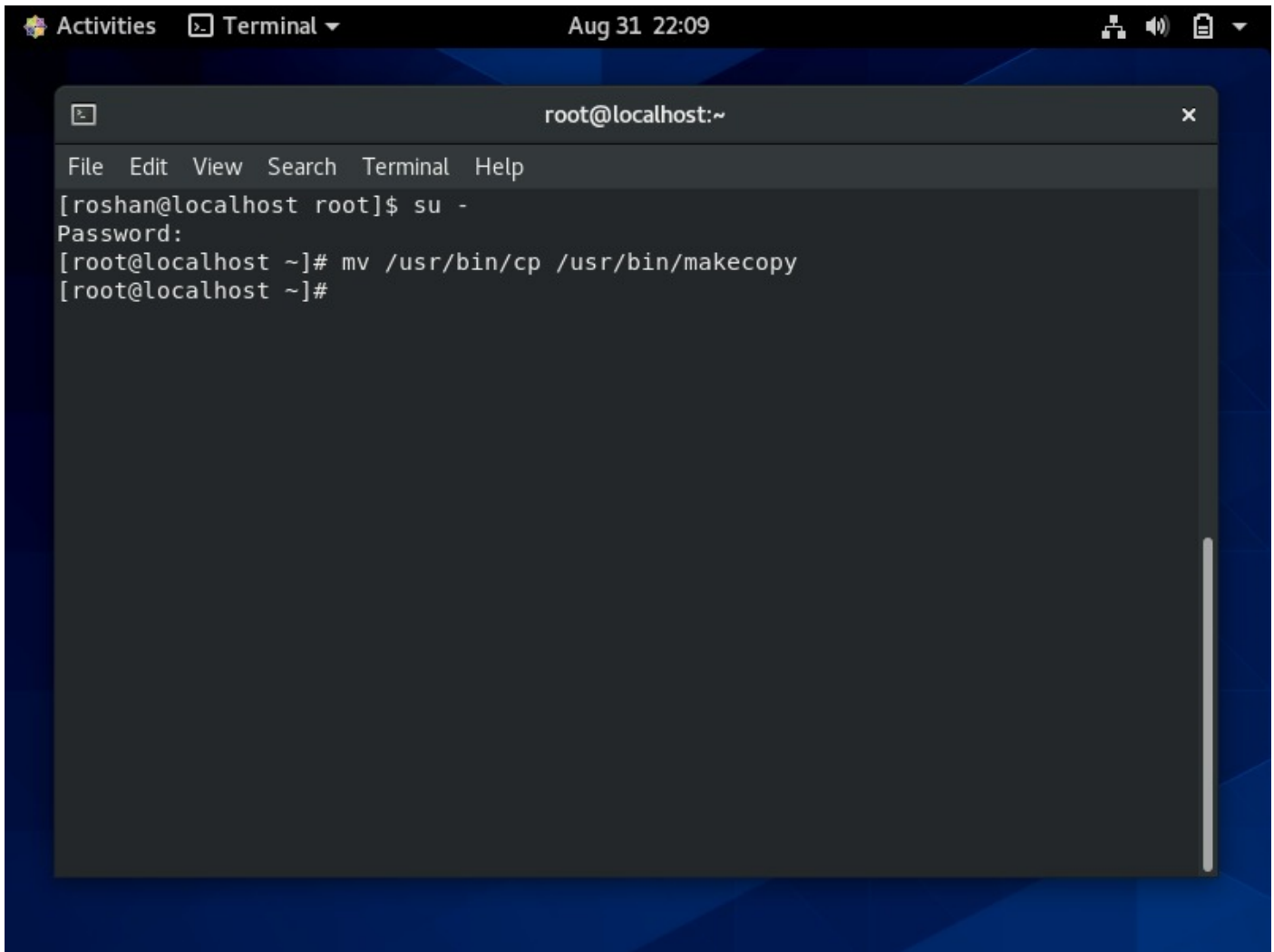


## ASSIGNMENT-2

Q1. type command `mv /usr/bin/cp /usr/bin/makecopy` and press enter.

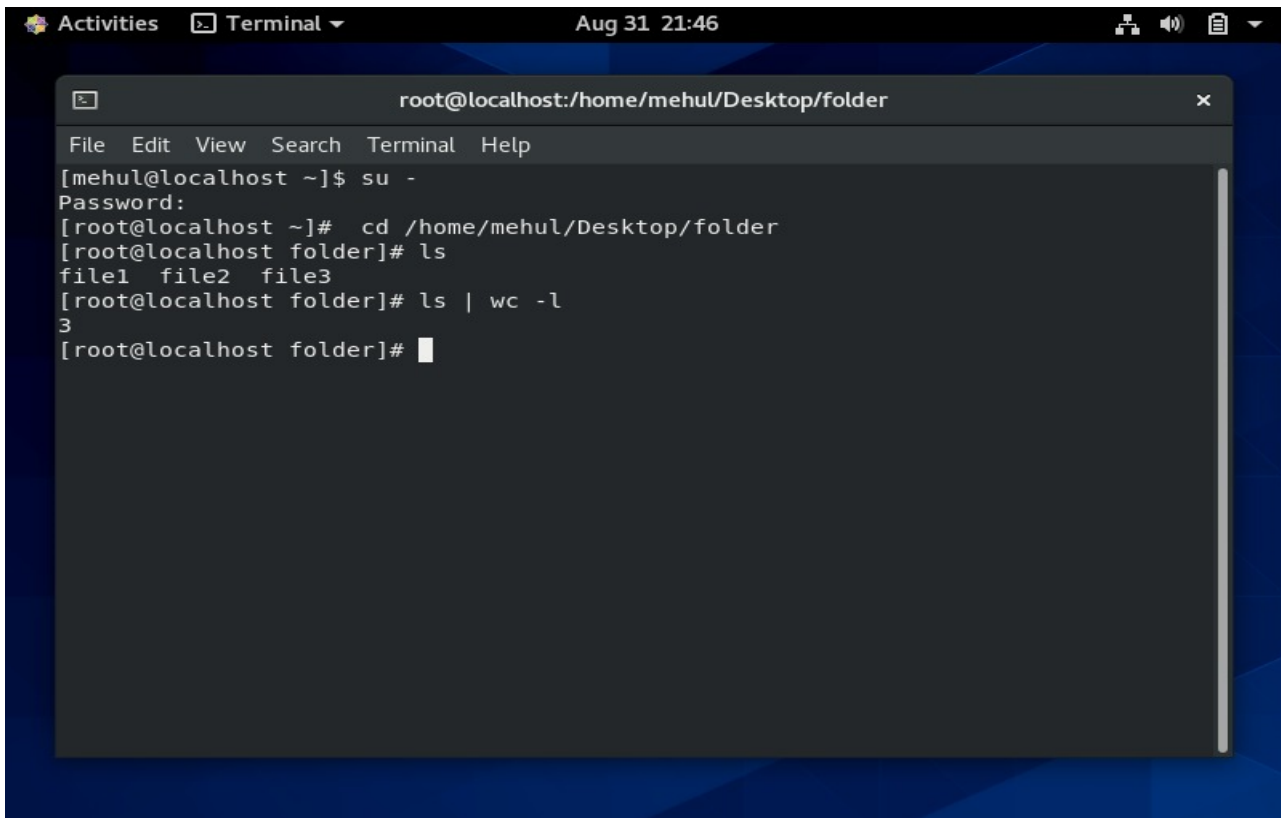


The screenshot shows a Linux desktop environment with a terminal window open. The terminal title bar reads "root@localhost:~". The terminal content shows the user "roshan" at "localhost" in the "root" shell. They enter the command "su -" to switch to the root user. After a password prompt, they enter the command "mv /usr/bin/cp /usr/bin/makecopy". The terminal shows the command was executed successfully, and the prompt changes from "\$" to "#".

```
root@localhost:~  
File Edit View Search Terminal Help  
[roshan@localhost root]$ su -  
Password:  
[root@localhost ~]# mv /usr/bin/cp /usr/bin/makecopy  
[root@localhost ~]#
```

Q2. A)

Type command : `ls / wc -l` (in directory where we want to count no of files)

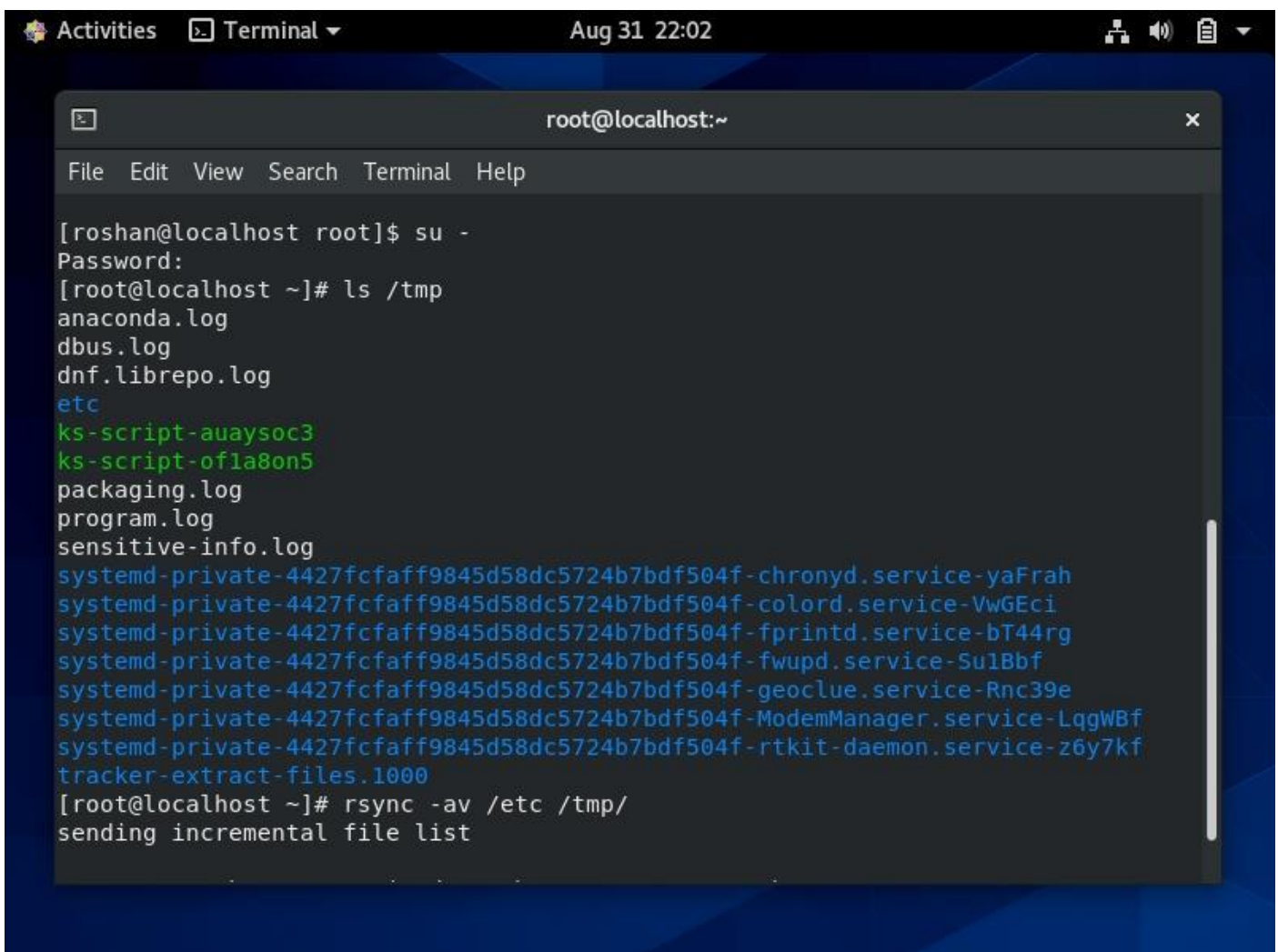


A terminal window titled "root@localhost:/home/mehul/Desktop/folder" is shown. The user "mehul" is at the prompt. They enter "su -" and provide a password. The prompt changes to root. The user then enters "cd /home/mehul/Desktop/folder" and "ls", which lists "file1", "file2", and "file3". Finally, they enter "ls | wc -l", which outputs "3".

```
root@localhost:/home/mehul/Desktop/folder
File Edit View Search Terminal Help
[mehul@localhost ~]$ su -
Password:
[root@localhost ~]# cd /home/mehul/Desktop/folder
[root@localhost folder]# ls
file1 file2 file3
[root@localhost folder]# ls | wc -l
3
[root@localhost folder]#
```

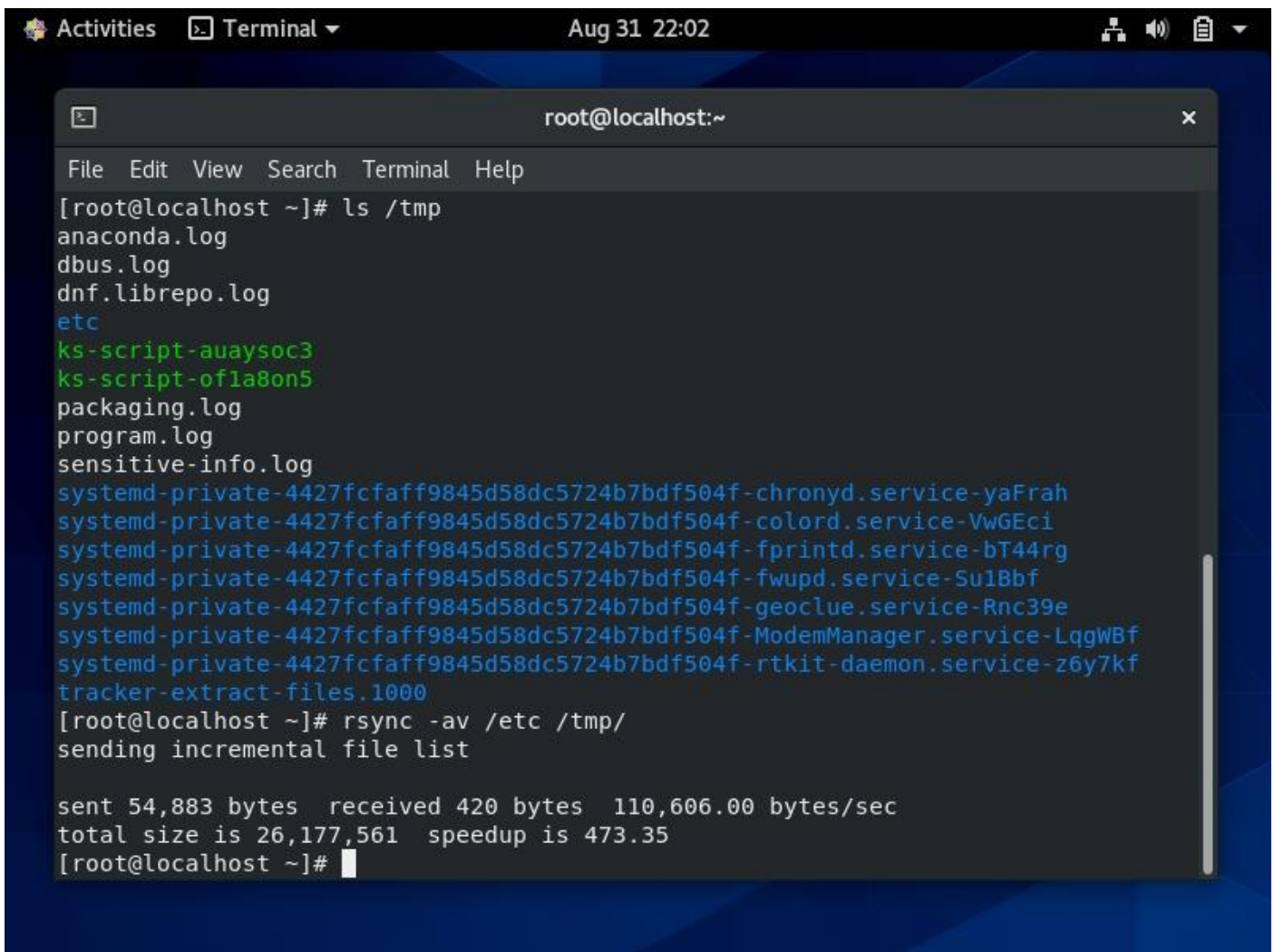
## Q2. B)

Type command `ls /tmp` and then `rsync -rv /etc /tmp/`



A terminal window titled "root@localhost:~" is shown. The user "roshan" is at the prompt. They enter "su -" and provide a password. The prompt changes to root. The user then enters "ls /tmp", which lists various files including "anaconda.log", "dbus.log", "dnf.librepo.log", "etc", "ks-script-auaysoc3", "ks-script-of1a8on5", "packaging.log", "program.log", "sensitive-info.log", and several systemd-private directories. Finally, they enter "rsync -av /etc /tmp/", which outputs "sending incremental file list".

```
root@localhost:~
File Edit View Search Terminal Help
[roshan@localhost root]$ su -
Password:
[root@localhost ~]# ls /tmp
anaconda.log
dbus.log
dnf.librepo.log
etc
ks-script-auaysoc3
ks-script-of1a8on5
packaging.log
program.log
sensitive-info.log
systemd-private-4427fcfaff9845d58dc5724b7bdf504f-chronyd.service-yaFrah
systemd-private-4427fcfaff9845d58dc5724b7bdf504f-colord.service-VwGEci
systemd-private-4427fcfaff9845d58dc5724b7bdf504f-fprintd.service-bT44rg
systemd-private-4427fcfaff9845d58dc5724b7bdf504f-fwupd.service-Su1Bbf
systemd-private-4427fcfaff9845d58dc5724b7bdf504f-geoclue.service-Rnc39e
systemd-private-4427fcfaff9845d58dc5724b7bdf504f-ModemManager.service-LqgWBf
systemd-private-4427fcfaff9845d58dc5724b7bdf504f-rtkit-daemon.service-z6y7kf
tracker-extract-files.1000
[root@localhost ~]# rsync -av /etc /tmp/
sending incremental file list
```

A screenshot of a Linux terminal window. The window title is 'root@localhost:~'. The terminal shows the execution of 'ls /tmp' which lists various log files and system service files. Then, 'rsync -av /etc /tmp/' is executed, showing the transfer of files from /etc to /tmp. The output of rsync shows the number of bytes sent and received, and the speedup factor.

```
File Edit View Search Terminal Help
[root@localhost ~]# ls /tmp
anaconda.log
dbus.log
dnf.librepo.log
etc
ks-script-auaysoc3
ks-script-ofla8on5
packaging.log
program.log
sensitive-info.log
systemd-private-4427fcfa99845d58dc5724b7bdf504f-chronyd.service-yaFrah
systemd-private-4427fcfa99845d58dc5724b7bdf504f-colord.service-VwGEci
systemd-private-4427fcfa99845d58dc5724b7bdf504f-fprintd.service-bT44rg
systemd-private-4427fcfa99845d58dc5724b7bdf504f-fwupd.service-Su1Bbf
systemd-private-4427fcfa99845d58dc5724b7bdf504f-geoclue.service-Rnc39e
systemd-private-4427fcfa99845d58dc5724b7bdf504f-ModemManager.service-LqgWBf
systemd-private-4427fcfa99845d58dc5724b7bdf504f-rtkit-daemon.service-z6y7kf
tracker-extract-files.1000
[root@localhost ~]# rsync -av /etc /tmp/
sending incremental file list

sent 54,883 bytes  received 420 bytes  110,606.00 bytes/sec
total size is 26,177,561  speedup is 473.35
[root@localhost ~]#
```

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