

EXPERIMENT 2

LINUX BASIC COMMANDS - II

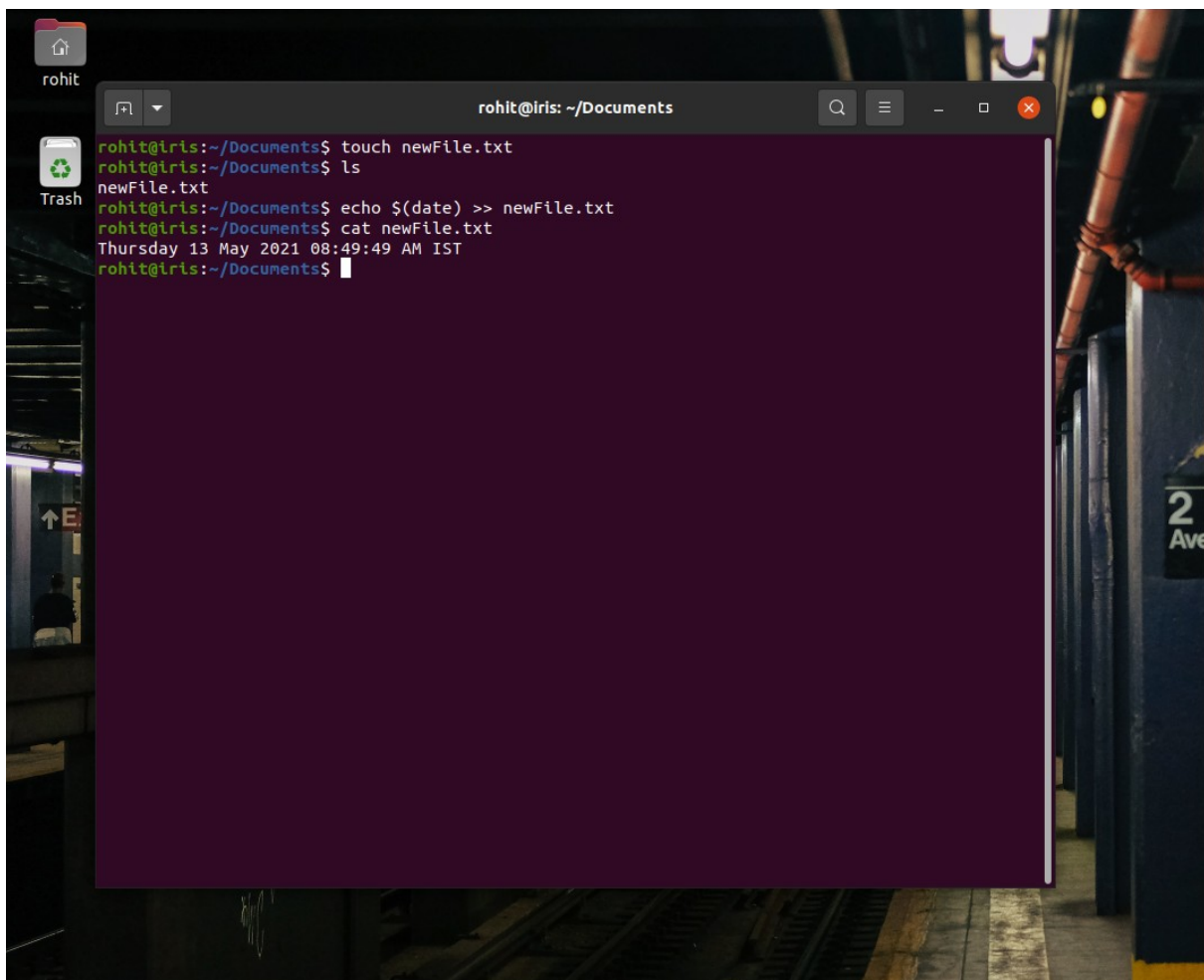
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Roll No : 58

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Exerise 1:

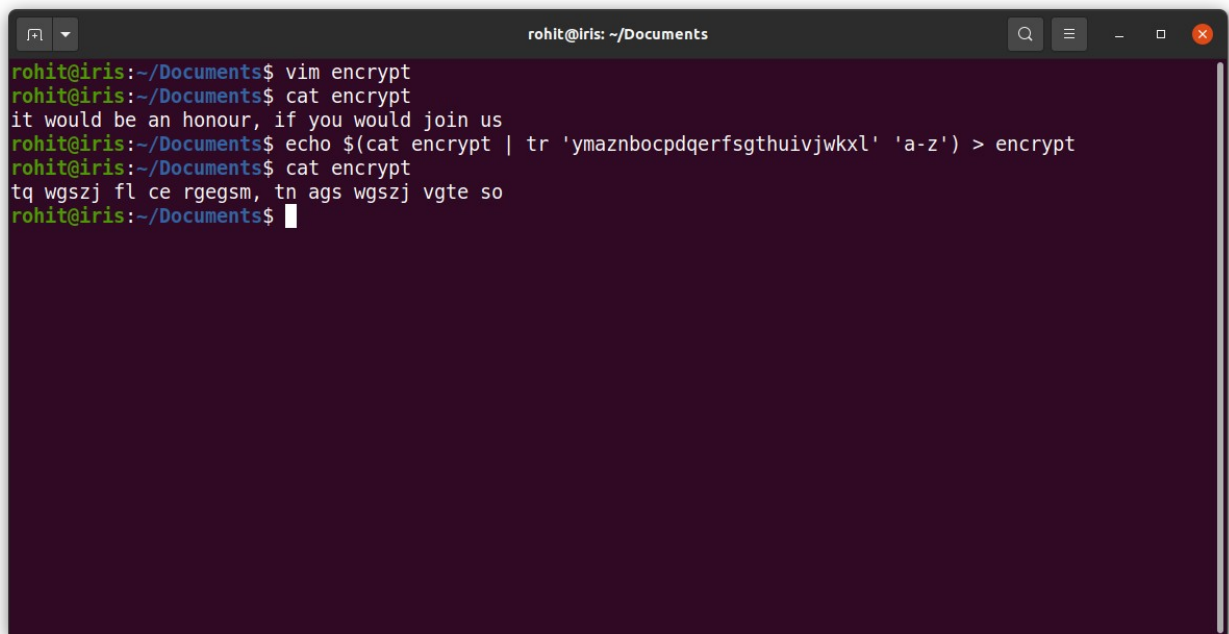
Send output of date command to already exist file



```
rohit@iris: ~/Documents
rohit@iris:~/Documents$ touch newFile.txt
rohit@iris:~/Documents$ ls
newFile.txt
rohit@iris:~/Documents$ echo $(date) >> newFile.txt
rohit@iris:~/Documents$ cat newFile.txt
Thursday 13 May 2021 08:49:49 AM IST
rohit@iris:~/Documents$
```

Exercise 2:

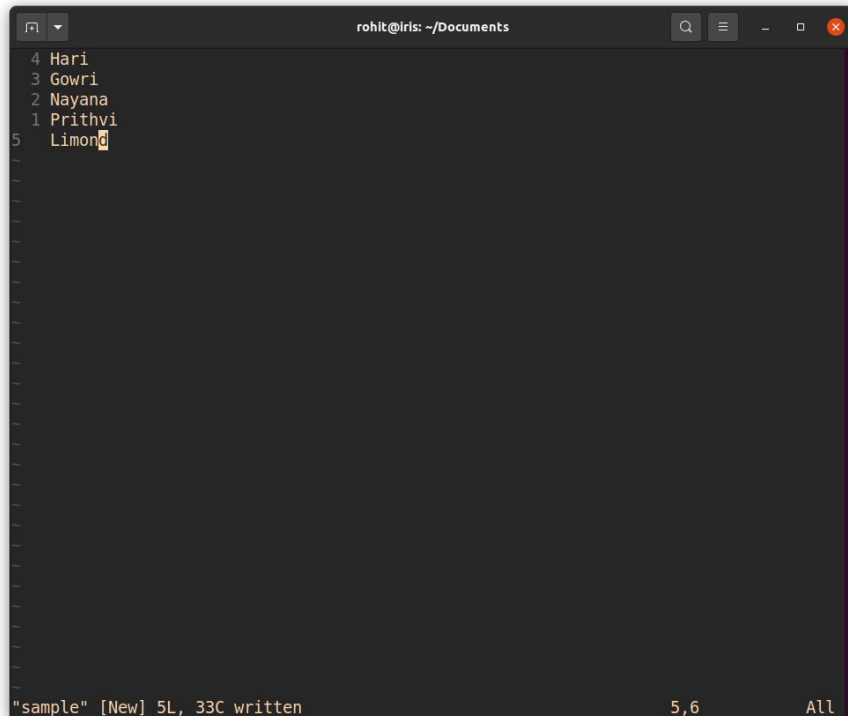
Encrypt the text in a file and display it

A terminal window titled "rohit@iris: ~/Documents" with standard window controls. The terminal shows a series of commands and their outputs. The user creates a file named "encrypt" using vim, then displays its contents. They then perform a Caesar cipher encryption using the command "echo \$(cat encrypt | tr 'ymaznbocpdqerfsgthuijwkl' 'a-z') > encrypt". Finally, they display the encrypted file's contents, which are a Caesar-shifted version of the original text.

```
rohit@iris:~/Documents$ vim encrypt
rohit@iris:~/Documents$ cat encrypt
it would be an honour, if you would join us
rohit@iris:~/Documents$ echo $(cat encrypt | tr 'ymaznbocpdqerfsgthuijwkl' 'a-z') > encrypt
rohit@iris:~/Documents$ cat encrypt
tq wgszj fl ce rgegsm, tn ags wgszj vgte so
rohit@iris:~/Documents$
```

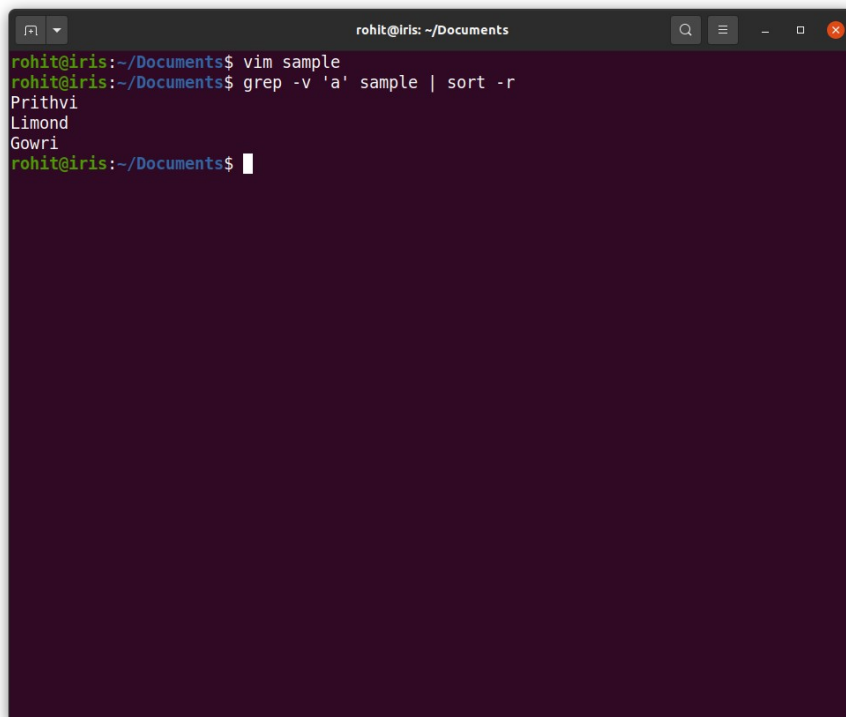
Exercise 3:

Create a file sample and give 5 names init. Display only the lines that does not contain the character 'a', but the result should be in reverse order.



```
rohith@iris: ~/Documents
4 Hari
3 Gowri
2 Nayana
1 Prithvi
5 Limon
```

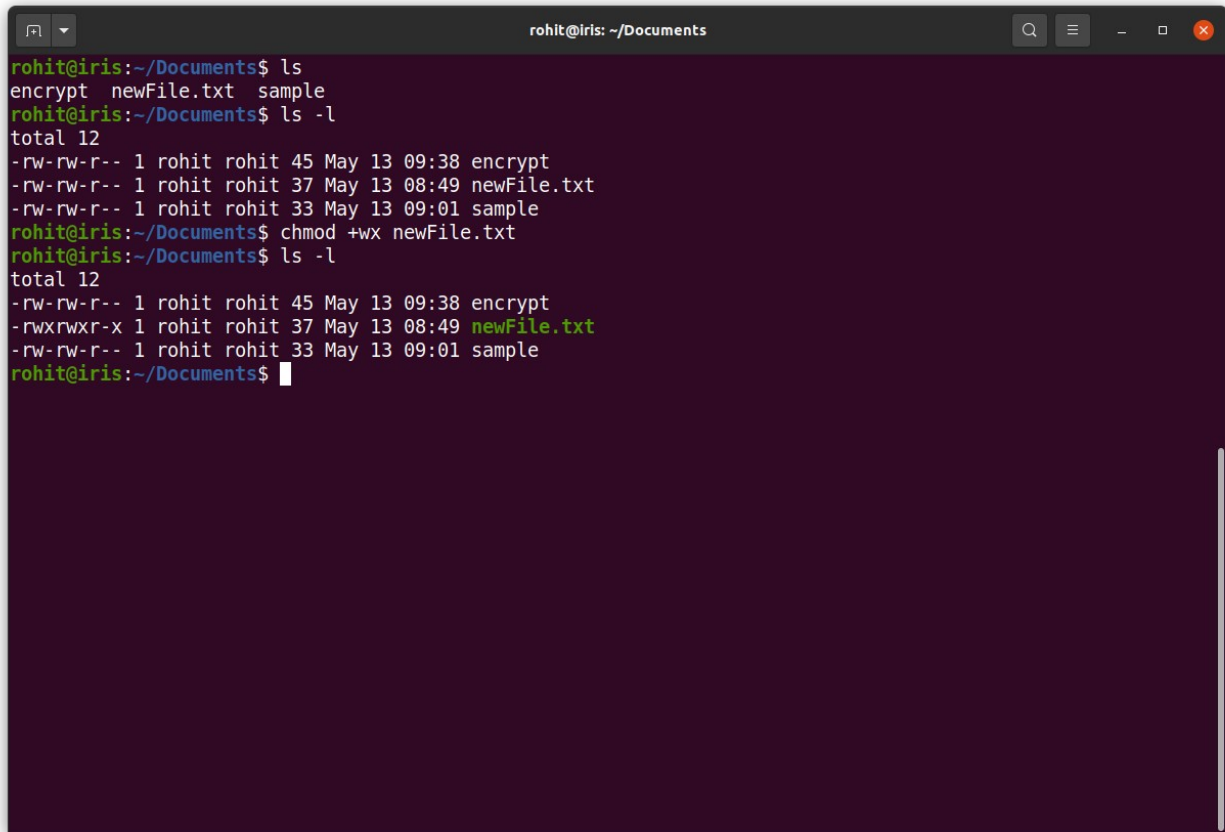
"sample" [New] 5L, 33C written 5,6 All



```
rohith@iris:~/Documents$ vim sample
rohith@iris:~/Documents$ grep -v 'a' sample | sort -r
Prithvi
Limon
Gowri
rohith@iris:~/Documents$
```

Exersie 4:

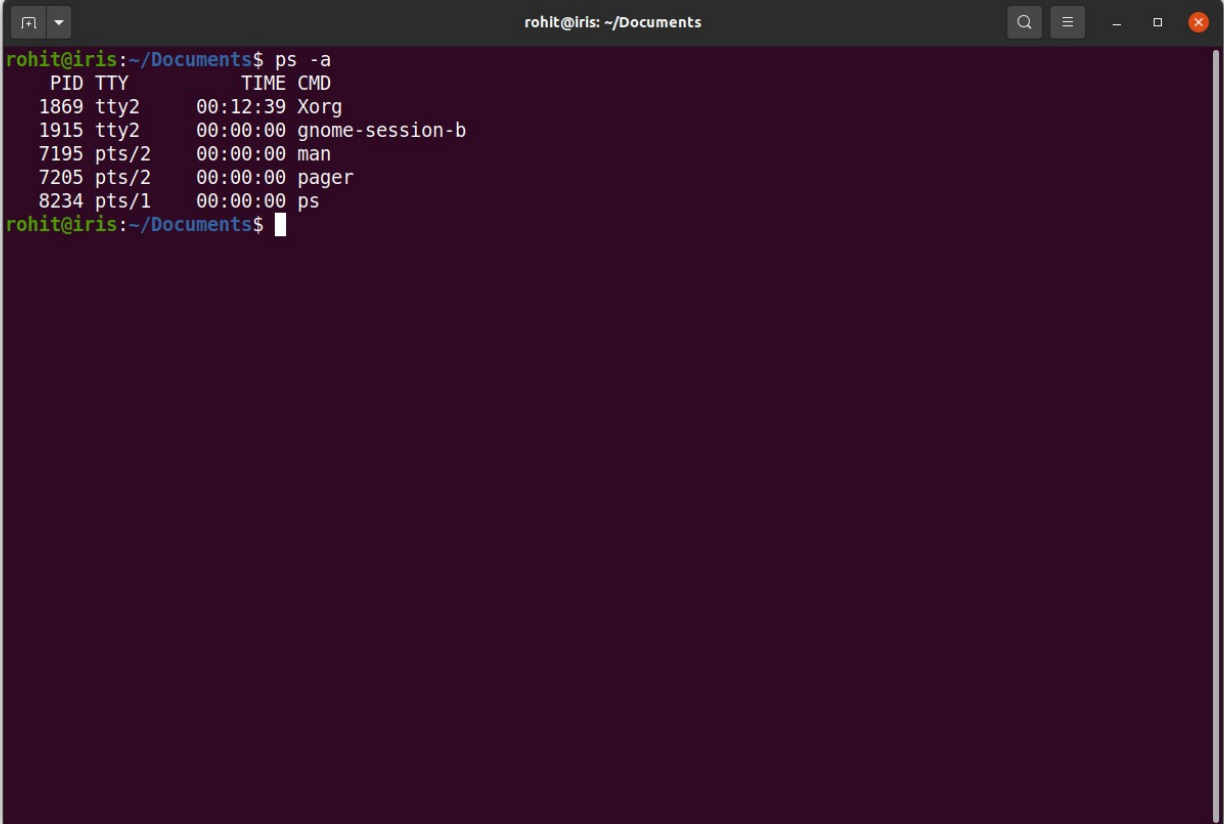
Write a command to give write and execute permission on a file

A terminal window titled "rohit@iris: ~/Documents" with standard window controls. The terminal shows a sequence of commands and their outputs. First, 'ls' lists three files: 'encrypt', 'newFile.txt', and 'sample'. Then, 'ls -l' shows their permissions as '-rw-rw-r--'. Next, 'chmod +wx newFile.txt' is executed. Finally, 'ls -l' is run again, showing that 'newFile.txt' now has permissions '-rwxrwxr-x'.

```
rohit@iris:~/Documents$ ls
encrypt newFile.txt sample
rohit@iris:~/Documents$ ls -l
total 12
-rw-rw-r-- 1 rohit rohit 45 May 13 09:38 encrypt
-rw-rw-r-- 1 rohit rohit 37 May 13 08:49 newFile.txt
-rw-rw-r-- 1 rohit rohit 33 May 13 09:01 sample
rohit@iris:~/Documents$ chmod +wx newFile.txt
rohit@iris:~/Documents$ ls -l
total 12
-rw-rw-r-- 1 rohit rohit 45 May 13 09:38 encrypt
-rwxrwxr-x 1 rohit rohit 37 May 13 08:49 newFile.txt
-rw-rw-r-- 1 rohit rohit 33 May 13 09:01 sample
rohit@iris:~/Documents$
```

Exercise 5:

Write a code to list all current running processes their corresponding pid



```
rohit@iris: ~/Documents
rohit@iris:~/Documents$ ps -a
  PID TTY          TIME CMD
 1869 tty2      00:12:39 Xorg
 1915 tty2      00:00:00 gnome-session-b
 7195 pts/2      00:00:00 man
 7205 pts/2      00:00:00 pager
 8234 pts/1      00:00:00 ps
rohit@iris:~/Documents$
```

The image shows a terminal window with a dark purple background. The window title is "rohit@iris: ~/Documents". The user has entered the command "ps -a", which lists the following processes:

PID	TTY	TIME	CMD
1869	tty2	00:12:39	Xorg
1915	tty2	00:00:00	gnome-session-b
7195	pts/2	00:00:00	man
7205	pts/2	00:00:00	pager
8234	pts/1	00:00:00	ps

The prompt "rohit@iris:~/Documents\$" is shown again at the bottom, indicating the command has been executed.