

# Linux Commands

- **Task 1:**
  - List all the contents in /etc directory and redirect those contents to a file called “file1.txt”.
  - List all the contents in /run directory and redirect those contents to a file called “file2.txt”.
- **Task 2:**
  - Combine the contents of file1.txt and file2.txt into another file called “unsorted.txt”.
  - Also reverse the combined contents of “file1.txt” and “file2.txt” output to another file called “reversed.txt”.



code

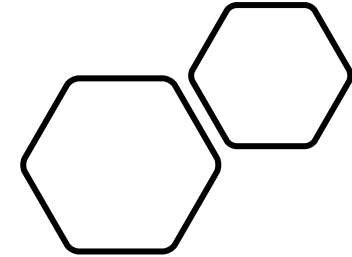
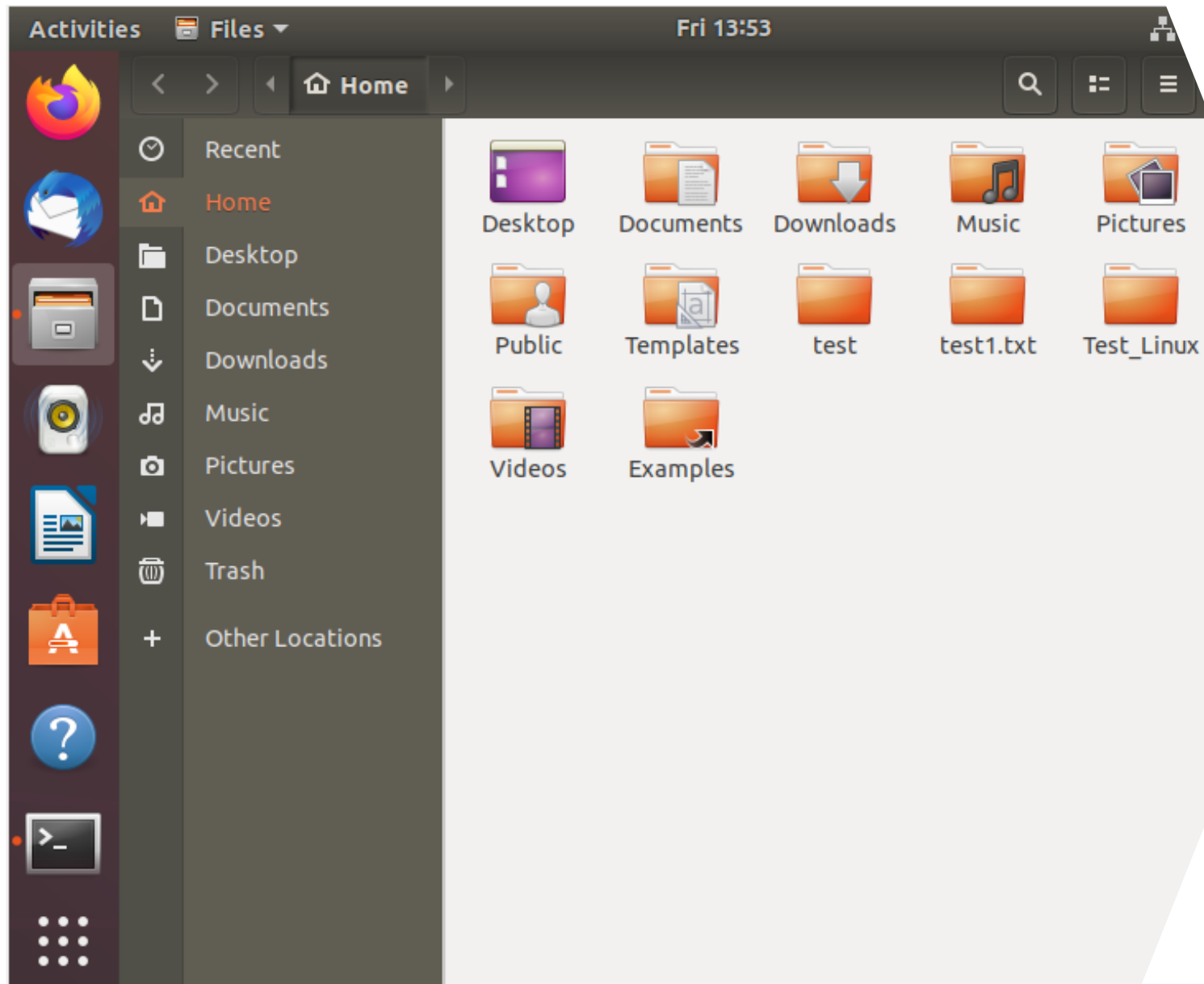
### Task 1:

- `ls -a /etc >file1.txt`
- `ls -a /run >file2.txt`

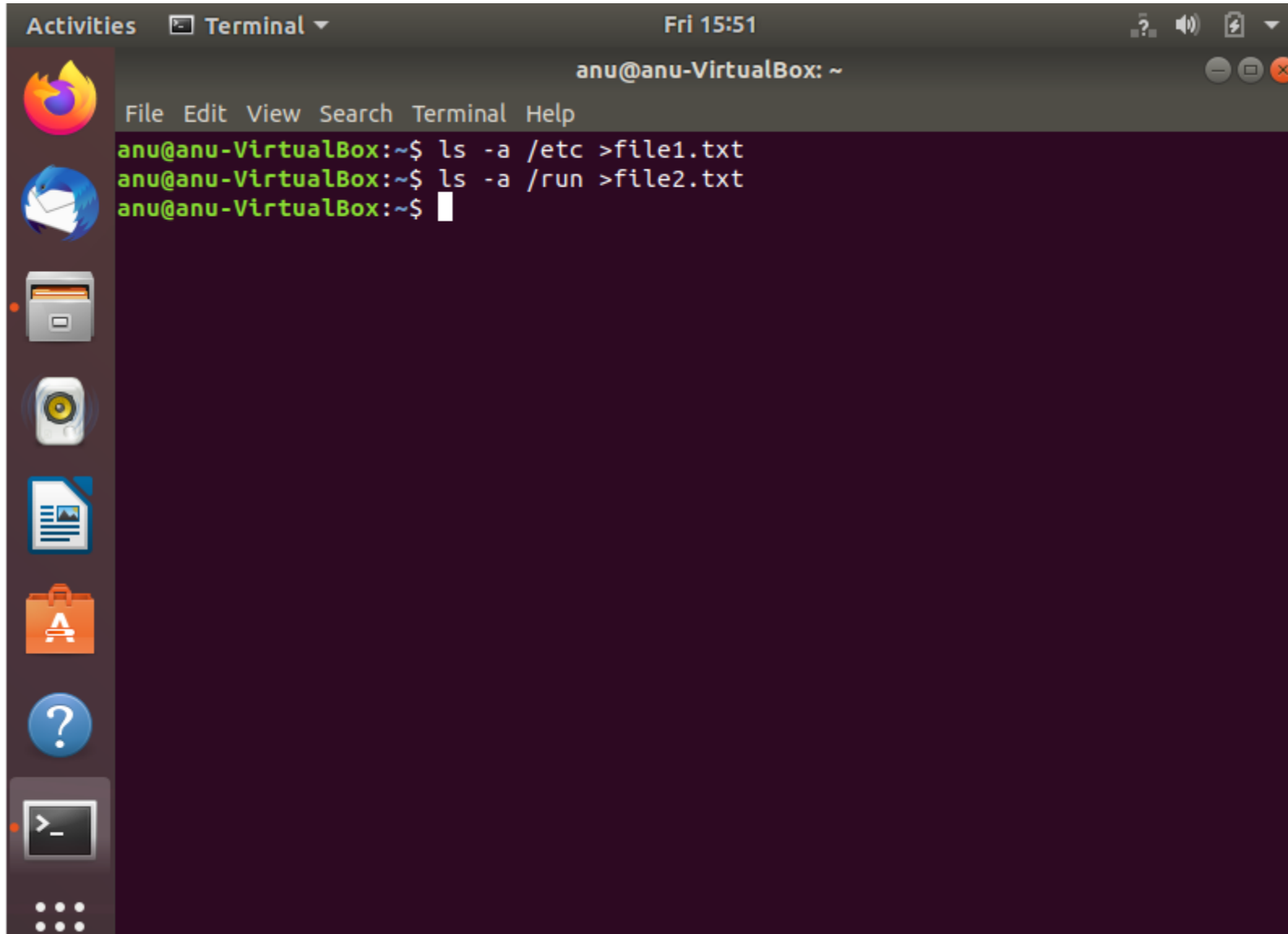
### Task 2:

- `cat file1.txt file2.txt | tee unsorted.txt |  
sort -r >reversed.txt`

# Home directory before executing the commands



Listing all the contents from directory and redirecting the output to file.

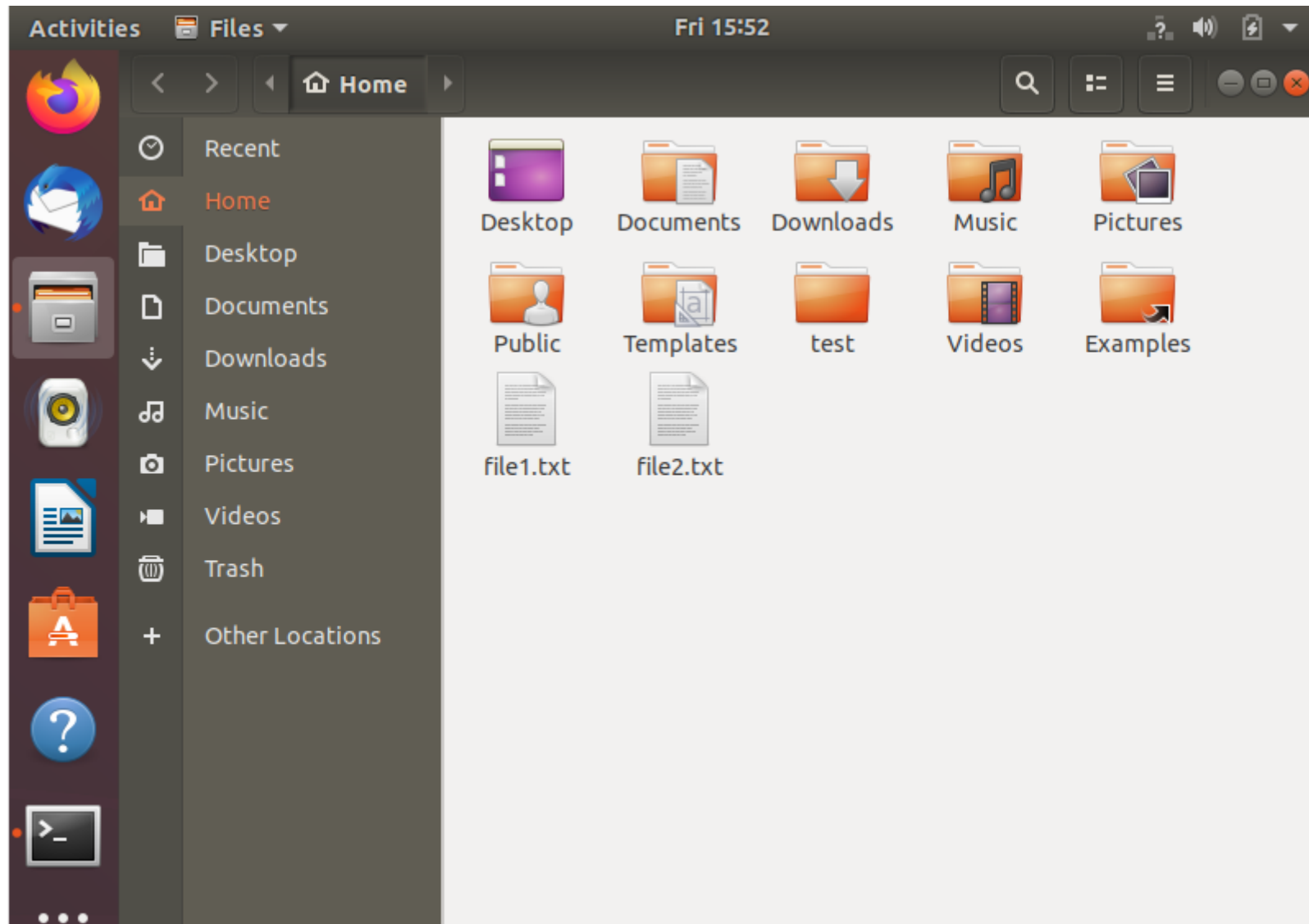


The image shows a terminal window titled "Terminal" with a dark background. The window has a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The prompt is "anu@anu-VirtualBox: ~". The terminal shows the following commands and their execution:

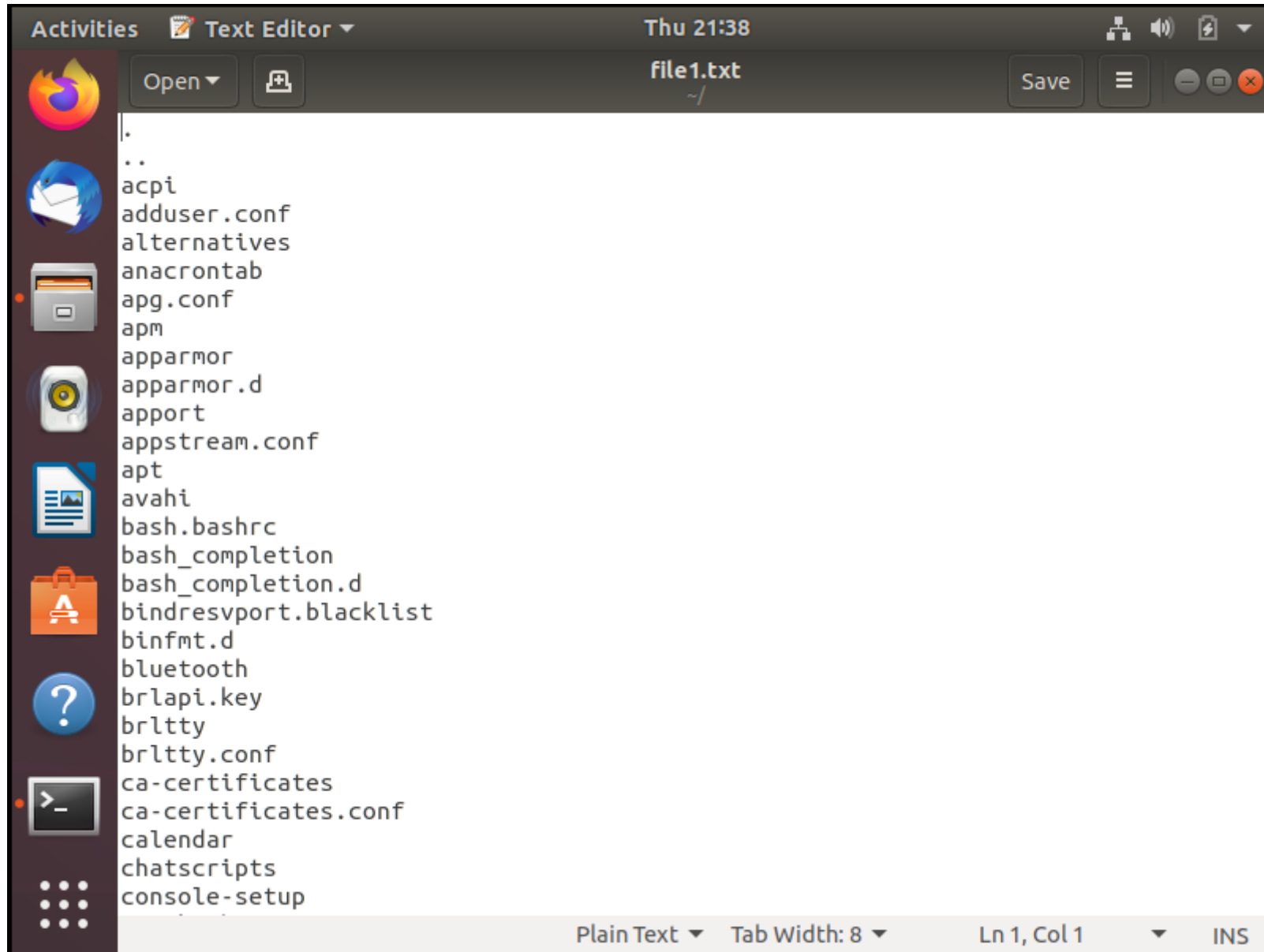
```
anu@anu-VirtualBox:~$ ls -a /etc >file1.txt
anu@anu-VirtualBox:~$ ls -a /run >file2.txt
anu@anu-VirtualBox:~$
```

The terminal window is part of a desktop environment with a sidebar on the left containing icons for Firefox, a mail client, a file manager, a music player, a document viewer, a shopping bag, a question mark, and a terminal icon. The top bar shows "Activities", "Terminal", and the time "Fri 15:51".

## Home Directory after executing the “ls-a” commands.



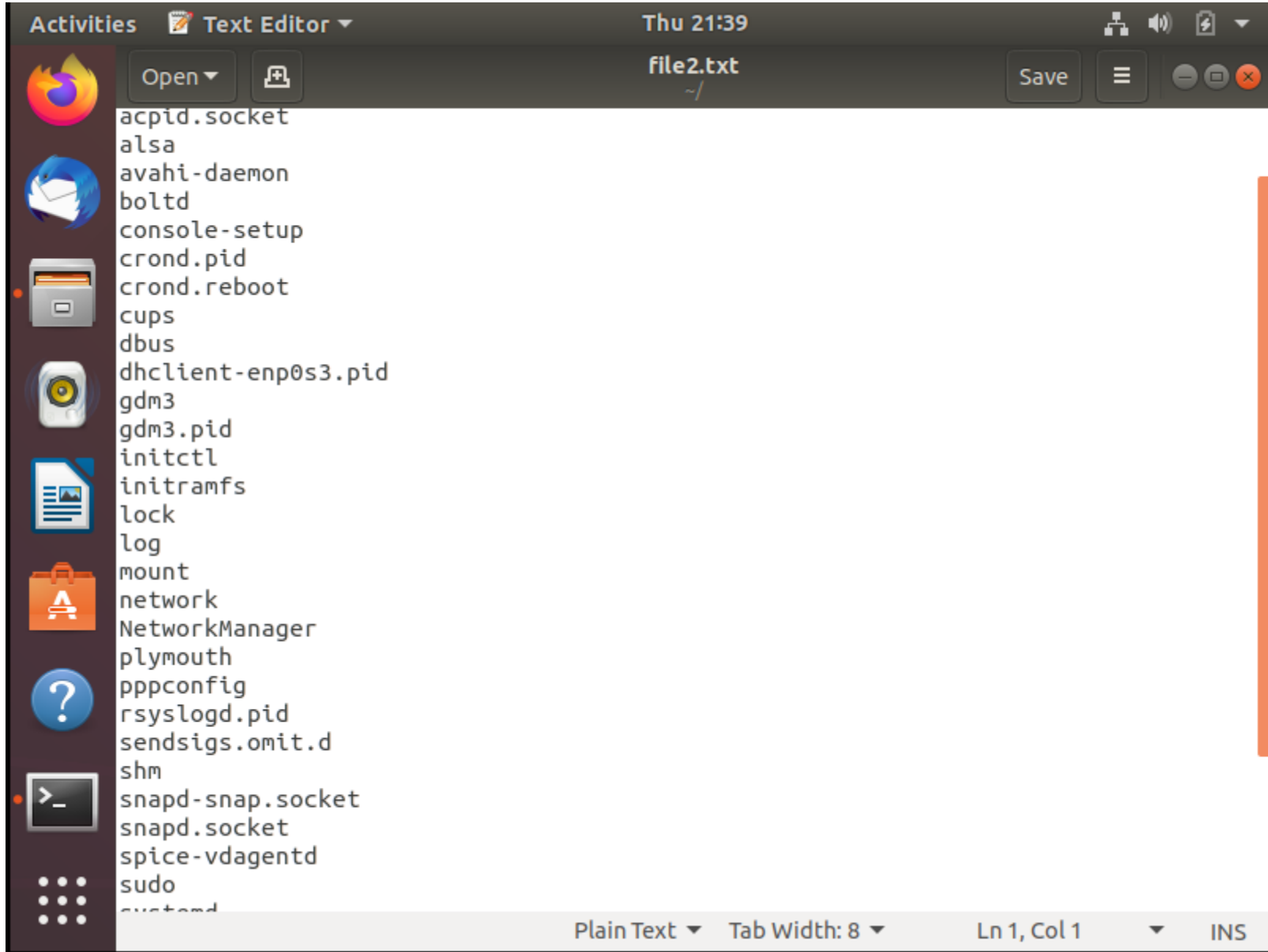
## Contents of “file1.txt” which have contents from “/etc” directory



The screenshot shows a Linux desktop environment with a text editor window titled "file1.txt" open. The window's title bar includes the text "Activities", "Text Editor", and the time "Thu 21:38". The editor's menu bar contains "Open", "Save", and a hamburger menu icon. The file's content is a list of files and directories from the /etc directory, starting with "." and ".." and ending with "console-setup". The status bar at the bottom indicates "Plain Text", "Tab Width: 8", "Ln 1, Col 1", and "INS".

```
.  
..  
acpi  
adduser.conf  
alternatives  
anacrontab  
apg.conf  
apm  
apparmor  
apparmor.d  
appport  
appstream.conf  
apt  
avahi  
bash.bashrc  
bash_completion  
bash_completion.d  
bindresvport.blacklist  
binfmt.d  
bluetooth  
brlapi.key  
brltty  
brltty.conf  
ca-certificates  
ca-certificates.conf  
calendar  
chatscripts  
console-setup
```

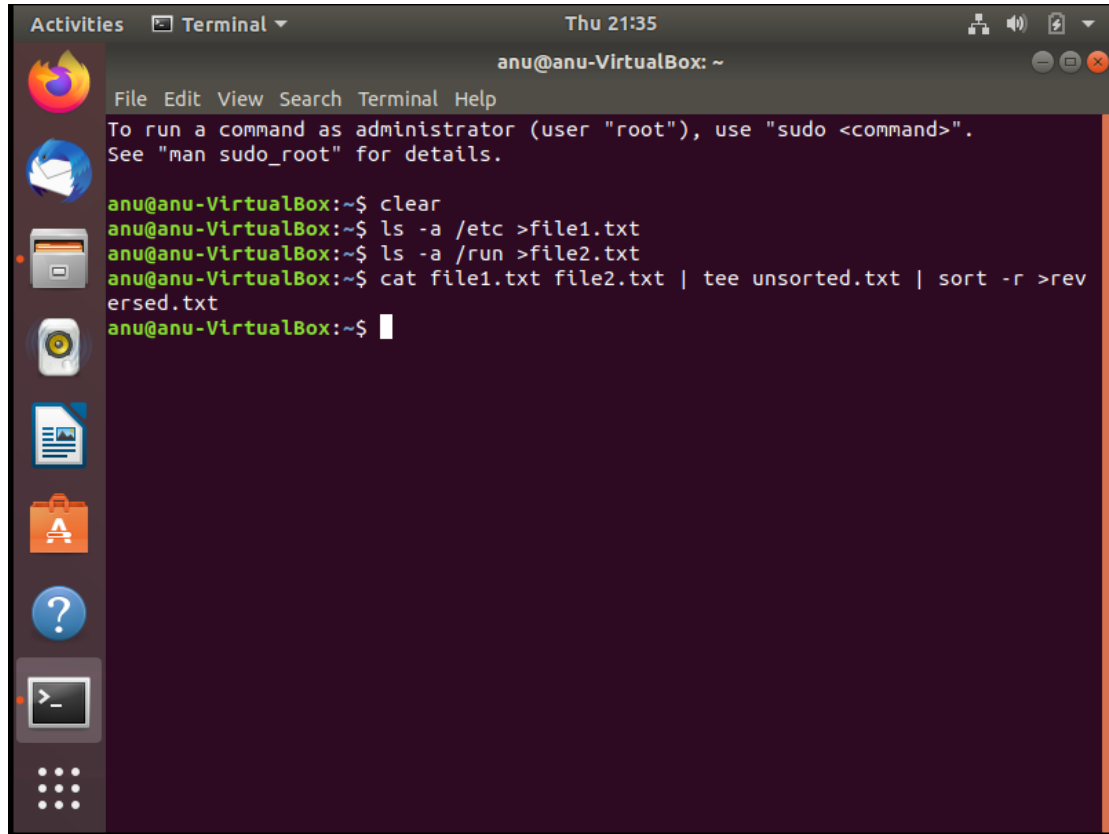
## Contents of “file2.txt” which have contents from “/run” directory



The screenshot shows a Linux desktop environment with a text editor window titled "file2.txt" open. The window's title bar includes the text "Activities", "Text Editor", and the time "Thu 21:39". The editor's menu bar shows "Open", a file icon, "file2.txt", and "Save". The main text area contains a list of files and directories from the /run directory, each preceded by a small icon from the desktop's application menu. The list includes: acpid.socket, alsa, avahi-daemon, boltd, console-setup, crond.pid, crond.reboot, cups, dbus, dhclient-enp0s3.pid, gdm3, gdm3.pid, initctl, initramfs, lock, log, mount, network, NetworkManager, plymouth, pppconfig, rsyslogd.pid, sendsigs.omit.d, shm, snapd-snap.socket, snapd.socket, spice-vdagentd, sudo, and systemd. The status bar at the bottom of the window shows "Plain Text", "Tab Width: 8", "Ln 1, Col 1", and "INS".

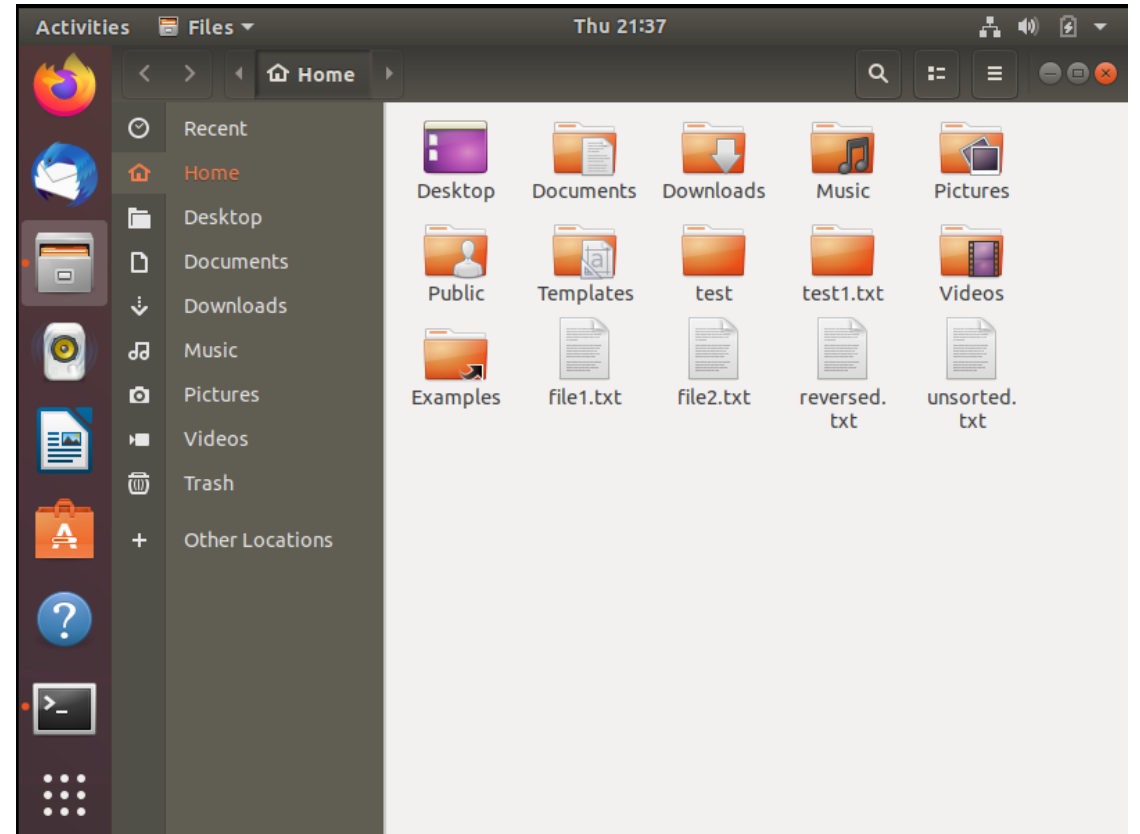
```
acpid.socket
alsa
avahi-daemon
boltd
console-setup
crond.pid
crond.reboot
cups
dbus
dhclient-enp0s3.pid
gdm3
gdm3.pid
initctl
initramfs
lock
log
mount
network
NetworkManager
plymouth
pppconfig
rsyslogd.pid
sendsigs.omit.d
shm
snapd-snap.socket
snapd.socket
spice-vdagentd
sudo
systemd
```

# Home directory after executing all the commands



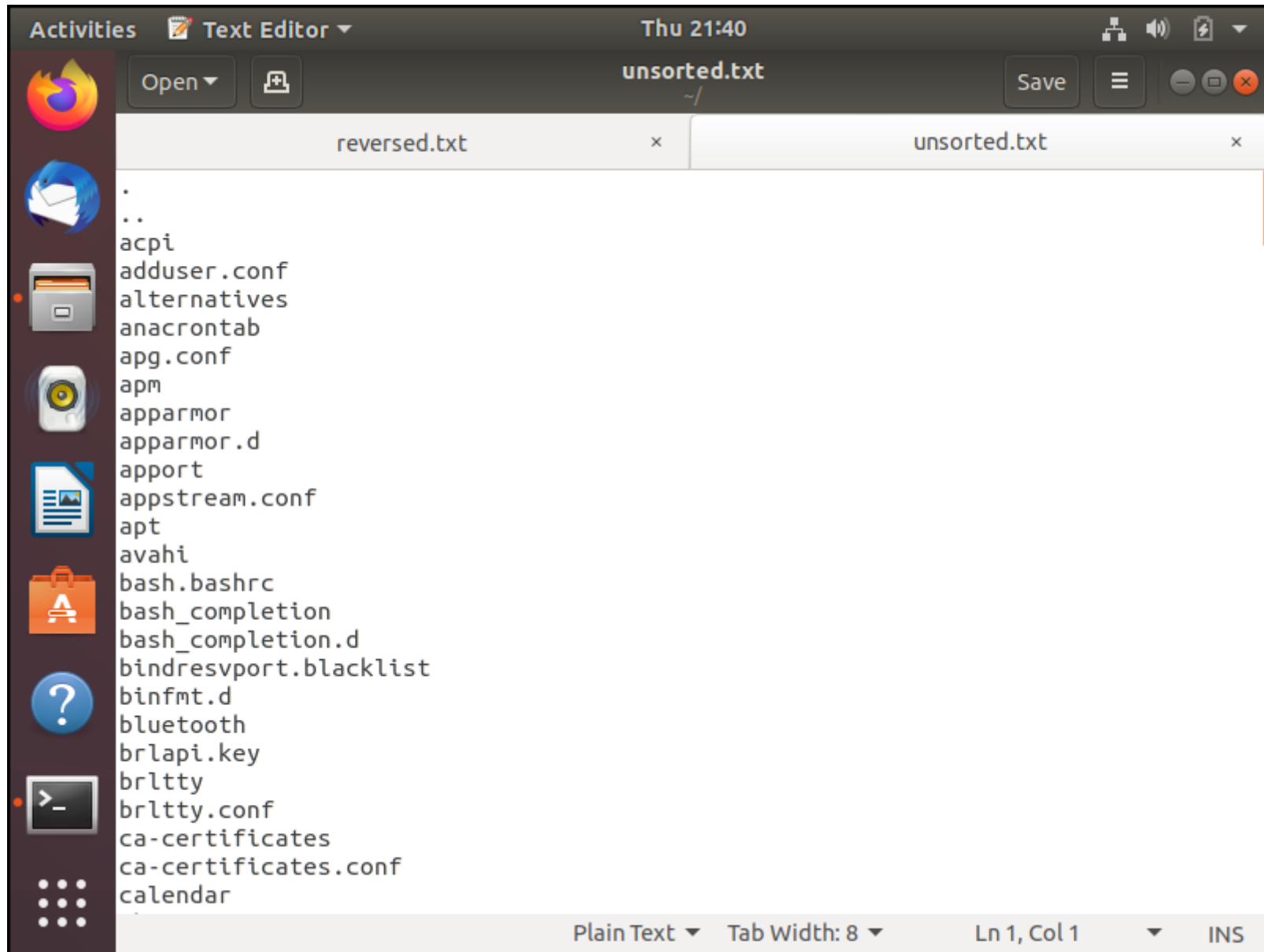
A terminal window titled 'Terminal' with a dark background. The prompt is 'anu@anu-VirtualBox: ~'. The window shows the execution of several commands: 'clear', 'ls -a /etc >file1.txt', 'ls -a /run >file2.txt', and 'cat file1.txt file2.txt | tee unsorted.txt | sort -r >reversed.txt'. The output of the last command is visible as 'erased.txt'.

```
anu@anu-VirtualBox:~$ clear
anu@anu-VirtualBox:~$ ls -a /etc >file1.txt
anu@anu-VirtualBox:~$ ls -a /run >file2.txt
anu@anu-VirtualBox:~$ cat file1.txt file2.txt | tee unsorted.txt | sort -r >reversed.txt
erased.txt
anu@anu-VirtualBox:~$
```





## Combined contents of file1 and file2



Activities Text Editor Thu 21:40

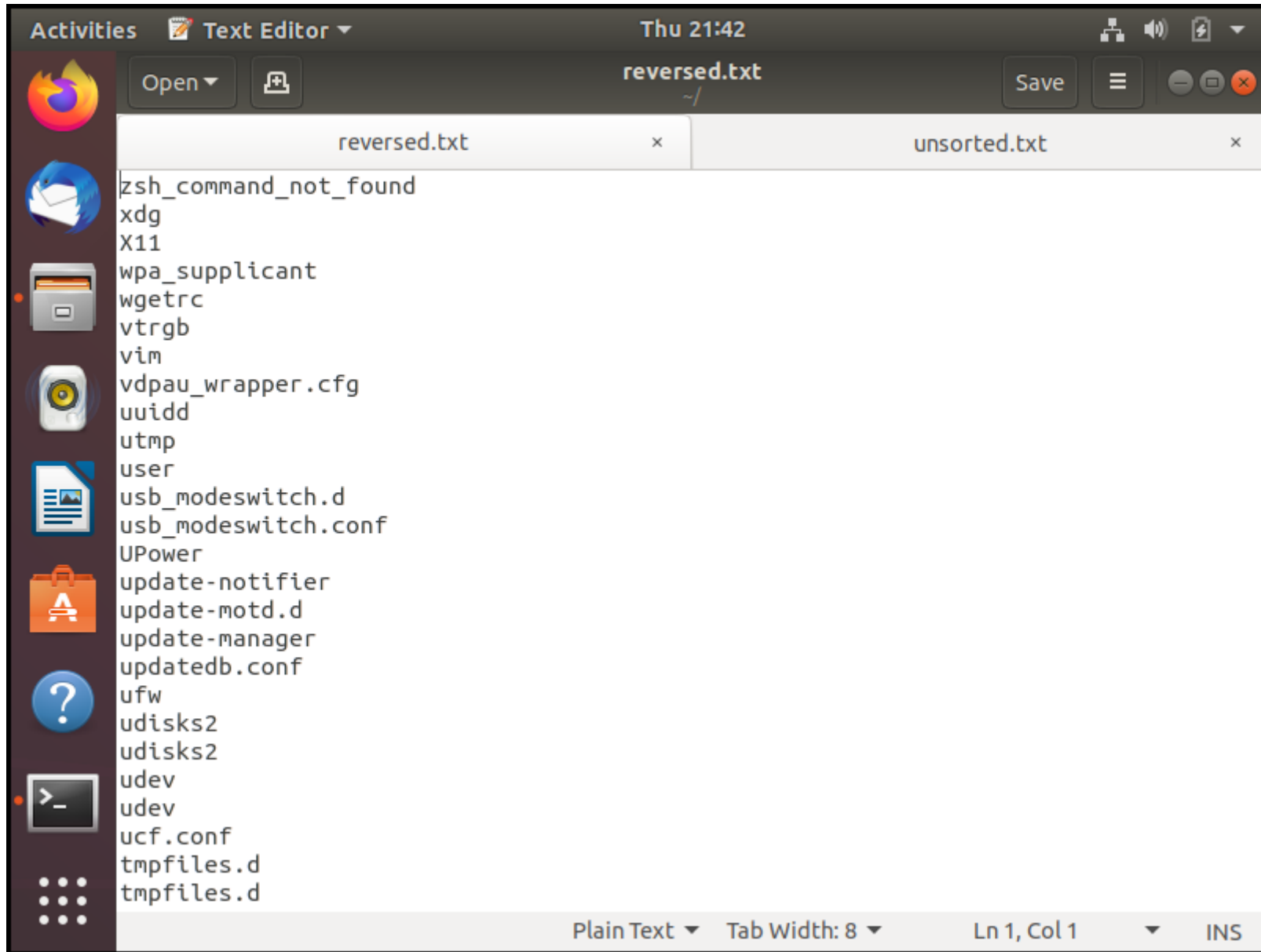
unsorted.txt

reversed.txt x unsorted.txt x

```
..  
..  
acpi  
adduser.conf  
alternatives  
anacrontab  
apg.conf  
apm  
apparmor  
apparmor.d  
apport  
appstream.conf  
apt  
avahi  
bash.bashrc  
bash_completion  
bash_completion.d  
bindresvport.blacklist  
binfmt.d  
bluetooth  
brlapi.key  
brltty  
brltty.conf  
ca-certificates  
ca-certificates.conf  
calendar
```

Plain Text Tab Width: 8 Ln 1, Col 1 INS

## Contents of “reversed.txt”



The screenshot shows a Linux desktop environment with a text editor window titled "Text Editor" open. The window displays the contents of a file named "reversed.txt". The file contains a list of system files and directories, including "zsh\_command\_not\_found", "xdg", "X11", "wpa\_supplicant", "wgetrc", "vtrgb", "vim", "vdpau\_wrapper.cfg", "uidd", "utmp", "user", "usb\_modeswitch.d", "usb\_modeswitch.conf", "UPower", "update-notifier", "update-motd.d", "update-manager", "updatedb.conf", "ufw", "udisks2", "udev", "ucf.conf", "tmpfiles.d", and "tmpfiles.d". The window also shows a sidebar with various application icons and a status bar at the bottom indicating the current line and column.

```
zsh_command_not_found
xdg
X11
wpa_supplicant
wgetrc
vtrgb
vim
vdpau_wrapper.cfg
uidd
utmp
user
usb_modeswitch.d
usb_modeswitch.conf
UPower
update-notifier
update-motd.d
update-manager
updatedb.conf
ufw
udisks2
udisks2
udev
udev
ucf.conf
tmpfiles.d
tmpfiles.d
```