

1) sarayu@LAPTOP-BIAO0RTG: ~\$ cat /etc/passwd

```
ust3@LAPTOP-BIAO0RTG: ~$ cat /etc/passwd
sarayu@LAPTOP-BIAO0RTG:~$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin)/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,:/run/systemd:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,:/run/systemd:/usr/sbin/nologin
systemd-timesync:x:102:104:systemd Time Synchronization,,:/run/systemd:/usr/sbin/nologin
messagebus:x:103:106:/nonexistent:/usr/sbin/nologin
syslog:x:104:110:/home/syslog:/usr/sbin/nologin
_apt:x:105:65534:/nonexistent:/usr/sbin/nologin
tss:x:106:111:TPM software stack,,:/var/lib/tpm:/bin/false
uuidd:x:107:112:/run/uuidd:/usr/sbin/nologin
tcpdump:x:108:113:/nonexistent:/usr/sbin/nologin
sshd:x:109:65534:/run/sshd:/usr/sbin/nologin
landscape:x:110:115:/var/lib/landscape:/usr/sbin/nologin
pollinate:x:111:1:/var/cache/pollinate:/bin/false
sarayu:x:1000:1000,,:/home/sarayu:/bin/bash
athulya:x:1001:1001:/home/athulya:/bin/sh
user2:x:1002:1003,,:/home/user2:/bin/bash
user1:x:1003:1005,,:/home/user1:/bin/bash
ust1:x:1004:1006,,:/home/ust1:/bin/bash
ust2:x:1005:1007,,:/home/ust2:/bin/bash
sarayu@LAPTOP-BIAO0RTG:~$ su - ust1
Password:
su: Authentication failure
sarayu@LAPTOP-BIAO0RTG:~$ passwd
```

2) sarayu@LAPTOP-BIAO0RTG:~\$ passwd

3) sarayu@LAPTOP-BIAO0RTG:~\$ sudo adduser ust3

4) sarayu@LAPTOP-BIAO0RTG:~\$ su - ust3

```
ust3@LAPTOP-BIAO0RTG: ~  
sarayu@LAPTOP-BIAO0RTG:~$ passwd  
Changing password for sarayu.  
Current password:  
New password:  
Retype new password:  
Password unchanged  
New password:  
Retype new password:  
passwd: password updated successfully  
sarayu@LAPTOP-BIAO0RTG:~$ sudo adduser ust3  
[sudo] password for sarayu:  
Adding user `ust3' ...  
Adding new group `ust3' (1008) ...  
Adding new user `ust3' (1006) with group `ust3' ...  
Creating home directory `/home/ust3' ...  
Copying files from `/etc/skel' ...  
New password:  
Retype new password:  
passwd: password updated successfully  
Changing the user information for ust3  
Enter the new value, or press ENTER for the default  
    Full Name []:  
    Room Number []:  
    Work Phone []:  
    Home Phone []:  
    Other []:  
Is the information correct? [Y/n] y  
sarayu@LAPTOP-BIAO0RTG:~$ su - ust3  
Password:  
Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 4.4.0-19041-Microsoft x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:        https://ubuntu.com/advantage  
  
System information as of Fri Jan  7 15:09:05 IST 2022  
  
System load:          0.52  
Usage of /home:       unknown  
Memory usage:         88%  
Swap usage:           7%  
Processes:            9  
Users logged in:      0  
IPv4 address for eth1: 172.23.64.1  
IPv4 address for wifi0: 192.168.29.167  
IPv6 address for wifi0: 2405:201:f00c:c81d:5052:6e38:5b92:92d0  
IPv6 address for wifi0: 2405:201:f00c:c81d:5b4:f2a8:3956:79cf  
  
89 updates can be applied immediately.  
39 of these updates are standard security updates.  
To see these additional updates run: apt list --upgradable  
  
The list of available updates is more than a week old.  
To check for new updates run: sudo apt update  
  
This message is shown once a day. To disable it please create the  
/home/ust3/.hushlogin file.  
ust3@LAPTOP-BIAO0RTG:~$ mkdir folder1  
ust3@LAPTOP-BIAO0RTG:~$ cd folder1  
ust3@LAPTOP-BIAO0RTG:~/folder1$ touch file1.txt
```

4) ust3@LAPTOP-BIAO0RTG:~\$ mkdir folder1

5) ust3@LAPTOP-BIAO0RTG:~\$ cd folder1

```
ust3@LAPTOP-BIAO0RTG: ~  
ust3@LAPTOP-BIAO0RTG:~$ mkdir folder1  
ust3@LAPTOP-BIAO0RTG:~$ cd folder1  
ust3@LAPTOP-BIAO0RTG:~/folder1$ touch file1.txt
```

- 5) ust3@LAPTOP-BIAO0RTG:~\$ echo "hlooo">file1.txt
- 6) ust3@LAPTOP-BIAO0RTG:~\$ cat file1.txt
- 7) ust3@LAPTOP-BIAO0RTG:~\$ echo "here">>file1.txt
- 8) ust3@LAPTOP-BIAO0RTG:~\$ cat file1.txt
- 9) ust3@LAPTOP-BIAO0RTG:~\$ touch file2.txt
- 10) ust3@LAPTOP-BIAO0RTG:~\$ cp file1.txt file2.txt
- 11) ust3@LAPTOP-BIAO0RTG:~\$ cat file2.txt
- 12) ust3@LAPTOP-BIAO0RTG:~\$ cat *.txt

- 13) ust3@LAPTOP-BIAO0RTG:~\$ whoami
- 14) ust3@LAPTOP-BIAO0RTG:~\$ who
- 15) ust3@LAPTOP-BIAO0RTG:~\$ w
- 16) ust3@LAPTOP-BIAO0RTG:~\$ id
- 17) ust3@LAPTOP-BIAO0RTG:~\$ cat /etc/group

```
ust3@LAPTOP-BIAO0RTG: ~  
ust3@LAPTOP-BIAO0RTG:~$ cd home  
-bash: cd: home: No such file or directory  
ust3@LAPTOP-BIAO0RTG:~$ cd  
ust3@LAPTOP-BIAO0RTG:~$ echo "hlooo">file1.txt  
ust3@LAPTOP-BIAO0RTG:~$ cat file1.txt  
hlooo  
ust3@LAPTOP-BIAO0RTG:~$ echo "here">>file1.txt  
ust3@LAPTOP-BIAO0RTG:~$ cat file1.txt  
hlooo  
here  
ust3@LAPTOP-BIAO0RTG:~$ touch file2.txt  
ust3@LAPTOP-BIAO0RTG:~$ cp file1.txt file2.txt  
ust3@LAPTOP-BIAO0RTG:~$ cat file2.txt  
hlooo  
here  
ust3@LAPTOP-BIAO0RTG:~$ cat *.txt  
hlooo  
here  
hlooo  
here  
ust3@LAPTOP-BIAO0RTG:~$ whoami  
ust3  
ust3@LAPTOP-BIAO0RTG:~$ who  
ust3@LAPTOP-BIAO0RTG:~$ w  
15:54:24 up 1:23, 0 users, load average: 0.52, 0.58, 0.59  
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU WHAT  
ust3@LAPTOP-BIAO0RTG:~$ id  
uid=1006(ust3) gid=1008(ust3) groups=1008(ust3)  
ust3@LAPTOP-BIAO0RTG:~$ cat /etc/groups  
cat: /etc/groups: No such file or directory  
ust3@LAPTOP-BIAO0RTG:~$ cat /etc/group  
root:x:0:  
daemon:x:1:  
bin:x:2:  
sys:x:3:  
adm:x:4:syslog,sarayu  
tty:x:5:syslog  
disk:x:6:  
lp:x:7:  
mail:x:8:  
news:x:9:
```

- 18) ust3@LAPTOP-BIAO0RTG:~\$ ls
- 19) ust3@LAPTOP-BIAO0RTG: ~\$ ls -il
- 20) ust3@LAPTOP-BIAO0RTG: ~\$ ls -l
- 21) ust3@LAPTOP-BIAO0RTG:~\$ pwd
- 22) ust3@LAPTOP-BIAO0RTG:~\$ file file2.txt
- 23) ust3@LAPTOP-BIAO0RTG:~\$ chmod o+w file1.txt
- 24) ust3@LAPTOP-BIAO0RTG:~\$ ls -lh file1.txt
- 25) ust3@LAPTOP-BIAO0RTG:~\$ chmod o-w file1.txt
- 26) ust3@LAPTOP-BIAO0RTG:~\$ ls -lh file1.txt
- 27) ust3@LAPTOP-BIAO0RTG:~\$ ls -a
- 28) ust3@LAPTOP-BIAO0RTG:~\$ touch file3.txt
- 29) ust3@LAPTOP-BIAO0RTG:~\$ ls
- 30) ust3@LAPTOP-BIAO0RTG:~\$ rm file3.txt

```
ust3@LAPTOP-BIAO0RTG: ~  
ust3:x:1008:  
ust3@LAPTOP-BIAO0RTG:~$ ls  
file1.txt file2.txt folder1  
ust3@LAPTOP-BIAO0RTG:~$ ls -il  
total 0  
9851624184916678 -rw-rw-r-- 1 ust3 ust3 11 Jan 7 15:50 file1.txt  
14636698789101312 -rw-rw-r-- 1 ust3 ust3 11 Jan 7 15:51 file2.txt  
8444249301466693 drwxrwxr-x 1 ust3 ust3 4096 Jan 7 15:46 folder1  
ust3@LAPTOP-BIAO0RTG:~$ pwd  
/home/ust3  
ust3@LAPTOP-BIAO0RTG:~$ ls  
file1.txt file2.txt folder1  
ust3@LAPTOP-BIAO0RTG:~$ file file2.txt  
file2.txt: ASCII text  
ust3@LAPTOP-BIAO0RTG:~$ ls -l  
total 0  
-rw-rw-r-- 1 ust3 ust3 11 Jan 7 15:50 file1.txt  
-rw-rw-r-- 1 ust3 ust3 11 Jan 7 15:51 file2.txt  
drwxrwxr-x 1 ust3 ust3 4096 Jan 7 15:46 folder1  
ust3@LAPTOP-BIAO0RTG:~$ chmod o+w file1.txt  
ust3@LAPTOP-BIAO0RTG:~$ ls -lh file1.txt  
-rw-rw-rw- 1 ust3 ust3 11 Jan 7 15:50 file1.txt  
ust3@LAPTOP-BIAO0RTG:~$ chmod o-w file1.txt  
ust3@LAPTOP-BIAO0RTG:~$ ls -lh file1.txt  
-rw-rw-r-- 1 ust3 ust3 11 Jan 7 15:50 file1.txt  
ust3@LAPTOP-BIAO0RTG:~$ ls -a  
. . . .bash_logout .bashrc .landscape .local .motd_shown .profile file1.txt file2.txt folder1  
ust3@LAPTOP-BIAO0RTG:~$ touch file3.txt  
ust3@LAPTOP-BIAO0RTG:~$ ls  
file1.txt file2.txt file3.txt folder1  
ust3@LAPTOP-BIAO0RTG:~$ rm --file3.txt  
rm: unrecognized option '--file3.txt'  
Try 'rm --help' for more information.  
ust3@LAPTOP-BIAO0RTG:~$ rm file3.txt  
ust3@LAPTOP-BIAO0RTG:~$ ls  
file1.txt file2.txt folder1  
ust3@LAPTOP-BIAO0RTG:~$ finf . -name "*e*.txt"  
  
Command 'finf' not found, did you mean:  
  
command 'find' from deb findutils (4.7.0-1ubuntu1)
```

- 31) ust3@LAPTOP-BIAO0RTG:~\$ find . -name "*e*.txt"
- 32) ust3@LAPTOP-BIAO0RTG:~\$ find . -name file1.txt -delete
- 33) ust3@LAPTOP-BIAO0RTG:~\$ ls
- 34) ust3@LAPTOP-BIAO0RTG:~\$ find . -name *.txt
- 35) ust3@LAPTOP-BIAO0RTG:~\$ find . -name *.*
- 36) ust3@LAPTOP-BIAO0RTG:~\$ find . -type d -name *.*
- 37) ust3@LAPTOP-BIAO0RTG:~\$ find . -type d -name *t*
- 38) ust3@LAPTOP-BIAO0RTG:~\$ find . -type d -name "t*"
- 39) ust3@LAPTOP-BIAO0RTG:~\$ find . -type d
- 40) ust3@LAPTOP-BIAO0RTG:~\$ find . -type b

```
ust3@LAPTOP-BIAO0RTG: ~  
Try: apt install <deb name>  
  
ust3@LAPTOP-BIAO0RTG:~$ find . -name "*e*.txt"  
./file1.txt  
./file2.txt  
ust3@LAPTOP-BIAO0RTG:~$ ls  
file1.txt  file2.txt  folder1  
ust3@LAPTOP-BIAO0RTG:~$ find . -name file1.txt delete  
find: paths must precede expression: `delete'  
ust3@LAPTOP-BIAO0RTG:~$ find . -name file1.txt -delete  
ust3@LAPTOP-BIAO0RTG:~$ ls  
file2.txt  folder1  
ust3@LAPTOP-BIAO0RTG:~$ find . -name *.txt  
./file2.txt  
ust3@LAPTOP-BIAO0RTG:~$ find . -name *.*  
./file2.txt  
ust3@LAPTOP-BIAO0RTG:~$ find . -type d -name *.*  
ust3@LAPTOP-BIAO0RTG:~$ find . -type d -name * *  
find: paths must precede expression: `folder1'  
find: possible unquoted pattern after predicate `-name'?  
ust3@LAPTOP-BIAO0RTG:~$ find . -type d -name *t*  
ust3@LAPTOP-BIAO0RTG:~$ find . -type d -name "t*"  
ust3@LAPTOP-BIAO0RTG:~$ find . -type d -name "t*"  
find: paths must precede expression: `*'  
ust3@LAPTOP-BIAO0RTG:~$ find . -type d *  
find: paths must precede expression: `file2.txt'  
find: possible unquoted pattern after predicate `-type'?  
ust3@LAPTOP-BIAO0RTG:~$ find . -type d  
.  
./landscape  
./local  
./local/share  
./local/share/nano  
./folder1  
ust3@LAPTOP-BIAO0RTG:~$ find . -type b  
ust3@LAPTOP-BIAO0RTG:~$ find . type d  
.  
./bashrc  
./bash_logout  
./landscape  
./landscape/sysinfo.log
```

- 41) ust3@LAPTOP-BIAO0RTG:~\$ ls
- 42) ust3@LAPTOP-BIAO0RTG:~\$ touch file3.txt
- 43) ust3@LAPTOP-BIAO0RTG:~\$ nano file3.txt
- 44) ust3@LAPTOP-BIAO0RTG:~\$ cat file3.txt
- 45) ust3@LAPTOP-BIAO0RTG:~\$ touch file4.txt
- 46) ust3@LAPTOP-BIAO0RTG:~\$ cp file3.txt file4.txt
- 47) ust3@LAPTOP-BIAO0RTG:~\$ cat file4.txt
- 48) ust3@LAPTOP-BIAO0RTG:~\$ touch file5.txt
- 49) ust3@LAPTOP-BIAO0RTG:~\$ mv file4.txt file5.txt
- 50) ust3@LAPTOP-BIAO0RTG:~\$ cat file4.txt
- 51) ust3@LAPTOP-BIAO0RTG:~\$ cat file5.txt

```
ust3@LAPTOP-BIAO0RTG: ~
This message is shown once a day. To disable it please create the
/home/ust3/.hushlogin file.
ust3@LAPTOP-BIAO0RTG:~$ ls
file2.txt  folder1
ust3@LAPTOP-BIAO0RTG:~$ touch file3.txt
ust3@LAPTOP-BIAO0RTG:~$ nano file3.txt
ust3@LAPTOP-BIAO0RTG:~$ cat file3.txt
Devops
python
Linux
ust3@LAPTOP-BIAO0RTG:~$ touch file4.txt
ust3@LAPTOP-BIAO0RTG:~$ cp file3.txt file4.txt
ust3@LAPTOP-BIAO0RTG:~$ ls
file2.txt  file3.txt  file4.txt  folder1
ust3@LAPTOP-BIAO0RTG:~$ cat file4.txt
Devops
python
Linux
ust3@LAPTOP-BIAO0RTG:~$ touch file5.txt
ust3@LAPTOP-BIAO0RTG:~$ mv file4.txt file5.txt
ust3@LAPTOP-BIAO0RTG:~$ cat file4.txt
cat: file4.txt: No such file or directory
ust3@LAPTOP-BIAO0RTG:~$ cat file5.txt
Devops
python
Linux
ust3@LAPTOP-BIAO0RTG:~$
```

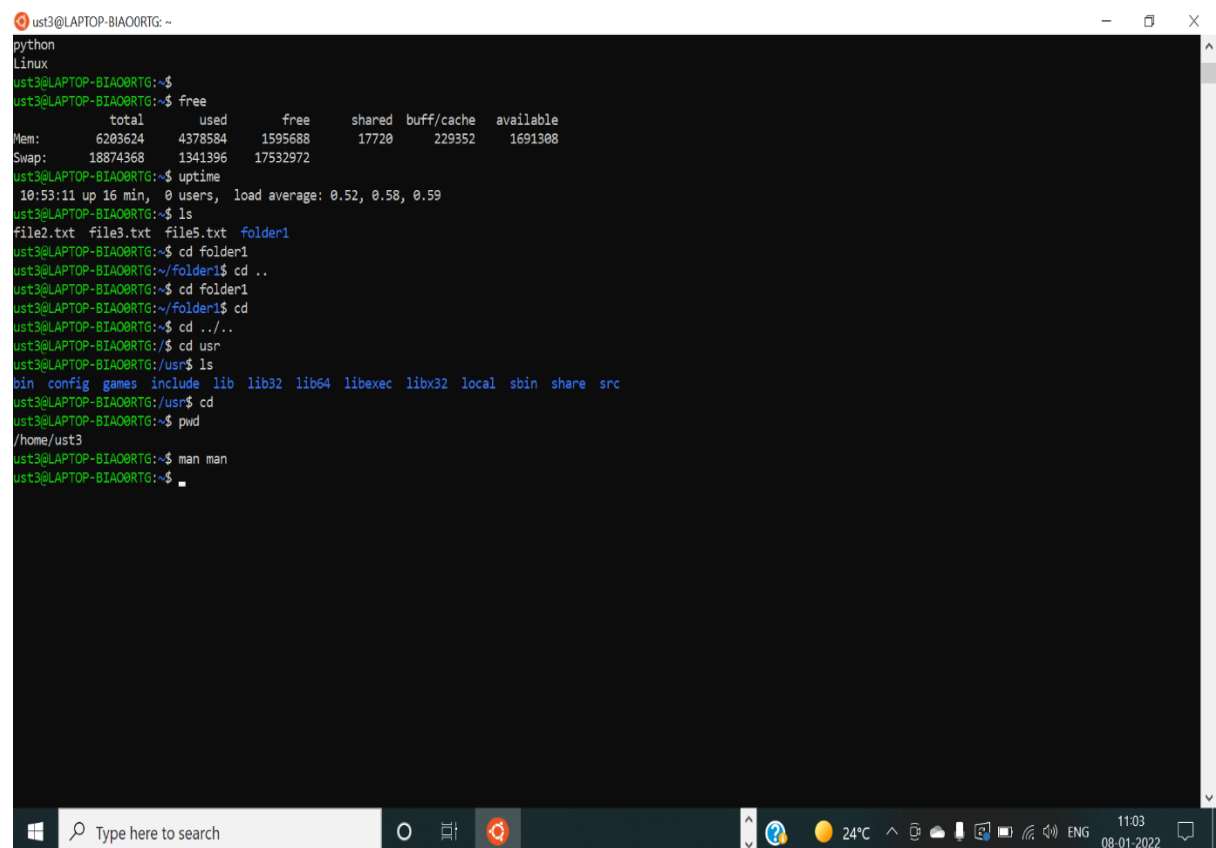
- 52) ust3@LAPTOP-BIAO0RTG:~\$ ls
- 53) ust3@LAPTOP-BIAO0RTG:~\$ cat file2.txt
- 54) ust3@LAPTOP-BIAO0RTG:~\$ cat file3.txt
- 55) ust3@LAPTOP-BIAO0RTG:~\$ cat file5.txt
- 56) ust3@LAPTOP-BIAO0RTG:~\$ cat *.txt>allcontent.txt
- 57) ust3@LAPTOP-BIAO0RTG:~\$ cat allcontent.txt

```
ust3@LAPTOP-BIAO0RTG: ~$  
ust3@LAPTOP-BIAO0RTG:~$ ls  
file2.txt  file3.txt  file5.txt  folder1  
ust3@LAPTOP-BIAO0RTG:~$ cat file1.txt  
cat: file1.txt: No such file or directory  
ust3@LAPTOP-BIAO0RTG:~$ ls  
file2.txt  file3.txt  file5.txt  folder1  
ust3@LAPTOP-BIAO0RTG:~$ cat file2.txt  
hlooo  
here  
ust3@LAPTOP-BIAO0RTG:~$ cat file3.txt  
Devops  
python  
linux  
ust3@LAPTOP-BIAO0RTG:~$ cat file5.txt  
Devops  
python  
linux  
ust3@LAPTOP-BIAO0RTG:~$ cat *.txt>allcontent.txt  
ust3@LAPTOP-BIAO0RTG:~$ cat allcontent.txt  
hlooo  
here  
Devops  
python  
linux  
Devops  
python  
linux  
ust3@LAPTOP-BIAO0RTG:~$
```

- 58) ust3@LAPTOP-BIAO0RTG:~\$ cd folder1
- 59) ust3@LAPTOP-BIAO0RTG:~/folder1\$ echo "tr1 tr2 tr3 tr4 tr5">trainee.txt
- 60) ust3@LAPTOP-BIAO0RTG:~/folder1\$ cat trainee.txt
- 61) ust3@LAPTOP-BIAO0RTG:~/folder1\$ echo "tr6 tr7 tr8 tr9 tr10">>trainee.txt
- 62) ust3@LAPTOP-BIAO0RTG:~/folder1\$ echo "tr11 tr12 tr13 tr14 tr15">>trainee.txt
- 63) ust3@LAPTOP-BIAO0RTG:~/folder1\$ echo "tr16 tr17 tr18 tr19 tr20">>trainee.txt
- 64) ust3@LAPTOP-BIAO0RTG:~/folder1\$ echo "tr21 tr22 tr23 tr24 tr25">>trainee.txt
- 65) ust3@LAPTOP-BIAO0RTG:~/folder1\$ cat trainee.txt
- 66) ust3@LAPTOP-BIAO0RTG:~/folder1\$ less trainee.txt

```
ust3@LAPTOP-BIAO0RTG: ~/folder1  
linux  
ust3@LAPTOP-BIAO0RTG:~$ cd folder1  
ust3@LAPTOP-BIAO0RTG:~/folder1$ echo "tr1 tr2 tr3 tr4 tr5">trainee.txt  
ust3@LAPTOP-BIAO0RTG:~/folder1$ cat trainee.txt  
tr1 tr2 tr3 tr4 tr5  
ust3@LAPTOP-BIAO0RTG:~/folder1$ echo "tr6 tr7 tr8 tr9 tr10">>trainee.txt  
ust3@LAPTOP-BIAO0RTG:~/folder1$ echo "tr11 tr12 tr13 tr14 tr15">>trainee.txt  
ust3@LAPTOP-BIAO0RTG:~/folder1$ echo "tr16 tr17 tr18 tr19 tr20">>trainee.txt  
ust3@LAPTOP-BIAO0RTG:~/folder1$ echo "tr21 tr22 tr23 tr24 tr25">>trainee.txt  
ust3@LAPTOP-BIAO0RTG:~/folder1$ cat trainee.txt  
tr1 tr2 tr3 tr4 tr5  
tr6 tr7 tr8 tr9 tr10  
tr11 tr12 tr13 tr14 tr15  
tr16 tr17 tr18 tr19 tr20  
tr21 tr22 tr23 tr24 tr25  
ust3@LAPTOP-BIAO0RTG:~/folder1$ less trainee.txt  
ust3@LAPTOP-BIAO0RTG:~/folder1$
```

- 67) ust3@LAPTOP-BIAO0RTG:~\$ free
- 68) ust3@LAPTOP-BIAO0RTG:~\$ uptime
- 69) ust3@LAPTOP-BIAO0RTG:~\$ ls
- 70) ust3@LAPTOP-BIAO0RTG:~\$ cd folder1
- 71) ust3@LAPTOP-BIAO0RTG:~/folder1\$ cd ..
- 72) ust3@LAPTOP-BIAO0RTG:~\$ cd folder1
- 73) ust3@LAPTOP-BIAO0RTG:~/folder1\$ cd
- 74) ust3@LAPTOP-BIAO0RTG:~\$ cd ../../
- 75) ust3@LAPTOP-BIAO0RTG:/\$ cd usr
- 76) ust3@LAPTOP-BIAO0RTG:/usr\$ ls
- 77) ust3@LAPTOP-BIAO0RTG:/usr\$ cd
- 78) ust3@LAPTOP-BIAO0RTG:~\$ pwd
- 79) ust3@LAPTOP-BIAO0RTG:~\$ man man



The screenshot shows a terminal window titled 'ust3@LAPTOP-BIAO0RTG: ~'. The terminal output is as follows:

```
python
Linux
ust3@LAPTOP-BIAO0RTG:~$
ust3@LAPTOP-BIAO0RTG:~$ free
              total        used        free      shared  buff/cache   available
Mem:           6285624      4378584      1595688        17720        229352      1691308
Swap:          18874368       1341396       17532972
ust3@LAPTOP-BIAO0RTG:~$ uptime
 10:53:11 up 16 min,  0 users,  load average: 0.52, 0.58, 0.59
ust3@LAPTOP-BIAO0RTG:~$ ls
file2.txt  file3.txt  file5.txt  folder1
ust3@LAPTOP-BIAO0RTG:~$ cd folder1
ust3@LAPTOP-BIAO0RTG:~/folder1$ cd ..
ust3@LAPTOP-BIAO0RTG:~$ cd folder1
ust3@LAPTOP-BIAO0RTG:~/folder1$ cd
ust3@LAPTOP-BIAO0RTG:~$ cd ../../
ust3@LAPTOP-BIAO0RTG:/$ cd usr
ust3@LAPTOP-BIAO0RTG:/usr$ ls
bin  config  games  include  lib  lib32  lib64  libexec  libx32  local  sbin  share  src
ust3@LAPTOP-BIAO0RTG:/usr$ cd
ust3@LAPTOP-BIAO0RTG:~$ pwd
/home/ust3
ust3@LAPTOP-BIAO0RTG:~$ man man
ust3@LAPTOP-BIAO0RTG:~$
```

The terminal window is running on a Windows desktop, as evidenced by the taskbar at the bottom showing the Start button, search bar, and system tray with a temperature of 24°C and date 08-01-2022.

- 80) ust3@LAPTOP-BIAO0RTG:~\$ df
- 81) ust3@LAPTOP-BIAO0RTG:~\$ env


```
ust3@LAPTOP-BIAO0RTG: ~$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
rootfs          249246716 103615024 145631692  42% /
none            249246716 103615024 145631692  42% /dev
none            249246716 103615024 145631692  42% /run
none            249246716 103615024 145631692  42% /run/lock
none            249246716 103615024 145631692  42% /run/shm
none            249246716 103615024 145631692  42% /run/user
tmpfs           249246716 103615024 145631692  42% /sys/fs/cgroup
C:\             249246716 103615024 145631692  42% /mnt/c
D:\             976768828 9454660 967306168   1% /mnt/d

ust3@LAPTOP-BIAO0RTG: ~$ env
SHELL=/bin/bash
PWD=/home/ust3
LOGNAME=ust3
NOTIFY_UPDATE=update-motd
HOME=/home/ust3
LANG=C.UTF-8
LS_COLORS=rs=0:di=01;34:ln=01;36:mh=00:pi=40;33:so=01;35:do=01;35:bd=40;33;01:cd=40;33;01:or=40;31;01:mi=00:su=37;41:sg=30;43:ca=30;41:tw=30;42:ow=34;42:st=37;44:ex=01;32:
tar=01;31:tgz=01;31:arc=01;31:arj=01;31:taz=01;31:lha=01;31:lz4=01;31:lzh=01;31:lzma=01;31:tlz=01;31:txz=01;31:tzo=01;31:t7z=01;31:zip=01;31:z=
01;31:dz=01;31:gz=01;31:lrz=01;31:lz=01;31:lzo=01;31:xz=01;31:zst=01;31:tzst=01;31:bz2=01;31:bz=01;31:tbz=01;31:tbz2=01;31:tz=01;31:deb=01;31:
rpm=01;31:jar=01;31:war=01;31:ear=01;31:sar=01;31:rar=01;31:alz=01;31:ace=01;31:zoo=01;31:cpio=01;31:7z=01;31:rz=01;31:cab=01;31:wim=01;31:swm=0
1;31:dwm=01;31:esd=01;31:jpg=01;35:jpeg=01;35:mjpg=01;35:mjpeg=01;35:gif=01;35:bmp=01;35:pbm=01;35:pgm=01;35:ppm=01;35:tga=01;35:xbm=01;35:xpm=0
1;35:tif=01;35:tiff=01;35:png=01;35:svg=01;35:svgz=01;35:mng=01;35:pcx=01;35:mov=01;35:mpg=01;35:mpeg=01;35:m2v=01;35:mkv=01;35:webm=01;35:ogm=0
1;35:mp4=01;35:m4v=01;35:mp4v=01;35:vob=01;35:qt=01;35:nuv=01;35:wmv=01;35:asf=01;35:rm=01;35:rmvb=01;35:flc=01;35:avi=01;35:fl=01;35:flv=01;35
:gl=01;35:d1=01;35:xcf=01;35:xwd=01;35:yuv=01;35:cgm=01;35:emf=01;35:ogv=01;35:ogx=01;35:aac=01;35:au=01;35:flac=01;35:m4a=01;35:mid=01;35:mid
i=00;36:mka=00;36:mp3=00;36:mpc=00;36:ogg=00;36:ra=00;36:wav=00;36:oga=00;36:opus=00;36:spx=00;36:xspf=00;36:

TERM=xterm-256color
LESSCLOSE=/usr/bin/lesspipe %s %s
USER=ust3
SHLVL=1
XDG_DATA_DIRS=/usr/local/share:/usr/share:/var/lib/flatpak/desktop
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin
MAIL=/var/mail/ust3
_=/usr/bin/env
OLDPWD=/usr
ust3@LAPTOP-BIAO0RTG: ~$
```

82) ust3@LAPTOP-BIAO0RTG:~\$ info

```
ust3@LAPTOP-BIAO0RTG: ~$ info
File: dir, Node: Top, This is the top of the INFO tree.

This is the Info main menu (aka directory node).
A few useful Info commands:

'q' quits;
'H' lists all Info commands;
'h' starts the Info tutorial;
'mTextinfo RET' visits the Texinfo manual, etc.

* Menu:

Basics
* Common options: (coreutils)Common options.
* Coreutils: (coreutils). Core GNU (file, text, shell) utilities.
* Date input formats: (coreutils)Date input formats.
* File permissions: (coreutils)File permissions.
  Access modes.
* Ed: (ed). The GNU line editor
* Finding files: (find). Operating on files matching certain criteria.

Compression
* Gzip: (gzip). General (de)compression of files (lzw).

Editors
* nano: (nano). Small and friendly text editor.

General Commands
* Screen: (screen). Full-screen window manager.

GNU organization
* Maintaining Findutils: (find-maint). Maintaining GNU findutils

GNU Utilities
* dirmngr-client: (gnupg). X.509 CRL and OCSP client.
* dirmngr: (gnupg). X.509 CRL and OCSP server.
* gpg-agent: (gnupg). The secret key daemon.
* gpg2: (gnupg). OpenPGP encryption and signing tool.

-----Info: (dir)Top, 180 lines --Top-----
Welcome to Info version 6.7. Type H for help, h for tutorial.
```

- 83) ust3@LAPTOP-BIAO0RTG:~\$ ps
- 84) ust3@LAPTOP-BIAO0RTG:~\$ last
- 85) ust3@LAPTOP-BIAO0RTG:~\$ top

```

ust3@LAPTOP-BIAO0RTG: ~
ust3@LAPTOP-BIAO0RTG:~$ ps
  PID TTY          TIME CMD
    74 tty1      00:00:00 bash
   177 tty1      00:00:00 ps
ust3@LAPTOP-BIAO0RTG:~$ last

wtmp begins Tue Nov 30 15:47:44 2021
ust3@LAPTOP-BIAO0RTG:~$ top
top - 11:18:56 up 41 min, 0 users, load average: 0.52, 0.58, 0.59
Tasks:  6 total,   1 running,  5 sleeping,  0 stopped,  0 zombie
%Cpu(s):  8.3 us, 15.5 sy,  0.0 ni, 75.4 id,  0.0 wa,  0.7 hi,  0.0 si,  0.0 st
MiB Mem :  6058.2 total, 1744.2 free,  4090.1 used,   224.0 buff/cache
MiB Swap: 18432.0 total, 17024.8 free,  1407.2 used,  1837.5 avail Mem

  PID USER      PR  NI  VIRT  RES  SHR S %CPU  %MEM    TIME+  COMMAND
    1 root        20   0   8944   332   288 S  0.0   0.0   0:00.29  init
    8 root        20   0   8944   228   180 S  0.0   0.0   0:00.00  init
    9 sarayu     20   0 180880 3628 3544 S  0.0   0.1   0:00.32  bash
   73 root        20   0 18412 2464 2440 S  0.0   0.0   0:00.05  su
   74 ust3        20   0 18076 3604 3492 S  0.0   0.1   0:00.51  bash
  179 ust3        20   0 18944 2164 1524 R  0.0   0.0   0:00.07  top

```

- 86) ust3@LAPTOP-BIAO0RTG:~\$ htop

```

ust3@LAPTOP-BIAO0RTG: ~
1  [|||||] 14.4% 5 [|||||] 6.0%
2  [|||||] 10.7% 6 [|||||] 6.0%
3  [|||||] 4.0% 7 [|||||] 7.3%
4  [|||||] 13.2% 8 [|||||] 7.8%
Mem[|||||] 4.00G/5.92G Tasks: 6, 1 thr; 1 running
Swp[|||||] 1.37G/18.0G Load average: 0.52 0.58 0.59
Uptime: 00:45:44

PID USER      PRI  NI  VIRT  RES  SHR S %CPU  %MEM    TIME+  Command
189 ust3        20   0 16440 2560 1504 R  0.0   0.0   0:00.03  htop
  7 root        20   0   8944   332   288 S  0.0   0.0   0:00.00  /init
  1 root        20   0   8944   332   288 S  0.0   0.0   0:00.28  /init
  8 root        20   0   8944   228   180 S  0.0   0.0   0:00.00  /init
  9 sarayu     20   0 180880 3628 3544 S  0.0   0.1   0:00.32  -bash
 73 root        20   0 18412 2464 2440 S  0.0   0.0   0:00.05  su - ust3
 74 ust3        20   0 18076 3604 3500 S  0.0   0.1   0:00.51  -bash

f1Help f2Setup f3Search f4Filter f5Tree f6SortBy f7Nice f8Vice f9Kill f10Quit

```

Python

ust3@LAPTOP-BIAO0RTG:~\$ python3

Python 3.8.10 (default, Jun 2 2021, 10:49:15)

[GCC 9.4.0] on linux

Type "help", "copyright", "credits" or "license" for more information.

```
>>> from math import *
```

```
>>> a=pi
```

```
>>> print(a)
```

```
3.141592653589793
```

```
>>> print(sqrt(64))
```

```
8.0
```

```
>>> print(pow(6,4))
```

```
1296.0
```

```
>>> print(round(89.678))
```

```
90
```

```
>>> print(floor(990.999))
```

```
990
```

```
>>> print(ceil(90.0001))
```

```
91
```

```
>>>
```

```
>>> def highestnumber(no,no1):
```

```
...     if(no > no1):
```

```
...         print(no, 'grearest')
```

```
...     else:
```

```
...         print(no1, 'greatest')
```

```
...
```

```
>>> highestnumber(10,99)
```

```
99 greatest
```

```
>>>
```

```
>>> class student:
```

```
...     def setstudent(self,id,name,course):
```

```
...         self.id=id
```

```
...         self.name=name
```

```
...         self.course=course
```

```
...         print(self.id, " ", self.name," ", self.course):
```

```
File "<stdin>", line 6
```

```
    print(self.id, " ", self.name," ", self.course):
```

^

SyntaxError: invalid syntax

```
>>> class student:
```

```
...     def setstudent(self,id,name,course):
```

```

...     self.id=id
...     self.name=name
...     self.course=course
...     def getstudent(self):
...         print(self.id, " ", self.name, " ", self.course):
File "<stdin>", line 7
    print(self.id, " ", self.name, " ", self.course):
                    ^

```

SyntaxError: invalid syntax

```

>>> class student:
...     def setstudent(self,id,name,course):
...         self.id=id
...         self.name=name
...         self.course=course
...     def getstudent(self):
...         print(self.id, " ", self.name, " ", self.course)
...
>>> std = student()
>>> std.setstudent(123,"athulya","python")
>>> std.getstudent()
123 athulya python
>>>
>>> def prime(n,m):
...     for i in range(n,m):
...         for j in range(2,i):
...             if((i%j)==0):
...                 break
...         else:
...             print(i)
...
>>> prime(3,17)
3
5
7
11
13
>>>

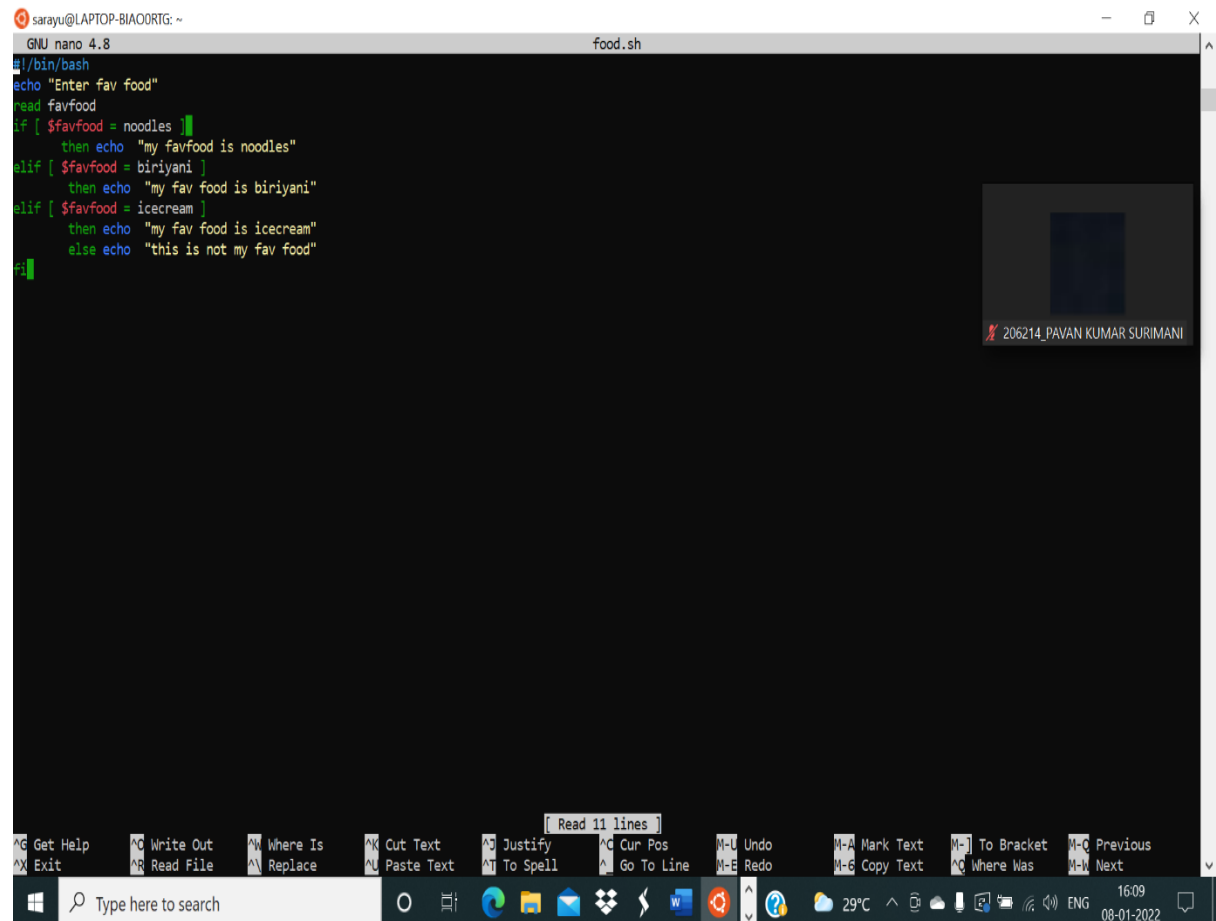
```

Shell Script

ust3@LAPTOP-BIAO0RTG:~\$ su - sarayu

Password:

sarayu@LAPTOP-BIAO0RTG:~\$ nano food.sh



```
GNU nano 4.8 food.sh
#!/bin/bash
echo "Enter fav food"
read favfood
if [ $favfood = noodles ]
then echo "my favfood is noodles"
elif [ $favfood = biriyani ]
then echo "my fav food is biriyani"
elif [ $favfood = icecream ]
then echo "my fav food is icecream"
else echo "this is not my fav food"
fi
```

206214_PAVAN KUMAR SURIMANI

Get Help Write Out Where Is Cut Text Justify Cur Pos Undo Mark Text To Bracket Previous
Exit Read File Replace Paste Text To Spell Go To Line Redo Copy Text Where Was Next

Type here to search 29°C 16:09 08-01-2022

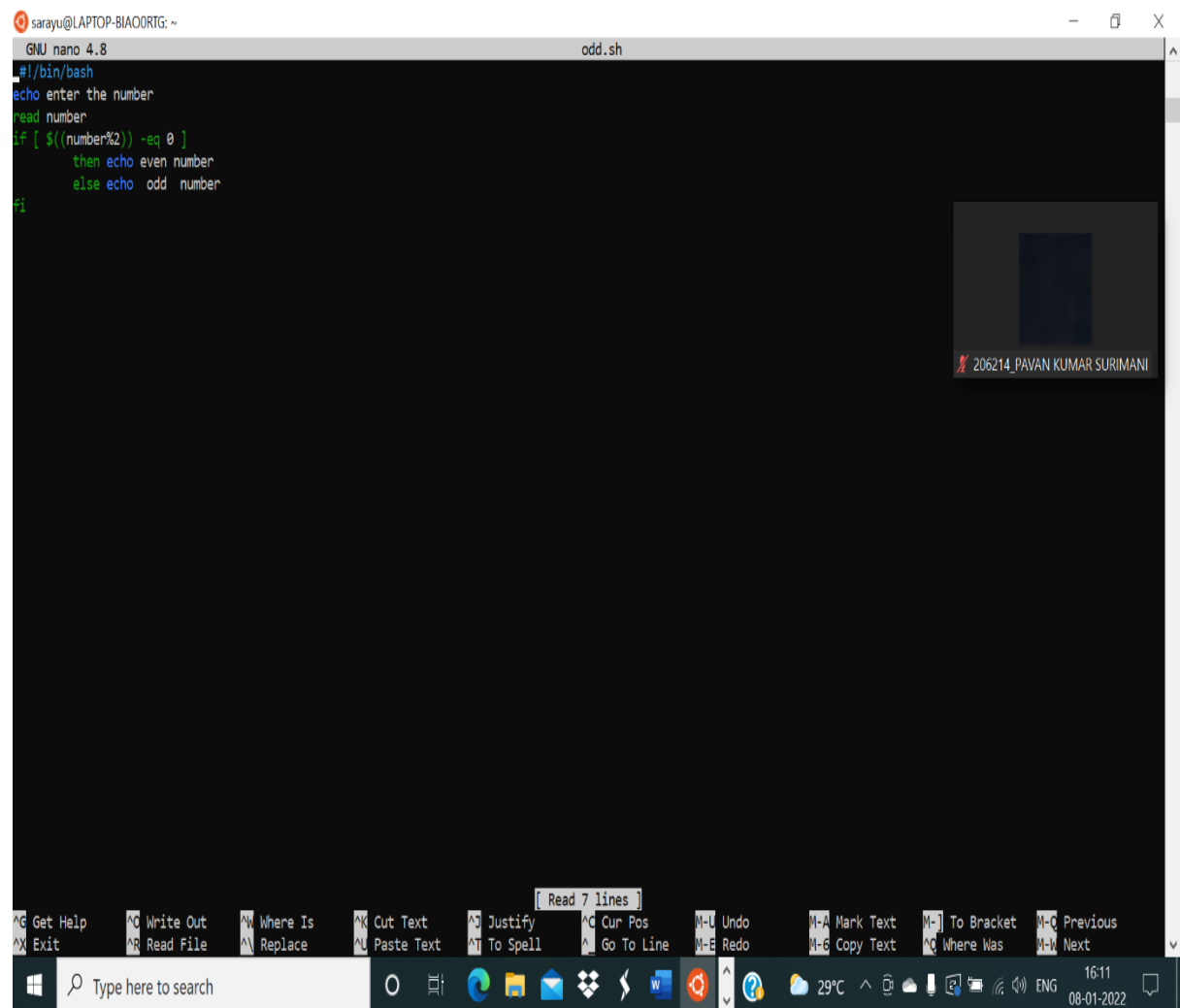
sarayu@LAPTOP-BIAO0RTG:~\$./food.sh

Enter fav food

biriyani

my fav food is biriyani

sarayu@LAPTOP-BIAOORTG:~\$ nano odd.sh



```
GNU nano 4.8 odd.sh
#!/bin/bash
echo enter the number
read number
if [ $(number%2) -eq 0 ]
then echo even number
else echo odd number
fi
```

sarayu@LAPTOP-BIAOORTG:~\$./odd.sh

enter the number

3

odd number

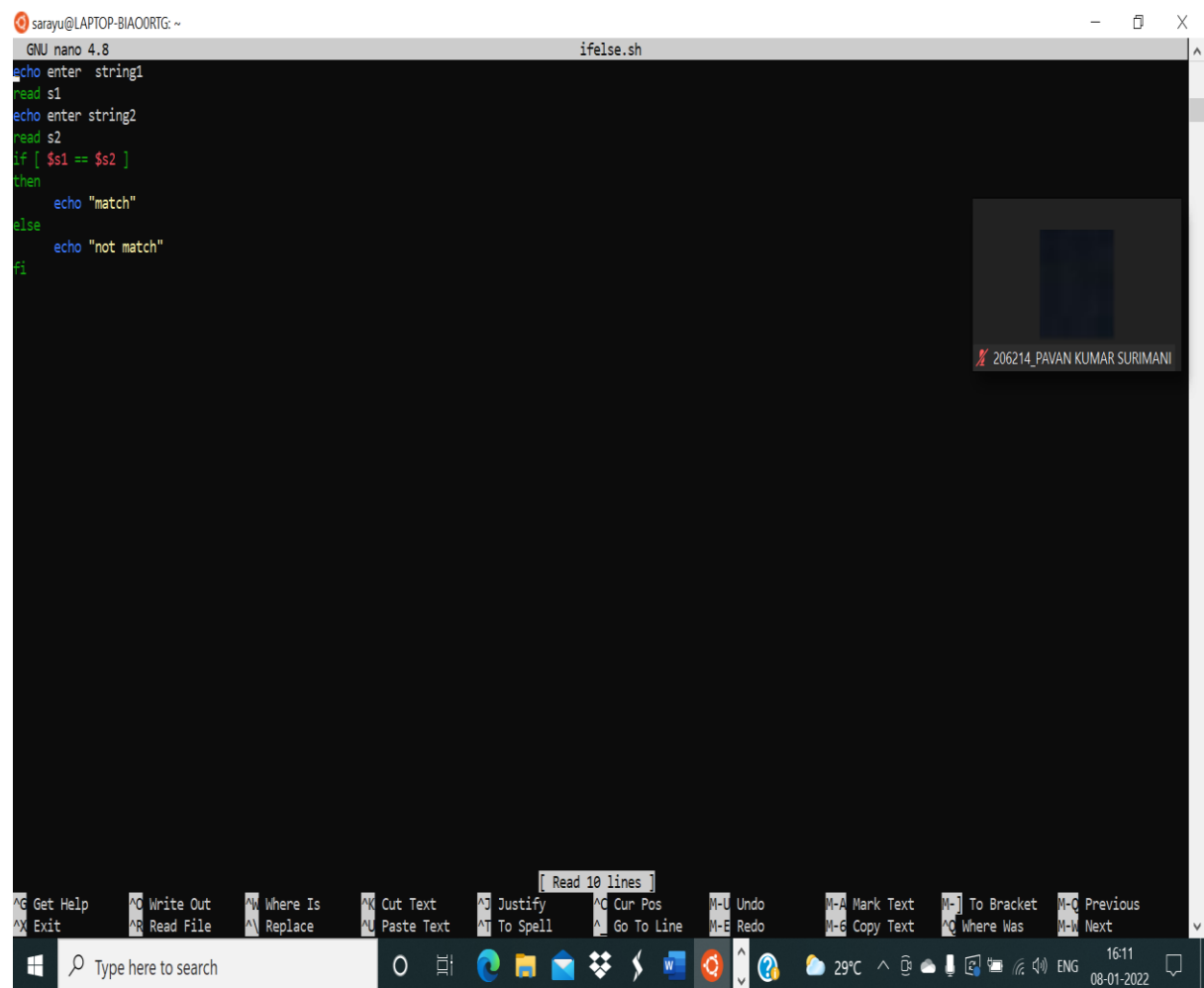
sarayu@LAPTOP-BIAOORTG:~\$./odd.sh

enter the number

6

even number

sarayu@LAPTOP-BIAO0RTG:~\$ nano ifelse.sh



```
GNU nano 4.8 ifelse.sh
echo enter string1
read s1
echo enter string2
read s2
if [ $s1 == $s2 ]
then
    echo "match"
else
    echo "not match"
fi
```

sarayu@LAPTOP-BIAO0RTG:~\$./ifelse.sh

enter string1

qwe

enter string2

qwe

match

sarayu@LAPTOP-BIAO0RTG:~\$./ifelse.sh

enter string1

ert

enter string2

uio

not match

Ansible

```
sarayu@LAPTOP-BIAO0RTG:~$ ansible-galaxy init --force --offline meera
```

```
sarayu@LAPTOP-BIAO0RTG:~$ cd meera
```

```
sarayu@LAPTOP-BIAO0RTG:~/meera$ tree
```

```
.
├── README.md
├── defaults
│   └── main.yml
├── files
├── handlers
│   └── main.yml
├── meta
│   └── main.yml
├── tasks
│   └── main.yml
├── templates
├── tests
│   └── inventory
│   └── test.yml
└── vars
    └── main.yml
```

8 directories, 8 files

```
sarayu@LAPTOP-BIAO0RTG:~/meera$ ansible --version
```



```
sarayu@LAPTOP-BIAO0RTG: ~/meera
sarayu@LAPTOP-BIAO0RTG:~$ ls
AbcImpe  args.sh  athulya  bash_alise  datafile.sh  frnds.sh  ifelse.sh  krishna  multiple.sh  myinfo.txt  odd2.sh  temp1  whiledemo.sh
Hashmun  asd.yml  athulya1  bootcamp  food.sh  hello.sh  input.sh  linux_tweet_app  mycommand.sh  nano.save  state.sh  tempy  zing
abc.yml  asdrole  athulya_playbook  data.sh  fordemo.sh  hobesdir  install-tomcat  multiarg.sh  mycommands.sh  odd.sh  temp  user1
sarayu@LAPTOP-BIAO0RTG:~$ ansible-galaxy init --force --offline meera
- Role meera was created successfully
sarayu@LAPTOP-BIAO0RTG:~$ ls
AbcImpe  args.sh  athulya  bash_alise  datafile.sh  frnds.sh  ifelse.sh  krishna  multiarg.sh  mycommands.sh  odd.sh  temp  user1
Hashmun  asd.yml  athulya1  bootcamp  food.sh  hello.sh  input.sh  linux_tweet_app  multiple.sh  myinfo.txt  odd2.sh  temp1  whiledemo.sh
abc.yml  asdrole  athulya_playbook  data.sh  fordemo.sh  hobesdir  install-tomcat  meera  mycommand.sh  nano.save  state.sh  tempy  zing
sarayu@LAPTOP-BIAO0RTG:~$ cd meera
sarayu@LAPTOP-BIAO0RTG:~/meera$ tree
.
├── README.md
├── defaults
│   └── main.yml
├── files
├── handlers
│   └── main.yml
├── meta
│   └── main.yml
├── tasks
│   └── main.yml
├── templates
├── tests
│   ├── inventory
│   └── test.yml
└── vars
    └── main.yml

8 directories, 8 files
sarayu@LAPTOP-BIAO0RTG:~/meera$ ansible --version
ansible [core 2.11.7]
  config file = /etc/ansible/ansible.cfg
  configured module search path = ['/home/sarayu/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']
  ansible python module location = /usr/lib/python3/dist-packages/ansible
  ansible collection location = /home/sarayu/.ansible/collections:/usr/share/ansible/collections
  executable location = /usr/bin/ansible
  python version = 3.8.10 (default, Jun  2 2021, 10:49:15) [GCC 9.4.0]
  jinja version = 2.10.1
  libyaml = True
```