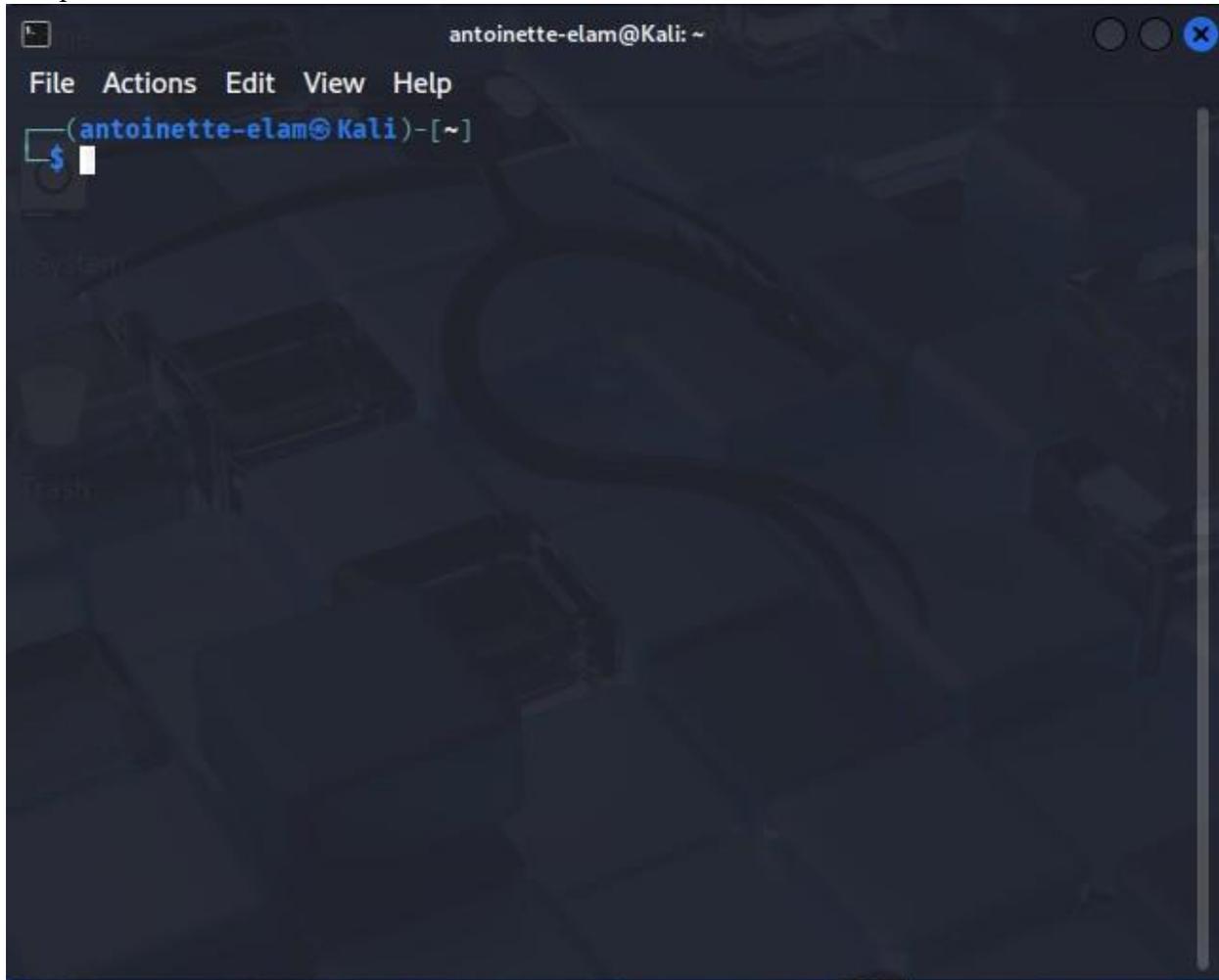


CYSE 270: Linux Systems for Cybersecurity

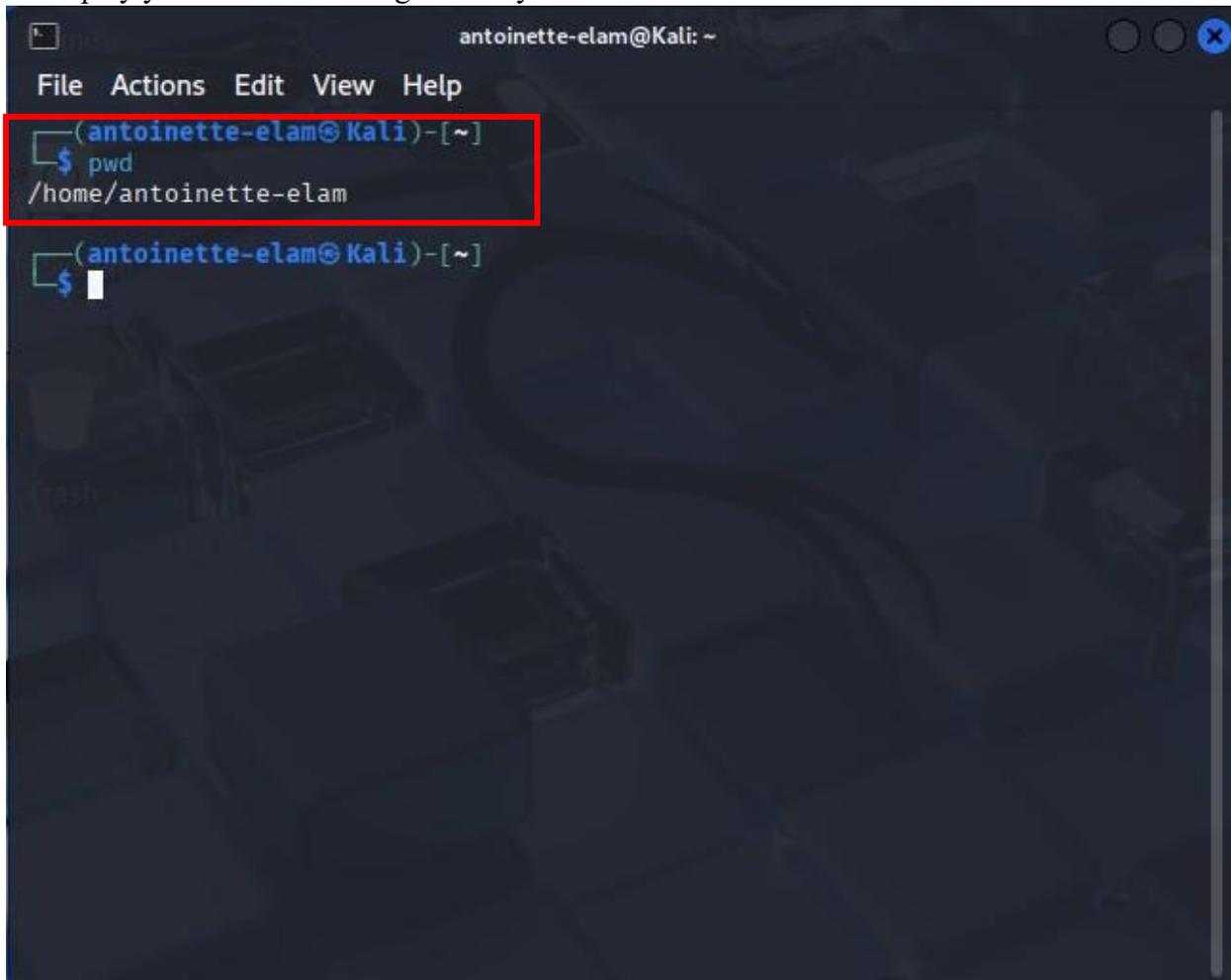
Assignment 2

Steps:

1. Open a terminal window.

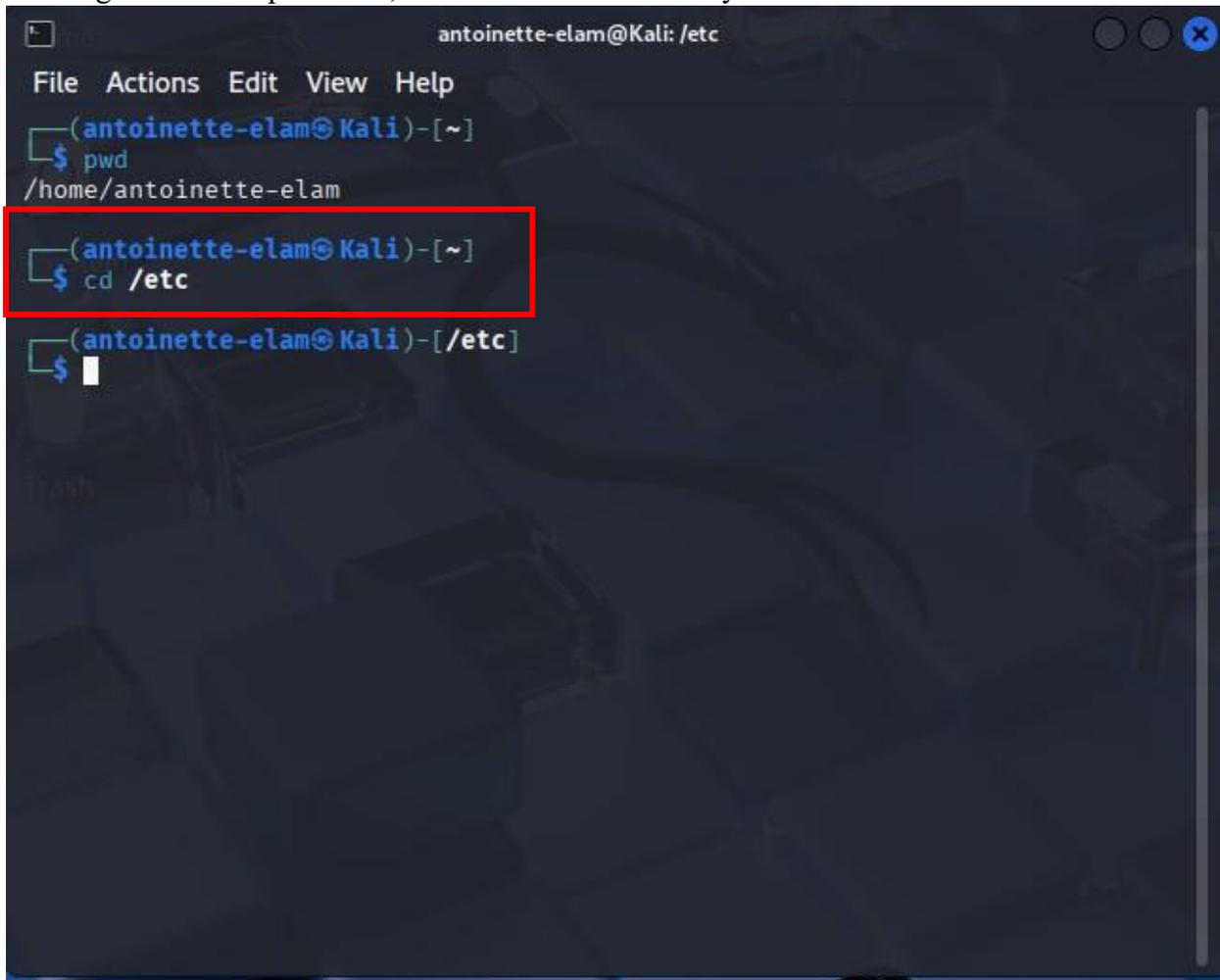


2. Display your current working directory.



```
antoINETTE-elam@Kali: ~  
File Actions Edit View Help  
(antoINETTE-elam@Kali)-[~]  
$ pwd  
/home/antoINETTE-elam  
  
(antoINETTE-elam@Kali)-[~]  
$
```

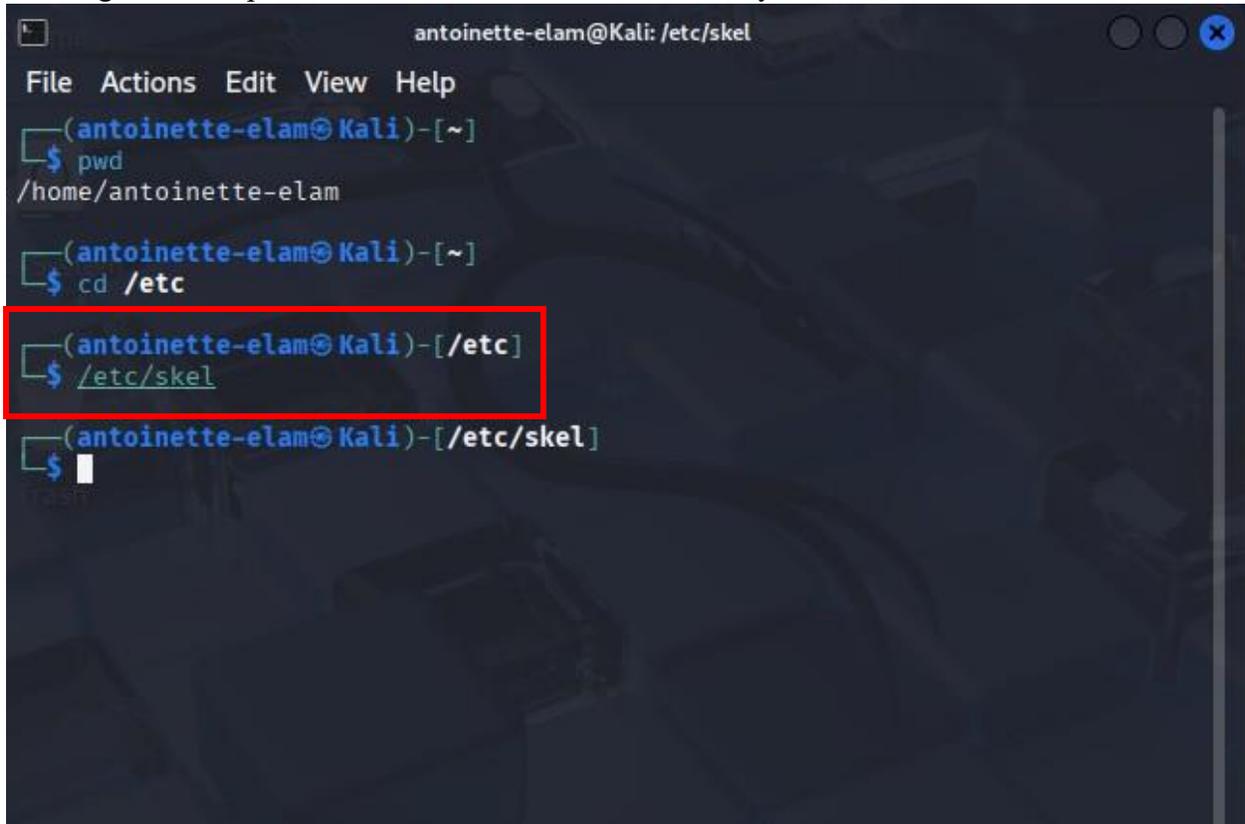
3. Using an absolute pathname, switch to the /etc directory.



```
antoinette-elam@Kali: /etc
File Actions Edit View Help
(antoinette-elam@Kali)-[~]
$ pwd
/home/antoinette-elam
(antoinette-elam@Kali)-[~]
$ cd /etc
(antoinette-elam@Kali)-[/etc]
$
```

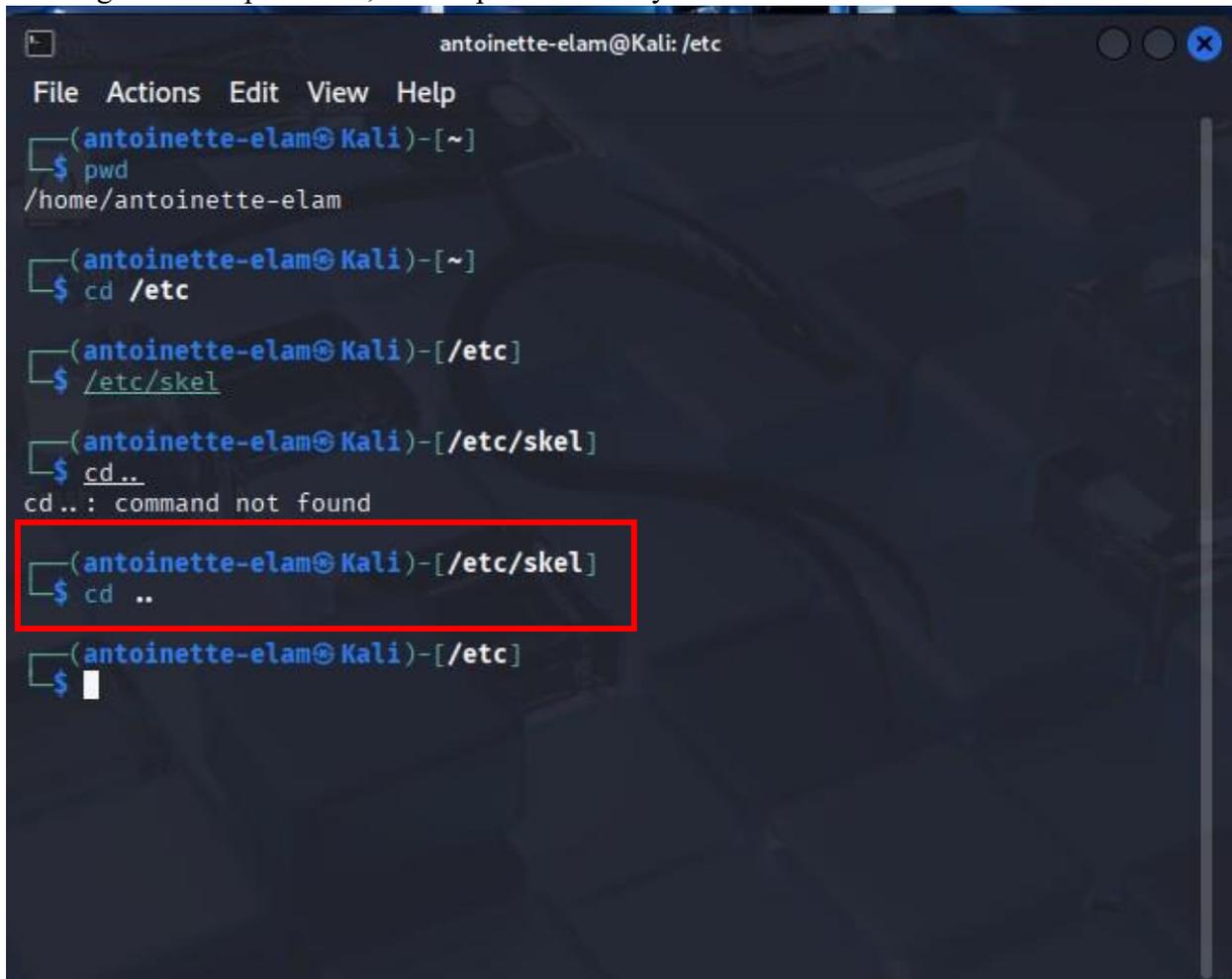
The image shows a terminal window with a dark background. At the top, the window title is "antoinette-elam@Kali: /etc". Below the title bar is a menu bar with "File", "Actions", "Edit", "View", and "Help". The terminal output shows the user's current directory as "/home/antoinette-elam" after running "pwd". The command "cd /etc" is entered and highlighted with a red box. The prompt then changes to "(antoinette-elam@Kali)-[/etc]", indicating the user has successfully navigated to the /etc directory.

4. Using a relative pathname, move to the /etc/skel directory.



```
antoinette-elam@Kali: /etc/skel
File Actions Edit View Help
(antoinette-elam@Kali)-[~]
$ pwd
/home/antoinette-elam
(antoinette-elam@Kali)-[~]
$ cd /etc
(antoinette-elam@Kali)-[/etc]
$ /etc/skel
(antoinette-elam@Kali)-[/etc/skel]
$
```

5. Using a relative pathname, move up one directory.



```
antoinette-elam@Kali: /etc
File Actions Edit View Help
(antoinette-elam@Kali)-[~]
$ pwd
/home/antoinette-elam
(antoinette-elam@Kali)-[~]
$ cd /etc
(antoinette-elam@Kali)-[/etc]
$ /etc/skel
(antoinette-elam@Kali)-[/etc/skel]
$ cd..
cd..: command not found
(antoinette-elam@Kali)-[/etc/skel]
$ cd ..
(antoinette-elam@Kali)-[/etc]
$
```

6. List the files in the current directory.

```
antoinette-elam@Kali: /etc
File Actions Edit View Help
└─$ cd ..

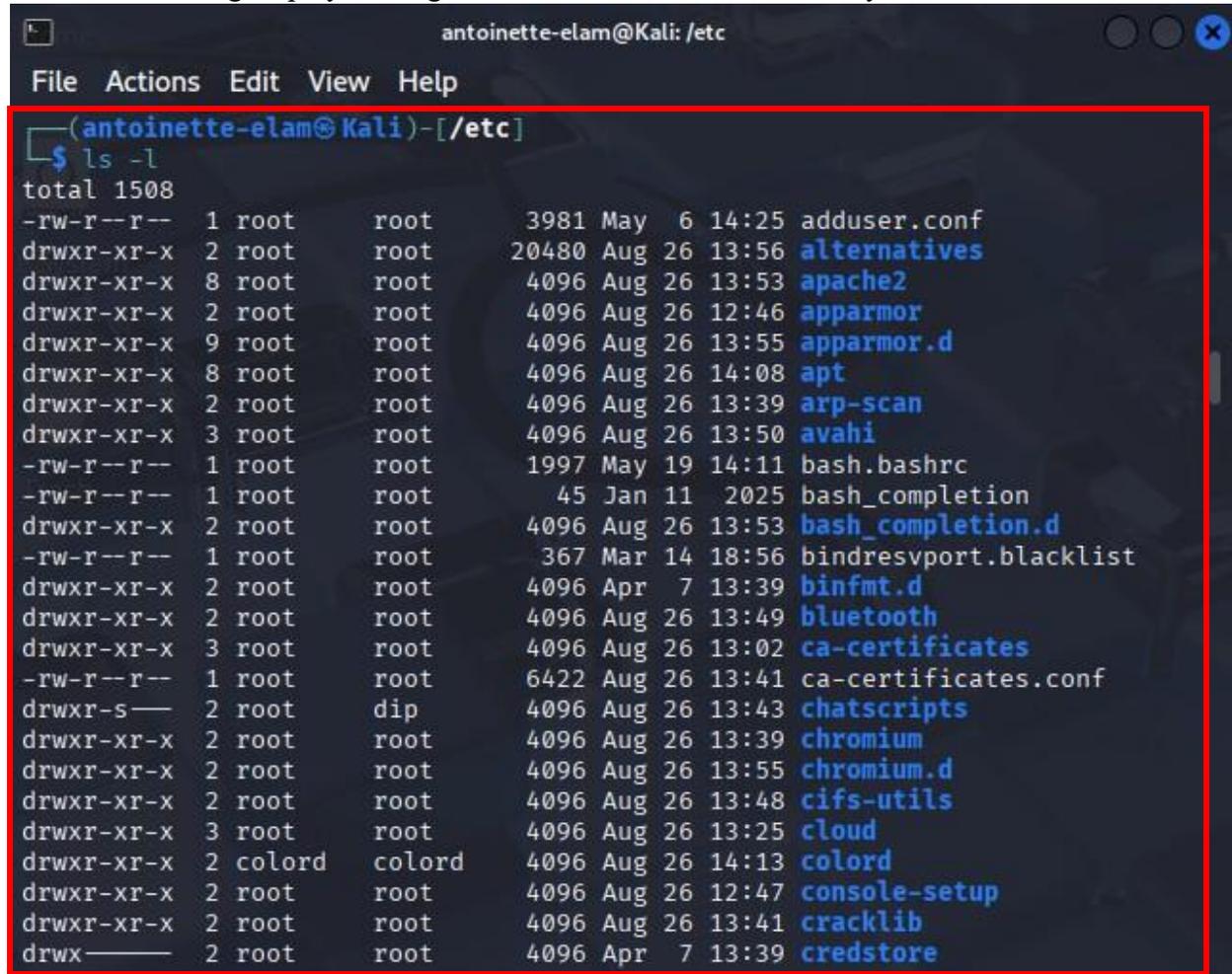
(antoinette-elam@Kali)-[~/etc]
└─$ ls
adduser.conf          ipsec.conf          python3.13
alternatives         ipsec.d             radcli
apache2              ipsec.secrets      rc0.d
apparmor             issue              rc1.d
apparmor.d           issue.net          rc2.d
apt                  java-21-openjdk    rc3.d
arp-scan             john               rc4.d
avahi                kali-menu          rc5.d
bash.bashrc          kernel             rc6.d
bash_completion     kernel-img.conf    rcS.d
bash_completion.d   keyutils           reader.conf.d
bindresvport.blacklist kismet            rearj.cfg
binfmt.d             ldap               redis
bluetooth           ld.so.cache        redsocks.conf
ca-certificates     ld.so.conf         request-key.conf
ca-certificates.conf ld.so.conf.d       request-key.d
chatscripts         legion.conf        resolv.conf
chromium            libao.conf         responder
chromium.d          libaudit.conf      rmt
cifs-utils          libblockdev        rpc
cloud               libccid_Info.plist runit
colord              libnl-3            samba
console-setup       libpaper.d         sane.d
cracklib            lightdm            scalpel
```

```
antoinette-elam@Kali: /etc
File Actions Edit View Help
credstore
credstore.encrypted
cron.d
cron.daily
cron.hourly
cron.monthly
crontab
cron.weekly
cron.yearly
cryptsetup-initramfs
cryptsetup-ntfs
cryptsetup-ntfs-passwd
crypttab
cupsfilters
dbus-1
dconf
debconf.conf
debian_version
default
deluser.conf
depmod.d
dhcp
dhcpd.conf
dictionaries-common
dns2tcpd.conf
doc-base
dpkg
e2scrub.conf
eac
lighttpd
locale.alias
locale.conf
locale.gen
localtime
logcheck
login.defs
logrotate.conf
logrotate.d
macchanger
machine-id
magic
magic.mime
manpath.config
matplotlibrc
mime.types
minicom
miredo
miredo.conf
mke2fs.conf
ModemManager
modprobe.d
modules
modules-load.d
mosquitto
motd
mtab
mysql
screenrc
sddm.conf.d
searchsploit_rc
security
selinux
sensors3.conf
sensors.d
services
sgml
shadow
shadow-
shells
skel
smartd.conf
smartmontools
smi.conf
snmp
speech-dispatcher
sqlmap
ssh
ssl
sslsplit
strongswan.conf
strongswan.d
stunnel
subgid
subgid-
subuid
```

```
antoinette-elam@Kali: /etc
File Actions Edit View Help
emacs
environment
environment.d
ethertypes
ettercap
firebird
firefox-esr
fonts
freetds
fstab
fuse.conf
gai.conf
geoclue
ghostscript
glvnd
gnome-system-tools
gophish
gprofng.rc
groff
group
group-
grub.d
gshadow
gshadow-
gss
gtk-2.0
gtk-3.0
guymager
nanorc
netconfig
netsniff-ng
network
NetworkManager
networks
nfs.conf
nfs.conf.d
nftables.conf
nginx
nikto.conf
nsisconf.nsh
nsswitch.conf
ODBCDataSources
odbc.ini
odbcinst.ini
openal
OpenCL
openni2
opencs
openvas
openvpn
opt
os-release
pam.conf
pam.d
paperspecs
passwd
subuid-
subversion
sudo.conf
sudoers
sudoers.d
sudo_logsrvd.conf
supercat
sv
sysctl.d
sysstat
systemd
terminfo
texmf
theHarvester
tightvncserver.conf
timidity
tmpfiles.d
ts.conf
ucf.conf
udev
udisks2
ufw
unicornsca
updatedb.conf
update-motd.d
UPower
usb_modeswitch.conf
usb_modeswitch.d
```

```
antoinette-elam@Kali: /etc
File Actions Edit View Help
gophish
gprofng.rc
groff
group
group-
grub.d
gshadow
gshadow-
gss
gtk-2.0
gtk-3.0
guymager
gvm
hdparm.conf
host.conf
hostname
hosts
hosts.allow
hosts.deny
idmapd.conf
ifplugd
ImageMagick-7
inetsim
init.d
initramfs-tools
inputrc
insserv.conf.d
ipp-usb
openal
OpenCL
openni2
opencs
openvas
openvpn
opt
os-release
pam.conf
pam.d
paperspecs
passwd
passwd-
perl
php
plymouth
polkit-1
postgresql
postgresql-common
powershell-empire
ppp
profile
profile.d
protocols
proxchains4.conf
pulse
python2.7
python3
tmpfiles.d
ts.conf
ucf.conf
udev
udisks2
ufw
unicornscan
updatedb.conf
update-motd.d
UPower
usb_modeswitch.conf
usb_modeswitch.d
vconsole.conf
vdpau_wrapper.cfg
vim
vpnc
vulkan
wgetrc
wireshark
wpa_supplicant
X11
xattr.conf
xdg
xfce4
xml
xrdp
zsh
zsh_command_not_found
```

7. Perform a “long display” listing of the files in the current directory.



The image shows a terminal window titled "antoINETte-elam@Kali: /etc". The window has a menu bar with "File", "Actions", "Edit", "View", and "Help". The terminal prompt is "(antoINETte-elam@Kali)-[/etc]". The user has entered the command "ls -l". The output is a long display listing of files in the /etc directory, showing permissions, owner, group, size, date, and filename. The files listed are: adduser.conf, alternatives, apache2, apparmor, apparmor.d, apt, arp-scan, avahi, bash.bashrc, bash_completion, bash_completion.d, bindresvport.blacklist, binfmt.d, bluetooth, ca-certificates, ca-certificates.conf, chatscripts, chromium, chromium.d, cifs-utils, cloud, colord, colord, console-setup, cracklib, and credstore.

```
antoINETte-elam@Kali: /etc
File Actions Edit View Help
(antoINETte-elam@Kali)-[/etc]
$ ls -l
total 1508
-rw-r--r-- 1 root root 3981 May 6 14:25 adduser.conf
drwxr-xr-x 2 root root 20480 Aug 26 13:56 alternatives
drwxr-xr-x 8 root root 4096 Aug 26 13:53 apache2
drwxr-xr-x 2 root root 4096 Aug 26 12:46 apparmor
drwxr-xr-x 9 root root 4096 Aug 26 13:55 apparmor.d
drwxr-xr-x 8 root root 4096 Aug 26 14:08 apt
drwxr-xr-x 2 root root 4096 Aug 26 13:39 arp-scan
drwxr-xr-x 3 root root 4096 Aug 26 13:50 avahi
-rw-r--r-- 1 root root 1997 May 19 14:11 bash.bashrc
-rw-r--r-- 1 root root 45 Jan 11 2025 bash_completion
drwxr-xr-x 2 root root 4096 Aug 26 13:53 bash_completion.d
-rw-r--r-- 1 root root 367 Mar 14 18:56 bindresvport.blacklist
drwxr-xr-x 2 root root 4096 Apr 7 13:39 binfmt.d
drwxr-xr-x 2 root root 4096 Aug 26 13:49 bluetooth
drwxr-xr-x 3 root root 4096 Aug 26 13:02 ca-certificates
-rw-r--r-- 1 root root 6422 Aug 26 13:41 ca-certificates.conf
drwxr-s 2 root dip 4096 Aug 26 13:43 chatscripts
drwxr-xr-x 2 root root 4096 Aug 26 13:39 chromium
drwxr-xr-x 2 root root 4096 Aug 26 13:55 chromium.d
drwxr-xr-x 2 root root 4096 Aug 26 13:48 cifs-utils
drwxr-xr-x 3 root root 4096 Aug 26 13:25 cloud
drwxr-xr-x 2 colord colord 4096 Aug 26 14:13 colord
drwxr-xr-x 2 root root 4096 Aug 26 12:47 console-setup
drwxr-xr-x 2 root root 4096 Aug 26 13:41 cracklib
drwx 2 root root 4096 Apr 7 13:39 credstore
```

```
antoinette-elam@Kali: /etc
File Actions Edit View Help
drwx----- 2 root root 4096 Apr 7 13:39 credstore.encrypted
drwxr-xr-x 2 root root 4096 Aug 26 13:48 cron.d
drwxr-xr-x 2 root root 4096 Aug 26 13:53 cron.daily
drwxr-xr-x 2 root root 4096 Aug 26 12:44 cron.hourly
drwxr-xr-x 2 root root 4096 Aug 26 12:44 cron.monthly
-rw-r--r-- 1 root root 1042 Apr 6 14:47 crontab
drwxr-xr-x 2 root root 4096 Aug 26 13:48 cron.weekly
drwxr-xr-x 2 root root 4096 Aug 26 12:44 cron.yearly
drwxr-xr-x 2 root root 4096 Aug 26 13:56 cryptsetup-initramfs
drwxr-xr-x 2 root root 4096 Apr 10 16:09 cryptsetup-nuke-password
-rw-r--r-- 1 root root 54 Aug 26 13:14 crypttab
drwxr-xr-x 2 root root 4096 Aug 26 13:54 cupshelpers
drwxr-xr-x 4 root root 4096 Aug 26 13:01 dbus-1
drwxr-xr-x 3 root root 4096 Aug 26 13:04 dconf
-rw-r--r-- 1 root root 2967 Mar 10 08:07 debconf.conf
-rw-r--r-- 1 root root 13 May 15 21:57 debian_version
drwxr-xr-x 3 root root 4096 Aug 26 14:03 default
-rw-r--r-- 1 root root 1706 May 6 14:25 deluser.conf
drwxr-xr-x 2 root root 4096 May 13 14:26 depmod.d
drwxr-xr-x 3 root root 4096 Aug 26 13:04 dhcp
-rw-r--r-- 1 root root 1275 Apr 20 05:05 dhcpcd.conf
drwxr-xr-x 2 root root 4096 Aug 26 13:59 dictionaries-common
-rw-r--r-- 1 root root 214 Apr 4 2020 dns2tcpd.conf
drwxr-xr-x 3 root root 4096 Aug 26 13:15 doc-base
drwxr-xr-x 4 root root 4096 Aug 26 13:49 dpkg
-rw-r--r-- 1 root root 685 Mar 15 07:15 e2scrub.conf
drwxr-xr-x 3 root root 4096 Aug 26 13:35 eac
drwxr-xr-x 3 root root 4096 Aug 26 13:05 emacs
```

```
antoinette-elam@Kali: /etc
File Actions Edit View Help
-rw-r--r-- 1 root root 653 Aug 26 13:39 environment
drwxr-xr-x 2 root root 4096 Aug 26 13:55 environment.d
-rw-r--r-- 1 root root 1936 Mar 15 19:20 ethertypes
drwxr-xr-x 2 root root 4096 Aug 26 13:52 ettercap
drwxr-xr-x 3 root root 4096 Aug 26 13:19 firebird
drwxr-xr-x 4 root root 4096 Aug 26 13:55 firefox-esr
drwxr-xr-x 4 root root 4096 Aug 26 13:40 fonts
drwxr-xr-x 2 root root 4096 Aug 26 13:39 freetds
-rw-r--r-- 1 root root 806 Aug 26 12:42 fstab
-rw-r--r-- 1 root root 725 Apr 27 02:10 fuse.conf
-rw-r--r-- 1 root root 2584 Jan 28 2025 gai.conf
drwxr-xr-x 3 root root 4096 Aug 26 13:55 geoclue
drwxr-xr-x 4 root root 4096 Aug 26 13:03 ghostscript
drwxr-xr-x 3 root root 4096 Aug 26 13:03 glvnd
drwxr-xr-x 2 root root 4096 Aug 26 13:58 gnome-system-tools
drwxr-xr-x 2 root root 4096 Aug 26 13:39 gophish
-rw-r--r-- 1 root root 3986 Mar 3 2025 gprofng.rc
drwxr-xr-x 2 root root 4096 Aug 26 13:43 groff
-rw-r--r-- 1 root root 1470 Aug 26 14:10 group
-rw-r--r-- 1 root root 1455 Aug 26 14:10 group-
drwxr-xr-x 2 root root 4096 Aug 26 14:02 grub.d
-rw-r----- 1 root shadow 1266 Aug 26 14:10 gshadow
-rw-r----- 1 root shadow 1251 Aug 26 14:10 gshadow-
drwxr-xr-x 3 root root 4096 Aug 26 12:44 gss
drwxr-xr-x 2 root root 4096 Aug 26 13:53 gtk-2.0
drwxr-xr-x 2 root root 4096 Aug 26 13:54 gtk-3.0
drwxr-xr-x 2 root root 4096 Aug 26 13:56 guymager
drwxr-xr-x 2 root root 4096 Aug 26 13:56 gvm
```

```
antoinette-elam@Kali: /etc
File Actions Edit View Help
-rw-r--r-- 1 root root 4448 Apr 16 2024 hdparm.conf
-rw-r--r-- 1 root root 9 May 15 21:57 host.conf
-rw-r--r-- 1 root root 5 Aug 26 12:45 hostname
-rw-r--r-- 1 root root 184 Aug 26 12:45 hosts
-rw-r--r-- 1 root root 411 Aug 26 13:39 hosts.allow
-rw-r--r-- 1 root root 711 Aug 26 13:39 hosts.deny
-rw-r--r-- 1 root root 171 Mar 31 14:13 idmapd.conf
drwxr-xr-x 3 root root 4096 Aug 26 13:37 ifplugd
drwxr-xr-x 2 root root 4096 Aug 26 13:38 ImageMagick-7
drwxr-xr-x 2 root root 4096 Aug 26 13:53 inetsim
drwxr-xr-x 2 root root 4096 Aug 26 14:05 init.d
drwxr-xr-x 5 root root 4096 Aug 26 12:45 initramfs-tools
-rw-r--r-- 1 root root 1875 Dec 13 2024 inputrc
drwxr-xr-x 2 root root 4096 Aug 26 13:40 insserv.conf.d
drwxr-xr-x 2 root root 4096 Aug 26 13:51 ipp-usb
-rw-r--r-- 1 root root 610 Mar 14 13:55 ipsec.conf
drwxr-xr-x 11 root root 4096 Aug 26 13:04 ipsec.d
-rw-r--r-- 1 root root 175 Mar 14 13:55 ipsec.secrets
-rw-r--r-- 1 root root 30 May 15 21:57 issue
-rw-r--r-- 1 root root 23 May 15 21:57 issue.net
drwxr-xr-x 5 root root 4096 Aug 26 13:45 java-21-openjdk
drwxr-xr-x 2 root root 4096 Aug 26 13:48 john
drwxr-xr-x 3 root root 4096 Aug 26 13:25 kali-menu
drwxr-xr-x 6 root root 4096 Aug 26 13:04 kernel
-rw-r--r-- 1 root root 144 Aug 26 14:05 kernel-img.conf
drwxr-xr-x 2 root root 4096 Apr 13 06:23 keyutils
drwxr-xr-x 2 root root 4096 Aug 26 13:40 kismet
drwxr-xr-x 2 root root 4096 Aug 26 13:39 ldap
```

```
antoinette-elam@Kali: /etc
File Actions Edit View Help
-rw-r--r-- 1 root root 93010 Aug 26 14:12 ld.so.cache
-rw-r--r-- 1 root root 34 Mar 14 18:56 ld.so.conf
drwxr-xr-x 2 root root 4096 Aug 26 13:42 ld.so.conf.d
-rw-r--r-- 1 root root 40645 Feb 25 2025 legion.conf
-rw-r--r-- 1 root root 26 Feb 21 2024 libao.conf
-rw-r--r-- 1 root root 191 Nov 14 2024 libaudit.conf
drwxr-xr-x 3 root root 4096 Aug 26 13:23 libblockdev
-rw-r--r-- 1 root root 62283 Mar 19 12:55 libccid_Info.plist
drwxr-xr-x 2 root root 4096 Aug 26 13:39 libnl-3
drwxr-xr-x 2 root root 4096 Aug 26 13:50 libpaper.d
drwxr-xr-x 3 root root 4096 Aug 26 13:55 lightdm
drwxr-xr-x 4 root root 4096 Aug 26 13:38 lighttpd
-rw-r--r-- 1 root root 2996 Mar 14 18:56 locale.alias
-rw-r--r-- 1 root root 54 Aug 26 12:45 locale.conf
-rw-r--r-- 1 root root 9580 Aug 26 12:45 locale.gen
lrwxrwxrwx 1 root root 36 Aug 26 12:45 localtime -> /usr/share/zoneinfo/America/New_York
drwxr-xr-x 6 root root 4096 Aug 26 13:04 logcheck
-rw-r--r-- 1 root root 5939 Apr 19 06:20 login.defs
-rw-r--r-- 1 root root 494 Jul 14 2024 logrotate.conf
drwxr-xr-x 2 root root 4096 Aug 26 13:56 logrotate.d
drwxr-xr-x 2 root root 4096 Aug 26 13:39 macchanger
-r--r--r-- 1 root root 33 Aug 26 12:44 machine-id
-rw-r--r-- 1 root root 111 Apr 11 01:25 magic
-rw-r--r-- 1 root root 111 Apr 11 01:25 magic.mime
-rw-r--r-- 1 root root 5230 May 2 09:24 manpath.config
-rw-r--r-- 1 root root 43413 Feb 27 2025 matplotlibrc
-rw-r--r-- 1 root root 78282 Mar 7 20:12 mime.types
```

8. List all the files in the current directory that begin with the letter s.

```
antoinette-elam@Kali: /etc
File Actions Edit View Help
drwxr-xr-x  2 root    root      4096 Aug 26 13:39 xrdp
drwxr-xr-x  2 root    root      4096 Aug 26 13:39 zsh
-rw-r--r--  1 root    root       460 Jan 20  2023 zsh_command_not_found

(antoinette-elam@Kali)-[/etc]
$ ls -d D
ls: cannot access 'D': No such file or directory

(antoinette-elam@Kali)-[/etc]
$ ls -d D*
ls: cannot access 'D*': No such file or directory

(antoinette-elam@Kali)-[/etc]
$ ls -d s*
samba          sgml           ssh            sudo.conf
sane.d         shadow        ssl            sudoers
scalpel        shadow-       sslsplit      sudoers.d
screenrc       shells        strongswan.conf sudo_logsrvd.conf
sddm.conf.d   skel          strongswan.d  supercat
searchsploit_rc smartd.conf   stunnel       sv
security      smartmontools subgid         sysctl.d
selinux       smi.conf     subgid-       sysstat
sensors3.conf snmp         subuid        systemd
sensors.d     speech-dispatcher subuid-
services      sqlmap       subversion
```

9. Run the command that will determine the type of contents in the /etc/group file.

```
antoinette-elam@Kali: /etc
File Actions Edit View Help
└─$ ls -d s*
samba          sgm1          ssh           sudo.conf
sane.d         shadow        ssl           sudoers
scalpel        shadow-       sslsplit     sudoers.d
screenrc       shells       strongswan.conf sudo_logsrvd.conf
sddm.conf.d   skel         strongswan.d supercat
searchsploit_rc smartd.conf  stunnel      sv
security      smartmontools subgid        sysctl.d
selinux       smi.conf     subgid-      sysstat
sensors3.conf snmp         subuid       systemd
sensors.d     speech-dispatcher subuid-
services      sqlmap       subversion
```

```
(antoinette-elam@Kali)-[/etc]
└─$ file
Usage: file [-bcCdEhikLlNnprsSvzZ0] [--apple] [--extension] [--mime-encoding]
        [--mime-type] [-e <testname>] [-F <separator>] [-f <namefile>]
        [-m <magicfiles>] [-P <parameter=value>] [--exclude-quiet]
        <file> ...
        file -C [-m <magicfiles>]
        file [--help]
```

```
(antoinette-elam@Kali)-[/etc]
└─$ file /etc/group
/etc/group: ASCII text
```

```
(antoinette-elam@Kali)-[/etc]
└─$
```

10. Display only the last five lines of the /etc/group file.

```
antoinette-elam@Kali: /etc
File Actions Edit View Help

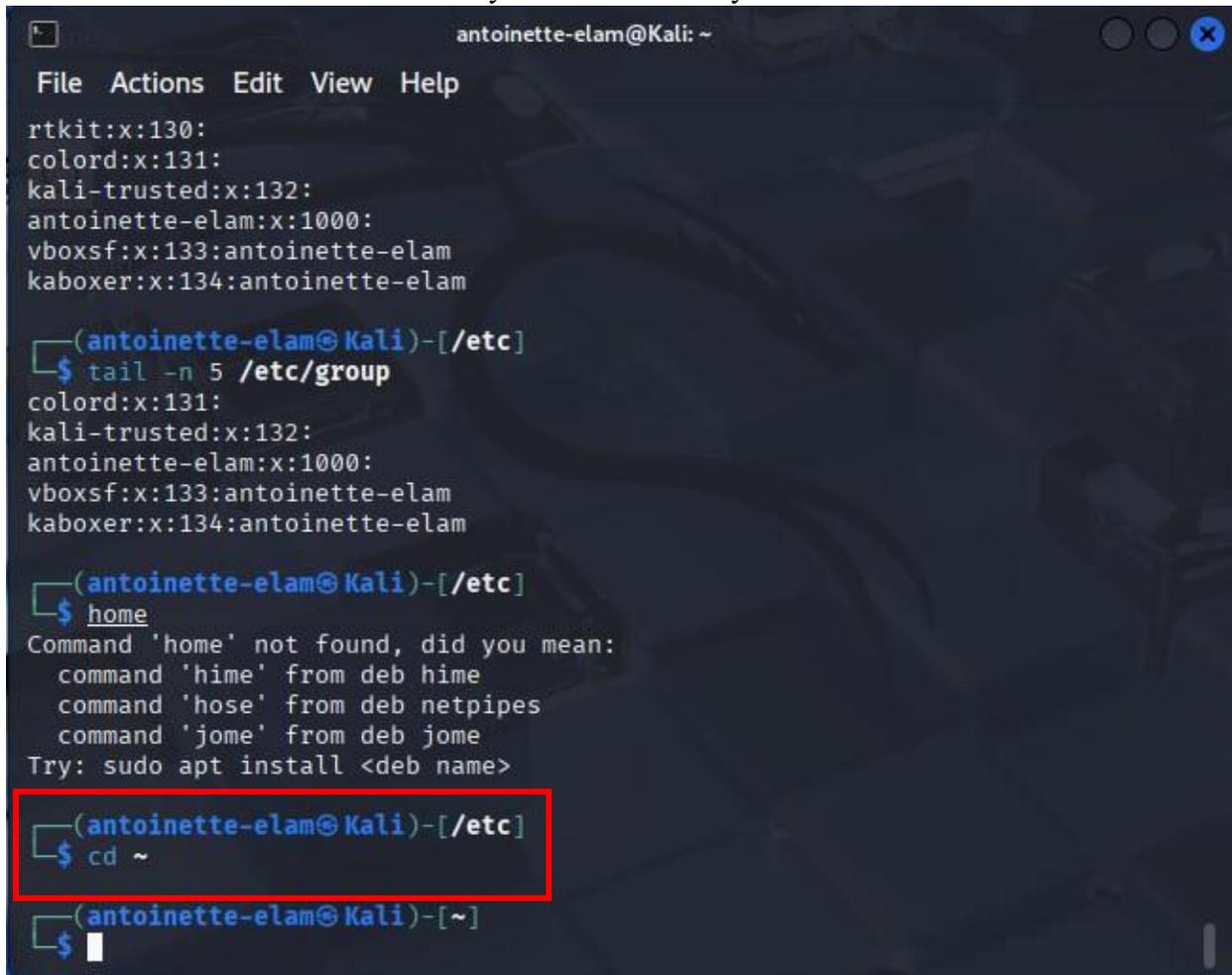
(antoinette-elam@Kali)-[/etc]
$ file /etc/group
/etc/group: ASCII text

(antoinette-elam@Kali)-[/etc]
$ tail /etc/group
geoclue:x:127:
lightdm:x:128:
saned:x:129:
polkitd:x:987:
rtkit:x:130:
colord:x:131:
kali-trusted:x:132:
antoinette-elam:x:1000:
vboxsf:x:133:antoinette-elam
kaboxer:x:134:antoinette-elam

(antoinette-elam@Kali)-[/etc]
$ tail -n 5 /etc/group
colord:x:131:
kali-trusted:x:132:
antoinette-elam:x:1000:
vboxsf:x:133:antoinette-elam
kaboxer:x:134:antoinette-elam

(antoinette-elam@Kali)-[/etc]
$
```

11. Execute the command to return to your home directory.

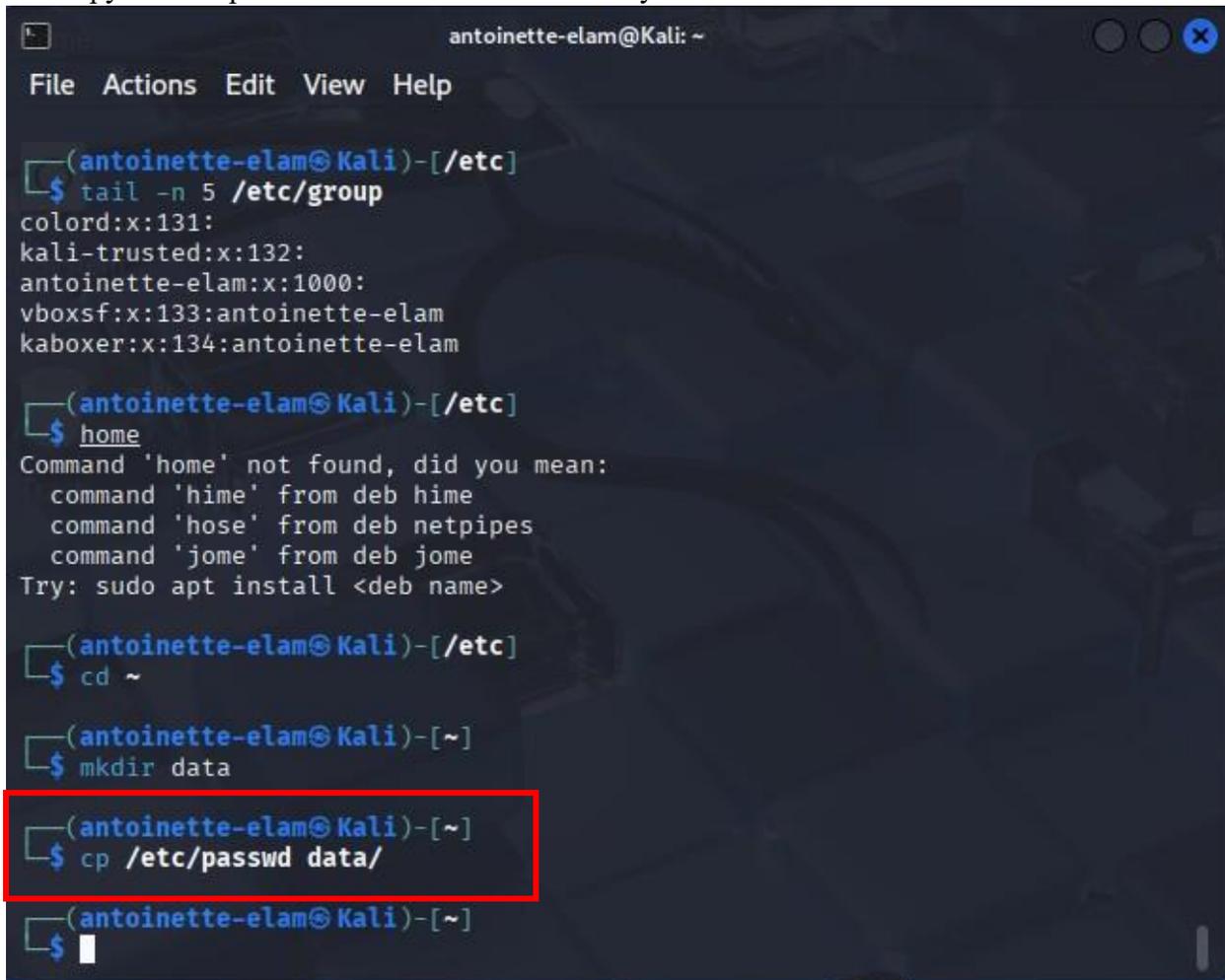


```
antoinette-elam@Kali: ~  
File Actions Edit View Help  
rtkit:x:130:  
colord:x:131:  
kali-trusted:x:132:  
antoinette-elam:x:1000:  
vboxsf:x:133:antoinette-elam  
kaboxer:x:134:antoinette-elam  
  
(antoinette-elam@Kali)-[/etc]  
$ tail -n 5 /etc/group  
colord:x:131:  
kali-trusted:x:132:  
antoinette-elam:x:1000:  
vboxsf:x:133:antoinette-elam  
kaboxer:x:134:antoinette-elam  
  
(antoinette-elam@Kali)-[/etc]  
$ home  
Command 'home' not found, did you mean:  
  command 'hime' from deb hime  
  command 'hose' from deb netpipes  
  command 'jome' from deb jome  
Try: sudo apt install <deb name>  
  
(antoinette-elam@Kali)-[/etc]  
$ cd ~  
  
(antoinette-elam@Kali)-[~]  
$
```

12. Make a directory named data in the current directory.

```
antoinette-elam@Kali: ~  
File Actions Edit View Help  
antoinette-elam:x:1000:  
vboxsf:x:133:antoinette-elam  
kaboxer:x:134:antoinette-elam  
  
(antoinette-elam@Kali)-[/etc]  
$ tail -n 5 /etc/group  
colord:x:131:  
kali-trusted:x:132:  
antoinette-elam:x:1000:  
vboxsf:x:133:antoinette-elam  
kaboxer:x:134:antoinette-elam  
  
(antoinette-elam@Kali)-[/etc]  
$ home  
Command 'home' not found, did you mean:  
  command 'hime' from deb hime  
  command 'hose' from deb netpipes  
  command 'jome' from deb jome  
Try: sudo apt install <deb name>  
  
(antoinette-elam@Kali)-[/etc]  
$ cd ~  
  
(antoinette-elam@Kali)-[~]  
$ mkdir data  
  
(antoinette-elam@Kali)-[~]  
$
```

13. Copy the /etc/passwd file into the data directory.



```
antoinette-elam@Kali: ~  
File Actions Edit View Help  
  
(antoinette-elam@Kali)-[/etc]  
$ tail -n 5 /etc/group  
color:x:131:  
kali-trusted:x:132:  
antoinette-elam:x:1000:  
vboxsf:x:133:antoinette-elam  
kaboxer:x:134:antoinette-elam  
  
(antoinette-elam@Kali)-[/etc]  
$ home  
Command 'home' not found, did you mean:  
  command 'hime' from deb hime  
  command 'hose' from deb netpipes  
  command 'jome' from deb jome  
Try: sudo apt install <deb name>  
  
(antoinette-elam@Kali)-[/etc]  
$ cd ~  
  
(antoinette-elam@Kali)-[~]  
$ mkdir data  
  
(antoinette-elam@Kali)-[~]  
$ cp /etc/passwd data/  
  
(antoinette-elam@Kali)-[~]  
$
```

14. Copy the /etc/ppp directory into the current directory (and ignore any “Permission

denied” error messages).

```
antoinette-elam@Kali: ~  
File Actions Edit View Help  
antoinette-elam:x:1000:  
vboxsf:x:133:antoinette-elam  
kaboxer:x:134:antoinette-elam  
  
(antoinette-elam@Kali)-[/etc]  
$ home  
Command 'home' not found, did you mean:  
  command 'hime' from deb hime  
  command 'hose' from deb netpipes  
  command 'jome' from deb jome  
Try: sudo apt install <deb name>  
  
(antoinette-elam@Kali)-[/etc]  
$ cd ~  
  
(antoinette-elam@Kali)-[~]  
$ mkdir data  
  
(antoinette-elam@Kali)-[~]  
$ cp /etc/passwd data/  
  
(antoinette-elam@Kali)-[~]  
$ cp -r /etc/ppp .  
cp: cannot open '/etc/ppp/pap-secrets' for reading: Permission denied  
cp: cannot open '/etc/ppp/chap-secrets' for reading: Permission denied  
  
(antoinette-elam@Kali)-[~]  
$
```

15. Rename the ppp directory that is located in the current directory to peers.

```
antoinette-elam@Kali: ~  
File Actions Edit View Help  
  
(antoinette-elam@Kali)-[/etc]  
$ home  
Command 'home' not found, did you mean:  
  command 'hime' from deb hime  
  command 'hose' from deb netpipes  
  command 'jome' from deb jome  
Try: sudo apt install <deb name>  
  
(antoinette-elam@Kali)-[/etc]  
$ cd ~  
  
(antoinette-elam@Kali)-[~]  
$ mkdir data  
  
(antoinette-elam@Kali)-[~]  
$ cp /etc/passwd data/  
  
(antoinette-elam@Kali)-[~]  
$ cp -r /etc/ppp .  
cp: cannot open '/etc/ppp/pap-secrets' for reading: Permission denied  
cp: cannot open '/etc/ppp/chap-secrets' for reading: Permission denied  
  
(antoinette-elam@Kali)-[~]  
$ mv ppp peers  
  
(antoinette-elam@Kali)-[~]  
$
```

16. Execute the command (ls) to verify the change in the name of the directory.

```
antoinette-elam@Kali: ~  
File Actions Edit View Help  
command 'hose' from deb netpipes  
command 'jome' from deb jome  
Try: sudo apt install <deb name>  
  
(antoinette-elam@Kali)-[/etc]  
$ cd ~  
  
(antoinette-elam@Kali)-[~]  
$ mkdir data  
  
(antoinette-elam@Kali)-[~]  
$ cp /etc/passwd data/  
  
(antoinette-elam@Kali)-[~]  
$ cp -r /etc/ppp .  
cp: cannot open '/etc/ppp/pap-secrets' for reading: Permission denied  
cp: cannot open '/etc/ppp/chap-secrets' for reading: Permission denied  
  
(antoinette-elam@Kali)-[~]  
$ mv ppp peers  
  
(antoinette-elam@Kali)-[~]  
$ ls  
data    Documents  Music  Pictures  Templates  
Desktop Downloads  peers  Public    Videos  
  
(antoinette-elam@Kali)-[~]  
$
```

17. Create a new empty file named test in the data directory.

```
antoinette-elam@Kali: ~  
File Actions Edit View Help  
(antoinette-elam@Kali)-[/etc]  
$ cd ~  
(antoinette-elam@Kali)-[~]  
$ mkdir data  
(antoinette-elam@Kali)-[~]  
$ cp /etc/passwd data/  
(antoinette-elam@Kali)-[~]  
$ cp -r /etc/ppp .  
cp: cannot open '/etc/ppp/pap-secrets' for reading: Permission denied  
cp: cannot open '/etc/ppp/chap-secrets' for reading: Permission denied  
(antoinette-elam@Kali)-[~]  
$ mv ppp peers  
(antoinette-elam@Kali)-[~]  
$ ls  
data    Documents  Music  Pictures  Templates  
Desktop Downloads  peers  Public    Videos  
(antoinette-elam@Kali)-[~]  
$ touch data/test  
(antoinette-elam@Kali)-[~]  
$
```

18. Delete the data/passwd file.

```
antoinette-elam@Kali: ~  
File Actions Edit View Help  
  
(antoinette-elam@Kali)-[~]  
$ mkdir data  
  
(antoinette-elam@Kali)-[~]  
$ cp /etc/passwd data/  
  
(antoinette-elam@Kali)-[~]  
$ cp -r /etc/ppp .  
cp: cannot open '/etc/ppp/pap-secrets' for reading: Permission denied  
cp: cannot open '/etc/ppp/chap-secrets' for reading: Permission denied  
  
(antoinette-elam@Kali)-[~]  
$ mv ppp peers  
  
(antoinette-elam@Kali)-[~]  
$ ls  
data    Documents  Music  Pictures  Templates  
Desktop Downloads  peers  Public    Videos  
  
(antoinette-elam@Kali)-[~]  
$ touch data/test  
  
(antoinette-elam@Kali)-[~]  
$ rm data/passwd  
  
(antoinette-elam@Kali)-[~]  
$
```

19. Delete the peers directory.

```
antoinette-elam@Kali: ~  
File Actions Edit View Help  
└─$ cp -r /etc/ppp .  
cp: cannot open '/etc/ppp/pap-secrets' for reading: Permission denied  
cp: cannot open '/etc/ppp/chap-secrets' for reading: Permission denied  
  
(antoinette-elam@Kali)-[~]  
└─$ mv ppp peers  
  
(antoinette-elam@Kali)-[~]  
└─$ ls  
data      Documents Music  Pictures Templates  
Desktop  Downloads peers  Public   Videos  
  
(antoinette-elam@Kali)-[~]  
└─$ touch data/test  
  
(antoinette-elam@Kali)-[~]  
└─$ rm data/passwd  
  
(antoinette-elam@Kali)-[~]  
└─$ rm -r peers  
  
(antoinette-elam@Kali)-[~]
```

20. Re-execute the ls command

```
antoinette-elam@Kali: ~  
File Actions Edit View Help  
└─$ cp -r /etc/ppp .  
cp: cannot open '/etc/ppp/pap-secrets' for reading: Permission denied  
cp: cannot open '/etc/ppp/chap-secrets' for reading: Permission denied  
  
└─(antoinette-elam@Kali)-[~]  
└─$ mv ppp peers  
  
└─(antoinette-elam@Kali)-[~]  
└─$ ls  
data      Documents Music  Pictures Templates  
Desktop  Downloads peers  Public   Videos  
  
└─(antoinette-elam@Kali)-[~]  
└─$ touch data/test  
  
└─(antoinette-elam@Kali)-[~]  
└─$ rm data/passwd  
  
└─(antoinette-elam@Kali)-[~]  
└─$ rm -r peers  
  
└─(antoinette-elam@Kali)-[~]  
└─$ ls  
data      Documents Music  Public  Videos  
Desktop  Downloads Pictures Templates  
  
└─(antoinette-elam@Kali)-[~]  
└─$
```