

Week Report 7

Work completed for week 7

*lab7 *notes5

Practice 1

```
1 / 1 + ⌂ ⌂ Tilix: tpmcgovern@CIS-106: ~ Q ⌂ ⌂ x  
1: tpmcgovern@CIS-106: ~ ▾  
  
:tpmcgovern@CIS-106:~$ 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:/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  
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin  
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin  
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin  
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin  
messagebus:x:102:105::/nonexistent:/usr/sbin/nologin
```

```
1 / 1 + ⌂ ⌂ Tilix: tpmcgovern@CIS-106: ~ Q ⌂ ⌂ x  
1: tpmcgovern@CIS-106: ~ ▾  
  
:tpmcgovern@CIS-106:~$ tac /etc/passwd  
lightdm:x:130:139:Light Display Manager:/var/lib/lightdm:/bin/false  
flatpak:x:129:138:Flatpak system-wide installation helper,,,:/nonexistent:/usr/sbin/nologin  
vboxadd:x:999:1::/var/run/vboxadd:/bin/false  
tpmcgovern:x:1000:1000:tpmcgovern,,,:/home/tpmcgovern:/bin/bash  
gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false  
hplip:x:127:7:HPLIP system user,,,:/run/hplip:/bin/false  
gnome-initial-setup:x:126:65534::/run/gnome-initial-setup/:/bin/false  
pulse:x:125:132:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin  
geoclue:x:124:131::/var/lib/geoclue:/usr/sbin/nologin  
colord:x:123:130:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nologin  
saned:x:122:129::/var/lib/saned:/usr/sbin/nologin  
nm-openvpn:x:121:127:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin/nologin  
fwupd-refresh:x:120:126:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin  
speech-dispatcher:x:119:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/false  
sssd:x:118:125:sssd system user,,,:/var/lib/sssd:/usr/sbin/nologin  
whoopsie:x:117:124::/nonexistent:/bin/false  
rtkit:x:116:123:RealtimeKit,,,:/proc:/usr/sbin/nologin  
cups-pk-helper:x:115:122:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin
```

```
1/1 + ⌂ ⌂ Tilix: tpmcgovern@CIS-106: ~ Q ⌂ ⌂ x  
1:tpmcgovern@CIS-106:~ $ 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 gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin$  
18 nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin$  
19 systemd-network:x:100:102:systemd Network Management,,,,:/run/systemd:/usr/sbin/nologin$  
20 systemd-resolve:x:101:103:systemd Resolver,,,,:/run/systemd:/usr/sbin/nologin$
```

```
1/1 + ⌂ ⌂ ⌂ Tilix: tpmcgovern@CIS-106: ~ Q ⌂ ⌂ x  
1:tpmcgovern@CIS-106:~ $ 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  
tpmcgovern@CIS-106:~ $ tail -5 /etc/passwd  
gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false  
tpmcgovern:x:1000:1000:tpmcgovern,,,,:/home/tpmcgovern:/bin/bash  
vboxadd:x:999:1::/var/run/vboxadd:/bin/false  
flatpak:x:129:138:Flatpak system-wide installation helper,,,,:/nonexistent:/sbin/nologin  
lightdm:x:130:139:Light Display Manager:/var/lib/lightdm:/bin/false  
tpmcgovern@CIS-106:~ $ tail -1 /etc/passwd  
Lightdm:x:130:139:Light Display Manager:/var/lib/lightdm:/bin/false  
tpmcgovern@CIS-106:~ $ head -1 /etc/passwd  
root:x:0:0:root:/root:/bin/bash  
tpmcgovern@CIS-106:~ $
```

```
1 / 1 + ⌂ ⌂ Tilix: tpmcgovern@CIS-106: ~ Q ⌂ - ⌂ 1: tpmcgovern@CIS-106: ~ ▾  
15823 Section 5. General Information About Project Gutenberg™ electronic  
15824  
15825 Professor Michael S. Hart was the originator of the Project  
15826 Gutenberg™ concept of a library of electronic works that could be  
15827 freely shared with anyone. For forty years, he produced and  
15828 distributed Project Gutenberg™ eBooks with only a loose network of  
15829 volunteer support.  
15830  
15831 Project Gutenberg™ eBooks are often created from several printed  
15832 editions, all of which are confirmed as not protected by copyright  
15833 the U.S. unless a copyright notice is included. Thus, we do not  
15834 necessarily keep eBooks in compliance with any particular paper  
15835 edition.  
15836  
15837 Most people start at our website which has the main PG search  
15838 facility: www.gutenberg.org.  
15839  
15840 This website includes information about Project Gutenberg™,  
15841 including how to make donations to the Project Gutenberg Literary  
15842 Archive Foundation, how to help produce our new eBooks, and how to  
15843 subscribe to our email newsletter to hear about new eBooks.  
15844  
15845  
tpmcgovern@CIS-106:~$ cat -n ~/Documents/Books/dracula.txt |
```

Practice 2

```
1/1 + ⌂ ⌂ Tilix: tpmcgovern@CIS-106: ~ Q Ⓝ  
1: tpmcgovern@CIS-106: ~ ▾  
  
avahi-autoipd  
usbmux  
dnsmasq  
kernoops  
avahi  
cups-pk-helper  
rtkit  
whoopsie  
sssd  
speech-dispatcher  
fwupd-refresh  
nm-openvpn  
saned  
colord  
geoclue  
pulse  
gnome-initial-setup  
hplip  
gdm  
tpmcgovern  
vboxadd  
flatpak  
lightdm  
tpmcgovern@CIS-106:~$ cut -d":" -f1 /etc/passwd
```

```
1/1 + ⌂ ⌂ Tilix: tpmcgovern@CIS-106: ~ Q Ⓝ -  
1: tpmcgovern@CIS-106: ~ ▾  
  
avahi-autoipd:/var/lib/avahi-autoipd  
usbmux:/var/lib/usbmux  
dnsmasq:/var/lib/misc  
kernoops:/  
avahi:/run/avahi-daemon  
cups-pk-helper:/home/cups-pk-helper  
rtkit:/proc  
whoopsie:/nonexistent  
sssd:/var/lib/sssd  
speech-dispatcher:/run/speech-dispatcher  
fwupd-refresh:/run/systemd  
nm-openvpn:/var/lib/openvpn/chroot  
saned:/var/lib/saned  
colord:/var/lib/colord  
geoclue:/var/lib/geoclue  
pulse:/run/pulse  
gnome-initial-setup:/run/gnome-initial-setup/  
hplip:/run/hplip  
gdm:/var/lib/gdm3  
tpmcgovern:/home/tpmcgovern  
vboxadd:/var/run/vboxadd  
flatpak:/nonexistent  
lightdm:/var/lib/lightdm
```

```
tpmcgovern@CIS-106:~$ cut -d":" -f1,6 /etc/passwd
```

```
1: tpmcgovern@CIS-106: ~  
avahi-autoipd>/var/lib/avahi-autoipd>/usr/sbin/nologin  
usbmux>/var/lib/usbmux>/usr/sbin/nologin  
dnsmasq>/var/lib/misc>/usr/sbin/nologin  
kernooops>/>/usr/sbin/nologin  
avahi>/run/avahi-daemon>/usr/sbin/nologin  
cups-pk-helper>/home/cups-pk-helper>/usr/sbin/nologin  
rtkit>/proc>/usr/sbin/nologin  
whoopsie>/nonexistent>/bin/false  
sssd>/var/lib/sssd>/usr/sbin/nologin  
speech-dispatcher>/run/speech-dispatcher>/bin/false  
fwupd-refresh>/run/systemd>/usr/sbin/nologin  
nm-openvpn>/var/lib/openvpn/chroot>/usr/sbin/nologin  
saned>/var/lib/saned>/usr/sbin/nologin  
colord>/var/lib/colord>/usr/sbin/nologin  
geoclue>/var/lib/geoclue>/usr/sbin/nologin  
pulse>/run/pulse>/usr/sbin/nologin  
gnome-initial-setup>/run/gnome-initial-setup/>/bin/false  
hplip>/run/hplip>/bin/false  
gdm>/var/lib/gdm3>/bin/false  
tpmcgovern>/home/tpmcgovern>/bin/bash  
vboxadd>/var/run/vboxadd>/bin/false  
_flatpak>/nonexistent>/usr/sbin/nologin  
lightdm>/var/lib/lightdm>/bin/false  
tpmcgovern@CIS-106:~$ cut -d":" -f1,6,7 --output-delimiter=">" /etc/passwd
```

```
1 / 1 + ⌂ ⌂ Tilix: tpmcgovern@CIS-106: ~ Q Ⓝ -  
1:tpmcgovern@CIS-106: ~ ▾  
Puffed Rice  
Puffed Wheat  
Quaker Oat Squares  
Quaker Oatmeal  
Raisin Bran  
Raisin Nut Bran  
Raisin Squares  
Rice Chex  
Rice Krispies  
Shredded Wheat  
Shredded Wheat 'n'Bran  
Shredded Wheat spoon size  
Smacks  
Special K  
Strawberry Fruit Wheats  
Total Corn Flakes  
Total Raisin Bran  
Total Whole Grain  
Triples  
Trix  
Wheat Chex  
Wheaties  
Wheaties Honey Gold  
tpmcgovern@CIS-106:~$ cut -d";" -f1 ~/Documents/Csv/cereal.csv |
```

```
1 / 1 + ⌂ ⌂ Tilix: tpmcgovern@CIS-106: ~ Q Ⓝ - Ⓛ Ⓜ  
1:tpmcgovern@CIS-106: ~ ▾  
:/usr/sbin/nologin  
rtkit:x:116:123:RealtimeKit,,,:/proc:/usr/sbin/nologin  
whoopsie:x:117:124::/nonexistent:/bin/false  
sssd:x:118:125:SSSD system user,,,:/var/lib/sss:/usr/sbin/nologin  
speech-dispatcher:x:119:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/f  
e  
fwupd-refresh:x:120:126:fwupd-refresh user,,,:/run/systemd:/usr/sbin/nologin  
nm-openvpn:x:121:127:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/s  
/nologin  
saned:x:122:129::/var/lib/saned:/usr/sbin/nologin  
colord:x:123:130:colord colour management daemon,,,:/var/lib/colord:/usr/sbin  
login  
geoclue:x:124:131::/var/lib/geoclue:/usr/sbin/nologin  
pulse:x:125:132:PulseAudio daemon,,,:/run/pulse:/usr/sbin/nologin  
gnome-initial-setup:x:126:65534::/run/gnome-initial-setup:/bin/false  
hplip:x:127:7:HPLIP system user,,,:/run/hplip:/bin/false  
gdm:x:128:134:Gnome Display Manager:/var/lib/gdm3:/bin/false  
tpmcgovern:x:1000:1000:tpmcgovern,,,:/home/tpmcgovern:/bin/bash  
vboxadd:x:999:1::/var/run/vboxadd:/bin/false  
_flatpak:x:129:138:Flatpak system-wide installation helper,,,:/nonexistent:/u  
sbin/nologin  
lightdm:x:130:139:Light Display Manager:/var/lib/lightdm:/bin/false  
tpmcgovern@CIS-106:~$ cut -d";" -f1,4 --output-delimiter=" calories = " /etc/  
swd|
```

Practice 3

```
1 / 1 + ⌂ ⌂ Tilix: tpmcgovern@CIS-106: ~ 🔍 Ⓛ -  
1: tpmcgovern@CIS-106: ~  
  
Volkswagen Jetta;33.0;4;105.0;74.00;2190.;14.2;81;Europe  
Volkswagen Model 111;27.0;4;97.00;60.00;1834.;19.0;71;Europe  
Volkswagen Pickup;44.0;4;97.00;52.00;2130.;24.6;82;Europe  
Volkswagen Rabbit;29.0;4;90.00;70.00;1937.;14.0;75;Europe  
Volkswagen Rabbit;29.0;4;90.00;70.00;1937.;14.2;76;Europe  
Volkswagen Rabbit;29.5;4;97.00;71.00;1825.;12.2;76;Europe  
Volkswagen Rabbit;29.8;4;89.00;62.00;1845.;15.3;80;Europe  
Volkswagen Rabbit;41.5;4;98.00;76.00;2144.;14.7;80;Europe  
Volkswagen Rabbit C (Diesel);44.3;4;90.00;48.00;2085.;21.7;80;Europe  
Volkswagen Rabbit Custom;29.0;4;97.00;78.00;1940.;14.5;77;Europe  
Volkswagen Rabbit Custom;31.9;4;89.00;71.00;1925.;14.0;79;Europe  
Volkswagen Rabbit Custom Diesel;43.1;4;90.00;48.00;1985.;21.5;78;Europe  
Volkswagen Rabbit l;36.0;4;105.0;74.00;1980.;15.3;82;Europe  
Volkswagen Scirocco;31.5;4;89.00;71.00;1990.;14.9;78;Europe  
Volkswagen Super Beetle 117;0;4;97.00;48.00;1978.;20.0;71;Europe  
Volkswagen Super Beetle;26.0;4;97.00;46.00;1950.;21.0;73;Europe  
Volkswagen Type 3;23.0;4;97.00;54.00;2254.;23.5;72;Europe  
Volvo 144ea;19.0;4;121.0;112.0;2868.;15.5;73;Europe  
Volvo 145e (sw);18.0;4;121.0;112.0;2933.;14.5;72;Europe  
Volvo 244DL;22.0;4;121.0;98.00;2945.;14.5;75;Europe  
Volvo 245;20.0;4;130.0;102.0;3150.;15.7;76;Europe  
Volvo 264gl;17.0;6;163.0;125.0;3140.;13.6;78;Europe  
Volvo Diesel;30.7;6;145.0;76.00;3160.;19.6;81;Europe  
tpmcgovern@CIS-106:~$ sort ~/Documents/Csv/cars.csv|
```

```
1 / 1 + ⌂ ⌂ ...mcgovern@CIS-106: ~/Documents/Csv 🔍 Ⓛ - ⚡  
1: tpmcgovern@CIS-106: ~/Documents/Csv  
  
tpmcgovern@CIS-106:~$ cd ~/Documents/Csv/ && sort -o sorted_cars.csv cars.csv  
tpmcgovern@CIS-106:~/Documents/Csv$ wc -l sorted_cars.csv  
408 sorted_cars.csv  
tpmcgovern@CIS-106:~/Documents/Csv$ wc -m sorted_cars.csv  
22663 sorted_cars.csv
```

```
1: tpmcgovern@CIS-106: ~/Documents/Csv
Volkswagen Jetta,33.0,4,105.0,74.00,2190.,14.2,81,Europe
Volkswagen Model 111,27.0,4,97.00,60.00,1834.,19.0,71,Europe
Volkswagen Pickup,44.0,4,97.00,52.00,2130.,24.6,82,Europe
Volkswagen Rabbit,29.0,4,90.00,70.00,1937.,14.0,75,Europe
Volkswagen Rabbit,29.0,4,90.00,70.00,1937.,14.2,76,Europe
Volkswagen Rabbit,29.5,4,97.00,71.00,1825.,12.2,76,Europe
Volkswagen Rabbit,29.8,4,89.00,62.00,1845.,15.3,80,Europe
Volkswagen Rabbit,41.5,4,98.00,76.00,2144.,14.7,80,Europe
Volkswagen Rabbit C (Diesel),44.3,4,90.00,48.00,2085.,21.7,80,Europe
Volkswagen Rabbit Custom,29.0,4,97.00,78.00,1940.,14.5,77,Europe
Volkswagen Rabbit Custom,31.9,4,89.00,71.00,1925.,14.0,79,Europe
Volkswagen Rabbit Custom Diesel,43.1,4,90.00,48.00,1985.,21.5,78,Europe
Volkswagen Rabbit l,36.0,4,105.0,74.00,1980.,15.3,82,Europe
Volkswagen Scirocco,31.5,4,89.00,71.00,1990.,14.9,78,Europe
Volkswagen Super Beetle 117,0,4,97.00,48.00,1978.,20.0,71,Europe
Volkswagen Super Beetle,26.0,4,97.00,46.00,1950.,21.0,73,Europe
Volkswagen Type 3,23.0,4,97.00,54.00,2254.,23.5,72,Europe
Volvo 144ea,19.0,4,121.0,112.0,2868.,15.5,73,Europe
Volvo 145e (sw),18.0,4,121.0,112.0,2933.,14.5,72,Europe
Volvo 244DL,22.0,4,121.0,98.00,2945.,14.5,75,Europe
Volvo 245,20.0,4,130.0,102.0,3150.,15.7,76,Europe
Volvo 264gl,17.0,6,163.0,125.0,3140.,13.6,78,Europe
Volvo Diesel,30.7,6,145.0,76.00,3160.,19.6,81,Europe
tpmcgovern@CIS-106:~/Documents/Csv$ cat sorted_cars.csv | tr ';' ','
```