

Week Report 7

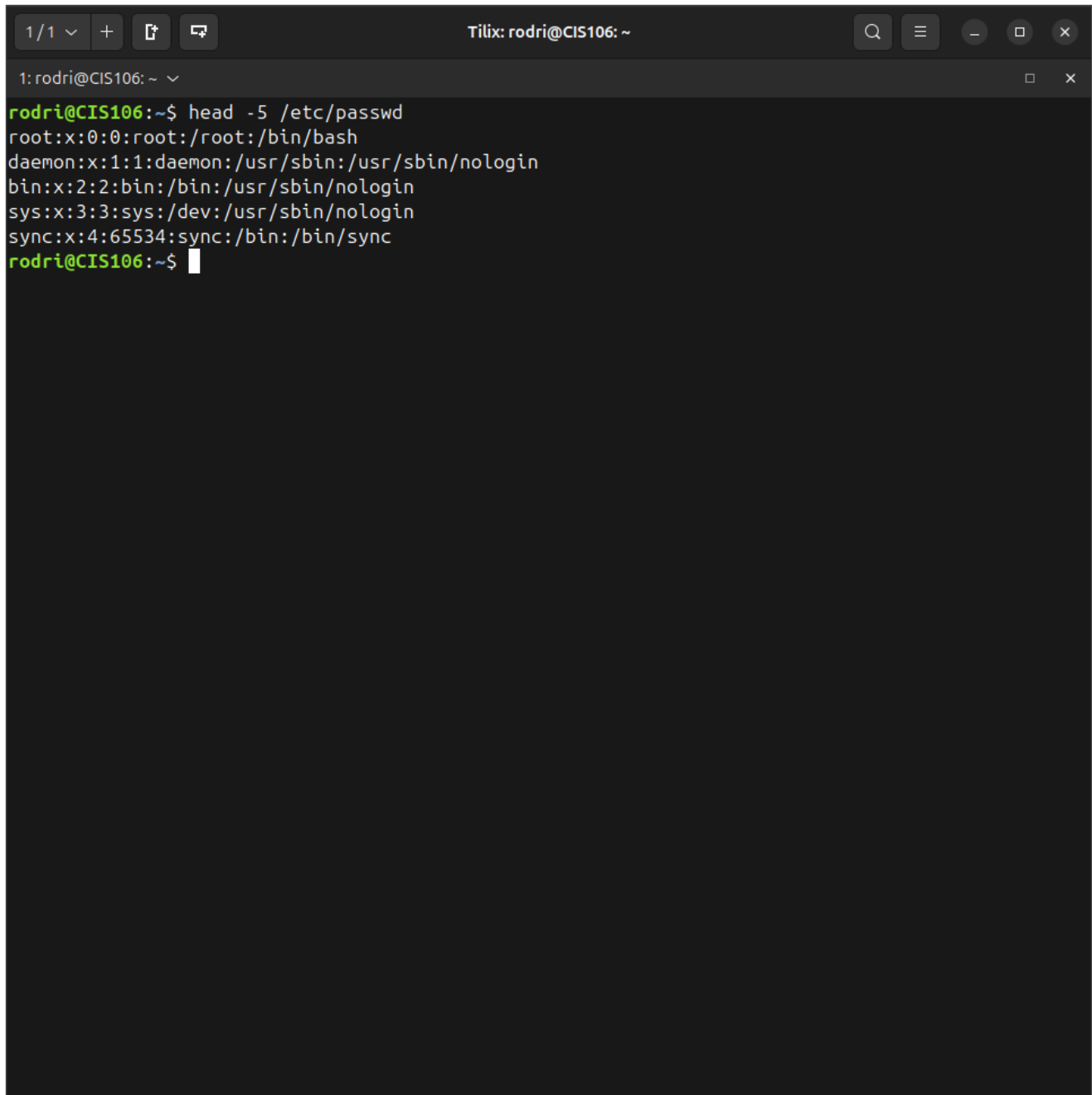
Practice 1

```
Tilix: rodri@CIS106: ~  
1: rodri@CIS106: ~  
rodri@CIS106:~$ 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:/run/ircd:/usr/sbin/nologin  
_apt:x:42:65534::/nonexistent:/usr/sbin/nologin  
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin  
systemd-network:x:998:998:systemd Network Management:/:/usr/sbin/nologin  
systemd-timesync:x:996:996:systemd Time Synchronization:/:/usr/sbin/nologin  
dhcpcd:x:100:65534:DHCP Client Daemon,,,:/usr/lib/dhcpcd:/bin/false  
messagebus:x:101:101::/nonexistent:/usr/sbin/nologin  
syslog:x:102:102::/nonexistent:/usr/sbin/nologin  
systemd-resolve:x:991:991:systemd Resolver:/:/usr/sbin/nologin  
uidd:x:103:103::/run/uidd:/usr/sbin/nologin  
usbmux:x:104:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin  
tss:x:105:105:TPM software stack,,,:/var/lib/tpm:/bin/false  
systemd-oom:x:990:990:systemd Userspace OOM Killer:/:/usr/sbin/nologin  
kernoops:x:106:65534:Kernel Oops Tracking Daemon,,,:/usr/sbin/nologin  
whoopsie:x:107:109::/nonexistent:/bin/false  
dnsmasq:x:999:65534:dnsmasq:/var/lib/misc:/usr/sbin/nologin  
avahi:x:108:111:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin  
tcpdump:x:109:112::/nonexistent:/usr/sbin/nologin  
sssd:x:110:113:SSSD system user,,,:/var/lib/sss:/usr/sbin/nologin  
speech-dispatcher:x:111:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false  
cups-pk-helper:x:112:114:user for cups-pk-helper service,,,:/nonexistent:/usr/sbin/nologin  
fwupd-refresh:x:989:989:Firmware update daemon:/var/lib/fwupd:/usr/sbin/nologin  
saned:x:113:116::/var/lib/saned:/usr/sbin/nologin  
geoclue:x:114:117::/var/lib/geoclue:/usr/sbin/nologin
```

```
Tilix: rodri@CIS106: ~  
1: rodri@CIS106: ~  
rodri@CIS106:~$ tac /etc/passwd  
snap_daemon:x:584788:584788::/nonexistent:/usr/bin/false  
snapd-range-524288-root:x:524288:524288::/nonexistent:/usr/bin/false  
_flatpak:x:122:124:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin  
rodri:x:1000:1000:Rodrigo Ramos:/home/rodri:/bin/bash  
nm-openvpn:x:121:122:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin  
gdm:x:120:121:Gnome Display Manager:/var/lib/gdm3:/bin/false  
gnome-initial-setup:x:119:65534::/run/gnome-initial-setup:/bin/false  
colord:x:118:120:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin  
rtkit:x:117:119:RealtimeKit,,,:/proc:/usr/sbin/nologin  
polkitd:x:987:987>User for polkitd:/:/usr/sbin/nologin  
gnome-remote-desktop:x:988:988:GNOME Remote Desktop:/var/lib/gnome-remote-desktop:/usr/sbin/nologin  
hplip:x:116:7:HPLIP system user,,,:/run/hplip:/bin/false  
cups-browsed:x:115:114::/nonexistent:/usr/sbin/nologin  
geoclue:x:114:117::/var/lib/geoclue:/usr/sbin/nologin  
saned:x:113:116::/var/lib/saned:/usr/sbin/nologin  
fwupd-refresh:x:989:989:Firmware update daemon:/var/lib/fwupd:/usr/sbin/nologin
```

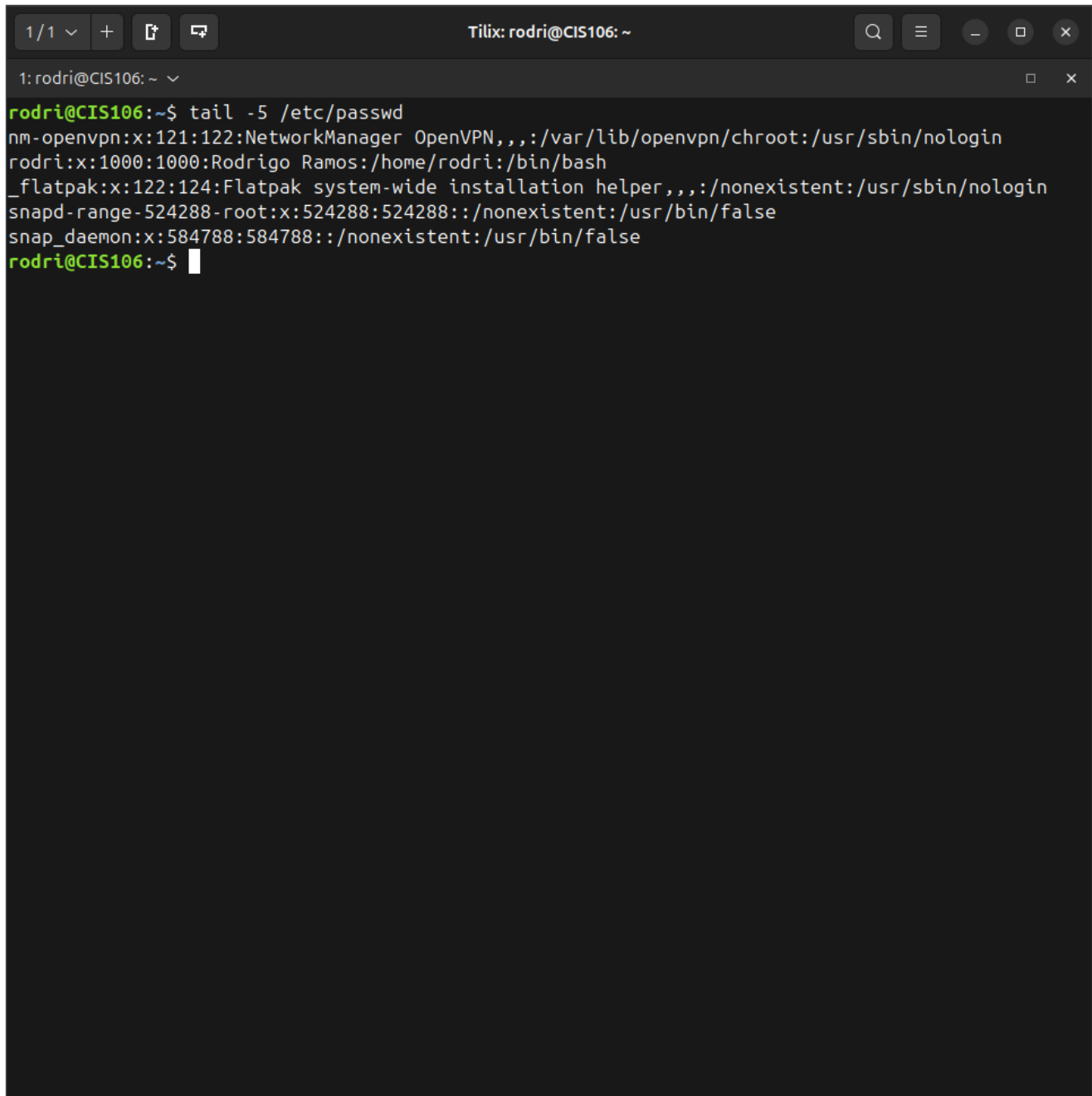
```
cups-pk-helper:x:112:114:user for cups-pk-helper service,,,:/nonexistent:/usr/sbin/nologin
speech-dispatcher:x:111:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false
sssd:x:110:113:SSSD system user,,,:/var/lib/sss:/usr/sbin/nologin
tcpdump:x:109:112:/nonexistent:/usr/sbin/nologin
avahi:x:108:111:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin
dnsmasq:x:999:65534:dnsmasq:/var/lib/misc:/usr/sbin/nologin
whoopsie:x:107:109:/nonexistent:/bin/false
kernoops:x:106:65534:Kernel Oops Tracking Daemon,,,:/usr/sbin/nologin
systemd-oom:x:990:990:systemd Userspace OOM Killer:/usr/sbin/nologin
tss:x:105:105:TPM software stack,,,:/var/lib/tpm:/bin/false
usbmux:x:104:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin
uuidd:x:103:103:/run/uuidd:/usr/sbin/nologin
systemd-resolve:x:991:991:systemd Resolver:/usr/sbin/nologin
syslog:x:102:102:/nonexistent:/usr/sbin/nologin
messagebus:x:101:101:/nonexistent:/usr/sbin/nologin
dhcpcd:x:100:65534:DHCP Client Daemon,,,:/usr/lib/dhcpcd:/bin/false
systemd-timesync:x:996:996:systemd Time Synchronization:/usr/sbin/nologin
systemd-network:x:998:998:systemd Network Management:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
_apt:x:42:65534:/nonexistent:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
```

```
Tilix: rodri@CIS106: ~  
1: rodri@CIS106: ~  
rodri@CIS106:~$ cat -nE /etc/passwd  
1 root:x:0:0:root:/root:/bin/bash$  
2 daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin$  
3 bin:x:2:2:bin:/bin:/usr/sbin/nologin$  
4 sys:x:3:3:sys:/dev:/usr/sbin/nologin$  
5 sync:x:4:65534:sync:/bin:/bin/sync$  
6 games:x:5:60:games:/usr/games:/usr/sbin/nologin$  
7 man:x:6:12:man:/var/cache/man:/usr/sbin/nologin$  
8 lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin$  
9 mail:x:8:8:mail:/var/mail:/usr/sbin/nologin$  
10 news:x:9:9:news:/var/spool/news:/usr/sbin/nologin$  
11 uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin$  
12 proxy:x:13:13:proxy:/bin:/usr/sbin/nologin$  
13 www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin$  
14 backup:x:34:34:backup:/var/backups:/usr/sbin/nologin$  
15 list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin$  
16 irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin$  
17 _apt:x:42:65534::/nonexistent:/usr/sbin/nologin$  
18 nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin$  
19 systemd-network:x:998:998:systemd Network Management:/:usr/sbin/nologin$  
20 systemd-timesync:x:996:996:systemd Time Synchronization:/:usr/sbin/nologin$  
21 dhcpcd:x:100:65534:DHCP Client Daemon,,,:/usr/lib/dhcpcd:/bin/false$  
22 messagebus:x:101:101::/nonexistent:/usr/sbin/nologin$  
23 syslog:x:102:102::/nonexistent:/usr/sbin/nologin$  
24 systemd-resolve:x:991:991:systemd Resolver:/:usr/sbin/nologin$  
25 uidd:x:103:103::/run/uidd:/usr/sbin/nologin$  
26 usbmux:x:104:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin$  
27 tss:x:105:105:TPM software stack,,,:/var/lib/tpm:/bin/false$  
28 systemd-oom:x:990:990:systemd Userspace OOM Killer:/:usr/sbin/nologin$  
29 kernoops:x:106:65534:Kernel Oops Tracking Daemon,,,:/usr/sbin/nologin$  
30 whoopsie:x:107:109::/nonexistent:/bin/false$  
31 dnsmasq:x:999:65534:dnsmasq:/var/lib/misc:/usr/sbin/nologin$  
32 avahi:x:108:111:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin$  
33 tcpdump:x:109:112::/nonexistent:/usr/sbin/nologin$  
34 sssd:x:110:113:SSSD system user,,,:/var/lib/sss:/usr/sbin/nologin$  
35 speech-dispatcher:x:111:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false$  
36 cups-pk-helper:x:112:114:user for cups-pk-helper service,,,:/nonexistent:/usr/sbin/nologin$  
37 fwupd-refresh:x:989:989:Firmware update daemon:/var/lib/fwupd:/usr/sbin/nologin$  
38 saned:x:113:116::/var/lib/saned:/usr/sbin/nologin$
```



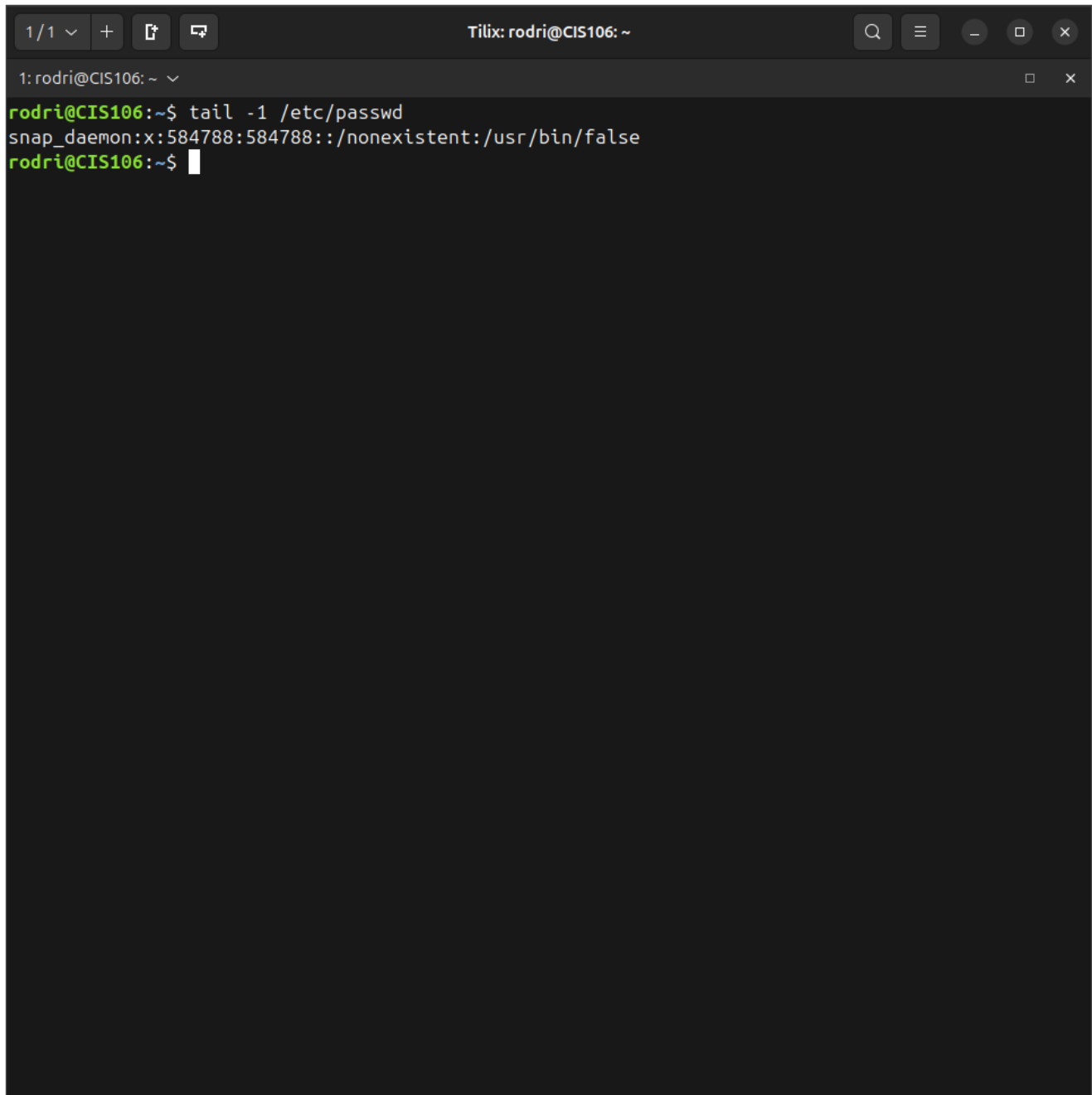
A terminal window titled "Tilix: rodri@CIS106: ~" with standard window controls. The terminal shows the command `head -5 /etc/passwd` being executed. The output lists the first five lines of the `/etc/passwd` file, showing system users: `root`, `daemon`, `bin`, `sys`, and `sync`. Each line contains fields for username, password placeholder, UID, GID, full name, home directory, and shell. The prompt `rodri@CIS106:~$` is visible at the bottom.

```
1/1  +  [Share] [Copy]
Tilix: rodri@CIS106: ~
1: rodri@CIS106: ~
rodri@CIS106:~$ head -5 /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
rodri@CIS106:~$
```



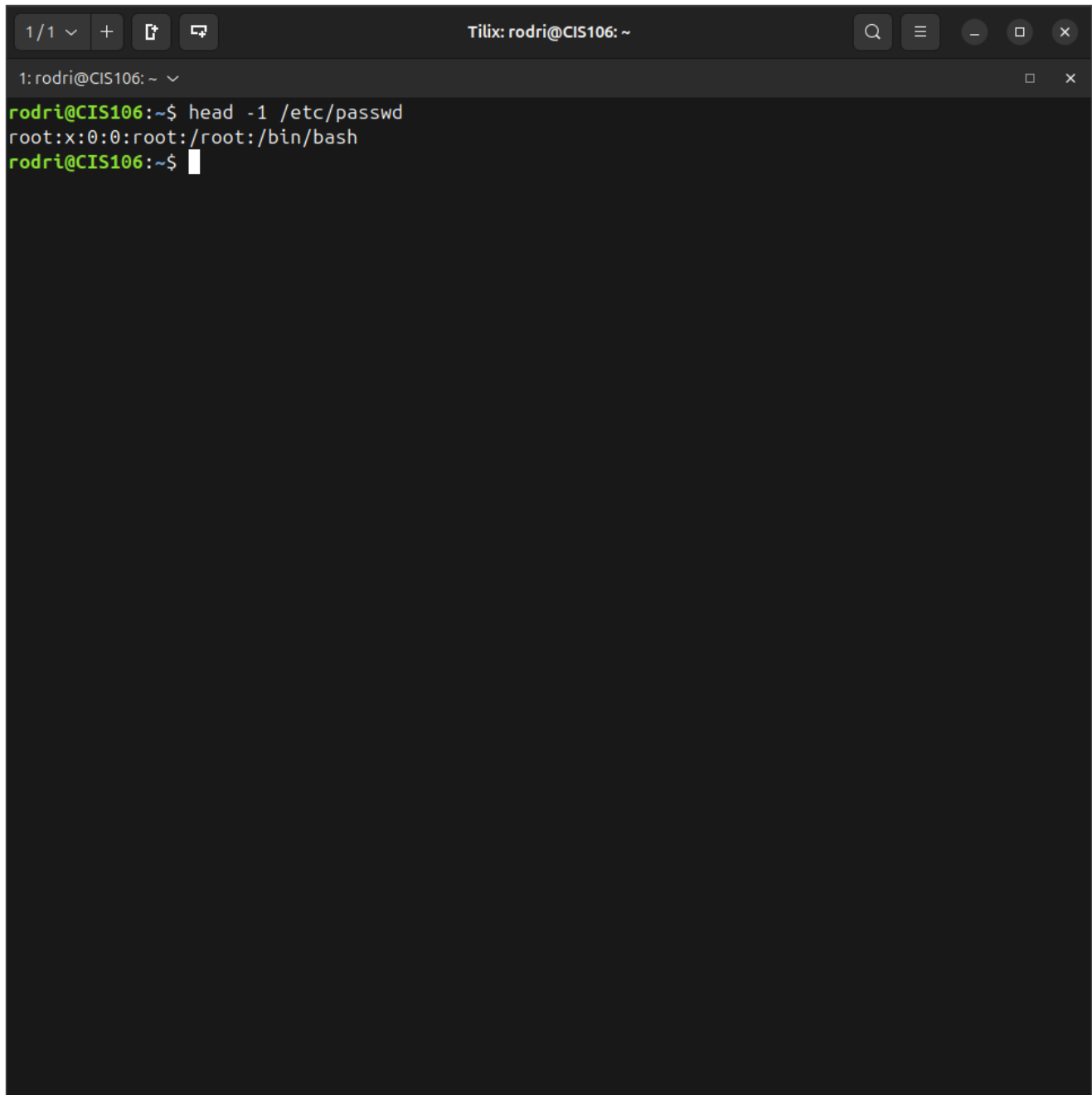
A terminal window titled "Tilix: rodri@CIS106: ~" showing the output of the command `tail -5 /etc/passwd`. The output lists the last five entries from the `/etc/passwd` file, including system users and the regular user `rodri`.

```
1: rodri@CIS106: ~  
rodri@CIS106:~$ tail -5 /etc/passwd  
nm-openvpn:x:121:122:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin  
rodri:x:1000:1000:Rodrigo Ramos:/home/rodri:/bin/bash  
_flatpak:x:122:124:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin  
snapd-range-524288-root:x:524288:524288::/nonexistent:/usr/bin/false  
snap_daemon:x:584788:584788::/nonexistent:/usr/bin/false  
rodri@CIS106:~$
```



A terminal window titled "Tilix: rodri@CIS106: ~" with standard window controls. The terminal shows a command being executed and its output.

```
1: rodri@CIS106: ~  
rodri@CIS106:~$ tail -1 /etc/passwd  
snap_daemon:x:584788:584788::/nonexistent:/usr/bin/false  
rodri@CIS106:~$
```



A terminal window titled "Tilix: rodri@CIS106: ~" with standard window controls. The terminal shows a command being executed and its output.

```
1: rodri@CIS106: ~  
rodri@CIS106:~$ head -1 /etc/passwd  
root:x:0:0:root:/root:/bin/bash  
rodri@CIS106:~$
```



```
Tilix: rodri@CIS106: ~  
1: rodri@CIS106: ~  
15812 approach us with offers to donate.  
15813  
15814 International donations are gratefully accepted, but we cannot make  
15815 any statements concerning tax treatment of donations received from  
15816 outside the United States. U.S. laws alone swamp our small staff.  
15817  
15818 Please check the Project Gutenberg web pages for current donation  
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15842 Archive Foundation, how to help produce our new eBooks, and how to  
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15844  
15845  
rodri@CIS106:~$ cat -n ~/Documents/Books/dracula.txt
```

Practice 2


```
Tilix: rodri@CIS106: ~  
1: rodri@CIS106: ~  
rodri@CIS106:~$ cut -d":" -f1 /etc/passwd  
root  
daemon  
bin  
sys  
sync  
games  
man  
lp  
mail  
news  
uucp  
proxy  
www-data  
backup  
list  
irc  
_apt  
nobody  
systemd-network  
systemd-timesync  
dhcpcd  
messagebus  
syslog  
systemd-resolve  
uidd  
usbmux  
tss  
systemd-oom  
kernoops  
whoopsie  
dnsmasq  
avahi  
tcpdump  
sssd  
speech-dispatcher
```

```
Tilix: rodri@CIS106: ~  
1: rodri@CIS106: ~  
rodri@CIS106:~$ cut -d":" -f1,6 /etc/passwd  
root:/root  
daemon:/usr/sbin  
bin:/bin  
sys:/dev  
sync:/bin  
games:/usr/games  
man:/var/cache/man  
lp:/var/spool/lpd  
mail:/var/mail  
news:/var/spool/news  
uucp:/var/spool/uucp  
proxy:/bin  
www-data:/var/www  
backup:/var/backups  
list:/var/list
```

```
irc:/run/ircd
_apt:/nonexistent
nobody:/nonexistent
systemd-network:/
systemd-timesync:/
dhcpcd:/usr/lib/dhcpcd
messagebus:/nonexistent
syslog:/nonexistent
systemd-resolve:/
uidd:/run/uidd
usbmux:/var/lib/usbmux
tss:/var/lib/tpm
systemd-oom:/
kernoops:/
whoopsie:/nonexistent
dnsmasq:/var/lib/misc
avahi:/run/avahi-daemon
tcpdump:/nonexistent
sssd:/var/lib/sss
speech-dispatcher:/run/speech-dispatcher
```

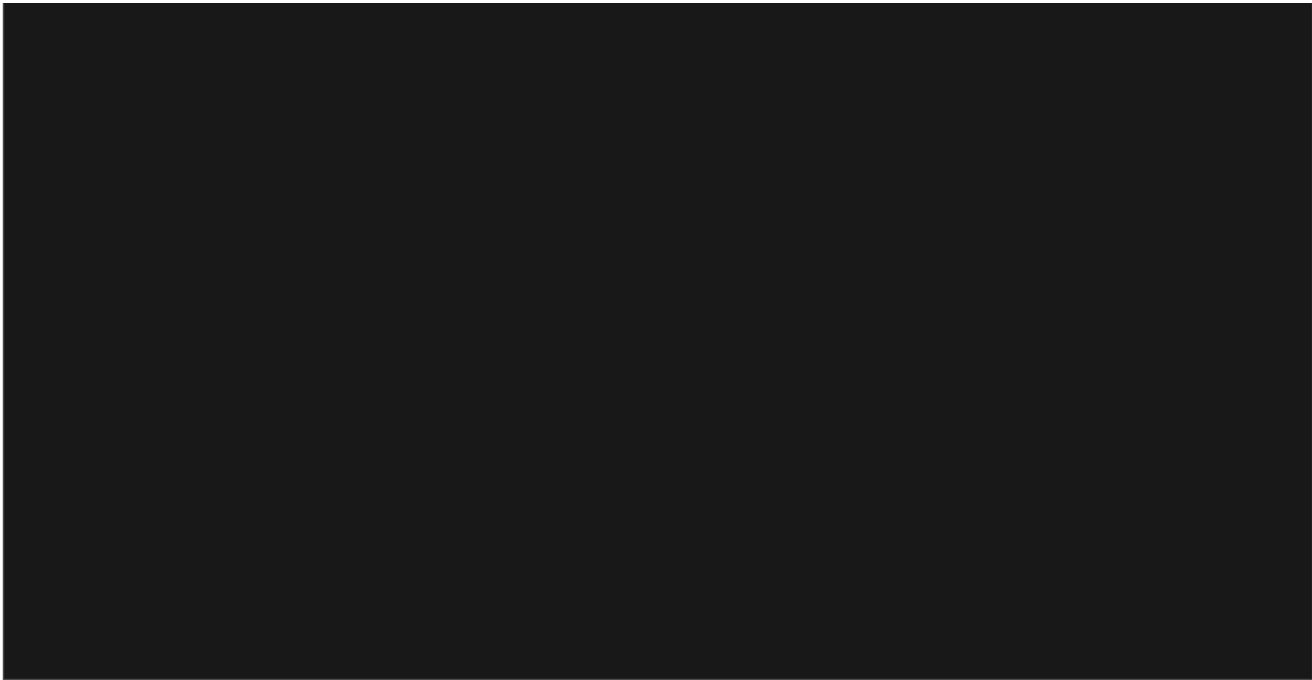
```
1/1 + [T] [R] Tilix: rodri@CIS106: ~  
1: rodri@CIS106: ~  
rodri@CIS106:~$ cut -d":" -f1,6,7 --output-delimiter=" > " /etc/passwd  
root > /root > /bin/bash  
daemon > /usr/sbin > /usr/sbin/nologin  
bin > /bin > /usr/sbin/nologin  
sys > /dev > /usr/sbin/nologin  
sync > /bin > /bin/sync  
games > /usr/games > /usr/sbin/nologin  
man > /var/cache/man > /usr/sbin/nologin  
lp > /var/spool/lpd > /usr/sbin/nologin  
mail > /var/mail > /usr/sbin/nologin  
news > /var/spool/news > /usr/sbin/nologin  
uucp > /var/spool/uucp > /usr/sbin/nologin  
proxy > /bin > /usr/sbin/nologin  
www-data > /var/www > /usr/sbin/nologin  
backup > /var/backups > /usr/sbin/nologin  
list > /var/list > /usr/sbin/nologin  
irc > /run/ircd > /usr/sbin/nologin  
_apt > /nonexistent > /usr/sbin/nologin  
nobody > /nonexistent > /usr/sbin/nologin  
systemd-network > / > /usr/sbin/nologin  
systemd-timesync > / > /usr/sbin/nologin  
dhcpcd > /usr/lib/dhcpcd > /bin/false  
messagebus > /nonexistent > /usr/sbin/nologin  
syslog > /nonexistent > /usr/sbin/nologin  
systemd-resolve > / > /usr/sbin/nologin  
uidd > /run/uidd > /usr/sbin/nologin  
usbmux > /var/lib/usbmux > /usr/sbin/nologin  
tss > /var/lib/tpm > /bin/false  
systemd-oom > / > /usr/sbin/nologin  
kernoops > / > /usr/sbin/nologin  
whoopsie > /nonexistent > /bin/false  
dnsmasq > /var/lib/misc > /usr/sbin/nologin  
avahi > /run/avahi-daemon > /usr/sbin/nologin  
tcpdump > /nonexistent > /usr/sbin/nologin  
sssd > /var/lib/sss > /usr/sbin/nologin  
speech-dispatcher > /usr/speech-dispatcher > /bin/false
```

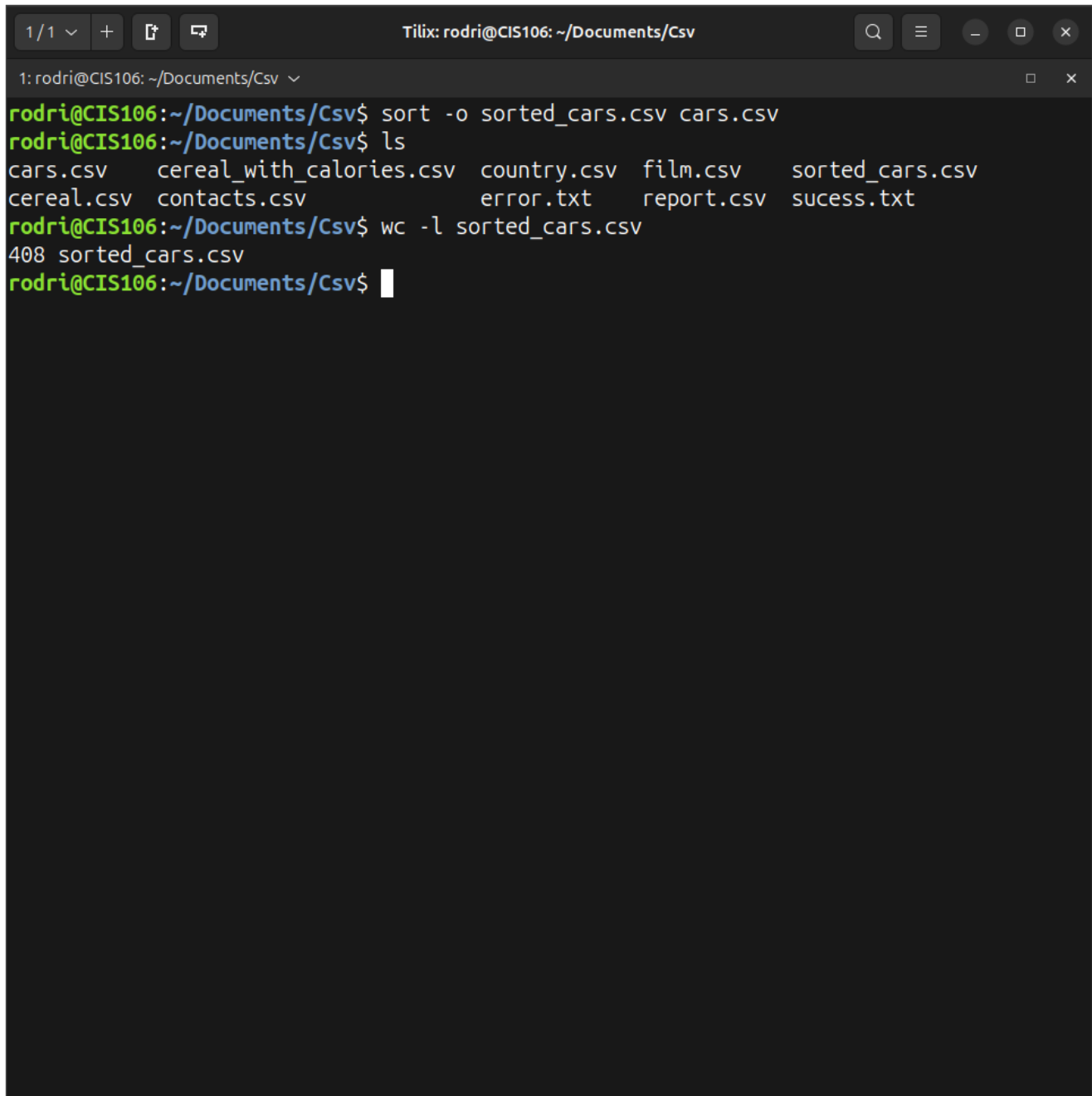
```
Tilix: rodri@CIS106: ~  
1: rodri@CIS106: ~  
rodri@CIS106:~$ cut -d";" -f1,4 --output-delimiter=" calories = " ~/Documents/Csv/cereal.csv  
name calories = calories  
String calories = Int  
100% Bran calories = 70  
100% Natural Bran calories = 120  
All-Bran calories = 70  
All-Bran with Extra Fiber calories = 50  
Almond Delight calories = 110  
Apple Cinnamon Cheerios calories = 110  
Apple Jacks calories = 110  
Basic 4 calories = 130  
Bran Chex calories = 90  
Bran Flakes calories = 90  
Cap'n'Crunch calories = 120  
Cheerios calories = 110  
Cinnamon Toast Crunch calories = 120  
Clusters calories = 110  
Cocoa Puffs calories = 110  
Corn Chex calories = 110  
Corn Flakes calories = 100  
Corn Pops calories = 110  
Count Chocula calories = 110  
Cracklin' Oat Bran calories = 110  
Cream of Wheat (Quick) calories = 100  
Crispix calories = 110  
Crispy Wheat & Raisins calories = 100  
Double Chex calories = 100  
Froot Loops calories = 110  
Frosted Flakes calories = 110  
Frosted Mini-Wheats calories = 100  
Fruit & Fibre Dates, Walnuts, and Oats calories = 120  
Fruitful Bran calories = 120  
Fruity Pebbles calories = 110  
Golden Crisp calories = 100  
Golden Grahams calories = 110
```

Practice 3

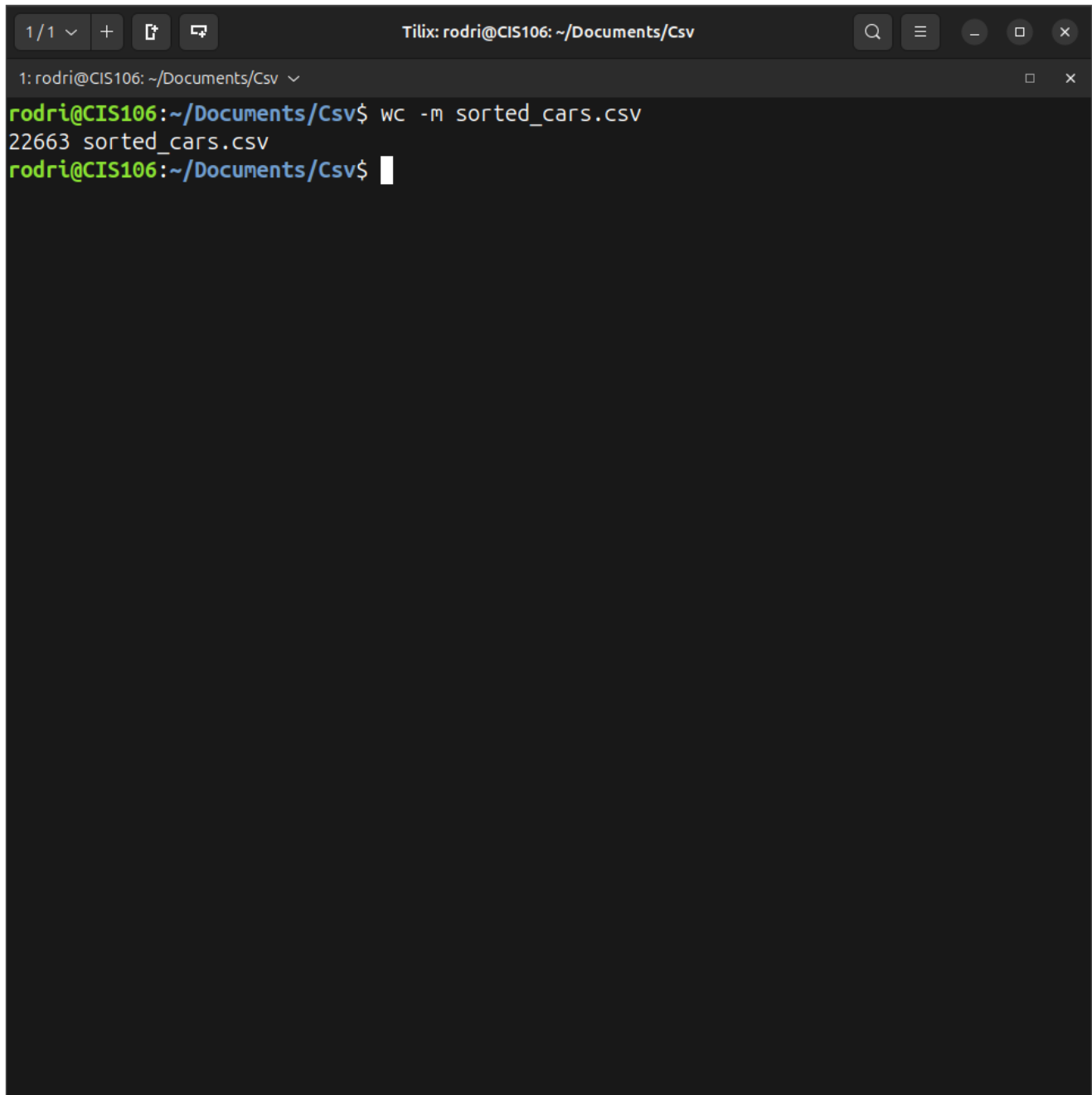

```
Tilix: rodri@CIS106: ~/Documents/Csv
1/1 + [ ] [x]
1: rodri@CIS106: ~/Documents/Csv
rodri@CIS106:~/Documents/Csv$ sort cars.csv
AMC Ambassador Brougham;13.0;8;360.0;175.0;3821.;11.0;73;US
AMC Ambassador DPL;15.0;8;390.0;190.0;3850.;8.5;70;US
AMC Ambassador SST;17.0;8;304.0;150.0;3672.;11.5;72;US
AMC Concord;19.4;6;232.0;90.00;3210.;17.2;78;US
AMC Concord;24.3;4;151.0;90.00;3003.;20.1;80;US
AMC Concord d/l;18.1;6;258.0;120.0;3410.;15.1;78;US
AMC Concord DL;23.0;4;151.0;0;3035.;20.5;82;US
AMC Concord DL 6;20.2;6;232.0;90.00;3265.;18.2;79;US
AMC Gremlin;18.0;6;232.0;100.0;2789.;15.0;73;US
AMC Gremlin;19.0;6;232.0;100.0;2634.;13.0;71;US
AMC Gremlin;20.0;6;232.0;100.0;2914.;16.0;75;US
AMC Gremlin;21.0;6;199.0;90.00;2648.;15.0;70;US
AMC Hornet;18.0;6;199.0;97.00;2774.;15.5;70;US
AMC Hornet;18.0;6;232.0;100.0;2945.;16.0;73;US
AMC Hornet;19.0;6;232.0;100.0;2901.;16.0;74;US
AMC Hornet;22.5;6;232.0;90.00;3085.;17.6;76;US
AMC Hornet Sportabout (sw);18.0;6;258.0;110.0;2962.;13.5;71;US
AMC Matador;14.0;8;304.0;150.0;3672.;11.5;73;US
AMC Matador;15.0;6;258.0;110.0;3730.;19.0;75;US
AMC Matador;15.5;8;304.0;120.0;3962.;13.9;76;US
AMC Matador;16.0;6;258.0;110.0;3632.;18.0;74;US
AMC Matador;18.0;6;232.0;100.0;3288.;15.5;71;US
AMC Matador (sw);14.0;8;304.0;150.0;4257.;15.5;74;US
AMC Matador (sw);15.0;8;304.0;150.0;3892.;12.5;72;US
AMC Pacer;19.0;6;232.0;90.00;3211.;17.0;75;US
AMC Pacer d/l;17.5;6;258.0;95.00;3193.;17.8;76;US
AMC Rebel SST;16.0;8;304.0;150.0;3433.;12.0;70;US
AMC Rebel SST (sw);0;8;360.0;175.0;3850.;11.0;70;US
AMC Spirit DL;27.4;4;121.0;80.00;2670.;15.0;79;US
Audi 100LS;20.0;4;114.0;91.00;2582.;14.0;73;Europe
Audi 100LS;23.0;4;115.0;95.00;2694.;15.0;75;Europe
Audi 100 LS;24.0;4;107.0;90.00;2430.;14.5;70;Europe
Audi 4000;34.3;4;97.00;78.00;2188.;15.8;80;Europe
Audi 5000;20.3;5;131.0;103.0;2830.;15.9;78;Europe
Audi 5000 (disco);26.4;5;121.0;67.00;2050.;10.0;80;Europe
```

```
Tilix: rodri@CIS106: ~/Documents/Csv
1/1 + [ ] [x]
1: rodri@CIS106: ~/Documents/Csv
rodri@CIS106:~/Documents/Csv$ sort -o sorted_cars.csv cars.csv
rodri@CIS106:~/Documents/Csv$ ls
cars.csv      cereal_with_calories.csv  country.csv  film.csv      sorted_cars.csv
cereal.csv    contacts.csv              error.txt    report.csv    sucess.txt
rodri@CIS106:~/Documents/Csv$
```



```
1/1  +  [?] [x]  Tilix: rodri@CIS106: ~/Documents/Csv  [Q] [≡] [–] [□] [x]
1: rodri@CIS106: ~/Documents/Csv  [□] [x]
rodri@CIS106:~/Documents/Csv$ sort -o sorted_cars.csv cars.csv
rodri@CIS106:~/Documents/Csv$ ls
cars.csv    cereal_with_calories.csv  country.csv  film.csv    sorted_cars.csv
cereal.csv  contacts.csv              error.txt    report.csv  sucess.txt
rodri@CIS106:~/Documents/Csv$ wc -l sorted_cars.csv
408 sorted_cars.csv
rodri@CIS106:~/Documents/Csv$
```

A terminal window titled "Tilix: rodri@CIS106: ~/Documents/Csv" with standard window controls. The terminal shows a command prompt where the user runs "wc -m sorted_cars.csv". The output is "22663 sorted_cars.csv". The prompt then returns to "rodri@CIS106:~/Documents/Csv\$".

```
1/1  +  [share] [copy]
Tilix: rodri@CIS106: ~/Documents/Csv
1: rodri@CIS106: ~/Documents/Csv
rodri@CIS106:~/Documents/Csv$ wc -m sorted_cars.csv
22663 sorted_cars.csv
rodri@CIS106:~/Documents/Csv$
```

```

1/1  +  [?] [x]  Tilix: rodri@CIS106: ~/Documents/Csv
1: rodri@CIS106: ~/Documents/Csv  AI [x]
rodri@CIS106:~/Documents/Csv$ cat sorted_cars.csv | tr ';' ' '
AMC Ambassador Brougham,13.0,8,360.0,175.0,3821.,11.0,73,US
AMC Ambassador DPL,15.0,8,390.0,190.0,3850.,8.5,70,US
AMC Ambassador SST,17.0,8,304.0,150.0,3672.,11.5,72,US
AMC Concord,19.4,6,232.0,90.00,3210.,17.2,78,US
AMC Concord,24.3,4,151.0,90.00,3003.,20.1,80,US
AMC Concord d/l,18.1,6,258.0,120.0,3410.,15.1,78,US
AMC Concord DL,23.0,4,151.0,0,3035.,20.5,82,US
AMC Concord DL 6,20.2,6,232.0,90.00,3265.,18.2,79,US
AMC Gremlin,18.0,6,232.0,100.0,2789.,15.0,73,US
AMC Gremlin,19.0,6,232.0,100.0,2634.,13.0,71,US
AMC Gremlin,20.0,6,232.0,100.0,2914.,16.0,75,US
AMC Gremlin,21.0,6,199.0,90.00,2648.,15.0,70,US
AMC Hornet,18.0,6,199.0,97.00,2774.,15.5,70,US
AMC Hornet,18.0,6,232.0,100.0,2945.,16.0,73,US
AMC Hornet,19.0,6,232.0,100.0,2901.,16.0,74,US
AMC Hornet,22.5,6,232.0,90.00,3085.,17.6,76,US
AMC Hornet Sportabout (sw),18.0,6,258.0,110.0,2962.,13.5,71,US
AMC Matador,14.0,8,304.0,150.0,3672.,11.5,73,US
AMC Matador,15.0,6,258.0,110.0,3730.,19.0,75,US
AMC Matador,15.5,8,304.0,120.0,3962.,13.9,76,US
AMC Matador,16.0,6,258.0,110.0,3632.,18.0,74,US
AMC Matador,18.0,6,232.0,100.0,3288.,15.5,71,US
AMC Matador (sw),14.0,8,304.0,150.0,4257.,15.5,74,US
AMC Matador (sw),15.0,8,304.0,150.0,3892.,12.5,72,US
AMC Pacer,19.0,6,232.0,90.00,3211.,17.0,75,US
AMC Pacer d/l,17.5,6,258.0,95.00,3193.,17.8,76,US
AMC Rebel SST,16.0,8,304.0,150.0,3433.,12.0,70,US
AMC Rebel SST (sw),0,8,360.0,175.0,3850.,11.0,70,US
AMC Spirit DL,27.4,4,121.0,80.00,2670.,15.0,79,US
Audi 100LS,20.0,4,114.0,91.00,2582.,14.0,73,Europe
Audi 100LS,23.0,4,115.0,95.00,2694.,15.0,75,Europe
Audi 100 LS,24.0,4,107.0,90.00,2430.,14.5,70,Europe
Audi 4000,34.3,4,97.00,78.00,2188.,15.8,80,Europe
Audi 5000,20.3,5,131.0,103.0,2830.,15.9,78,Europe
Audi 5000 (diesel),36.4,5,131.0,67.00,2050.,10.0,80,Europe

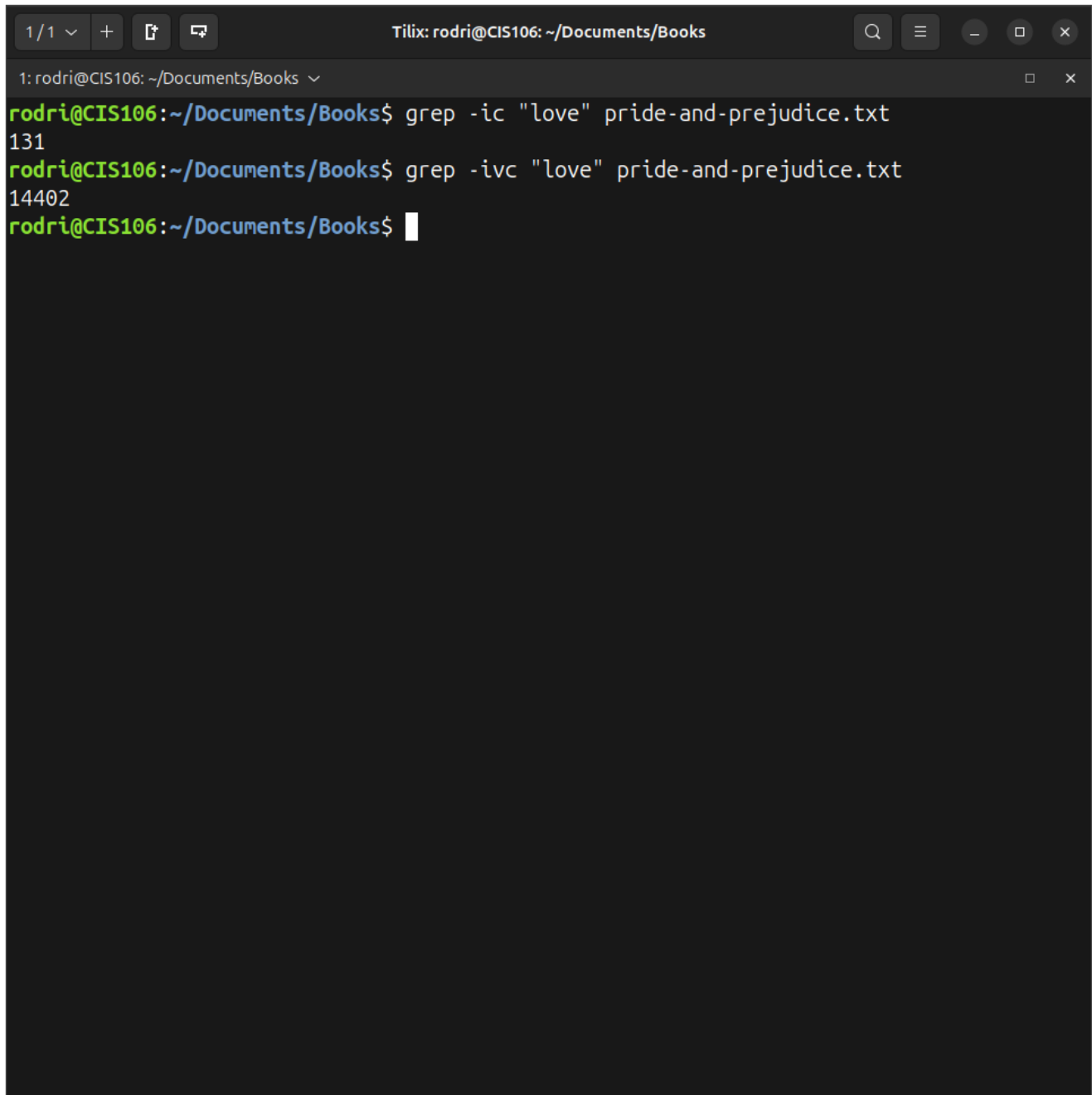
```

Practice 4


```
Tilix: rodri@CIS106: ~/Documents/Books
1/1 + [?] [x]
1: rodri@CIS106: ~/Documents/Books
rodri@CIS106:~/Documents/Books$ grep -in "love" pride-and-prejudice.txt
71:by allowance" and "loving with personal love." This distinction applies
75:to their best work than in the case of those others who are loved "by
77:proper thing to love them. And in the sect--fairly large and yet
125:All the minor passages--the loves of Jane and Bingley, the advent of Mr.
138:aversion to actual love. I do not know whether the all-grasping hand of
368:his falling in love at all is not extremely probable. Here again I
380:injured in disposition, and thoroughly in love. As for his being in
381:love, Elizabeth has given as just an exposition of the causes of that
433:anybody who can read between lines will not find the lovers'
442:ladies with whom it might be a pleasure to fall in love; there are at
446:Grant. I should have been most in love with Beatrix and Argemone; I
547:"So much love and eloquence" 156
728:_may_ fall in love with one of them, and therefore you must visit him as
893:persuade you at last. I was sure you loved your girls too well to
905:for your sakes we would do anything. Lydia, my love, though you _are_
944:dancing was a certain step towards falling in love; and very lively
1387:way to be very much in love; but she considered with pleasure that it
1402:very few of us who have heart enough to be really in love without
1422:in love as much as she chooses."
1629:imagination is very rapid; it jumps from admiration to love, from love
1736:Jane, make haste and tell us; make haste, my love."
2306:brother Gardiner's in town so much in love with her, that my
2313:discovered the efficacy of poetry in driving away love!"
2315:"I have been used to consider poetry as the _food_ of love," said Darcy.
2317:"Of a fine, stout, healthy love it may. Everything nourishes what is
2793:be a great loss to _me_ to have many such acquaintance. I dearly love a
2958:to-day. Lydia, my love, ring the bell. I must speak to Hill this
3297:His plan did not vary on seeing them. Miss Bennet's lovely face
4677:the effects of your loveliness and amiable qualifications. As I must,
4679:shall choose to attribute it to your wish of increasing my love by
4717:successful love; for Mrs. Bennet, having dawdled about in the vestibule
5046:in love with you and wants him to marry Miss Darcy. She follows him to
5054:is not such a simpleton. Could she have seen half as much love in Mr.
5065:of being in love with you, he is very much in love with her friend."
5157:she dared to hope that so much love and eloquence suited her taste
```

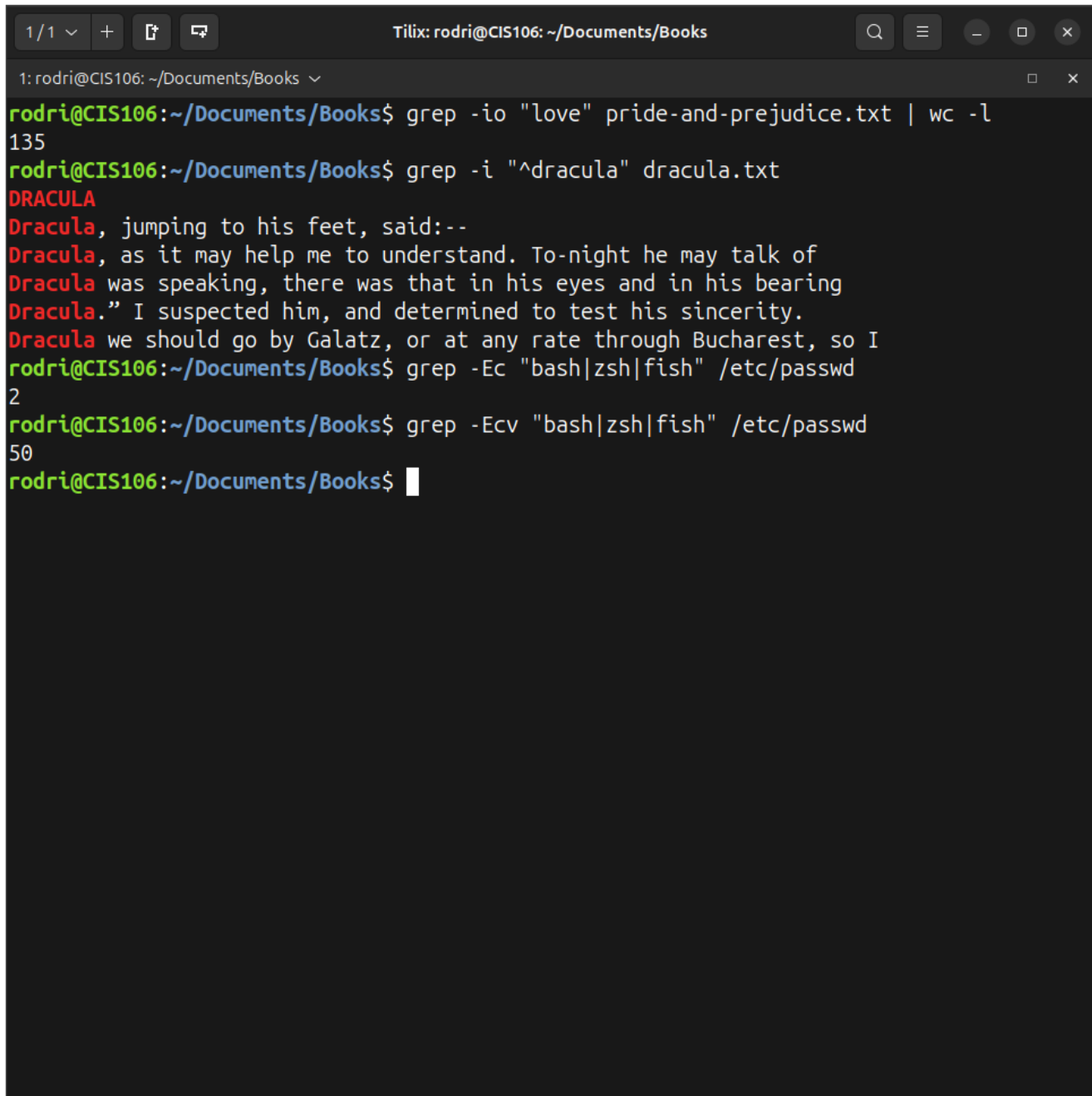
```
Tilix: rodri@CIS106: ~/Documents/Books
1/1 + [?] [x]
1: rodri@CIS106: ~/Documents/Books
rodri@CIS106:~/Documents/Books$ grep -ic "love" pride-and-prejudice.txt
131
rodri@CIS106:~/Documents/Books$
```





A terminal window titled "Tilix: rodri@CIS106: ~/Documents/Books" with standard window controls. The terminal shows the following commands and output:

```
1: rodri@CIS106: ~/Documents/Books ▾  
rodri@CIS106:~/Documents/Books$ grep -ic "love" pride-and-prejudice.txt  
131  
rodri@CIS106:~/Documents/Books$ grep -ivc "love" pride-and-prejudice.txt  
14402  
rodri@CIS106:~/Documents/Books$
```

```
1/1 + [?] [x] Tilix: rodri@CIS106: ~/Documents/Books
1: rodri@CIS106: ~/Documents/Books
rodri@CIS106:~/Documents/Books$ grep -io "love" pride-and-prejudice.txt | wc -l
135
rodri@CIS106:~/Documents/Books$ grep -i "^dracula" dracula.txt
DRACULA
Dracula, jumping to his feet, said:--
Dracula, as it may help me to understand. To-night he may talk of
Dracula was speaking, there was that in his eyes and in his bearing
Dracula." I suspected him, and determined to test his sincerity.
Dracula we should go by Galatz, or at any rate through Bucharest, so I
rodri@CIS106:~/Documents/Books$ grep -Ec "bash|zsh|fish" /etc/passwd
2
rodri@CIS106:~/Documents/Books$ grep -Ecv "bash|zsh|fish" /etc/passwd
50
rodri@CIS106:~/Documents/Books$
```