

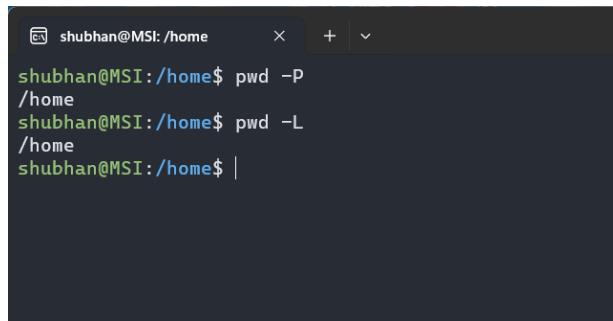
Shubhan Singh

SE-Comps B/Batch C

2022300118

OS Experiment 1: Basic linux commands

1. Pwd



```
shubhan@MSI: /home$ pwd -P
/home
shubhan@MSI: /home$ pwd -L
/home
shubhan@MSI: /home$ |
```

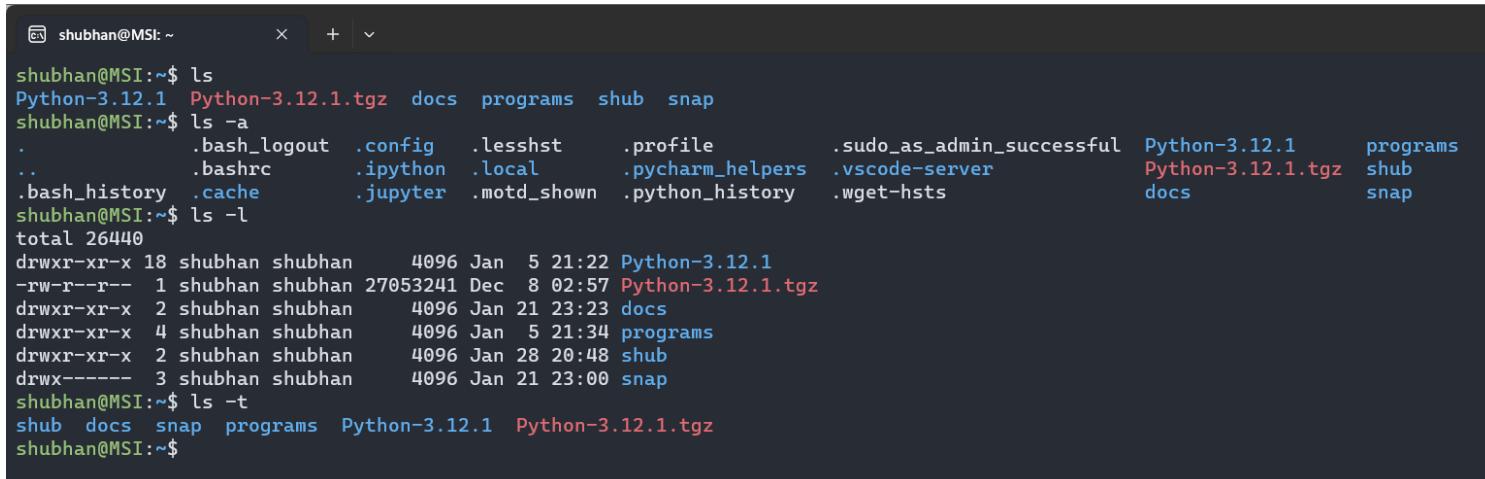
2. mkdir

```
shubhan@MSI:~$ ls
Python-3.12.1  Python-3.12.1.tgz  docs  programs  snap
shubhan@MSI:~$ mkdir 2022300118
shubhan@MSI:~$ ls
2022300118  Python-3.12.1  Python-3.12.1.tgz  docs  programs  snap
shubhan@MSI:~$ mkdir -p 2022300118
shubhan@MSI:~$ ls
2022300118  Python-3.12.1  Python-3.12.1.tgz  docs  programs  snap
shubhan@MSI:~$ cd ..
shubhan@MSI:/home$ ls
shubhan
shubhan@MSI:/home$ cd
shubhan@MSI:~$ mkdir -Z shub
shubhan@MSI:~$ ls
2022300118  Python-3.12.1  Python-3.12.1.tgz  docs  programs  shub  snap
shubhan@MSI:~$
```

3. rmdir

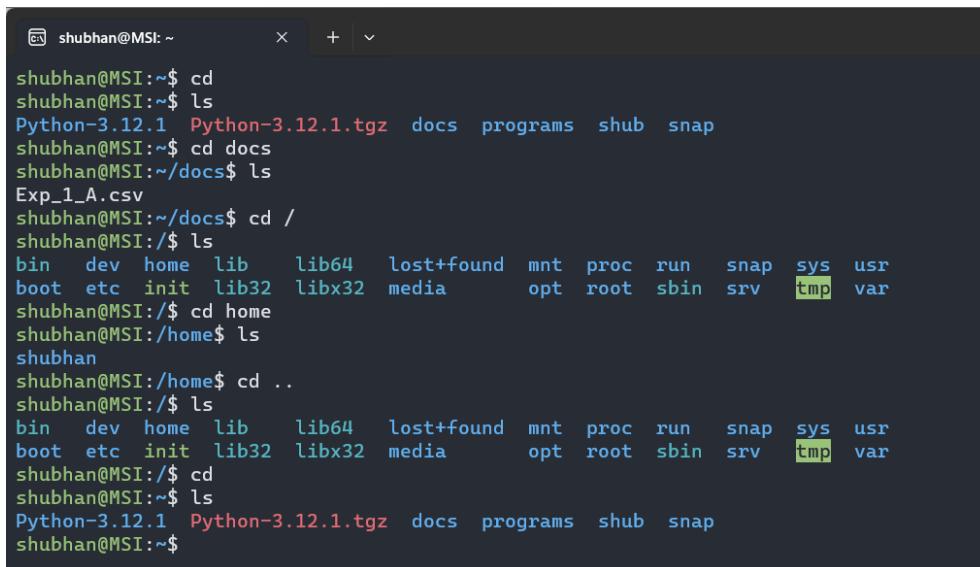
```
shubhan@MSI:~$ ls
2022300118  Python-3.12.1  Python-3.12.1.tgz  docs  programs  shub  snap
shubhan@MSI:~$ cd 2022300118
shubhan@MSI:~/2022300118$ mkdir sh
shubhan@MSI:~/2022300118$ ls
sh
shubhan@MSI:~/2022300118$ rmdir sh
shubhan@MSI:~/2022300118$ ls
shubhan@MSI:~/2022300118$ mkdir shu
shubhan@MSI:~/2022300118$ rmdir -p shu
shubhan@MSI:~/2022300118$ cd ..
shubhan@MSI:~$ ls
2022300118  Python-3.12.1  Python-3.12.1.tgz  docs  programs  shub  snap
shubhan@MSI:~$ rmdir -v 2022300118
rmdir: removing directory, '2022300118'
shubhan@MSI:~$
```

4. ls



```
shubhan@MSI:~$ ls
Python-3.12.1 Python-3.12.1.tgz docs programs shub snap
shubhan@MSI:~$ ls -a
. .bash_logout .config .lesshst .profile .sudo_as_admin_successful Python-3.12.1 programs
.. .bashrc .ipython .local .pycharm_helpers .vscode-server Python-3.12.1.tgz shub
.bash_history .cache .jupyter .motd_shown .python_history .wget-hsts docs
shubhan@MSI:~$ ls -l
total 26440
drwxr-xr-x 18 shubhan shubhan 4096 Jan  5 21:22 Python-3.12.1
-rw-r--r--  1 shubhan shubhan 27053241 Dec  8 02:57 Python-3.12.1.tgz
drwxr-xr-x  2 shubhan shubhan 4096 Jan 21 23:23 docs
drwxr-xr-x  4 shubhan shubhan 4096 Jan  5 21:34 programs
drwxr-xr-x  2 shubhan shubhan 4096 Jan 28 20:48 shub
drwx-----  3 shubhan shubhan 4096 Jan 21 23:00 snap
shubhan@MSI:~$ ls -t
shub docs snap programs Python-3.12.1 Python-3.12.1.tgz
shubhan@MSI:~$
```

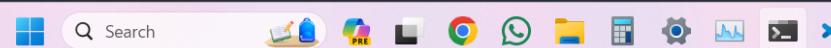
5. cd



```
shubhan@MSI:~$ cd
shubhan@MSI:~$ ls
Python-3.12.1 Python-3.12.1.tgz docs programs shub snap
shubhan@MSI:~$ cd docs
shubhan@MSI:~/docs$ ls
Exp_1_A.csv
shubhan@MSI:~/docs$ cd /
shubhan@MSI:$ ls
bin dev home lib lib64 lost+found mnt proc run snap sys usr
boot etc init lib32 libx32 media opt root sbin srv tmp var
shubhan@MSI:$ cd home
shubhan@MSI:/home$ ls
shubhan
shubhan@MSI:/home$ cd ..
shubhan@MSI:$ ls
bin dev home lib lib64 lost+found mnt proc run snap sys usr
boot etc init lib32 libx32 media opt root sbin srv tmp var
shubhan@MSI:$ cd
shubhan@MSI:~$ ls
Python-3.12.1 Python-3.12.1.tgz docs programs shub snap
shubhan@MSI:~$
```

6. touch

```
shubhan@MSI:~$ ls
Python-3.12.1 Python-3.12.1.tgz docs programs sh shu shub snap
shubhan@MSI:~$ touch shubhan
shubhan@MSI:~$ ls
Python-3.12.1 Python-3.12.1.tgz docs programs sh shu shub shubhan snap
shubhan@MSI:~$ ls -l
total 26440
drwxr-xr-x 18 shubhan shubhan 4096 Jan  5 21:22 Python-3.12.1
-rw-r--r--  1 shubhan shubhan 27053241 Dec  8 02:57 Python-3.12.1.tgz
drwxr-xr-x  2 shubhan shubhan 4096 Jan 21 23:23 docs
drwxr-xr-x  4 shubhan shubhan 4096 Jan  5 21:34 programs
-rw-r--r--  1 shubhan shubhan     0 Jan 28 21:21 sh
-rw-r--r--  1 shubhan shubhan     0 Jan 28 21:21 shu
drwxr-xr-x  2 shubhan shubhan 4096 Jan 28 21:14 shub
-rw-r--r--  1 shubhan shubhan     0 Jan 28 21:25 shubhan
drwx----- 3 shubhan shubhan 4096 Jan 21 23:00 snap
shubhan@MSI:~$ touch -m shu
shubhan@MSI:~$ ls -l
total 26440
drwxr-xr-x 18 shubhan shubhan 4096 Jan  5 21:22 Python-3.12.1
-rw-r--r--  1 shubhan shubhan 27053241 Dec  8 02:57 Python-3.12.1.tgz
drwxr-xr-x  2 shubhan shubhan 4096 Jan 21 23:23 docs
drwxr-xr-x  4 shubhan shubhan 4096 Jan  5 21:34 programs
-rw-r--r--  1 shubhan shubhan     0 Jan 28 21:21 sh
-rw-r--r--  1 shubhan shubhan     0 Jan 28 21:26 shu
drwxr-xr-x  2 shubhan shubhan 4096 Jan 28 21:14 shub
-rw-r--r--  1 shubhan shubhan     0 Jan 28 21:25 shubhan
drwx----- 3 shubhan shubhan 4096 Jan 21 23:00 snap
shubhan@MSI:~$ touch -r sh shu
shubhan@MSI:~$ ls -l
total 26440
drwxr-xr-x 18 shubhan shubhan 4096 Jan  5 21:22 Python-3.12.1
-rw-r--r--  1 shubhan shubhan 27053241 Dec  8 02:57 Python-3.12.1.tgz
drwxr-xr-x  2 shubhan shubhan 4096 Jan 21 23:23 docs
drwxr-xr-x  4 shubhan shubhan 4096 Jan  5 21:34 programs
-rw-r--r--  1 shubhan shubhan     0 Jan 28 21:21 sh
-rw-r--r--  1 shubhan shubhan     0 Jan 28 21:21 shu
drwxr-xr-x  2 shubhan shubhan 4096 Jan 28 21:14 shub
-rw-r--r--  1 shubhan shubhan     0 Jan 28 21:25 shubhan
drwx----- 3 shubhan shubhan 4096 Jan 21 23:00 snap
```



26°C
Smoke

Search

21:27
28-01-2024

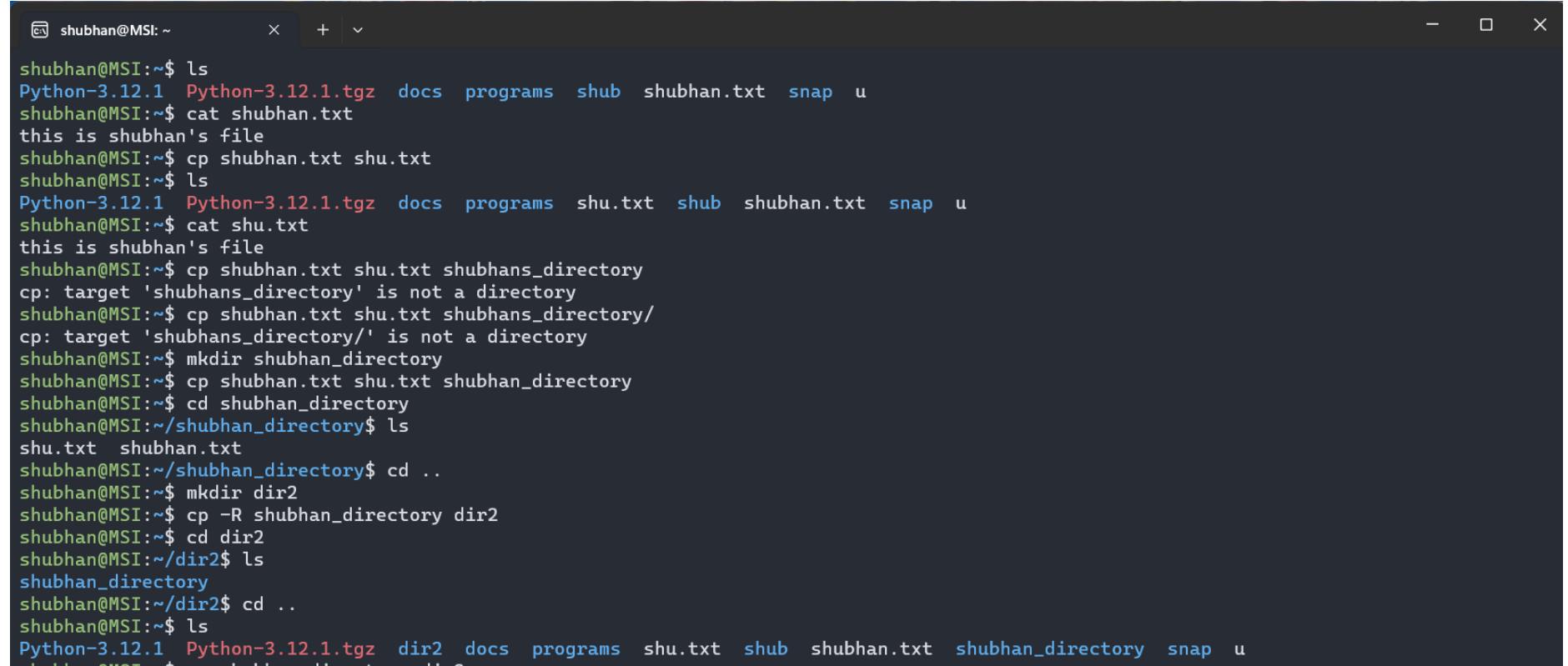
7. cat (creating and displaying file)

```
shubhan@MSI:~$ ls
Python-3.12.1 Python-3.12.1.tgz  docs  programs  shub  snap
shubhan@MSI:~$ cat > shubhan.txt
This is Shubhan's file.shubhan@MSI:~$ ls
Python-3.12.1 Python-3.12.1.tgz  docs  programs  shub  shubhan.txt  snap
shubhan@MSI:~$ cat shubhan.txt
This is Shubhan's file.shubhan@MSI:~$
```

8. rm

```
shubhan@MSI:~$ ls
Python-3.12.1 Python-3.12.1.tgz  a  b  docs  h  n  programs  s  shub  shubhan.txt  snap  u
shubhan@MSI:~$ rm a
shubhan@MSI:~$ ls
Python-3.12.1 Python-3.12.1.tgz  b  docs  h  n  programs  s  shub  shubhan.txt  snap  u
shubhan@MSI:~$ rm s h
shubhan@MSI:~$ ls
Python-3.12.1 Python-3.12.1.tgz  b  docs  n  programs  shub  shubhan.txt  snap  u
shubhan@MSI:~$ rm -i b
rm: remove regular empty file 'b'? y
shubhan@MSI:~$ ls
Python-3.12.1 Python-3.12.1.tgz  docs  n  programs  shub  shubhan.txt  snap  u
shubhan@MSI:~$ rm -f n
shubhan@MSI:~$ ls
Python-3.12.1 Python-3.12.1.tgz  docs  programs  shub  shubhan.txt  snap  u
shubhan@MSI:~$
```

9. cp



```
shubhan@MSI:~$ ls
Python-3.12.1 Python-3.12.1.tgz docs programs shub shubhan.txt snap u
shubhan@MSI:~$ cat shubhan.txt
this is shubhan's file
shubhan@MSI:~$ cp shubhan.txt shu.txt
shubhan@MSI:~$ ls
Python-3.12.1 Python-3.12.1.tgz docs programs shu.txt shub shubhan.txt snap u
shubhan@MSI:~$ cat shu.txt
this is shubhan's file
shubhan@MSI:~$ cp shubhan.txt shu.txt shubhans_directory
cp: target 'shubhans_directory' is not a directory
shubhan@MSI:~$ cp shubhan.txt shu.txt shubhans_directory/
cp: target 'shubhans_directory/' is not a directory
shubhan@MSI:~$ mkdir shubhan_directory
shubhan@MSI:~$ cp shubhan.txt shu.txt shubhan_directory
shubhan@MSI:~$ cd shubhan_directory
shubhan@MSI:~/shubhan_directory$ ls
shu.txt shubhan.txt
shubhan@MSI:~/shubhan_directory$ cd ..
shubhan@MSI:~$ mkdir dir2
shubhan@MSI:~$ cp -R shubhan_directory dir2
shubhan@MSI:~$ cd dir2
shubhan@MSI:~/dir2$ ls
shubhan_directory
shubhan@MSI:~/dir2$ cd ..
shubhan@MSI:~$ ls
Python-3.12.1 Python-3.12.1.tgz dir2 docs programs shu.txt shub shubhan.txt shubhan_directory snap u
```

10. mv

A screenshot of a Windows desktop environment. In the center is a terminal window titled "shubhan@MSI: ~". The terminal displays a series of commands demonstrating the use of the 'mv' command to move files. The commands include navigating to the home directory, listing files, moving 'shu.txt' to 'a.txt', moving 'a.txt' to a subdirectory, and finally moving 'a.txt' back to the current directory. The terminal also shows the user switching to a subdirectory named 'shub'. The desktop background features a vibrant floral pattern. To the right of the terminal, a file explorer window is open, showing a tree view with a file named 'Master C Data Stru'. The system tray at the bottom of the screen includes icons for weather (25°C, Smoke), search, taskbar, settings, and system status.

```
shubhan@MSI:~$ cd
shubhan@MSI:~$ ls
Python-3.12.1 Python-3.12.1.tgz dir2 docs programs shu.txt shub shubhan.txt shubhan_directory snap u
shubhan@MSI:~$ mv shu.txt a.txt
shubhan@MSI:~$ ls
Python-3.12.1 Python-3.12.1.tgz a.txt dir2 docs programs shub shubhan.txt shubhan_directory snap u
shubhan@MSI:~$ mv a.txt ~/shub
shubhan@MSI:~$ ls
Python-3.12.1 Python-3.12.1.tgz dir2 docs programs shub shubhan.txt shubhan_directory snap u
shubhan@MSI:~$ cd shub
shubhan@MSI:~/shub$ ls
a.txt
shubhan@MSI:~/shub$ mv a.txt ~
shubhan@MSI:~/shub$ ls
shubhan@MSI:~/shub$ cd ..
shubhan@MSI:~$ ls
Python-3.12.1 Python-3.12.1.tgz a.txt dir2 docs programs shub shubhan.txt shubhan_directory snap u
shubhan@MSI:~$ mv a.txt shubhan.txt shub
shubhan@MSI:~$ cd shub
shubhan@MSI:~/shub$ ls
a.txt shubhan.txt
shubhan@MSI:~/shub$ cd ..
shubhan@MSI:~$ mv shub shubhan
shubhan@MSI:~$ ls
Python-3.12.1 Python-3.12.1.tgz dir2 docs programs shubhan shubhan_directory snap u
shubhan@MSI:~$
```

11. rename

```
shubhan@MSI:~/shubhan$ ls
Python-3.12.1 Python-3.12.1.tgz dir2 docs programs shubhan snap
shubhan@MSI:~/shubhan$ cd shubhan
shubhan@MSI:~/shubhan$ ls
a.txt b.txt c.txt d.txt e.txt shubhan.txt
shubhan@MSI:~/shubhan$ rename -v 's/txt/jpg/' *.txt
a.txt renamed as a.jpg
b.txt renamed as b.jpg
c.txt renamed as c.jpg
d.txt renamed as d.jpg
e.txt renamed as e.jpg
shubhan.txt renamed as shubhan.jpg
shubhan@MSI:~/shubhan$ rename -n 's/jpg/txt' *.jpg
Substitution replacement not terminated at line 1, in:
s/jpg/txt
shubhan@MSI:~/shubhan$ rename -n 's/jpg/txt/' *.jpg
rename(a.jpg, a.txt)
rename(b.jpg, b.txt)
rename(c.jpg, c.txt)
rename(d.jpg, d.txt)
rename(e.jpg, e.txt)
rename(shubhan.jpg, shubhan.txt)
shubhan@MSI:~/shubhan$ rename -V 's/jpg/text/' *.jpg
/usr/bin/rename using File::Rename version 1.30, File::Rename::Options version 1.10

shubhan@MSI:~/shubhan$ ls
a.jpg b.jpg c.jpg d.jpg e.jpg shubhan.jpg
shubhan@MSI:~/shubhan$
```

How to Securely Copy Files in Linux |
scp Command

⑥) Rename -vhelp Option

This option will show the help message and exit.



Search



ENG
IN



00:37

29-01-2024

12. head

The screenshot shows a Windows desktop environment. In the center is a terminal window titled "shubhan@MSI: ~/programs/p". The window displays a command-line session where the user is navigating through directory structures and executing Python scripts. The terminal output includes:

```
shubhan@MSI:~$ ls
Python-3.12.1  Python-3.12.1.tgz  dir2  docs  programs  shubhan  snap
shubhan@MSI:~$ cd programs
shubhan@MSI:~/programs$ ls
MLspec  python
shubhan@MSI:~/programs$ cd python
shubhan@MSI:~/programs/python$ ls
cp  intro  venv
shubhan@MSI:~/programs/python$ cd cp
shubhan@MSI:~/programs/python/cp$ ls
dumb.py  pairland.py
shubhan@MSI:~/programs/python/cp$ head pairland.py
tem = []
for j in range(10001):
    tem.append(-1)
matrix=[]
def makematrix(n):
    global matrix
    matrix*=0
    for _ in range(n+2):
        matrix.append(tem)
    return matrix
shubhan@MSI:~/programs/python/cp$ head -n 4 pairland.py
tem = []
for j in range(10001):
    tem.append(-1)
matrix=[]
shubhan@MSI:~/programs/python/cp$ head -c 50 pairland.py
tem = []
for j in range(10001):
    tem.append(-1)
shubhan@MSI:~/programs/python/cp$ head -v -n 3 pairland.py
==> pairland.py <==
tem = []
for j in range(10001):
    tem.append(-1)
shubhan@MSI:~/programs/python/cp$ |
```

Below the terminal window, a tooltip provides information about the tail command:

13. tail Command
The tail command is similar to the head command. The difference between both commands is that it displays the last

The taskbar at the bottom of the screen includes icons for the Start button, search, file explorer, settings, and various system status indicators like battery level and network.

13. tail

```
shubhan@MSI:~/programs/p$ tail pairland.py
    target= m - sm
    makematrix(n)
    if solve(arr,target,n):
        print("YES")
    else:
        print("NO")
    t-=1

if __name__ == '__main__':
    main()
shubhan@MSI:~/programs/python/cp$ tail -n 6 pairland.py
else:
    print("NO")
t-=1

if __name__ == '__main__':
    main()
shubhan@MSI:~/programs/python/cp$ tail +50 pairland.py
t-=1

if __name__ == '__main__':
    main()
shubhan@MSI:~/programs/python/cp$ tail -c 29 pairland.py
== __main__:
main()
shubhan@MSI:~/programs/python/cp$ tail -v -n 5 pairland.py
==> pairland.py <=
    print("NO")
t-=1

if __name__ == '__main__':
    main()
shubhan@MSI:~/programs/python/cp$
```

25°C
Smoke

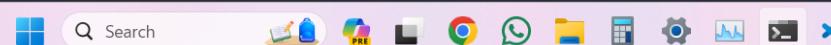
14. tac Command



ENG IN 01:15 29-01-2024

14. tac

```
shubhan@MSI:~/programs/p  ×  +  ∨
shubhan@MSI:~/programs/python/cp$ tac pairland.py
main()if __name__ == '__main__':
    t-=1
    print("NO")
else:
    print("YES")
if solve(arr,target,n):
    makematrix(n)
    target= m - sm
    sm+=min(temp[0], temp[1])
    arr.append(abs(temp[1]-temp[0]))
    temp=list(map(int,input().split()))
for _ in range(n):
    sm=0
    arr=[]
    n,m=map(int,input().split())
    while t :
        t=int(input())
        def main():
            return ret
            matrix[n][target]=0
        else:
            matrix[n][target]=1
        if ret:
            ret= ignore or take
            take=solve(arr[1:],target-arr[0],n-1)
        if target>=arr[0]:
            take= False
        ignore=solve(arr[1:],target,n-1)
        return matrix[n][target]==1
        if matrix[n][target]>=0:
            return target==arr[0]
        if n==1:
            return True
        if target==0:
```



25°C
Smoke
Search
ENG IN
01:16
29-01-2024

```
shubhan@MSI: ~/programs/f  X  +  v  -  □  ×
return matrix
    matrix.append(tem)
for _ in range(n+2):
    matrix*=0
global matrix
def makematrix(n):
matrix=[]
    tem.append(-1)
for j in range(10001):
    tem = []
shubhan@MSI:~/programs/python/cp$ tac --help
Usage: tac [OPTION]... [FILE]...
Write each FILE to standard output, last line first.

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

Mandatory arguments to long options are mandatory for short options too.
-b, --before           attach the separator before instead of after
-r, --regex             interpret the separator as a regular expression
-s, --separator=STRING use STRING as the separator instead of newline
--help                 display this help and exit
--version              output version information and exit

GNU coreutils online help: <https://www.gnu.org/software/coreutils/>
Report any translation bugs to <https://translationproject.org/team/>
Full documentation <https://www.gnu.org/software/coreutils/tac>
or available locally via: info '(coreutils) tac invocation'
shubhan@MSI:~/programs/python/cp$ tac --version
tac (GNU coreutils) 8.32
Copyright (C) 2020 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <https://gnu.org/licenses/gpl.html>.
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.

Written by Jay Lepreau and David MacKenzie.
shubhan@MSI:~/programs/python/cp$
```

15. more

```
shubhan@MSI:~/programs/python/cp$ more -d pairland.py
tem = []
for j in range(10001):
    tem.append(-1)
matrix=[]
def makematrix(n):
    global matrix
    matrix*=[0]
    for _ in range(n+2):
        matrix.append(tem)
    return matrix

def solve(arr,target,n):
    global matrix
    if target==0:
        return True
    if n==1:
        return target==arr[0]
    if matrix[n][target]>=0:
        return matrix[n][target]==1
    ignore=solve(arr[1:],target,n-1)

    take= False
    if target>=arr[0]:
        take=solve(arr[1:],target-arr[0],n-1)
    ret= ignore or take
    if ret:
        matrix[n][target]=1
    else:
        matrix[n][target]=0
    return ret

def main():
    t=int(input())
    while t :
        n,m=map(int,input().split())
--More--(65%)[Press space to continue, 'q' to quit.]
```

```
shubhan@MSI:~/programs/cp$ more -s pairland.py
tem = []
for j in range(10001):
    tem.append(-1)
matrix=[]
def makematrix(n):
    global matrix
    matrix*=0
    for _ in range(n+2):
        matrix.append(tem)
    return matrix

def solve(arr,target,n):
    global matrix
    if target==0:
        return True
    if n==1:
        return target==arr[0]
    if matrix[n][target]>=0:
        return matrix[n][target]==1
    ignore=solve(arr[1:],target,n-1)

    take= False
    if target>=arr[0]:
        take=solve(arr[1:],target-arr[0],n-1)
    ret= ignore or take
    if ret:
        matrix[n][target]=1
    else:
        matrix[n][target]=0
    return ret

def main():
    t=int(input())
    while t :
        n,m=map(int,input().split())
        arr=[]
        sm=0
        for _ in range(n):
            for i in range(m):
                arr.append(int(input()))
                sm+=arr[-1]
        if sm>=target:
            print("Yes")
        else:
            print("No")
        t=t-1
```

--More--(70%)

```
shubhan@MSI:~/programs/python/cp$ more +25 pairland.py
if target>=arr[0]:
    takes=solve(arr[1:],target-arr[0],n-1)
ret= ignore or take
if ret:
    matrix[n][target]=1
else:
    matrix[n][target]=0
return ret

def main():
t=int(input())
while t :
    n,m=map(int,input().split())
    arr=[]
    sm=0
    for _ in range(n):
        temp=list(map(int,input().split()))
        arr.append(abs(temp[1]-temp[0]))
        sm+=min(temp[0], temp[1])
    target= m - sm
    makematrix(n)
    if solve(arr,target,n):
        print("YES")
    else:
        print("NO")
    t-=1

if __name__ == '__main__':
    main()
shubhan@MSI:~/programs/python/cp$ |
```

16. less

```
shubhan@MSI: ~/programs/p  +  ▾

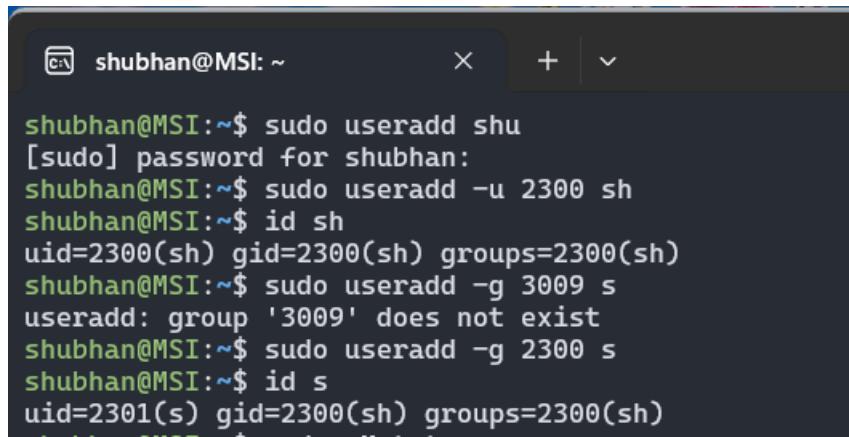
def solve(arr,target,n):
    global matrix
    if target==0:
        return True
    if n==1:
        return target==arr[0]
    if matrix[n][target]>=0:
        return matrix[n][target]==1
    ignore=solve(arr[1:],target,n-1)

    take= False
    if target>=arr[0]:
        take=solve(arr[1:],target-arr[0],n-1)
    ret= ignore or take
    if ret:
        matrix[n][target]=1
    else:
        matrix[n][target]=0
    return ret

def main():
    t=int(input())
    while t :
        n,m=map(int,input().split())
        arr=[]
        sm=0
        for _ in range(n):
            temp=list(map(int,input().split()))
            arr.append(abs(temp[1]-temp[0]))
            sm+=min(temp[0], temp[1])
        target= m - sm
        makematrix(n)
        if solve(arr,target,n):
            print("YES")
        else:
            print("NO")
        t-=1

if __name__ == '__main__':
    main()
(END)
```

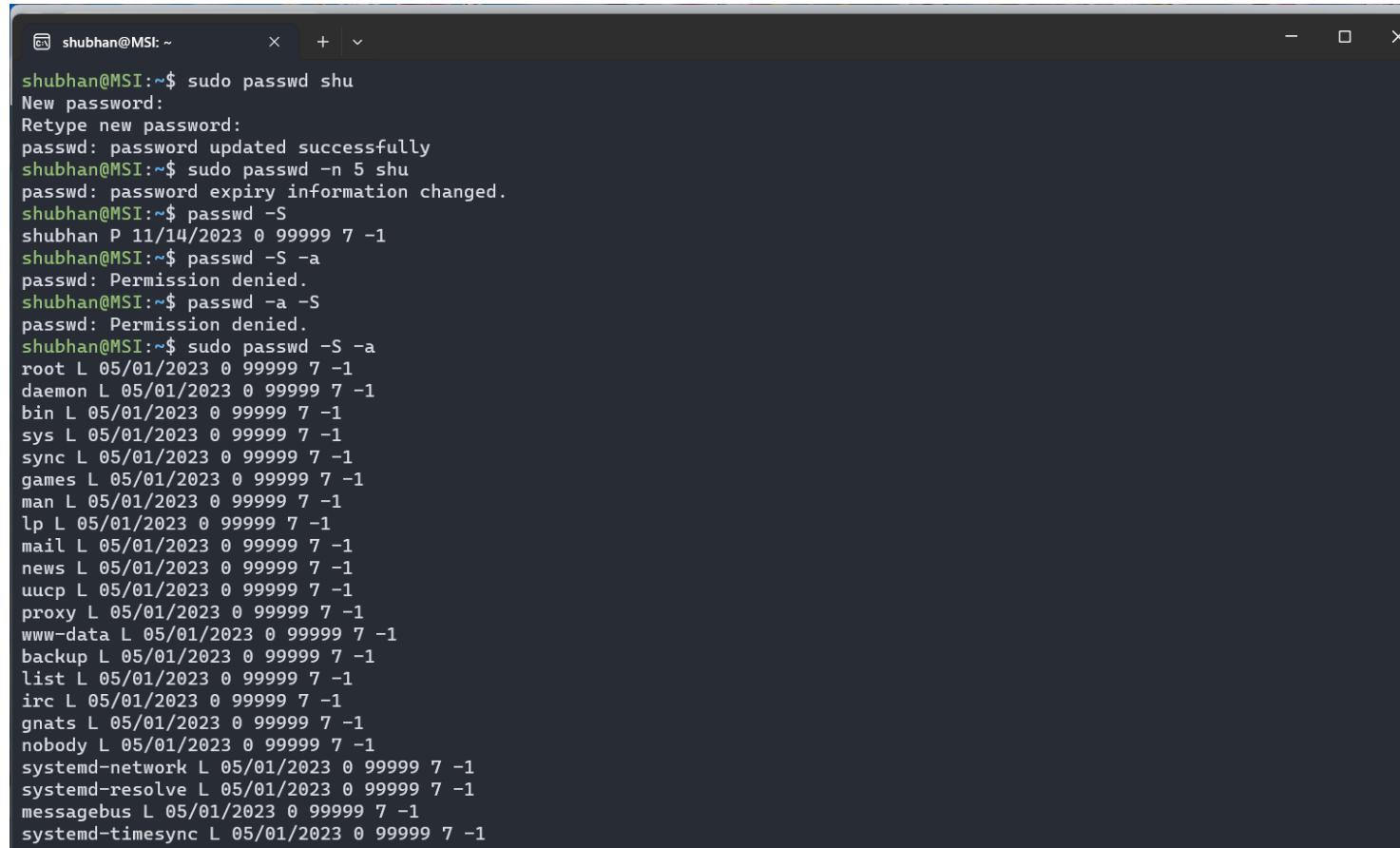
17. useradd



A screenshot of a terminal window titled "shubhan@MSI: ~". The window contains the following command-line session:

```
shubhan@MSI:~$ sudo useradd shu
[sudo] password for shubhan:
shubhan@MSI:~$ sudo useradd -u 2300 sh
shubhan@MSI:~$ id sh
uid=2300(sh) gid=2300(sh) groups=2300(sh)
shubhan@MSI:~$ sudo useradd -g 3009 s
useradd: group '3009' does not exist
shubhan@MSI:~$ sudo useradd -g 2300 s
shubhan@MSI:~$ id s
uid=2301(s) gid=2300(sh) groups=2300(sh)
```

18. passwd



The screenshot shows a terminal window with a dark background and light-colored text. The window title bar indicates the session is running on a MSI laptop. The terminal prompt is 'shubhan@MSI: ~\$'. The user runs several commands related to password management:

```
shubhan@MSI:~$ sudo passwd shu
New password:
Retype new password:
passwd: password updated successfully
shubhan@MSI:~$ sudo passwd -n 5 shu
passwd: password expiry information changed.
shubhan@MSI:~$ passwd -S
shubhan P 11/14/2023 0 99999 7 -1
shubhan@MSI:~$ passwd -S -a
passwd: Permission denied.
shubhan@MSI:~$ passwd -a -S
passwd: Permission denied.
shubhan@MSI:~$ sudo passwd -S -a
root L 05/01/2023 0 99999 7 -1
daemon L 05/01/2023 0 99999 7 -1
bin L 05/01/2023 0 99999 7 -1
sys L 05/01/2023 0 99999 7 -1
sync L 05/01/2023 0 99999 7 -1
games L 05/01/2023 0 99999 7 -1
man L 05/01/2023 0 99999 7 -1
lp L 05/01/2023 0 99999 7 -1
mail L 05/01/2023 0 99999 7 -1
news L 05/01/2023 0 99999 7 -1
uucp L 05/01/2023 0 99999 7 -1
proxy L 05/01/2023 0 99999 7 -1
www-data L 05/01/2023 0 99999 7 -1
backup L 05/01/2023 0 99999 7 -1
list L 05/01/2023 0 99999 7 -1
irc L 05/01/2023 0 99999 7 -1
gnats L 05/01/2023 0 99999 7 -1
nobody L 05/01/2023 0 99999 7 -1
systemd-network L 05/01/2023 0 99999 7 -1
systemd-resolve L 05/01/2023 0 99999 7 -1
messagebus L 05/01/2023 0 99999 7 -1
systemd-timesync L 05/01/2023 0 99999 7 -1
```

19. su

```
root@MSI: ~      +  ×
shubhan@MSI:~$ whoami
shubhan
shubhan@MSI:~$ su shu
Password:
$ whoami
shu
$ su shubhan
Password:
shubhan@MSI:~$ whoami
shubhan
shubhan@MSI:~$ su -
Password:
su: Authentication failure
shubhan@MSI:~$ su -
Password:
su: Authentication failure
shubhan@MSI:~$ su -p
Password:
su: Authentication failure
shubhan@MSI:~$ sudo su -p
root@MSI:/home/shubhan# cd
root@MSI:~# sudo su -
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.133.1-microsoft-standard-WSL2 x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

 * Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
   just raised the bar for easy, resilient and secure K8s cluster deployment.

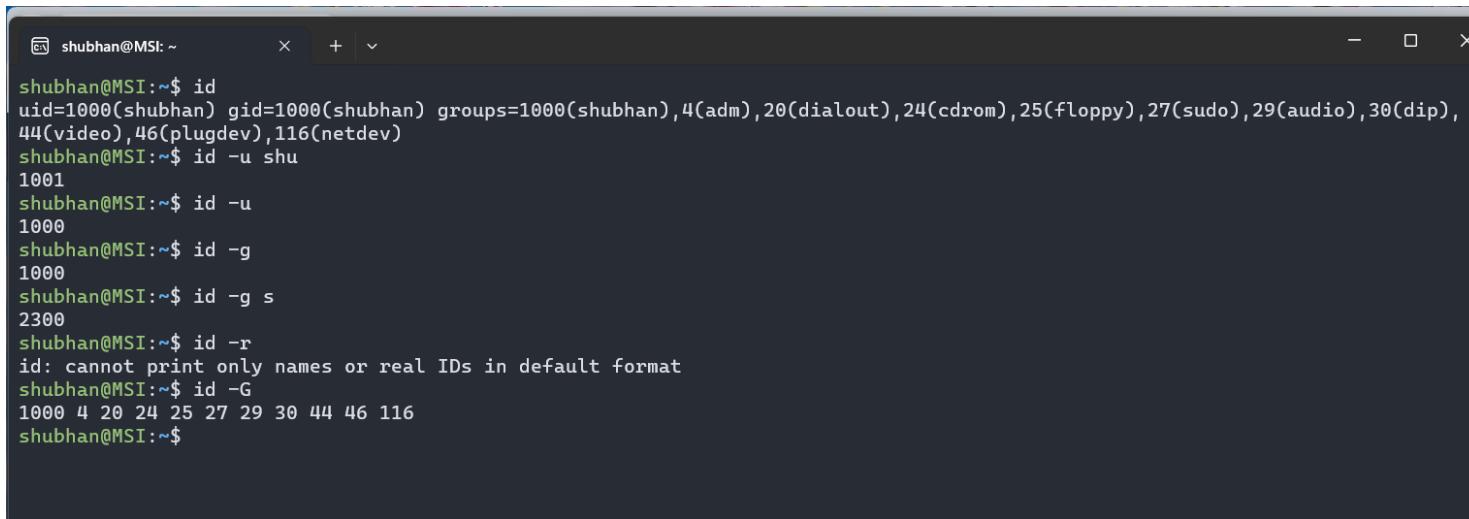
   https://ubuntu.com/engage/secure-kubernetes-at-the-edge

This message is shown once a day. To disable it please create the
/root/.hushlogin file.
root@MSI:~#
```

18. id Command

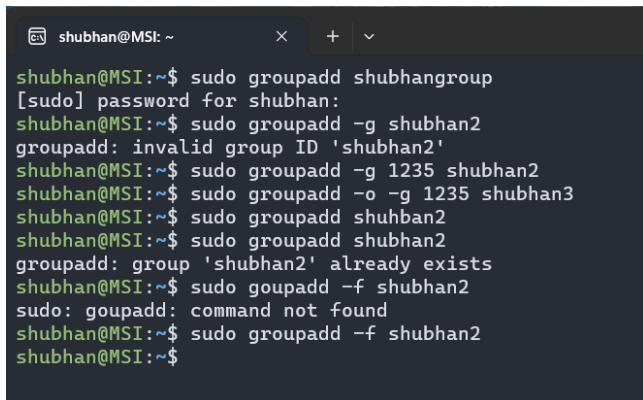


20. id



```
shubhan@MSI:~$ id
uid=1000(shubhan) gid=1000(shubhan) groups=1000(shubhan),4(adm),20(dialout),24(cdrom),25(floppy),27(sudo),29(audio),30(dip),
44(video),46(plugdev),116(netdev)
shubhan@MSI:~$ id -u shu
1001
shubhan@MSI:~$ id -u
1000
shubhan@MSI:~$ id -g
1000
shubhan@MSI:~$ id -g s
2300
shubhan@MSI:~$ id -r
id: cannot print only names or real IDs in default format
shubhan@MSI:~$ id -G
1000 4 20 24 25 27 29 30 44 46 116
shubhan@MSI:~$
```

21. groupadd



```
shubhan@MSI:~$ sudo groupadd shubhangroup
[sudo] password for shubhan:
shubhan@MSI:~$ sudo groupadd -g shubhan2
groupadd: invalid group ID 'shubhan2'
shubhan@MSI:~$ sudo groupadd -g 1235 shubhan2
shubhan@MSI:~$ sudo groupadd -o -g 1235 shubhan3
shubhan@MSI:~$ sudo groupadd shubhan2
shubhan@MSI:~$ sudo groupadd shubhan2
groupadd: group 'shubhan2' already exists
shubhan@MSI:~$ sudo groupadd -f shubhan2
sudo: groupadd: command not found
shubhan@MSI:~$ sudo groupadd -f shubhan2
shubhan@MSI:~$
```

22. cat (with pipes)

```
shubhan@MSI:~/programs/p$ ls
Python-3.12.1 Python-3.12.1.tgz dir2 docs programs shubhan snap
shubhan@MSI:~/programs/python/cp
shubhan@MSI:~/programs/python/cp$ ls
dumb.py pairland.py
shubhan@MSI:~/programs/python/cp$ cat pairland.py | cat | tac | cat | tac
tem = []
for j in range(10001):
    tem.append(-1)
matrix=[]
def makematrix(n):
    global matrix
    matrix*=0
    for _ in range(n+2):
        matrix.append(tem)
    return matrix

def solve(arr,target,n):
    global matrix
    if target==0:
        return True
    if n==1:
        return target==arr[0]

    if matrix[n][target]>=0:
        return matrix[n][target]==1

    ignore=solve(arr[1:],target,n-1)

    take= False
    if target>=arr[0]:
        take=solve(arr[1:],target-arr[0],n-1)
    ret= ignore or take
```

23. cut Command

The **cut** command is used to select a specific column of a file. The '**-d**' option is used as a delimiter, and it can be a space



23. cut

```
shubhan@MSI:~/programs/python/cp$ cat > cut.txt
shubhan-100
swaroop-mid
shubhan-really good
swaroop-okok
shubhan@MSI:~/programs/python/cp$ cut -d- -f2 cut.txt
100
mid
really good
okok
shubhan@MSI:~/programs/python/cp$ cut -d- cut.txt
cut: you must specify a list of bytes, characters, or fields
Try 'cut --help' for more information.
shubhan@MSI:~/programs/python/cp$ cut -b -5 cut.txt
shubh
swaro
shubh
swaro
shubhan@MSI:~/programs/python/cp$ cut -c 1,3,5,7 cut.txt
suhn
saop
suhn
saop
shubhan@MSI:~/programs/python/cp$ |
```

24. grep

```
shubhan@MSI:~/programs/python/cp$ cat pairland.py | grep temp
    temp=list(map(int,input().split()))
    arr.append(abs(temp[1]-temp[0]))
    sm+=min(temp[0], temp[1])
shubhan@MSI:~/programs/python/cp$ cat pairland.py | grep -c temp
3
shubhan@MSI:~/programs/python/cp$ cat pairland.py | grep -n temp
41:         temp=list(map(int,input().split()))
42:         arr.append(abs(temp[1]-temp[0]))
43:         sm+=min(temp[0], temp[1])
shubhan@MSI:~/programs/python/cp$ cat pairland.py | grep -l temp
(standard input)
shubhan@MSI:~/programs/python/cp$ |
```

25. comm

```
shubhan@MSI:~/programs/p~ X + v
shubhan@MSI:~/programs/python/cp$ cat > names1.txt
shubhan
swaroop
vikas
suryansh
shubhan@MSI:~/programs/python/cp$ cat > names2.txt
shubhan
vikas
rahul
akkshit
shubhan@MSI:~/programs/python/cp$ comm names1.txt names2.txt
shubhan
swaroop
vikas
comm: file 2 is not in sorted order
rahul
akkshit
vikas
comm: file 1 is not in sorted order
suryansh
comm: input is not in sorted order
shubhan@MSI:~/programs/python/cp$ comm -1 names1.txt names2.txt
shubhan
vikas
comm: file 2 is not in sorted order
rahul
akkshit
comm: file 1 is not in sorted order
comm: input is not in sorted order
shubhan@MSI:~/programs/python/cp$ comm -2 names1.txt names2.txt
shubhan
swaroop
comm: file 2 is not in sorted order
vikas
comm: file 1 is not in sorted order
suryansh
comm: input is not in sorted order
shubhan@MSI:~/programs/python/cp$ comm -3 names1.txt names2.txt
swaroop
vikas
comm: file 2 is not in sorted order
rahul
akkshit
vikas
comm: file 1 is not in sorted order
suryansh
comm: input is not in sorted order
shubhan@MSI:~/programs/python/cp$
```



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26. sed

```
shubhan@MSI:~/programs/p$ cat names1.txt
shubhan
swaroop
vikas
suryansh
shubhan@MSI:~/programs/python/cp$ sed 's/swaroop/swarup/' names1.txt
shubhan
swarup
vikas
suryansh
shubhan@MSI:~/programs/python/cp$ sed 's/swaroop/swarup/1' names1.txt
shubhan
swarup
vikas
suryansh
shubhan@MSI:~/programs/python/cp$ sed -n 's/swaroop/swarup/' names1.txt
shubhan@MSI:~/programs/python/cp$ sed -n 's/swaroop/swarup/p' names1.txt
swarup
shubhan@MSI:~/programs/python/cp$ sed '3d' names1.txt
shubhan
swaroop
suryansh
shubhan@MSI:~/programs/python/cp$
```

27. tee

```
shubhan@MSI:~/programs/python/cp$ cat names2.txt | tee names3.txt | tac
akkshit
rahul
vikas
shubhan
shubhan@MSI:~/programs/python/cp$ cat names3.txt
shubhan
vikas
rahul
akkshit
shubhan@MSI:~/programs/python/cp$ cat names3.txt | tee -a names4.txt | cat
shubhan
vikas
rahul
akkshit
shubhan@MSI:~/programs/python/cp$ cat names4.txt
shubhan
vikas
rahul
akkshit
shubhan@MSI:~/programs/python/cp$ tee --version
tee (GNU coreutils) 8.32
Copyright (C) 2020 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <https://gnu.org/licenses/gpl.html>.
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.

Written by Mike Parker, Richard M. Stallman, and David MacKenzie.
shubhan@MSI:~/programs/python/cp$
```

28. tr

```
shubhan@MSI:~/programs/python/cp$ cat names3.txt
shubhan
vikas
rahuL
akkshit
shubhan@MSI:~/programs/python/cp$ cat names3.txt | tr [a-z] [A-Z]
SHUBHAN
VIKAS
RAHUL
AKKSHIT
shubhan@MSI:~/programs/python/cp$ echo "hi      i      am shubhan" | tr -s
tr: missing operand
Try 'tr --help' for more information.
shubhan@MSI:~/programs/python/cp$ echo "hi      i      am shubhan" | tr -s " "
hi i am shubhan
shubhan@MSI:~/programs/python/cp$ cat names4.txt | tr -d s
hubhan
vika
rahuL
akkhit
shubhan@MSI:~/programs/python/cp$ cat names2.txt | tr -c [A-Z] [A-Z]
]]]]]]]]J]]]]]]J]]]]]]J]]]]]]Jshubhan@MSI:~/programs/python/cp$ cat names2.txt
shubhan
vikas
rahuL
akkshit
shubhan@MSI:~/programs/python/cp$ cat names2.txt | tr -cd 's'
sssshubhan@MSI:~/programs/python/cp$
```

29. uniq

```
shubhan@MSI:~/programs/p$ cat > names.txt
shubhan
shubhan
singh
shubhan
singh
swaroop
vikas
vaze
vikas
shubhan@MSI:~/programs/python/cp$ cat names.txt | uniq
shubhan
singh
shubhan
singh
swaroop
vikas
vaze
vikas
shubhan@MSI:~/programs/python/cp$ sort names.txt | uniq
shubhan
singh
swaroop
vaze
vikas
shubhan@MSI:~/programs/python/cp$ sort names.txt | uniq -c
 3 shubhan
 2 singh
 1 swaroop
 1 vaze
 2 vikas
shubhan@MSI:~/programs/python/cp$ sort names.txt | uniq -n
uniq: invalid option -- 'n'
Try 'uniq --help' for more information.
shubhan@MSI:~/programs/python/cp$ sort names.txt | uniq -d
shubhan
singh
vikas
shubhan@MSI:~/programs/python/cp$ sort names.txt | uniq -z
shubhan
shubhan
shubhan
singh
singh
swaroop
vaze
vikas
vikas
shubhan@MSI:~/programs/python/cp$ |
```



The screenshot shows a Windows operating system desktop environment. A terminal window is open in the center, displaying a command-line session demonstrating the use of the 'uniq' command. The taskbar at the bottom of the screen contains various pinned icons, including a weather widget showing '25°C Smoke', a search bar, and links to Microsoft Edge, File Explorer, and other system utilities like Task Manager and File History.

30. wc

```
shubhan@MSI:~/programs/python/cp$ wc pairland.py names.txt
 52   87 1126 pairland.py
    9     9   61 names.txt
   61   96 1187 total
shubhan@MSI:~/programs/python/cp$ wc -l pairland.py
52 pairland.py
shubhan@MSI:~/programs/python/cp$ wc -c pairland.py
1126 pairland.py
shubhan@MSI:~/programs/python/cp$ wc -L pairland.py
47 pairland.py
shubhan@MSI:~/programs/python/cp$
```

31. od

```
shubhan@MSI:~/programs/cp$ od -b names.txt
0000000 163 150 165 142 150 141 156 012 163 150 165 142 150 141 156 012
0000020 163 151 156 147 150 012 163 150 165 142 150 141 156 012 163 151
0000040 156 147 150 012 163 167 141 162 157 157 160 012 166 151 153 141
0000060 163 012 166 141 172 145 012 166 151 153 141 163 012
0000075
shubhan@MSI:~/programs/python/cp$ od -t x1 names.txt
0000000 73 68 75 62 68 61 6e 0a 73 68 75 62 68 61 6e 0a
0000020 73 69 6e 67 68 0a 73 68 75 62 68 61 6e 0a 73 69
0000040 6e 67 68 60 73 77 61 72 6f 6f 70 0a 76 69 6b 61
0000060 73 0a 76 61 7a 65 0a 76 69 6b 61 73 0a
0000075
shubhan@MSI:~/programs/python/cp$ od -c names.txt
0000000 s h u b h a n \n s h u b h a n \n
0000020 s i n g h \n s h u b h a n \n s i
0000040 n g h \n s w a r o o p \n v i k a
0000060 s \n v a z e \n v i k a s \n
0000075
shubhan@MSI:~/programs/python/cp$
```

32. sort

```
shubhan@MSI:~/programs/p$ sort names.txt
shubhan
shubhan
shubhan
shubhan
singh
singh
swaroop
vaze
vikas
vikas
shubhan@MSI:~/programs/python/cp$ sort -r names.txt
vikas
vikas
vaze
swaroop
singh
singh
shubhan
shubhan
shubhan
shubhan
shubhan@MSI:~/programs/python/cp$ sort -c names.txt
sort: names.txt:4: disorder: shubhan
shubhan@MSI:~/programs/python/cp$ sort -u names.txt
shubhan
singh
swaroop
vaze
vikas
shubhan@MSI:~/programs/python/cp$ |
```

33. gzip

```
shubhan@MSI:~/programs/python/cp$ gzip pairland.py
shubhan@MSI:~/programs/python/cp$ ls
cut.txt dumb.py names.txt pairland.py.gz
shubhan@MSI:~/programs/python/cp$ gzip -d pairland..py
gzip: pairland..py.gz: No such file or directory
shubhan@MSI:~/programs/python/cp$ gzip -d pairlad.py.gz
gzip: pairlad.py.gz: No such file or directory
shubhan@MSI:~/programs/python/cp$ gzip -d pairland.py
shubhan@MSI:~/programs/python/cp$ ls
cut.txt dumb.py names.txt pairland.py
shubhan@MSI:~/programs/python/cp$ gzip -k pairland.py
shubhan@MSI:~/programs/python/cp$ ls
cut.txt dumb.py names.txt pairland.py pairland.py.gz
shubhan@MSI:~/programs/python/cp$ gzip.v pairland.py
gzip.v: command not found
shubhan@MSI:~/programs/python/cp$ gzip -v pairland .py
gzip: pairland: No such file or directory
gzip: .py: No such file or directory
shubhan@MSI:~/programs/python/cp$ gzip -v pairland.py
gzip: pairland.py.gz already exists; do you wish to overwrite (y or n)? y
pairland.py:    63.1% -- replaced with pairland.py.gz
shubhan@MSI:~/programs/python/cp$
```

34. gunzip

```
shubhan@MSI:~/programs/python/cp$ ls
cut.txt dumb.py names.txt pairland.py.gz
shubhan@MSI:~/programs/python/cp$ gunzip pairland.py.gz
shubhan@MSI:~/programs/python/cp$ ls
cut.txt dumb.py names.txt pairland.py
shubhan@MSI:~/programs/python/cp$ gzip names.py
gzip: names.py: No such file or directory
shubhan@MSI:~/programs/python/cp$ 
shubhan@MSI:~/programs/python/cp$ gzip names.txt
shubhan@MSI:~/programs/python/cp$ gunzip -c names.txt.gz
shubhan
shubhan
singh
shubhan
singh
swaroop
vikas
vaze
vikas
shubhan@MSI:~/programs/python/cp$ ls
cut.txt dumb.py names.txt.gz pairland.py
shubhan@MSI:~/programs/python/cp$ gunzip -l names.txt.gz
      compressed      uncompressed      ratio   uncompressed_name
                  65                  61    39.3%  names.txt
shubhan@MSI:~/programs/python/cp$ gunzip -k names.txt.gz
shubhan@MSI:~/programs/python/cp$ ls
cut.txt dumb.py names.txt names.txt.gz pairland.py
shubhan@MSI:~/programs/python/cp$ |
```

35. date

```
shubhan@MSI:~/programs/python/cp$ date
Mon Jan 29 23:49:26 IST 2024
shubhan@MSI:~/programs/python/cp$ date -u
Mon Jan 29 18:19:29 UTC 2024
shubhan@MSI:~/programs/python/cp$ date --date "25/1/24"
date: invalid date '25/1/24'
shubhan@MSI:~/programs/python/cp$ date --date "25/1/2024"
date: invalid date '25/1/2024'
shubhan@MSI:~/programs/python/cp$ date --date "1/25/2024"
Thu Jan 25 00:00:00 IST 2024
shubhan@MSI:~/programs/python/cp$ date --date="yesterday"
Sun Jan 28 23:51:07 IST 2024
shubhan@MSI:~/programs/python/cp$ date "+%D"
01/29/24
shubhan@MSI:~/programs/python/cp$ date "+%Y/%m/%d"
2024/01/29
shubhan@MSI:~/programs/python/cp$
```

36. cal

```
shubhan@MSI:~/programs/python/cp$ cal
January 2024
Su Mo Tu We Th Fr Sa
 1  2  3  4  5  6
 7  8  9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31

shubhan@MSI:~/programs/python/cp$ cal -y
2024
January February March
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
 1  2  3  4  5  6   1  2  3   1  2  3  4
 7  8  9 10 11 12 13   4  5  6  7  8  9 10   3  4  5  6  7  8  9
14 15 16 17 18 19 20   11 12 13 14 15 16 17   10 11 12 13 14 15 16
21 22 23 24 25 26 27   18 19 20 21 22 23 24   17 18 19 20 21 22 23
28 29 30 31   25 26 27 28 29   24 25 26 27 28 29 30
                           31

April May June
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
 1  2  3  4  5  6   1  2  3  4   1  2  3  4  5  6  7
 7  8  9 10 11 12 13   5  6  7  8  9 10 11   2  3  4  5  6  7  8
14 15 16 17 18 19 20   12 13 14 15 16 17 18   9 10 11 12 13 14 15
21 22 23 24 25 26 27   19 20 21 22 23 24 25   16 17 18 19 20 21 22
28 29 30   26 27 28 29 30 31   23 24 25 26 27 28 29
                           30

July August September
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
 1  2  3  4  5  6   1  2  3  4  5  6   1  2  3  4  5  6  7
 7  8  9 10 11 12 13   4  5  6  7  8  9 10   8  9 10 11 12 13 14
14 15 16 17 18 19 20   11 12 13 14 15 16 17   15 16 17 18 19 20 21
21 22 23 24 25 26 27   18 19 20 21 22 23 24   22 23 24 25 26 27 28
28 29 30 31   25 26 27 28 29 30 31   29 30 31

October November December
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
 1  2  3  4  5   1  2  1  2  3  4  5  6  7
 6  7  8 9 10 11 12   3  4  5  6  7  8  9   8  9 10 11 12 13 14
13 14 15 16 17 18 19   10 11 12 13 14 15 16   15 16 17 18 19 20 21
20 21 22 23 24 25 26   17 18 19 20 21 22 23   22 23 24 25 26 27 28
27 28 29 30 31   24 25 26 27 28 29 30   29 30 31

shubhan@MSI:~/programs/python/cp$ cal 01 2024
January 2024
Su Mo Tu We Th Fr Sa
 1  2  3  4  5
 7  8  9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31

shubhan@MSI:~/programs/python/cp$ cal -3
December 2023 January 2024 February 2024
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
 1  2   1  2  3  4  5  6   1  2  3   1  2  3
 3  4  5  6  7  8  9   7  8  9 10 11 12 13   4  5  6  7  8  9 10
10 11 12 13 14 15 16   14 15 16 17 18 19 20   11 12 13 14 15 16 17
17 18 19 20 21 22 23   21 22 23 24 25 26 27   18 19 20 21 22 23 24
24 25 26 27 28 29 30   28 29 30 31   25 26 27 28 29
                           31
```



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37. sleep

```
shubhan@MSI:~/programs/python/cp$ sleep 5
shubhan@MSI:~/programs/python/cp$ sleep 2.6
shubhan@MSI:~/programs/python/cp$ sleep 5m
^C
shubhan@MSI:~/programs/python/cp$ sleep 6h
^C
shubhan@MSI:~/programs/python/cp$ sleep --version
sleep (GNU coreutils) 8.32
Copyright (C) 2020 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <https://gnu.org/licenses/gpl.html>.
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.

Written by Jim Meyering and Paul Eggert.
shubhan@MSI:~/programs/python/cp$ sleep --help
Usage: sleep NUMBER[SUFFIX]...
      or: sleep OPTION
Pause for NUMBER seconds. SUFFIX may be 's' for seconds (the default),
'm' for minutes, 'h' for hours or 'd' for days. NUMBER need not be an
integer. Given two or more arguments, pause for the amount of time
specified by the sum of their values.

--help      display this help and exit
--version   output version information and exit

GNU coreutils online help: <https://www.gnu.org/software/coreutils/>
Report any translation bugs to <https://translationproject.org/team/>
Full documentation <https://www.gnu.org/software/coreutils/sleep>
or available locally via: info '(coreutils) sleep invocation'
shubhan@MSI:~/programs/python/cp$ |
```

38. time

```
shubhan@MSI:~/programs/p~ × + ▾
shubhan@MSI:~/programs/python/cp$ time

real    0m0.000s
user    0m0.000s
sys     0m0.000s
shubhan@MSI:~/programs/python/cp$ time sleep 2.1

real    0m2.103s
user    0m0.002s
sys     0m0.001s
shubhan@MSI:~/programs/python/cp$ time -p sleep 0.001
real  0.00
user  0.00
sys   0.00
shubhan@MSI:~/programs/python/cp$ time -p sleep 0.5
real  0.50
user  0.00
sys   0.00
shubhan@MSI:~/programs/python/cp$ time --help
--help: command not found

real    0m0.170s
user    0m0.052s
sys     0m0.041s
shubhan@MSI:~/programs/python/cp$ help time
time: time [-p] PIPELINE
      Report time consumed by PIPELINE's execution.

Execute PIPELINE and print a summary of the real time, user CPU time,
and system CPU time spent executing PIPELINE when it terminates.

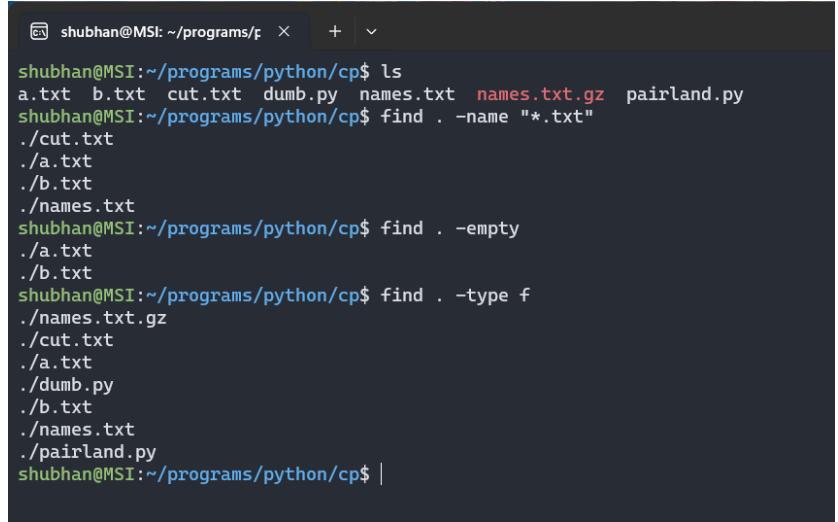
Options:
  -p      print the timing summary in the portable Posix format

The value of the TIMEFORMAT variable is used as the output format.

Exit Status:
  The return status is the return status of PIPELINE.
shubhan@MSI:~/programs/python/cp$
```



39. find



A terminal window showing a file listing and several 'find' command examples. The terminal title is 'shubhan@MSI: ~/programs/p'. The commands shown are:

```
shubhan@MSI:~/programs/python/cp$ ls
a.txt b.txt cut.txt dumb.py names.txt names.txt.gz pairland.py
shubhan@MSI:~/programs/python/cp$ find . -name "*.txt"
./cut.txt
./a.txt
./b.txt
./names.txt
shubhan@MSI:~/programs/python/cp$ find . -empty
./a.txt
./b.txt
shubhan@MSI:~/programs/python/cp$ find . -type f
./names.txt.gz
./cut.txt
./a.txt
./dumb.py
./b.txt
./names.txt
./pairland.py
shubhan@MSI:~/programs/python/cp$ |
```

40. locate

```
shubhan@MSI:~/programs/python/cp$ ls
a.txt b.txt cut.txt dumb.py names.txt names.txt.gz pairland.py
shubhan@MSI:~/programs/python/cp$ locate pairland.py
/home/shubhan/programs/python/cp/pairland.py
shubhan@MSI:~/programs/python/cp$ cd
shubhan@MSI:~$ locate "*.py" -n 8
/etc/python3.10/sitecustomize.py
/etc/python3.8/sitecustomize.py
/home/shubhan/.local/lib/python3.10/site-packages/_black_version.py
/home/shubhan/.local/lib/python3.10/site-packages/mypy_extensions.py
/home/shubhan/.local/lib/python3.10/site-packages/py.py
/home/shubhan/.local/lib/python3.10/site-packages/pylab.py
/home/shubhan/.local/lib/python3.10/site-packages/threadpoolctl.py
/home/shubhan/.local/lib/python3.10/site-packages/typing_extensions.py
shubhan@MSI:~$ locate -c [.py]*
26296
shubhan@MSI:~$ locate -i names.txt
/home/shubhan/programs/python/cp/names.txt
/home/shubhan/programs/python/cp/names.txt.gz
/mnt/c/Users/shubh/AppData/Local/Google/Chrome/User Data/ZxcvbnData/3/female_names.txt
/mnt/c/Users/shubh/AppData/Local/Google/Chrome/User Data/ZxcvbnData/3/male_names.txt
/mnt/c/Users/shubh/AppData/Local/Google/Chrome/User Data/ZxcvbnData/3/surnames.txt
/mnt/c/Users/shubh/AppData/Local/Packages/Clipchamp.Clipchamp_yxz26hyzhzsrt/LocalState/EBWebView/ZxcvbnData/3.0.0.0/female_names.txt
/mnt/c/Users/shubh/AppData/Local/Packages/Clipchamp.Clipchamp_yxz26hyzhzsrt/LocalState/EBWebView/ZxcvbnData/3.0.0.0/male_names.txt
/mnt/c/Users/shubh/AppData/Local/Packages/Clipchamp.Clipchamp_yxz26hyzhzsrt/LocalState/EBWebView/ZxcvbnData/3.0.0.0/surnames.txt
/mnt/c/Users/shubh/AppData/Roaming/Code/User/workspaceStorage/89920548a58d64a765420f818dbaafeb/redhat.java/jdt_ws/.metadata/.plugins/org.eclipse.jdt.core/javaLikeNames.txt
/mnt/c/Users/shubh/AppData/Roaming/Code/User/workspaceStorage/89920548a58d64a765420f818dbaafeb/redhat.java/jdt_ws/.metadata/.plugins/org.eclipse.jdt.core/savedIndexNames.txt
/mnt/c/Users/shubh/AppData/Roaming/Code/User/workspaceStorage/89920548a58d64a765420f818dbaafeb/redhat.java/ss_ws/.metadata/.plugins/org.eclipse.jdt.core/javaLikeNames.txt
/mnt/c/Users/shubh/AppData/Roaming/Code/User/workspaceStorage/89920548a58d64a765420f818dbaafeb/redhat.java/ss_ws/.metadata/.plugins/org.eclipse.jdt.core/savedIndexNames.txt
/mnt/c/Users/shubh/AppData/Roaming/Code/User/workspaceStorage/e704e6561bb3838a66d69dea7efb7b36/redhat.java/jdt_ws/.metadata/.plugins/org.eclipse.jdt.core/javaLikeNames.txt
/mnt/c/Users/shubh/AppData/Roaming/Code/User/workspaceStorage/e704e6561bb3838a66d69dea7efb7b36/redhat.java/jdt_ws/.metadata/.plugins/org.eclipse.jdt.core/savedIndexNames.txt
/mnt/c/Users/shubh/AppData/Roaming/Code/User/workspaceStorage/e704e6561bb3838a66d69dea7efb7b36/redhat.java/ss_ws/.metadata/.plugins/org.eclipse.jdt.core/javaLikeNames.txt
/mnt/c/Users/shubh/AppData/Roaming/Code/User/workspaceStorage/e704e6561bb3838a66d69dea7efb7b36/redhat.java/ss_ws/.metadata/.plugins/org.eclipse.jdt.core/savedIndexNames.txt
/mnt/c/Users/shubh/AppData/Roaming/Zoom/data/WebviewCacheX64/5-gpnhposo2-ab4x1lcjnw/commonWebApp/default/EBWebView/ZxcvbnData/3.0.0.0/female_names.txt
/mnt/c/Users/shubh/AppData/Roaming/Zoom/data/WebviewCacheX64/5-gpnhposo2-ab4x1lcjnw/commonWebApp/default/EBWebView/ZxcvbnData/3.0.0.0/male_names.txt
/mnt/c/Users/shubh/AppData/Roaming/Zoom/data/WebviewCacheX64/5-gpnhposo2-ab4x1lcjnw/commonWebApp/default/EBWebView/ZxcvbnData/3.0.0.0/surnames.txt
/mnt/c/Users/shubh/AppData/Roaming/Zoom/data/WebviewCacheX64/5-gpnhposo2-ab4x1lcjnw/zoomapps/vgg4KppeTSuucqC8ckGAYA_MT/EBWebView/ZxcvbnData/3.0.0.0/female_names.txt
/mnt/c/Users/shubh/AppData/Roaming/Zoom/data/WebviewCacheX64/5-gpnhposo2-ab4x1lcjnw/zoomapps/vgg4KppeTSuucqC8ckGAYA_MT/EBWebView/ZxcvbnData/3.0.0.0/male_names.txt
/mnt/c/Users/shubh/AppData/Roaming/Zoom/data/WebviewCacheX64/5-gpnhposo2-ab4x1lcjnw/zoomapps/vgg4KppeTSuucqC8ckGAYA_MT/EBWebView/ZxcvbnData/3.0.0.0/surnames.txt
shubhan@MSI:~$
```



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41. zcat

```
shubhan@MSI:~/programs/cp$ cd programs/python/cp
shubhan@MSI:~/programs/python/cp$ ls
a.txt b.txt cut.txt dumb.py names.txt names.txt.gz pairland.py
shubhan@MSI:~/programs/python/cp$ zcat names.txt.gz
shubhan
shubhan
singh
shubhan
singh
swaroop
vikas
vaze
vikas
shubhan@MSI:~/programs/python/cp$ zcat -f cut.txt
shubhan-100
swaroop-mid
shubhan-really good
swaroop-okok
shubhan@MSI:~/programs/python/cp$ zcat -l names.txt.gz
      compressed      uncompressed   ratio   uncompressed_name
            65                  61    39.3%  names.txt
shubhan@MSI:~/programs/python/cp$ zcat -q names.txt.gz
shubhan
shubhan
singh
shubhan
singh
swaroop
vikas
vaze
vikas
shubhan@MSI:~/programs/python/cp$ |
```

42. df

```
shubhan@MSI:~/programs/python/cp$ cd
shubhan@MSI:~$ df
Filesystem      1K-blocks    Used   Available  Use% Mounted on
none            4025332       4   4025328   1% /mnt/wsl
none           482889724 122620820 360268904  26% /usr/lib/wsl/drivers
/dev/sdc        1055762868 8018696 994040700  1% /
none            4025332       84   4025248   1% /mnt/wslg
none            4025332       0   4025332   0% /usr/lib/wsl/lib
rootfs          4022036     2056   4019980   1% /init
none            4025332      876   4024456   1% /run
none            4025332       0   4025332   0% /run/lock
none            4025332       0   4025332   0% /run/shm
tmpfs           4096         0   4096     0% /sys/fs/cgroup
none            4025332       76   4025256   1% /mnt/wslg/versions.txt
none            4025332       76   4025256   1% /mnt/wslg/doc
drvfs           482889724 122620820 360268904  26% /mnt/c
snapfuse         128         128     0 100% /snap/bare/5
snapfuse         93952      93952     0 100% /snap/gtk-common-themes/1535
snapfuse         75904      75904     0 100% /snap/core22/1033
snapfuse         75776      75776     0 100% /snap/core22/864
snapfuse         508928     508928     0 100% /snap/gnome-42-2204/141
snapfuse         41856      41856     0 100% /snap/snapd/20290
snapfuse         41472      41472     0 100% /snap/snapd/20671
snapfuse         134272     134272     0 100% /snap/ubuntu-desktop-installer/1278
snapfuse         134144     134144     0 100% /snap/ubuntu-desktop-installer/1282
shubhan@MSI:~$ df -l
Filesystem      1K-blocks    Used   Available  Use% Mounted on
none            4025332       4   4025328   1% /mnt/wsl
none           482889724 122613472 360276252  26% /usr/lib/wsl/drivers
/dev/sdc        1055762868 8018696 994040700  1% /
none            4025332       84   4025248   1% /mnt/wslg
none            4025332       0   4025332   0% /usr/lib/wsl/lib
rootfs          4022036     2056   4019980   1% /init
none            4025332      876   4024456   1% /run
none            4025332       0   4025332   0% /run/lock
none            4025332       0   4025332   0% /run/shm
tmpfs           4096         0   4096     0% /sys/fs/cgroup
none            4025332       76   4025256   1% /mnt/wslg/versions.txt
none            4025332       76   4025256   1% /mnt/wslg/doc
drvfs           482889724 122613472 360276252  26% /mnt/c
snapfuse         128         128     0 100% /snap/bare/5
```

The image shows a Windows taskbar with various pinned icons, including File Explorer, Microsoft Edge, WhatsApp, File History, Task View, and others. The system tray shows the date (30-01-2024), time (00:20), battery level (24%), and language (ENG IN).

```
shubhan@MSI: ~      x  +  v
snapfuse    134272    134272      0 100% /snap/ubuntu-desktop-installer/1278
snapfuse    134144    134144      0 100% /snap/ubuntu-desktop-installer/1282
shubhan@MSI:~$ df -l
Filesystem 1K-blocks   Used Available Use% Mounted on
none        4025332      4  4025328  1% /mnt/wsl
none        482889724 122613472 360276252 26% /usr/lib/wsl/drivers
/dev/sdc    1055762868 8018696 994040700 1% /
none        4025332      84  4025248  1% /mnt/wslg
none        4025332      0   4025332  0% /usr/lib/wsl/lib
rootfs     4022036     2056  4019980  1% /init
none        4025332     876  4024456  1% /run
none        4025332      0   4025332  0% /run/lock
none        4025332      0   4025332  0% /run/shm
tmpfs       4096        0   4096   0% /sys/fs/cgroup
none        4025332      76  4025256  1% /mnt/wslg/versions.txt
none        4025332      76  4025256  1% /mnt/wslg/doc
drvfs      482889724 122613472 360276252 26% /mnt/c
snapfuse    128         128   0 100% /snap/bare/5
snapfuse    93952      93952   0 100% /snap/gtk-common-themes/1535
snapfuse    75904      75904   0 100% /snap/core22/1033
snapfuse    75776      75776   0 100% /snap/core22/864
snapfuse    508928     508928   0 100% /snap/gnome-42-2204/141
snapfuse    41856      41856   0 100% /snap/snappyd/20290
snapfuse    41472      41472   0 100% /snap/snappyd/20671
snapfuse    134272     134272   0 100% /snap/ubuntu-desktop-installer/1278
snapfuse    134144     134144   0 100% /snap/ubuntu-desktop-installer/1282
shubhan@MSI:~$ df -a
Filesystem 1K-blocks   Used Available Use% Mounted on
none        4025332      4  4025328  1% /mnt/wsl
none        482889724 122613472 360276252 26% /usr/lib/wsl/drivers
/dev/sdc    1055762868 8018696 994040700 1% /
none        4025332      84  4025248  1% /mnt/wslg
/dev/sdc    1055762868 8018696 994040700 1% /mnt/wslg/distro
none        4025332      0   4025332  0% /usr/lib/wsl/lib
rootfs     4022036     2056  4019980  1% /init
none        4022036      0   4022036  0% /dev
sysfs       0           0   0  -  /sys
proc         0           0   0  -  /proc
devpts      0           0   0  -  /dev/pts
none        4025332     876  4024456  1% /run
none        4025332      0   4025332  0% /run/lock
```



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```
shubhan@MSI:~$ df -a
Filesystem      1K-blocks    Used Available Use% Mounted on
none            4025332       4   4025328  1% /mnt/wsl
none          482889724 122613472 360276252  26% /usr/lib/wsl/drivers
/dev/sdc        1055762868 8018696 994040700  1% /
none            4025332       84   4025248  1% /mnt/wslg
/dev/sdc        1055762868 8018696 994040700  1% /mnt/wslg/distro
none            4025332       0   4025332  0% /usr/lib/wsl/lib
rootfs         4022036     2056   4019980  1% /init
none            4022036       0   4022036  0% /dev
sysfs           0           0       0   - /sys
proc             0           0       0   - /proc
devpts           0           0       0   - /dev/pts
none            4025332      876   4024456  1% /run
none            4025332       0   4025332  0% /run/lock
none            4025332       0   4025332  0% /run/shm
none            4025332       0   4025332  0% /dev/shm
none            4025332      84   4025248  1% /run/user
binfmt_misc      0           0       0   - /proc/sys/fs/binfmt_misc
tmpfs            4096       0   4096  0% /sys/fs/cgroup
cgroup2           0           0       0   - /sys/fs/cgroup/unified
cgroup            0           0       0   - /sys/fs/cgroup/cpuset
cgroup            0           0       0   - /sys/fs/cgroup/cpu
cgroup            0           0       0   - /sys/fs/cgroup/cpuacct
cgroup            0           0       0   - /sys/fs/cgroup/blkio
cgroup            0           0       0   - /sys/fs/cgroup/memory
cgroup            0           0       0   - /sys/fs/cgroup/devices
cgroup            0           0       0   - /sys/fs/cgroup/freezer
cgroup            0           0       0   - /sys/fs/cgroup/net_cls
cgroup            0           0       0   - /sys/fs/cgroup/net_prio
cgroup            0           0       0   - /sys/fs/cgroup/hugepages
cgroup            0           0       0   - /sys/fs/cgroup/pids
cgroup            0           0       0   - /sys/fs/cgroup/rdma
cgroup            0           0       0   - /sys/fs/cgroup/misc
none            4025332      76   4025256  1% /mnt/wslg/versions.txt
none            4025332      76   4025256  1% /mnt/wslg/doc
none            4025332      84   4025248  1% /tmp/X11-unix
drvfs          482889724 122613472 360276252  26% /mnt/c
none            4025332      84   4025248  1% /run/user
cgroup            0           0       0   - /sys/fs/cgroup/systemd
hugepages           0           0       0   - /dev/hugepages
debugfs           0           0       0   - /sys/kernel/debug
mqueue             0           0       0   - /dev/queue
tracefs            0           0       0   - /sys/kernel/tracing
fusectl            0           0       0   - /sys/fs/fuse/connections
/dev/sdc        1055762868 8018696 994040700  1% /snap
snapfuse           128        128       0 100% /snap/baro/5
snapfuse          93952      93952       0 100% /snap/gtk-common-themes/1535
snapfuse          75904      75904       0 100% /snap/core22/1033
snapfuse          75776      75776       0 100% /snap/core22/864
snapfuse          508928     508928       0 100% /snap/gnome-42-2204/141
snapfuse          41856      41856       0 100% /snap/snapd/20290
snapfuse          41472      41472       0 100% /snap/snapd/20671
snapfuse          134272     134272       0 100% /snap/ubuntu-desktop-installer/1278
snapfuse          134144     134144       0 100% /snap/ubuntu-desktop-installer/1282
shubhan@MSI:~$ df --portability
Filesystem    1024-blocks    Used Available Capacity Mounted on
none            4025332       4   4025328  1% /mnt/wsl
none          482889724 122613408 360276316  26% /usr/lib/wsl/drivers
/dev/sdc        1055762868 8018696 994040700  1% /
none            4025332      84   4025248  1% /mnt/wslg
none            4025332       0   4025332  0% /usr/lib/wsl/lib
rootfs         4022036     2056   4019980  1% /init
```



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```
shubhan@MSI: ~      X + v      - □ ×
snapfuse      128      128      0 100% /snap/bare/5
snapfuse      93952    93952      0 100% /snap/gtk-common-themes/1535
snapfuse      75904    75904      0 100% /snap/core22/1033
snapfuse      75776    75776      0 100% /snap/core22/864
snapfuse      508928   508928      0 100% /snap/gnome-42-2204/141
snapfuse      41856    41856      0 100% /snap/snapd/20290
snapfuse      41472    41472      0 100% /snap/snapd/20671
snapfuse     134272   134272      0 100% /snap/ubuntu-desktop-installer/1278
snapfuse     134144   134144      0 100% /snap/ubuntu-desktop-installer/1282
shubhan@MSI:~$ df --portability
Filesystem 1024-blocks  Used Available Capacity Mounted on
none        4025332      4  4025328      1% /mnt/wsl
none        482889724 122613408 360276316     26% /usr/lib/wsl/drivers
/dev/sdc   1055762868 8018696 994040700      1% /
none        4025332      84  4025248      1% /mnt/wslg
none        4025332      0  4025332      0% /usr/lib/wsl/lib
rootfs      4022036    2056  4019980      1% /init
none        4025332      876 4024456      1% /run
none        4025332      0  4025332      0% /run/lock
none        4025332      0  4025332      0% /run/shm
tmpfs       4096       0  4096      0% /sys/fs/cgroup
none        4025332      76  4025256      1% /mnt/wslg/versions.txt
none        4025332      76  4025256      1% /mnt/wslg/doc
drvfs      482889724 122613408 360276316     26% /mnt/c
snapfuse      128      128      0 100% /snap/bare/5
snapfuse      93952    93952      0 100% /snap/gtk-common-themes/1535
snapfuse      75904    75904      0 100% /snap/core22/1033
snapfuse      75776    75776      0 100% /snap/core22/864
snapfuse      508928   508928      0 100% /snap/gnome-42-2204/141
snapfuse      41856    41856      0 100% /snap/snapd/20290
snapfuse      41472    41472      0 100% /snap/snapd/20671
snapfuse     134272   134272      0 100% /snap/ubuntu-desktop-installer/1278
snapfuse     134144   134144      0 100% /snap/ubuntu-desktop-installer/1282
shubhan@MSI:~$ |
```

43. mount

```
shubhan@MSI:~$ mount
none on /mnt/wsl type tmpfs (rw,relatime)
none on /usr/lib/wsl/drivers type 9p (ro,nosuid,nodev,noatime,dirsync,aname=drivers;fmask=222;dmask=222,mmap,access=client,msize=65536,trans=fd,rfd=7,wfd=7)
/dev/sdc on / type ext4 (rw,relatime,discard,errors=remount-ro,data=ordered)
none on /mnt/wslq type tmpfs (rw,relatime)
/dev/sdc on /mnt/wslq/distro type ext4 (ro,relatime,discard,errors=remount-ro,data=ordered)
none on /usr/lib/wsl/lib type overlay (rw,nosuid,nodev,noatime,lowerdir=/gpu_lib_packaged:/gpu_lib_inbox,upperdir=/gpu_lib/rw/upper,workdir=/gpu_lib/rw/work)
rootfs on /init type rootfs (ro,size=4022036k,nr_inodes=1005509)
none on /dev type devtmpfs (rw,nosuid,relatime,size=4022036k,nr_inodes=1005509,mode=755)
sysfs on /sys type sysfs (rw,nosuid,nodev,noexec,noatime)
proc on /proc type proc (rw,nosuid,nodev,noexec,noatime)
devpts on /dev/pts type devpts (rw,nosuid,noexec,noatime,gid=5,mode=620,ptmxmode=000)
none on /run type tmpfs (rw,nosuid,nodev,mode=755)
none on /run/lock type tmpfs (rw,nosuid,nodev,noexec,noatime)
none on /run/shm type tmpfs (rw,nosuid,nodev,noatime)
none on /dev/shm type tmpfs (rw,nosuid,nodev,noatime)
none on /run/user type tmpfs (rw,nosuid,nodev,noexec,noatime,mode=755)
binfmt_misc on /proc/sys/fs/binfmt_misc type binfmt_misc (rw,relatime)
tmpfs on /sys/fs/cgroup type tmpfs (ro,nosuid,nodev,noexec,size=4096k,nr_inodes=1024,mode=755)
cgroup2 on /sys/fs/cgroup/unified type cgroup2 (rw,nosuid,nodev,noexec,relatime,nsdelegate)
cgroup on /sys/fs/cgroup/cpuset type cgroup (rw,nosuid,nodev,noexec,relatime,cpuset)
cgroup on /sys/fs/cgroup/cpu type cgroup (rw,nosuid,nodev,noexec,relatime,cpu)
cgroup on /sys/fs/cgroup/cpacct type cgroup (rw,nosuid,nodev,noexec,relatime,cpacct)
cgroup on /sys/fs/cgroup/blkio type cgroup (rw,nosuid,nodev,noexec,relatime,blkio)
cgroup on /sys/fs/cgroup/memory type cgroup (rw,nosuid,nodev,noexec,relatime,memory)
cgroup on /sys/fs/cgroup/devices type cgroup (rw,nosuid,nodev,noexec,relatime,devices)
cgroup on /sys/fs/cgroup/freezer type cgroup (rw,nosuid,nodev,noexec,relatime,freezer)
cgroup on /sys/fs/cgroup/net_cls type cgroup (rw,nosuid,nodev,noexec,relatime,net_cls)
cgroup on /sys/fs/cgroup/perf_event type cgroup (rw,nosuid,nodev,noexec,relatime,perf_event)
cgroup on /sys/fs/cgroup/net_prio type cgroup (rw,nosuid,nodev,noexec,relatime,net_prio)
cgroup on /sys/fs/cgroup/hugetlb type cgroup (rw,nosuid,nodev,noexec,relatime,hugetlb)
cgroup on /sys/fs/cgroup/pids type cgroup (rw,nosuid,nodev,noexec,relatime,pids)
cgroup on /sys/fs/cgroup/rdma type cgroup (rw,nosuid,nodev,noexec,relatime,rdma)
cgroup on /sys/fs/cgroup/misc type cgroup (rw,nosuid,nodev,noexec,relatime,misc)
none on /mnt/wslg/versions.txt type overlay (rw,relatime,lowerdir=/system/rw/upper,workdir=/system/rw/work)
none on /mnt/wslg/doc type overlay (rw,relatime,lowerdir=/system/vhd,upperdir=/system/rw/upper,workdir=/system/rw/work)
none on /tmp/X11-unix type tmpfs (ro,relatime)
drvfs on /mnt/c type 9p (rw,noatime,dirsync,aname=drvfs;path=C:\,uid=1000;gid=1000;symlinkroot=/mnt/,mmap,access=client,msize=262144,trans=virtio)
none on /run/user type tmpfs (rw,relatime)
cgroup on /sys/fs/cgroup/systemd type cgroup (rw,nosuid,nodev,noexec,relatime,xattr,name=systemd)
hugetlbfs on /dev/hugepages type hugetlbfs (rw,relatime,pagesize=2M)
debugfs on /sys/kernel/debug type debugfs (rw,nosuid,nodev,noexec,relatime)
mqqueue on /dev/queue type mqqueue (rw,nosuid,nodev,noexec,relatime)
tracefs on /sys/kernel/tracing type tracefs (rw,nosuid,nodev,noexec,relatime)
fusectl on /sys/fs/fuse/connections type fusectl (rw,nosuid,nodev,noexec,relatime)
/dev/sdc on /snap type ext4 (rw,relatime,discard,errors=remount-ro,data=ordered)
snapfuse on /snap/bare/5 type fuse.snapfuse (ro,nodev,relatime,user_id=0,group_id=0,allow_other)
snapfuse on /snap/gtk-common-themes/1535 type fuse.snapfuse (ro,nodev,relatime,user_id=0,group_id=0,allow_other)
snapfuse on /snap/core22/1033 type fuse.snapfuse (ro,nodev,relatime,user_id=0,group_id=0,allow_other)
snapfuse on /snap/core22/864 type fuse.snapfuse (ro,nodev,relatime,user_id=0,group_id=0,allow_other)
snapfuse on /snap/gnome-h2-2204/141 type fuse.snapfuse (ro,nodev,relatime,user_id=0,group_id=0,allow_other)
snapfuse on /snap/snapd/20290 type fuse.snapfuse (ro,nodev,relatime,user_id=0,group_id=0,allow_other)
snapfuse on /snap/snapd/20671 type fuse.snapfuse (ro,nodev,relatime,user_id=0,group_id=0,allow_other)
snapfuse on /snap/ubuntu-desktop-installer/1278 type fuse.snapfuse (ro,nodev,relatime,user_id=0,group_id=0,allow_other)
snapfuse on /snap/ubuntu-desktop-installer/1282 type fuse.snapfuse (ro,nodev,relatime,user_id=0,group_id=0,allow_other)
shubhan@MSI:~$ |
```

```
shubhan@MSI: ~      + | ^

snapfuse on /snap/ubuntu-desktop-installer/1278 type fuse.snapfuse (ro,nodev,relatime,user_id=0,group_id=0,allow_other)
snapfuse on /snap/ubuntu-desktop-installer/1282 type fuse.snapfuse (ro,nodev,relatime,user_id=0,group_id=0,allow_other)
shubhan@MSI:~$ mount --help

Usage:
mount [-lhV]
mount -a [options]
mount [options] [--source] <source> | [--target] <directory>
mount [options] <source> <directory>
mount <operation> <mountpoint> [<target>]

Mount a filesystem.

Options:
-a, --all          mount all filesystems mentioned in fstab
-c, --no-canonicalize  don't canonicalize paths
-f, --fake          dry run; skip the mount(2) syscall
-F, --fork          fork off for each device (use with -a)
-T, --fstab <path>  alternative file to /etc/fstab
-i, --internal-only  don't call the mount.<type> helpers
-l, --show-labels    show also filesystem labels
-n, --no-mtab        don't write to /etc/mtab
--options-mode <mode>  what to do with options loaded from fstab
--options-source <source>  mount options source
--options-source-force  force use of options from fstab/mtab
-o, --options <list>  comma-separated list of mount options
-O, --test-opts <list>  limit the set of filesystems (use with -a)
-r, --read-only      mount the filesystem read-only (same as -o ro)
-t, --types <list>    limit the set of filesystem types
--source <src>       explicitly specifies source (path, label, uuid)
--target <target>     explicitly specifies mountpoint
--target-prefix <path>  specifies path used for all mountpoints
-v, --verbose        say what is being done
-w, --rw, --read-write  mount the filesystem read-write (default)
-N, --namespace <ns>   perform mount in another namespace
```

```
shubhan@MSI: ~      X + v - □

--source <src>      explicitly specifies source (path, label, uuid)
--target <target>    explicitly specifies mountpoint
--target-prefix <path>
                     specifies path used for all mountpoints
-v, --verbose        say what is being done
-w, --rw, --read-write mount the filesystem read-write (default)
-N, --namespace <ns> perform mount in another namespace

-h, --help           display this help
-V, --version        display version

Source:
-L, --label <label>      synonym for LABEL=<label>
-U, --uuid <uuid>        synonym for UUID=<uuid>
LABEL=<label>            specifies device by filesystem label
UUID=<uuid>              specifies device by filesystem UUID
PARTLABEL=<label>        specifies device by partition label
PARTUUID=<uuid>          specifies device by partition UUID
ID=<id>                 specifies device by udev hardware ID
<device>                specifies device by path
<directory>             mountpoint for bind mounts (see --bind/rbind)
<file>                  regular file for loopdev setup

Operations:
-B, --bind            mount a subtree somewhere else (same as -o bind)
-M, --move             move a subtree to some other place
-R, --rbind            mount a subtree and all submounts somewhere else
--make-shared          mark a subtree as shared
--make-slave           mark a subtree as slave
--make-private         mark a subtree as private
--make-unbindable     mark a subtree as unbindable
--make-rshared          recursively mark a whole subtree as shared
--make-rslave           recursively mark a whole subtree as slave
--make-rprivate          recursively mark a whole subtree as private
--make-runbindable     recursively mark a whole subtree as unbindable

For more details see mount(8).
shubhan@MSI:~$ mount --version
mount from util-linux 2.37.2 (libmount 2.37.2: selinux, smack, btrfs, verity, namespaces, assert, debug)
shubhan@MSI:~$
```

44. exit

```
shubhan@MSI:~$ exit --help
exit: exit [n]
      Exit the shell.

      Exits the shell with a status of N. If N is omitted, the exit status
      is that of the last command executed.
shubhan@MSI:~$ exit 5
```

45. clear

```
shubhan@MSI:~$ ll
total 26516
drwxr-x--- 15 shubhan shubhan 4096 Jan 29 01:49 .
drwxr-xr-x  3 root   root    4096 Nov 15 01:05 ..
-rw-----  1 shubhan shubhan 8768 Jan 30 00:23 .bash_history
-rw-r--r--  1 shubhan shubhan 220 Nov 15 01:05 .bash_logout
-rw-r--r--  1 shubhan shubhan 3771 Nov 15 01:05 .bashrc
drwx----- 5 shubhan shubhan 4096 Jan  6 00:05 .cache/
drwxr-xr-x  3 shubhan shubhan 4096 Jan  5 21:35 .config/
drwxr-xr-x  3 shubhan shubhan 4096 Nov 15 23:27 .ipython/
drwxr-xr-x  2 shubhan shubhan 4096 Jan  5 23:40 .jupyter/
-rw-----  1 shubhan shubhan 20 Jan 29 01:49 .lessht
drwxr-xr-x  6 shubhan shubhan 4096 Jan  5 21:36 .local/
-rw-r--r--  1 shubhan shubhan 0 Jan 30 00:23 .motd_shown
-rw-r--r--  1 shubhan shubhan 807 Nov 15 01:05 .profile
drwxr-xr-x 23 shubhan shubhan 4096 Dec 23 01:38 .pycharm_helpers/
-rw-----  1 shubhan shubhan 5 Jan  5 21:27 .python_history
-rw-r--r--  1 shubhan shubhan 0 Nov 15 01:06 .sudo_as_admin_successful
drwxr-xr-x  5 shubhan shubhan 4096 Nov 15 01:14 .vscode-server/
-rw-r--r--  1 shubhan shubhan 222 Jan  5 21:15 .wget-hsts
drwxr-xr-x 18 shubhan shubhan 4096 Jan  5 21:22 Python-3.12.1/
-rw-r--r--  1 shubhan shubhan 27053241 Dec  8 02:57 Python-3.12.1.tgz
drwxr-xr-x  3 shubhan shubhan 4096 Jan 29 00:00 dir2/
drwxr-xr-x  2 shubhan shubhan 4096 Jan 21 23:23 docs/
drwxr-xr-x  4 shubhan shubhan 4096 Jan  5 21:34 programs/
drwxr-xr-x  2 shubhan shubhan 4096 Jan 29 00:15 shubhan/
drwx----- 3 shubhan shubhan 4096 Jan 21 23:00 snap/
shubhan@MSI:~$ clear -x|
```

```
shubhan@MSI:~$ ls
Python-3.12.1 Python-3.12.1.tgz dir2 docs programs shubhan snap
shubhan@MSI:~$ clear
```

46. ip

```
shubhan@MSI:~$ ip address
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
        inet 127.0.0.1/8 scope host lo
            valid_lft forever preferred_lft forever
            inet6 ::1/128 scope host
                valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
    link/ether 00:15:5d:28:09:bb brd ff:ff:ff:ff:ff:ff
        inet 172.30.142.227/20 brd 172.30.143.255 scope global eth0
            valid_lft forever preferred_lft forever
            inet6 fe80::215:5dff:fe28:9bb/64 scope link
                valid_lft forever preferred_lft forever
shubhan@MSI:~$ ip link
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN mode DEFAULT group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP mode DEFAULT group default qlen 1000
    link/ether 00:15:5d:28:09:bb brd ff:ff:ff:ff:ff:ff
shubhan@MSI:~$ ip -s link
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN mode DEFAULT group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
        RX: bytes packets errors dropped missed mcast
            0      0      0      0      0      0
        TX: bytes packets errors dropped carrier collsns
            0      0      0      0      0      0
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP mode DEFAULT group default qlen 1000
    link/ether 00:15:5d:28:09:bb brd ff:ff:ff:ff:ff:ff
        RX: bytes packets errors dropped missed mcast
            26733980    7323      0      0      0     643
        TX: bytes packets errors dropped carrier collsns
            247769    2868      0      0      0      0
shubhan@MSI:~$ ip route
default via 172.30.128.1 dev eth0 proto kernel
172.30.128.0/20 dev eth0 proto kernel scope link src 172.30.142.227
shubhan@MSI:~$
```

47. ping

```
shubhan@MSI:~$ ping www.google.com
PING www.google.com (142.250.183.4) 56(84) bytes of data.
64 bytes from bom07s30-in-f4.1e100.net (142.250.183.4): icmp_seq=1 ttl=111 time=6.97 ms
64 bytes from bom07s30-in-f4.1e100.net (142.250.183.4): icmp_seq=2 ttl=111 time=7.28 ms
64 bytes from bom07s30-in-f4.1e100.net (142.250.183.4): icmp_seq=3 ttl=111 time=5.88 ms
^C
--- www.google.com ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2004ms
rtt min/avg/max/mdev = 5.876/6.707/7.276/0.600 ms
shubhan@MSI:~$ ping -c 2 www.google.com
PING www.google.com (142.250.183.4) 56(84) bytes of data.
64 bytes from bom07s30-in-f4.1e100.net (142.250.183.4): icmp_seq=1 ttl=111 time=5.81 ms
64 bytes from bom07s30-in-f4.1e100.net (142.250.183.4): icmp_seq=2 ttl=111 time=5.91 ms

--- www.google.com ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1002ms
rtt min/avg/max/mdev = 5.814/5.862/5.911/0.048 ms
shubhan@MSI:~$ ping -s 100 -c 2 www.google.com
PING www.google.com (142.250.183.4) 100(128) bytes of data.
76 bytes from bom07s30-in-f4.1e100.net (142.250.183.4): icmp_seq=1 ttl=111 (truncated)
76 bytes from bom07s30-in-f4.1e100.net (142.250.183.4): icmp_seq=2 ttl=111 (truncated)

--- www.google.com ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1002ms
rtt min/avg/max/mdev = 6.271/8.178/10.085/1.907 ms
shubhan@MSI:~$ ping -i 2 -c 3 www.google.com
PING www.google.com (142.250.183.4) 56(84) bytes of data.
64 bytes from bom07s30-in-f4.1e100.net (142.250.183.4): icmp_seq=1 ttl=111 time=6.97 ms
64 bytes from bom07s30-in-f4.1e100.net (142.250.183.4): icmp_seq=2 ttl=111 time=7.34 ms
64 bytes from bom07s30-in-f4.1e100.net (142.250.183.4): icmp_seq=3 ttl=111 time=5.45 ms

--- www.google.com ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 4005ms
rtt min/avg/max/mdev = 5.446/6.582/7.335/0.817 ms
shubhan@MSI:~$ |
```



Search



ENG

IN

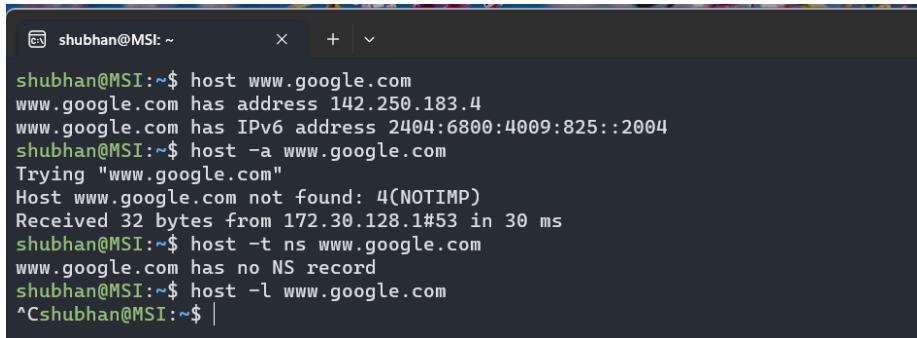


00:29



30-01-2024

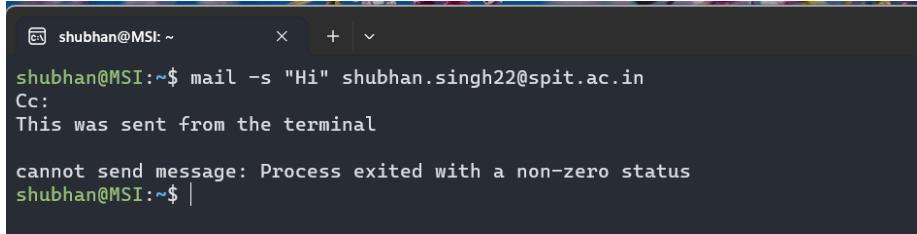
48. host



```
shubhan@MSI:~$ host www.google.com
www.google.com has address 142.250.183.4
www.google.com has IPv6 address 2404:6800:4009:825::2004
shubhan@MSI:~$ host -a www.google.com
Trying "www.google.com"
Host www.google.com not found: 4(NOTIMP)
Received 32 bytes from 172.30.128.1#53 in 30 ms
shubhan@MSI:~$ host -t ns www.google.com
www.google.com has no NS record
shubhan@MSI:~$ host -l www.google.com
^Cshubhan@MSI:~$ |
```

49. mail

(not working properly)



```
shubhan@MSI:~$ mail -s "Hi" shubhan.singh22@spit.ac.in
Cc:
This was sent from the terminal

cannot send message: Process exited with a non-zero status
shubhan@MSI:~$ |
```

50. ssh (not covered in syllabus (yet))