

Week report 7

Practice 1

```
1/1  +  [T] [C]  Tilix: jgc@cis106: ~  [Q] [≡] [–] [□] [×]
1:jgc@cis106: ~  [□] [×]
jgc@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:997:997:systemd Time Synchronization:/:/usr/sbin/nologin
dhcpcd:x:100:65534:DHCP Client Daemon,,,:/usr/lib/dhcpcd:/bin/false
messagebus:x:101:102:/nonexistent:/usr/sbin/nologin
systemd-resolve:x:992:992:systemd Resolver:/:/usr/sbin/nologin
```

```
1/1  +  [copy] [paste]  Tilix: jgc@cis106: ~  [search] [menu] [back] [forward] [close]
1:jgc@cis106: ~  [close]
jgc@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:997:997:systemd Time Synchronization:/:/usr/sbin/nolo
gin$
21 dhcpcd:x:100:65534:DHCP Client Daemon,,,:/usr/lib/dhcpcd:/bin/false$
```

```
1/1  +  [T] [C]  Tilix: jgc@cis106: ~  [Q] [≡] [−] [□] [X]
1:jgc@cis106: ~  □ X
15823 Section 5. General Information About Project Gutenberg™ electronic works
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
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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
jgc@cis106:~$ █
jgc@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
jgc@cis106:~$ █
```

```
Tilix: jgc@cis106: ~  
1: jgc@cis106: ~  
jgc@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:125:125:Flatpak system-wide installation helper,,,:/nonexistent:/usr/  
sbin/nologin  
gdm:x:124:124:Gnome Display Manager:/var/lib/gdm3:/bin/false  
gnome-initial-setup:x:123:65534::/run/gnome-initial-setup:/bin/false  
gnome-remote-desktop:x:987:987:GNOME Remote Desktop:/var/lib/gnome-remote-deskto  
p:/usr/sbin/nologin  
hplip:x:122:7:HPLIP system user,,,:/run/hplip:/bin/false  
cups-browsed:x:121:121::/nonexistent:/usr/sbin/nologin  
geoclue:x:120:122::/var/lib/geoclue:/usr/sbin/nologin  
cups-pk-helper:x:119:121:user for cups-pk-helper service,,,:/nonexistent:/usr/sb  
in/nologin  
speech-dispatcher:x:118:29:Speech Dispatcher,,,:/run/speech-dispatcher:/bin/fals  
e  
sssd:x:117:120:SSSD system user,,,:/var/lib/sss:/usr/sbin/nologin  
colord:x:116:119:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/no  
login  
saned:x:115:118::/var/lib/saned:/usr/sbin/nologin  
avahi:x:114:117:Avahi mDNS daemon,,,:/run/avahi-daemon:/usr/sbin/nologin  
nm-openvpn:x:113:115:NetworkManager OpenVPN,,,:/var/lib/openvpn/chroot:/usr/sbin  
/nologin  
whoopsie:x:112:112::/nonexistent:/bin/false
```

```
Tilix: jgc@cis106: ~  
1: jgc@cis106: ~  
jgc@cis106:~$ tail -1 /etc/passwd  
snap_daemon:x:584788:584788::/nonexistent:/usr/bin/false  
jgc@cis106:~$ head -1 /etc/passwd  
root:x:0:0:root:/root:/bin/bash  
jgc@cis106:~$ █
```

```
jgc@cis106:~$ tail -5 /etc/passwd  
gnome-initial-setup:x:123:65534::/run/gnome-initial-setup:/bin/false  
gdm:x:124:124:Gnome Display Manager:/var/lib/gdm3:/bin/false  
_flatpak:x:125:125: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  
jgc@cis106:~$ █
```

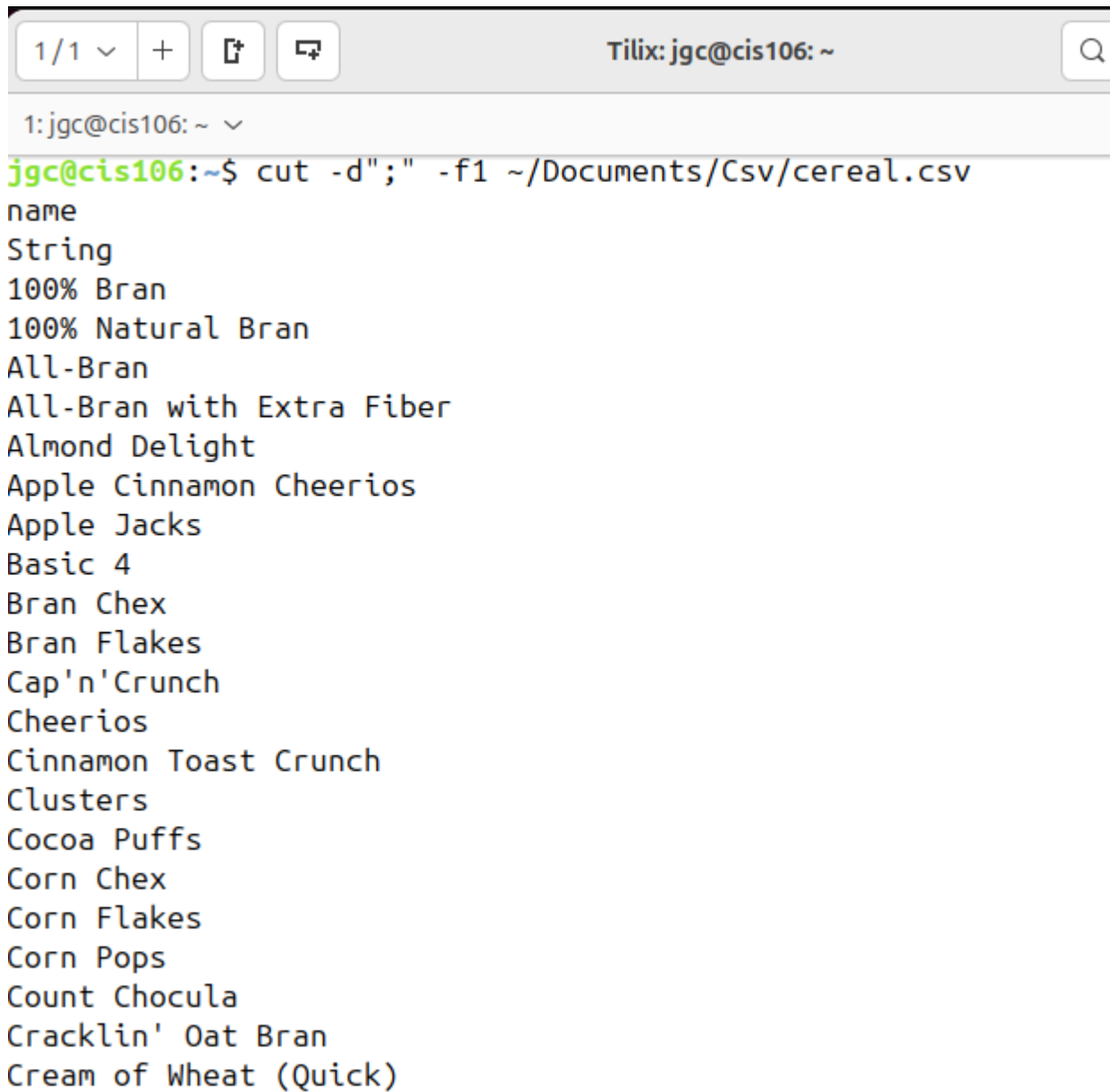
Practice 2

```
1/1  +  [icon] [icon]  Tilix: jgc@cis106: ~  
1:jgc@cis106: ~  v  
jgc@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  
systemd-resolve
```

```
1/1 ▾ + [🔍] [🔄] Tilix: jgc@cis106: ~  
1:jgc@cis106: ~ ▾  
jgc@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  
systemd-resolve:/
```



```
1/1  +  [?] [?]  Tilix: jgc@cis106: ~  [Q] [≡] [–] [□]
1:jgc@cis106: ~  [□]
jgc@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
dhcpd > /usr/lib/dhcpd > /bin/false
messagebus > /nonexistent > /usr/sbin/nologin
systemd-resolve > / > /usr/sbin/nologin
```

A terminal window titled "Tilix: jgc@cis106: ~" with a search icon in the top right. The terminal shows a command being executed: `1:jgc@cis106: ~$ cut -d";" -f1 ~/Documents/Csv/cereal.csv`. The output is a list of cereal names, each on a new line.

```
1:jgc@cis106: ~$ cut -d";" -f1 ~/Documents/Csv/cereal.csv
name
String
100% Bran
100% Natural Bran
All-Bran
All-Bran with Extra Fiber
Almond Delight
Apple Cinnamon Cheerios
Apple Jacks
Basic 4
Bran Chex
Bran Flakes
Cap'n'Crunch
Cheerios
Cinnamon Toast Crunch
Clusters
Cocoa Puffs
Corn Chex
Corn Flakes
Corn Pops
Count Chocula
Cracklin' Oat Bran
Cream of Wheat (Quick)
```

```
1/1 + [Tilix: jgc@cis106: ~]
1:jgc@cis106: ~
Wheaties Honey Gold
jgc@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

;
```

Practice 3

 alt text

```
1/1  +  [Share]  [Copy]  Tilix: jgc@cis106: ~  
1:jgc@cis106: ~  
jgc@cis106:~$ sort ~/Documents/Csv/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
```