting/
270  ls
271  cd shell/
272  ls
273  cd ..
274  ls
275  mkdir -m777 Documents
276  mkdir -v
277  mkdir -V
278  rmdir -p Assignment/bash-scripting/shell
279  rmdir -p Assignment/bash-scripting/shell/terminal/
280  ls
281  cd Documents/
282  ls
283  mv Documents Assignment
284  mkdir -m777 Documents
285  ls
286  rmdir Documents
287  ls
288  cd ..
289  ls
290  rmdir Documents
291  ls
292  touch main.c
293  touch index.c
294  touch design.c
295  ls
296  rm index.c
297  ls
298  rm design.c main.c
299  ls
300  rm -i
301  touch Main.c
302  rm -i Main.c
303  ls
304  rm -i Main.c
305  ls
306  touch main.c index.c
307  ls
308  rm -f main.c
309  ls
```

```
    319  grep stdio.h hello.c
    320  grep int hello.c
    321  df -h hello.c
    322  df -m hello.c
    323  df -k hello.c
    324  df -T hello.c
    325  du/home/pawan/Documents/
    326  pwd
    327  du /home/pawan/Documents
    328  du -s
    329  du -m
    330  du -s home/pawan/Documents
    331  du -s /home/pawan/Documents
    332  du -m /home/pawan/Documents
    333  du k /home/pawan/Documents
    334  du -h /home/pawan/Documents
    335  head Dtlpage3.txt
    336  head hello.c
    337  head -n 6 hello.c
    338  head -n -5 hello.c
    339  head -n 4 hello.c
    340  head -c
    341  head -c hello.c
    342  head -bytes
    343  head --help
    344  head -q hello.c
    345  tail -n hello.c
    346  tail hello.c
    347  diff Dtlpage1.txt Dtlpage2.txt
    348  diff hello.c Dtlpage3.txt
    349  diff -c hello.c Dtlpage3.txt
    350  diff -u hello.c Dtlpage3.txt
    351  diff -i hello.c Dtlpage3.txt
    352  tar -cvf Archive.tar/home/pawn/Documents
    353  chmod 777 hello.c
    354  ls
    355  chmod -c hello.c
    356  chmod -c 777 hello.c
    357  chmod -f 777 hello.c
    358  chmod -v 777 hello.c
    359  jobs hello.c
    360  jobs Dtlpage3.txt
    361  jobs -l hello.c
    362  ps ux
    363  kill 1761 pid
    364  ls
    365  cd Documents/
    366  ls
    367  ping google.com
    368  wget https://wordpress.org/latest.zip
    369  uname
    370  uname -a
```

```
    369  uname
    370  uname -a
    371  uname -s
    372  uname -n
    373  top
    374  history
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ history -d offset
bash: history: offset: history position out of range
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ history -a
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ history -c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ history
    1  history
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ man ls
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ man ls
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ echo "Pawan"
Pawan
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ echo -n
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ echo -n "DTL"
DTLpawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ echo -e "Pawan"
Pawan
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ echo /a "Pawan"
/a Pawan
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ echo \a "Pawan"
a Pawan
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ echo \b "Pawan"
b Pawan
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ echo \c "Pawan"
c Pawan
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ echo -E "Pawan"
Pawan
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ zip archive.zip hello.c
  adding: hello.c (deflated 24%)
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ unzip archive.zip
Archive:  archive.zip
replace hello.c? [y]es, [n]o, [A]ll, [N]one, [r]ename: Y
  inflating: hello.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ ls
a.out  archive.zip  Dtlpage2.txt  Dtlpage3.txt  hello.c  latest.zip
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ hostname
pawan-HP-Pavilion-Laptop-14-ec0xxx
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ hostname -a

pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ hostname -A
pawan-HP-Pavilion-Laptop-14-ec0xxx pawan-HP-Pavilion-Laptop-14-ec0xxx pawan-HP-Pavilion-Laptop-14-ec0xxx
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ hostname -i
127.0.1.1
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ apt -get update
E: Command line option 'g' [from -get] is not understood in combination with the other options.
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ sudo apt -get update
[sudo] password for pawan:
E: Command line option 'g' [from -get] is not understood in combination with the other options.
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ apt-get update
```

```
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ apt-get update
Reading package lists... Done
E: Could not open lock file /var/lib/apt/lists/lock - open (13: Permission denied)
E: Unable to lock directory /var/lib/apt/lists/
W: Problem unlinking the file /var/cache/apt/pkgcache.bin - RemoveCaches (13: Permission denied)
W: Problem unlinking the file /var/cache/apt/srcpkgcache.bin - RemoveCaches (13: Permission denied)
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ apt-get upgrade
E: Could not open lock file /var/lib/dpkg/lock-frontend - open (13: Permission denied)
E: Unable to acquire the dpkg frontend lock (/var/lib/dpkg/lock-frontend), are you root?
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ sudo apt-get upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following packages were automatically installed and are no longer required:
  libflashrom1 libftdi1-2 libqt5qml5
Use 'sudo apt autoremove' to remove them.
The following packages have been kept back:
  grub-common grub-pc grub-pc-bin grub2-common libnvidia-cfg1-515
  libnvidia-compute-515 libnvidia-decode-515 libnvidia-encode-515
  libnvidia-extra-515 libnvidia-fbc1-515 libnvidia-gl-515 libsasl2-2
  libsasl2-modules libsasl2-modules-db libsasl2-modules-gssapi-mit
  libudev1 linux-generic-hwe-22.04 linux-headers-generic-hwe-22.04
  linux-image-generic-hwe-22.04
  linux-modules-nvidia-515-generic-hwe-22.04 nvidia-compute-utils-515
  nvidia-driver-515 nvidia-kernel-common-515 nvidia-kernel-source-515
  nvidia-utils-515 udev xserver-xorg-video-nvidia-515
The following packages will be upgraded:
  apport apport-gtk binutils binutils-common binutils-x86-64-linux-gnu
  ca-certificates gnome-remote-desktop google-chrome-stable
  initramfs-tools initramfs-tools-bin initramfs-tools-core libbinutils
  libbpf0 libctf-nobfd0 libctf0 libcurl3-gnutls libcurl4 libfprint-2-2
  libglib2.0-0 libglib2.0-bin libglib2.0-data libksba8
  libnautilus-extension1a libnvidia-common-515 libpython3.10
  libpython3.10-minimal libpython3.10-stdlib libruby3.0 libsmbclient
  libtiff5 libwbclient0 libxml2 linux-firmware linux-libc-dev nautilus
  nautilus-data python3-apport python3-distupgrade python3-pil
  python3-problem-report python3-tz python3-update-manager python3.10
  python3.10-minimal ruby3.0 samba-libs snapd tzdata
  ubuntu-advantage-tools ubuntu-release-upgrader-core
  ubuntu-release-upgrader-gtk update-manager update-manager-core
  xserver-common xserver-xephyr xserver-xorg-core xserver-xorg-legacy
  xwayland
58 upgraded, 0 newly installed, 0 to remove and 27 not upgraded.
Need to get 391 MB of archives.
After this operation, 195 kB disk space will be freed.
Do you want to continue? [Y/n] Y
Get:1 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libpython3.10 amd64 3.10.6-1~22.04.2 [1,955 kB]
Get:2 https://dl.google.com/linux/chrome/deb stable/main amd64 google-chrome-stable amd64 108.0.5359.124-1 [93.0 MB]
Get:3 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 python3.10 amd64 3.10.6-1~22.04.2 [497 kB]
Get:4 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libpython3.10-stdlib amd64 3.10.6-1~22.04.2 [1,832 kB]
Get:5 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 python3.10-minimal amd64 3.10.6-1~22.04.2 [2,251 kB]
```

```
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ sudo apt-get update
Hit:2 http://in.archive.ubuntu.com/ubuntu jammy InRelease
Hit:3 https://dl.google.com/linux/chrome/deb stable InRelease
Get:4 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease [114 kB]
Get:5 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:6 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease [99.8 kB]
Hit:1 https://mirror.kku.ac.th/CTAN/systems/win32/miktex/setup/deb bionic InRelease
Fetched 324 kB in 5s (67.2 kB/s)
Reading package lists... Done
W: http://miktex.org/download/ubuntu/dists/bionic/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.
N: Skipping acquire of configured file 'universe/binary-i386/Packages' as repository 'http://miktex.org/download/ubuntu bio
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ sudo apt-get check
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ nano pawan.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ vi pawan.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ jed pawan.c
Command 'jed' not found, but can be installed with:
sudo apt install jed
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ sudo apt install jed
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libflashrom1 libftdi1-2 libqt5qml5
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  jed-common libonig5 libslang2-modules slsh
Suggested packages:
  gpm
The following NEW packages will be installed:
  jed jed-common libonig5 libslang2-modules slsh
0 upgraded, 5 newly installed, 0 to remove and 27 not upgraded.
Need to get 940 kB of archives.
After this operation, 4,338 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://in.archive.ubuntu.com/ubuntu jammy/main amd64 libonig5 amd64 6.9.7.1-2build1 [172 kB]
Get:2 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 libslang2-modules amd64 2.3.2-5build4 [88.7 kB]
Get:3 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 slsh amd64 2.3.2-5build4 [125 kB]
Get:4 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 jed-common all 1:0.99.20~pre.158+dfsg-1 [387 kB]
Get:5 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 jed amd64 1:0.99.20~pre.158+dfsg-1 [168 kB]
Fetched 940 kB in 3s (324 kB/s)
Selecting previously unselected package libonig5:amd64.
(Reading database ... 214469 files and directories currently install
ed.)
Preparing to unpack .../libonig5_6.9.7.1-2build1_amd64.deb ...
Unpacking libonig5:amd64 (6.9.7.1-2build1) ...
Selecting previously unselected package libslang2-modules:amd64.
Preparing to unpack .../libslang2-modules_2.3.2-5build4_amd64.deb ..
.
Unpacking libslang2-modules:amd64 (2.3.2-5build4) ...
```

```
Selecting previously unselected package jed-common.
Preparing to unpack .../jed-common_1%3a0.99.20~pre.158+dfsg-1_all.de
b ...
Unpacking jed-common (1:0.99.20~pre.158+dfsg-1) ...
Selecting previously unselected package jed.
Preparing to unpack .../jed_1%3a0.99.20~pre.158+dfsg-1_amd64.deb ...
Unpacking jed (1:0.99.20~pre.158+dfsg-1) ...
Setting up libonig5:amd64 (6.9.7.1-2build1) ...
Setting up libslang2-modules:amd64 (2.3.2-5build4) ...
Setting up slsh (2.3.2-5build4) ...
Setting up jed-common (1:0.99.20~pre.158+dfsg-1) ...
Running /usr/share/jed/compile/jed-common...done
Setting up jed (1:0.99.20~pre.158+dfsg-1) ...
update-alternatives: using /usr/bin/jed to provide /usr/bin/editor (
editor) in auto mode
update-alternatives: using /usr/bin/jed to provide /usr/bin/jed-scri
pt (jed-script) in auto mode
Updating precompiled files...done
Processing triggers for mailcap (3.70+nmu1ubuntu1) ...
Processing triggers for desktop-file-utils (0.26-1ubuntu3) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu3) ...
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for install-info (6.8-4build1) ...
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ jed pawan.c

[3]+  Stopped                 jed pawan.c
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ htop -d
Command 'htop' not found, but can be installed with:
sudo snap install htop  # version 3.2.1, or
sudo apt  install htop  # version 3.0.5-7build2
See 'snap info htop' for additional versions.
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ sudo atp install htop
sudo: atp: command not found
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ sudo apt install htop
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libflashrom1 libftdi1-2 libqt5qml5
Use 'sudo apt autoremove' to remove them.
Suggested packages:
  lm-sensors
The following NEW packages will be installed:
  htop
0 upgraded, 1 newly installed, 0 to remove and 27 not upgraded.
Need to get 128 kB of archives.
After this operation, 342 kB of additional disk space will be used.
Get:1 http://in.archive.ubuntu.com/ubuntu jammy/main amd64 htop amd64 3.0.5-7build2 [128 kB]
Fetched 128 kB in 2s (60.5 kB/s)
Selecting previously unselected package htop.
```

```
Preparing to unpack .../htop_3.0.5-7build2_amd64.deb ...
Unpacking htop (3.0.5-7build2) ...
Setting up htop (3.0.5-7build2) ...
Processing triggers for mailcap (3.70+nmu1ubuntu1) ...
Processing triggers for desktop-file-utils (0.26-1ubuntu3) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu3) ...
Processing triggers for man-db (2.10.2-1) ...
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ htop -d
htop: option requires an argument -- 'd'
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ htop --d
htop: option '--delay' requires an argument
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ htop -C
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ ps
   PID TTY          TIME CMD
 10880 pts/0    00:00:00 bash
 11001 pts/0    00:00:00 ping
 11187 pts/0    00:00:00 top
 31337 pts/0    00:00:00 jed
 31625 pts/0    00:00:00 htop
 31637 pts/0    00:00:00 ps
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ ps -T
   PID   SPID TTY          TIME CMD
 10880  10880 pts/0    00:00:00 bash
 11001  11001 pts/0    00:00:00 ping
 11187  11187 pts/0    00:00:00 top
 31337  31337 pts/0    00:00:00 jed
 31625  31625 pts/0    00:00:00 htop
 31640  31640 pts/0    00:00:00 ps
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ ps -u pawan
   PID TTY          TIME CMD
  8521 ?        00:00:00 systemd
  8522 ?        00:00:00 (sd-pam)
  8528 ?        00:00:00 pipewire
  8529 ?        00:00:00 pipewire-media-
  8530 ?        00:00:00 pulseaudio
  8541 ?        00:00:00 gnome-keyring-d
  8545 ?        00:00:00 dbus-daemon
  8552 ?        00:00:00 gvfsd
  8569 ?        00:00:00 gvfsd-fuse
  8570 ?        00:00:00 xdg-document-po
  8580 ?        00:00:00 xdg-permission-
  8632 ?        00:00:01 tracker-miner-f
  8653 ?        00:00:00 gvfs-udisks2-vo
  8658 ?        00:00:00 gvfs-goa-volume
  8662 ?        00:00:02 goa-daemon
  8669 ?        00:00:00 goa-identity-se
  8674 ?        00:00:00 gvfs-mtp-volume
  8679 ?        00:00:00 gvfs-afc-volume
  8685 tty2     00:00:00 gdm-x-session
  8686 ?        00:00:00 gvfs-gphoto2-vo
  8688 tty2     00:00:51 Xorg
```

```
 9260 ?        00:00:00 gsd-color
 9262 ?        00:00:00 gsd-datetime
 9264 ?        00:00:00 gsd-housekeepin
 9267 ?        00:00:00 gsd-keyboard
 9272 ?        00:00:00 gsd-media-keys
 9274 ?        00:00:00 gsd-power
 9277 ?        00:00:00 gsd-print-notif
 9278 ?        00:00:00 gsd-rfkill
 9279 ?        00:00:00 gsd-screensaver
 9281 ?        00:00:00 gsd-sharing
 9284 ?        00:00:00 gsd-smartcard
 9288 ?        00:00:00 gsd-sound
 9291 ?        00:00:00 gsd-wacom
 9292 ?        00:00:00 gsd-xsettings
 9300 ?        00:00:00 gsd-disk-utilit
 9308 ?        00:00:00 blueman-applet
 9316 ?        00:00:00 ibus-dconf
 9318 ?        00:00:01 ibus-extension-
 9325 ?        00:00:00 evolution-alarm
 9341 ?        00:00:00 ibus-x11
 9344 ?        00:00:00 ibus-portal
 9390 ?        00:00:02 snap-store
 9476 ?        00:00:00 ibus-engine-sim
 9486 ?        00:00:00 gjs
 9536 ?        00:00:00 gsd-printer
 9580 ?        00:00:00 obexd
 9582 ?        00:00:00 blueman-tray
 9608 ?        00:00:01 gjs
10161 ?        00:01:37 firefox
10399 ?        00:00:00 Socket Process
10423 ?        00:00:04 Privileged Cont
10458 ?        00:00:00 snap
10551 ?        00:00:00 WebExtensions
10555 ?        00:02:34 Isolated Web Co
10813 ?        00:00:00 Isolated Web Co
10859 ?        00:00:13 gnome-terminal-
10880 pts/0    00:00:00 bash
10890 ?        00:00:00 RDD Process
10892 ?        00:00:00 Utility Process
10926 ?        00:00:00 update-notifier
11001 pts/0    00:00:00 ping
11035 ?        00:00:00 Isolated Web Co
11039 ?        00:00:04 Isolated Web Co
11100 ?        00:00:02 Isolated Web Co
11104 ?        00:00:00 Web Content
11187 pts/0    00:00:00 top
31337 pts/0    00:00:00 jed
31369 ?        00:00:00 Web Content
31408 ?        00:00:00 Web Content
31625 pts/0    00:00:00 htop
31642 pts/0    00:00:00 ps
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ ps -A
```

```
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$ ps -A          You can paste the image from the clipboard.
  PID TTY          TIME CMD
    1 ?        00:00:04 systemd
    2 ?        00:00:00 kthreadd
    3 ?        00:00:00 rcu_gp
    4 ?        00:00:00 rcu_par_gp
    5 ?        00:00:00 netns
    7 ?        00:00:00 kworker/0:0H-events_highpri
   10 ?        00:00:00 mm_percpu_wq
   11 ?        00:00:00 rcu_tasks_rude_
   12 ?        00:00:00 rcu_tasks_trace
   13 ?        00:00:00 ksoftirqd/0
   14 ?        00:00:09 rcu_sched
   15 ?        00:00:00 migration/0
   16 ?        00:00:00 idle_inject/0
   17 ?        00:00:00 cpuhp/0
   18 ?        00:00:00 cpuhp/1
   19 ?        00:00:00 idle_inject/1
   20 ?        00:00:00 migration/1
   21 ?        00:00:00 ksoftirqd/1
   23 ?        00:00:00 kworker/1:0H-events_highpri
   24 ?        00:00:00 cpuhp/2
   25 ?        00:00:00 idle_inject/2
   26 ?        00:00:00 migration/2
   27 ?        00:00:00 ksoftirqd/2
   29 ?        00:00:00 kworker/2:0H-events_highpri
   30 ?        00:00:00 cpuhp/3
   31 ?        00:00:00 idle_inject/3
   32 ?        00:00:00 migration/3
   33 ?        00:00:00 ksoftirqd/3
   35 ?        00:00:00 kworker/3:0H-events_highpri
   36 ?        00:00:00 cpuhp/4
   37 ?        00:00:00 idle_inject/4
   38 ?        00:00:00 migration/4
   39 ?        00:00:00 ksoftirqd/4
   41 ?        00:00:00 kworker/4:0H-events_highpri
   42 ?        00:00:00 cpuhp/5
   43 ?        00:00:00 idle_inject/5
   44 ?        00:00:00 migration/5
   45 ?        00:00:00 ksoftirqd/5
   47 ?        00:00:00 kworker/5:0H-events_highpri
   48 ?        00:00:00 cpuhp/6
   49 ?        00:00:00 idle_inject/6
   50 ?        00:00:00 migration/6
   51 ?        00:00:00 ksoftirqd/6
   53 ?        00:00:00 kworker/6:0H-events_highpri
   54 ?        00:00:00 cpuhp/7
   55 ?        00:00:00 idle_inject/7
   56 ?        00:00:00 migration/7
   57 ?        00:00:00 ksoftirqd/7
   59 ?        00:00:00 kworker/7:0H-events_highpri
   60 ?        00:00:00 cpuhp/8
```

```
  59 ?     00:00:00 kworker/7:0H-events_highpri        |t   You can paste the image from the clipboard.
  60 ?     00:00:00 cpuhp/8
  61 ?     00:00:00 idle_inject/8
  62 ?     00:00:00 migration/8
  63 ?     00:00:00 ksoftirqd/8
  65 ?     00:00:00 kworker/8:0H-events_highpri
  66 ?     00:00:00 cpuhp/9
  67 ?     00:00:00 idle_inject/9
  68 ?     00:00:00 migration/9
  69 ?     00:00:00 ksoftirqd/9
  71 ?     00:00:00 kworker/9:0H-kblockd
  72 ?     00:00:00 cpuhp/10
  73 ?     00:00:00 idle_inject/10
  74 ?     00:00:00 migration/10
  75 ?     00:00:00 ksoftirqd/10
  77 ?     00:00:00 kworker/10:0H-events_highpri
  78 ?     00:00:00 cpuhp/11
  79 ?     00:00:00 idle_inject/11
  80 ?     00:00:00 migration/11
  81 ?     00:00:00 ksoftirqd/11
  83 ?     00:00:00 kworker/11:0H-events_highpri
  84 ?     00:00:00 kdevtmpfs
  85 ?     00:00:00 inet_frag_wq
  86 ?     00:00:00 kauditd
  87 ?     00:00:00 khungtaskd
  88 ?     00:00:00 oom_reaper
  89 ?     00:00:00 writeback
  90 ?     00:00:00 kcompactd0
  91 ?     00:00:00 ksmd
  92 ?     00:00:00 khugepaged
 139 ?     00:00:00 kintegrityd
 140 ?     00:00:00 kblockd
 141 ?     00:00:00 blkcg_punt_bio
 144 ?     00:00:00 tpm_dev_wq
 145 ?     00:00:00 ata_sff
 147 ?     00:00:00 md
 148 ?     00:00:00 edac-poller
 149 ?     00:00:00 devfreq_wq
 150 ?     00:00:00 watchdogd
 152 ?     00:00:00 kworker/8:1H-kblockd
 153 ?     00:00:00 irq/25-AMD-Vi
 156 ?     00:00:00 kswapd0
 157 ?     00:00:00 ecryptfs-kthrea
 159 ?     00:00:00 kthrotld
 160 ?     00:00:00 irq/33-pciehp
 163 ?     00:00:01 kworker/3:1-events
 169 ?     00:00:00 acpi_thermal_pm
 171 ?     00:00:00 vfio-irqfd-clea
 176 ?     00:00:00 mld
 177 ?     00:00:00 ipv6_addrconf
 179 ?     00:00:00 kworker/2:1H-kblockd
 187 ?     00:00:00 kstrp
```

```
 187 ?     00:00:00 kstrp
 190 ?     00:00:00 zswap-shrink
 197 ?     00:00:00 charger_manager
 198 ?     00:00:00 irq/26-ACPI:Eve
 199 ?     00:00:00 irq/27-ACPI:Eve
 200 ?     00:00:00 irq/28-ACPI:Eve
 201 ?     00:00:00 irq/29-ACPI:Eve
 202 ?     00:00:00 irq/30-ACPI:Eve
 203 ?     00:00:00 irq/31-ACPI:Eve
 204 ?     00:00:00 irq/32-ACPI:Eve
 227 ?     00:00:00 kworker/6:1H-kblockd
 240 ?     00:00:00 kworker/7:1H-kblockd
 259 ?     00:00:00 nvme-wq
 260 ?     00:00:00 nvme-reset-wq
 262 ?     00:00:00 nvme-delete-wq
 263 ?     00:00:12 irq/46-ELAN0754
 266 ?     00:00:00 kworker/10:1H-kblockd
 268 ?     00:00:00 kworker/4:1H-kblockd
 269 ?     00:00:00 kworker/5:1H-kblockd
 270 ?     00:00:00 kworker/0:1H-kblockd
 271 ?     00:00:00 kworker/11:1H-kblockd
 272 ?     00:00:00 kworker/3:1H-kblockd
 302 ?     00:00:01 jbd2/nvme0n1p5-
 303 ?     00:00:00 ext4-rsv-conver
 344 ?     00:00:46 systemd-journal
 392 ?     00:00:00 kworker/9:1H-kblockd
 407 ?     00:00:02 systemd-udevd
 487 ?     00:00:00 kworker/1:1H-kblockd
 501 ?     00:00:00 cryptd
 513 ?     00:00:00 cfg80211
 574 ?     00:00:00 amd_iommu_v2
 613 ?     00:00:17 irq/72-rtw89_pc
 657 ?     00:00:00 nv_queue
 658 ?     00:00:00 nv_queue
 659 ?     00:00:10 gfx
 660 ?     00:00:00 comp_1.0.0
 661 ?     00:00:00 comp_1.1.0
 662 ?     00:00:00 comp_1.2.0
 663 ?     00:00:00 comp_1.3.0
 664 ?     00:00:00 comp_1.0.1
 665 ?     00:00:00 comp_1.1.1
 666 ?     00:00:00 comp_1.2.1
 667 ?     00:00:00 comp_1.3.1
 668 ?     00:00:00 sdma0
 669 ?     00:00:00 vcn_dec
 670 ?     00:00:00 vcn_enc0
 671 ?     00:00:00 vcn_enc1
 672 ?     00:00:00 jpeg_dec
 687 ?     00:00:09 systemd-oomd
 689 ?     00:00:00 systemd-resolve
 697 ?     00:00:00 systemd-timesyn
 725 ?     00:00:11 accounts-daemon
```

```
725 ?        00:00:11 accounts-daemon
726 ?        00:00:00 nvidia-modeset/
727 ?        00:00:00 nvidia-modeset/
728 ?        00:00:01 acpid
732 ?        00:00:01 irq/77-nvidia
733 ?        00:00:00 nvidia
734 ?        00:00:00 nv_queue
736 ?        00:00:00 anacron
738 ?        00:00:00 avahi-daemon
741 ?        00:00:00 bluetoothd
742 ?        00:00:00 cron
743 ?        00:00:04 dbus-daemon
745 ?        00:00:00 dm_vblank_contr
746 ?        00:00:01 NetworkManager
751 ?        00:00:00 irqbalance
753 ?        00:00:00 networkd-dispat
754 ?        00:00:03 polkitd
755 ?        00:00:00 power-profiles-
756 ?        00:00:22 rsyslogd
761 ?        00:00:00 switcheroo-cont
762 ?        00:00:00 systemd-logind
764 ?        00:00:00 udisksd
765 ?        00:00:00 wpa_supplicant
770 ?        00:00:00 avahi-daemon
797 ?        00:00:00 ModemManager
827 ?        00:00:00 cupsd
848 ?        00:00:00 card0-crtc0
849 ?        00:00:00 card0-crtc1
850 ?        00:00:00 card0-crtc2
851 ?        00:00:00 card0-crtc3
926 ?        00:00:00 unattended-upgr
986 ?        00:00:00 gdm3
1130 ?       00:00:00 UVM global queu
1131 ?       00:00:00 UVM deferred re
1132 ?       00:00:00 UVM Tools Event
1136 ?       00:00:00 nvidia-persiste
1148 ?       00:00:00 rtkit-daemon
1256 ?       00:00:04 upowerd
1475 ?       00:00:07 packagekitd
1585 ?       00:00:00 colord
1727 ?       00:00:00 cups-browsed
1736 ?       00:00:00 kerneloops
1743 ?       00:00:00 kerneloops
1853 ?       00:00:00 krfcommd
2811 ?       00:00:01 fwupd
6647 ?       00:00:02 kworker/8:2-mm_percpu_wq
7088 ?       00:00:06 kworker/u32:3-events_unbound
7617 ?       00:00:01 kworker/u33:1-rtw89_tx_wq
7804 ?       00:00:03 kworker/u32:4-events_power_efficient
7903 ?       00:00:00 kworker/9:0-events_freezable
7932 ?       00:00:00 kworker/4:0-mm_percpu_wq
7936 ?       00:00:00 kworker/11:2-mm_percpu_wq
```

```
7936 ?       00:00:00 kworker/11:2-mm_percpu_wq
7957 ?       00:00:00 kworker/7:2-mm_percpu_wq
8511 ?       00:00:00 gdm-session-wor
8521 ?       00:00:00 systemd
8522 ?       00:00:00 (sd-pam)
8528 ?       00:00:00 pipewire
8529 ?       00:00:00 pipewire-media-
8530 ?       00:00:00 pulseaudio
8541 ?       00:00:00 gnome-keyring-d
8545 ?       00:00:00 dbus-daemon
8552 ?       00:00:00 gvfsd
8569 ?       00:00:00 gvfsd-fuse
8570 ?       00:00:00 xdg-document-po
8580 ?       00:00:00 xdg-permission-
8587 ?       00:00:00 fusermount3
8632 ?       00:00:01 tracker-miner-f
8653 ?       00:00:00 gvfs-udisks2-vo
8658 ?       00:00:00 gvfs-goa-volume
8662 ?       00:00:02 goa-daemon
8669 ?       00:00:00 goa-identity-se
8674 ?       00:00:00 gvfs-mtp-volume
8679 ?       00:00:00 gvfs-afc-volume
8685 tty2    00:00:00 gdm-x-session
8686 ?       00:00:00 gvfs-gphoto2-vo
8688 tty2    00:00:51 Xorg
8766 ?       00:00:00 gnome-keyring-d
8772 tty2    00:00:00 gnome-session-b
8844 ?       00:00:00 snapd-desktop-i
8929 ?       00:00:00 at-spi-bus-laun
8937 ?       00:00:00 dbus-daemon
8941 ?       00:00:00 snapd-desktop-i
8945 ?       00:00:00 xdg-desktop-por
8964 ?       00:00:00 xdg-desktop-por
8975 ?       00:00:00 gnome-session-c
9002 ?       00:00:00 gnome-session-b
9037 ?       00:00:49 gnome-shell
9053 ?       00:00:00 xdg-desktop-por
9073 ?       00:00:00 at-spi2-registr
9128 ?       00:00:00 gnome-shell-cal
9134 ?       00:00:00 evolution-sourc
9141 ?       00:00:00 dconf-service
9145 ?       00:00:00 gvfsd-metadata
9158 ?       00:00:01 evolution-calen
9176 ?       00:00:00 evolution-addre
9201 ?       00:00:00 gvfsd-trash
9220 ?       00:00:00 gjs
9255 ?       00:00:00 sh
9256 ?       00:00:00 gsd-a11y-settin
9258 ?       00:00:00 ibus-daemon
9260 ?       00:00:00 gsd-color
9262 ?       00:00:00 gsd-datetime
9264 ?       00:00:00 gsd-housekeepin
```

You can paste the image from the clipboard.

```
10399 ?        00:00:00 Socket Process
10423 ?        00:00:04 Privileged Cont
10458 ?        00:00:00 snap
10551 ?        00:00:00 WebExtensions
10555 ?        00:02:34 Isolated Web Co
10813 ?        00:00:00 Isolated Web Co
10859 ?        00:00:13 gnome-terminal-
10880 pts/0    00:00:00 bash
10890 ?        00:00:00 RDD Process
10892 ?        00:00:00 Utility Process
10926 ?        00:00:00 update-notifier
11001 pts/0    00:00:00 ping
11035 ?        00:00:00 Isolated Web Co
11039 ?        00:00:04 Isolated Web Co
11100 ?        00:00:02 Isolated Web Co
11104 ?        00:00:00 Web Content
11187 pts/0    00:00:00 top
11190 ?        00:00:00 kworker/0:2-events
11229 ?        00:00:00 kworker/6:0-events
11230 ?        00:00:00 kworker/11:0-events
11232 ?        00:00:00 kworker/2:0-mm_percpu_wq
11244 ?        00:00:00 kworker/5:0-mm_percpu_wq
11280 ?        00:00:00 kworker/1:1-mm_percpu_wq
11296 ?        00:00:00 kworker/9:2-events
12796 ?        00:00:00 kworker/u32:0-ext4-rsv-conversion
19017 ?        00:00:01 kworker/u32:6-events_unbound
22598 ?        00:00:00 kworker/7:0-mm_percpu_wq
22659 ?        00:00:00 kworker/8:0-mm_percpu_wq
23104 ?        00:00:01 snapd
23324 ?        00:00:00 kworker/10:1-events
30985 ?        00:00:00 kworker/6:1-events
31014 ?        00:00:00 kworker/5:1-mm_percpu_wq
31060 ?        00:00:00 kworker/3:2-events
31061 ?        00:00:00 kworker/2:1-events
31063 ?        00:00:00 kworker/u33:2-rtw89_tx_wq
31331 ?        00:00:00 kworker/0:1-mm_percpu_wq
31332 ?        00:00:00 kworker/1:0
31336 ?        00:00:00 kworker/4:1
31337 pts/0    00:00:00 jed
31345 ?        00:00:00 kworker/10:0-mm_percpu_wq
31369 ?        00:00:00 Web Content
31408 ?        00:00:00 Web Content
31430 ?        00:00:00 kworker/8:1-kec_query
31624 ?        00:00:00 kworker/9:1
31625 pts/0    00:00:00 htop
31635 ?        00:00:00 kworker/u33:0-rtw89_tx_wq
31636 ?        00:00:00 kworker/2:2-mm_percpu_wq
31638 ?        00:00:00 kworker/6:2
31641 ?        00:00:00 kworker/3:0
31643 pts/0    00:00:00 ps
pawan@pawan-HP-Pavilion-Laptop-14-ec0xxx:~/Documents$
```

You can paste the image from the clipboard.