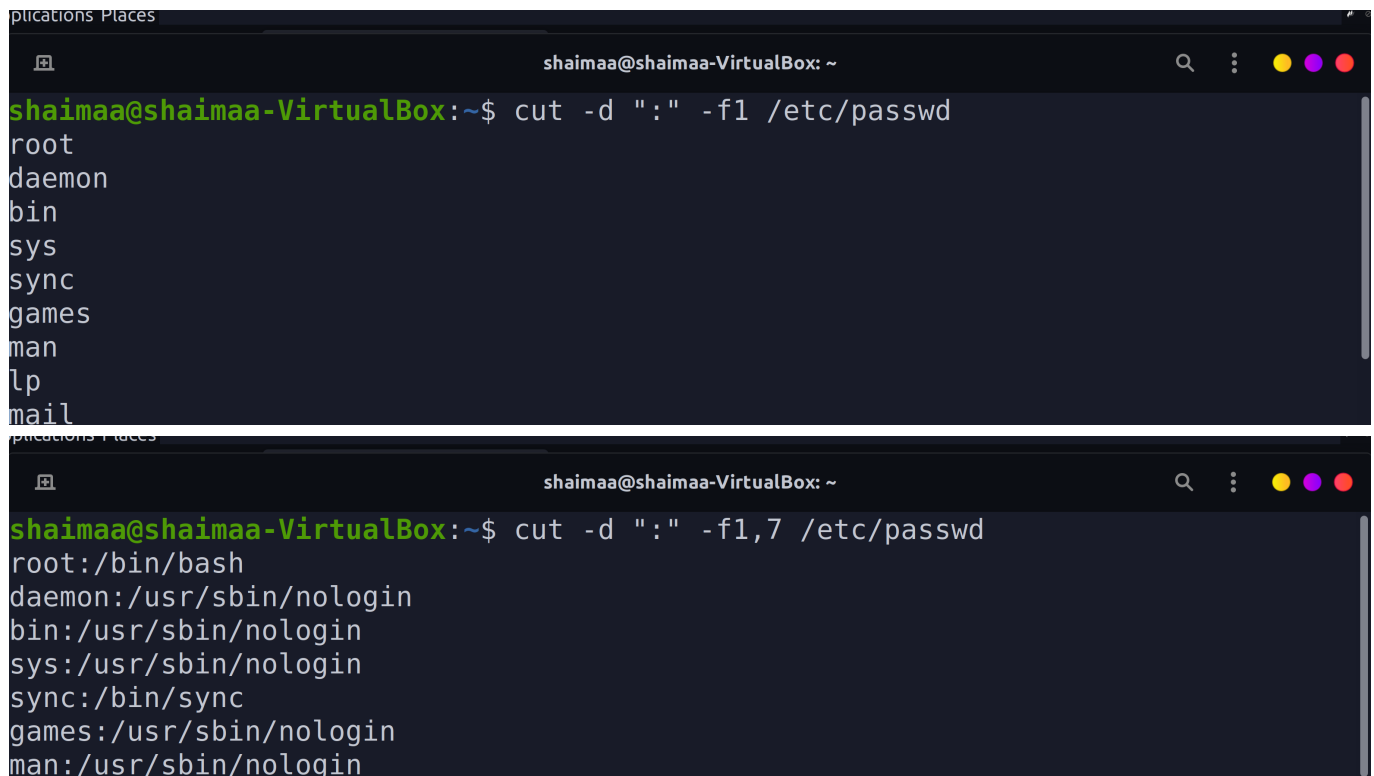


Lab 7 - Handling Files

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- Class: CIS106
- Semester: Sp 2022

Question 2: cut



The image shows two terminal windows from a VirtualBox environment. The first terminal window shows the command `cut -d ":" -f1 /etc/passwd` being executed, which outputs the first field of each line in `/etc/passwd`, listing system users: root, daemon, bin, sys, sync, games, man, lp, and mail. The second terminal window shows the command `cut -d ":" -f1,7 /etc/passwd` being executed, which outputs the first and seventh fields (username and shell) for the same users: root:/bin/bash, daemon:/usr/sbin/nologin, bin:/usr/sbin/nologin, sys:/usr/sbin/nologin, sync:/bin/sync, games:/usr/sbin/nologin, and man:/usr/sbin/nologin.

```
shaimaa@shaimaa-VirtualBox: ~$ cut -d ":" -f1 /etc/passwd
root
daemon
bin
sys
sync
games
man
lp
mail

shaimaa@shaimaa-VirtualBox: ~$ cut -d ":" -f1,7 /etc/passwd
root:/bin/bash
daemon:/usr/sbin/nologin
bin:/usr/sbin/nologin
sys:/usr/sbin/nologin
sync:/bin/sync
games:/usr/sbin/nologin
man:/usr/sbin/nologin
```

```

shaimaa@shaimaa-VirtualBox: ~$ cut -d ":" -f1,1001 /etc/passwd
root
daemon
bin
sys
sync
games
man
lp
mail
news
uucp

```

```

shaimaa@shaimaa-VirtualBox: ~$ cut -d ":" -f1,5 /etc/passwd
root:root
daemon:daemon
bin:bin
sys:sys
sync:sync
games:games
man:man
lp:lp
mail:mail
news:news
uucp:uucp

```

Question 3 Paste, wc

```

shaimaa@shaimaa-VirtualBox: ~$ curl -s https://cis106.com/assets/shopping.md -o shopping.md
shaimaa@shaimaa-VirtualBox: ~$ curl -s https://cis106.com/assets/tasks.md -o tasks.md
shaimaa@shaimaa-VirtualBox: ~$ ls
challenge-Lab6  directory  lab6-q5  q5.3.png  tasks.md  Videos
cis106-sp22    Documents  Music    shopping.md  Templates  Wallpapers
Desktop        lab6       Public   snap       untitled
shaimaa@shaimaa-VirtualBox: ~$ paste shopping.md tasks.md
## Shopping      ## Tasks
1. Apples:       1. Do Laundry:
2. Meat:         2. Cook lunch:
3. Bread:        3. Clean room:
shaimaa@shaimaa-VirtualBox: ~$ wc Documents/Books/dracula.txt
15860 164386 881251 Documents/Books/dracula.txt
shaimaa@shaimaa-VirtualBox: ~$ sort /etc/passwd
apt:x:105:65534::/nonexistent:/usr/sbin/nologin
avahi-autoipd:x:109:116:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologin

```

Question 4 tr, grep

```

shaimaa@shaimaa-VirtualBox: ~$ la Documents/Csv/
cars.csv cereal.csv contacts.csv country.csv film.csv
shaimaa@shaimaa-VirtualBox: ~$ cat Documents/Csv/cereal.csv |tr ';' ' '
name;mfr;type;calories;protein;fat;sodium;fiber;carbo;sugars;potass;vitamins;shelf;weight;cups;rating
String;Categorical;Categorical;Int;Int;Int;Int;Int;Float;Float;Int;Int;Int;Int;Float;Float
100% Bran;N;C;70;4;1;130;10;5;6;280;25;3;1;0.33;68.402973
100% Natural Bran;0;C;120;3;5;15;2;8;8;135;0;3;1;1;33.983679
All-Bran;K;C;70;4;1;260;9;7;5;320;25;3;1;0.33;59.425505
All-Bran with Extra Fiber;K;C;50;4;0;140;14;8;0;330;25;3;1;0.5;93.704912
Almond Delight;R;C;110;2;2;200;1;14;8;-1;25;3;1;0.75;34.384843
Apple Cinnamon Cheerios;G;C;110;2;2;180;1.5;10.5;10;70;25;1;1;0.75;29.509541
Apple Jacks;K;C;110;2;0;125;1;11;14;30;25;2;1;1;33.174094

```

```

shaimaa@shaimaa-VirtualBox: ~/Documents/Books$ grep -i "love" pride-and-prejudice.txt
to love each other even as well as they intended. Georgiana had
Darcy, as well as Elizabeth, really loved them; and they were
shaimaa@shaimaa-VirtualBox: ~/Documents/Books$ grep -i "love" pride-and-prejudice.txt
that he _may_ fall in love with one of them, and therefore you
persuade you at last. I was sure you loved your girls too well to
anything. Lydia, my love, though you _are_ the youngest, I dare
be fond of dancing was a certain step towards falling in love;
first, and was in a way to be very much in love; but she
who have heart enough to be really in love without encouragement.
secure of him, there will be leisure for falling in love as
love from love to matrimony in a moment I knew you would be

```

```

shaimaa@shaimaa-VirtualBox: ~/Documents/Books$ grep -Ew "love|hate" war-and-peace.txt
"Because I hate ghost stories," said Prince Hippolyte in a tone
not love liberty and equality? Even our Saviour preached liberty and
and until you have ceased to love the woman of your choice and have seen
"And she's in love with Boris already. Just fancy!" said the
"Natasha," he said, "you know that I love you, but..."
"You are in love with me?" Natasha broke in.
It was pleasant and touching to see these little girls in love; but
"Ah, my love," answered Anna Mikháylovna, "God grant you never
know what it is to be left a widow without means and with a son you love
kind relation. But, Nataly, you know my love for my son: I would do

```

```

shaimaa@shaimaa-VirtualBox: ~/Documents/Books$ grep -ni "love" war-and-peace.txt
1266:she moved toward Anna Pávlovna. Hélène was so lovely that not only
1271:"How lovely!" said everyone who saw her; and the vicomte lifted his
1448:"Very lovely," said Prince Andrew.
1725:not love liberty and equality? Even our Saviour preached liberty and
2155:and until you have ceased to love the woman of your choice and have seen
64088:executions resulting from the preaching of love.
shaimaa@shaimaa-VirtualBox: ~/Documents/Books$ grep -n "l|[A-Z]" war-and-peace.txt
shaimaa@shaimaa-VirtualBox: ~/Documents/Books$ grep -n "l|[A-Z]" war-and-peace.txt
shaimaa@shaimaa-VirtualBox: ~/Documents/Books$

```

Question 5 awk and sed

```
shaimaa@shaimaa-VirtualBox: ~/Documents/Csv
shaimaa@shaimaa-VirtualBox:~/Documents/Books$ cd ../Csv/
shaimaa@shaimaa-VirtualBox:~/Documents/Csv$ ls
cars.csv cereal.csv contacts.csv country.csv film.csv
shaimaa@shaimaa-VirtualBox:~/Documents/Csv$ awk '{print $1}' cars.csv
Car;MPG;Cylinders;Displacement;Horsepower;Weight;Acceleration;Model;Origin
STRING;DOUBLE;INT;DOUBLE;DOUBLE;DOUBLE;DOUBLE;INT;CAT
Chevrolet
Buick
Plymouth
Porsche
Volvo
shaimaa@shaimaa-VirtualBox:~/Documents/Csv$ awk -F ":" '{OFS=" made on"}{print $1,SNF}' cars.csv
awk: line 1: syntax error at or near {
shaimaa@shaimaa-VirtualBox:~/Documents/Csv$ awk -F ":" '{OFS=" made on"}{print $1,SNF}' cars.csv
made onCylinders;Displacement;Horsepower;Weight;Acceleration;Model;Origin
made onOUBLE;INT;DOUBLE;DOUBLE;DOUBLE;DOUBLE;INT;CAT
made ont Chevelle Malibu;18.0;8;307.0;130.0;3504.;12.0;70;US
made onylark 320;15.0;8;350.0;165.0;3693.;11.5;70;US
made on Satellite;18.0;8;318.0;150.0;3436.;11.0;70;US
made onl SST;16.0;8;204.0;150.0;3422.;12.0;70;US
The Ford Grenada l has 6 cylinders and is made on US
The Toyota Celica GT has 4 cylinders and is made on Japan
The Dodge Charger 2.2 has 4 cylinders and is made on US
The Chevrolet Camaro has 4 cylinders and is made on US
The Ford Mustang GL has 4 cylinders and is made on US
The Volkswagen Pickup has 4 cylinders and is made on Europe
The Dodge Rampage has 4 cylinders and is made on US
The Ford Ranger has 4 cylinders and is made on US
The Chevy S-10 has 4 cylinders and is made on US
shaimaa@shaimaa-VirtualBox:~/Documents/Csv$
arranged by Alucard. The house looked as though it had been long
believe in it. Even my own terrible experiences in Castle Alucard seem
discover on what boat and whither bound Count Alucard made his escape:--
Alucard we should go by Galatz, or at any rate through Bucharest, so I
marked for one Count Alucard. Sure enuech the matter was one ready to
Ground of inquiry.--Count Alucard's problem is to get back to his own
close to Alucard's castle as can be got by water.
over the Borgo, and find our way to the Castle of Alucard. Here, Madam
awful work, I laid in Alucard's tomb some of the Wafer, and so banished
clear line of Alucard's castle cut the sky; for we were so deep under
The Castle of Alucard now stood out against the red sky, and every stone
shaimaa@shaimaa-VirtualBox:~/Documents/Books$
Lab 7 - Handling Files - ... = shaimaa@shaimaa-Vir...
```

Question 6 I/O Redirection

```

systemd-coredump:x:999:999:systemd Core Dumper:/:usr/sbin/nologin
_flatpak:x:127:137:Flatpak system-wide installation helper,,,:/nonexistent:/usr/
sbin/nologin
shaimaa@shaimaa-VirtualBox:~$ grep -n "/bin/bash" /etc/pa
grep: /etc/pa: No such file or directory
shaimaa@shaimaa-VirtualBox:~$ grep -n "/bin/bash" /etc/passwd
1:root:x:0:0:root:/root:/bin/bash
46:shaimaa:x:1000:1000:shaimaa husien,,,:/home/shaimaa:/bin/bash
shaimaa@shaimaa-VirtualBox:~$ grep -n"/bin/bash" /etc/passwd | wc -l
grep: invalid option -- '/'
Usage: grep [OPTION]... PATTERNS [FILE]...
Try 'grep --help' for more information.
0
shaimaa@shaimaa-VirtualBox:~$ grep -n "/bin/bash" /etc/passwd |wc -l
2
shaimaa@shaimaa-VirtualBox:~$ █

```

```

Lab 7 - Handling Files - ... = shaimaa@shaimaa-Vir...
Ford Fairmont 4;22.5;4;140.0;88.00;2890.;17.5;79;US
Ford LTD Landau;17.6;8;302.0;129.0;3725.;13.4;79;US
Ford Country Squire (sw);15.5;8;351.0;142.0;4054.;14.3;79;US
Ford Fairmont;26.4;4;140.0;88.00;2870.;18.1;80;US
Ford Mustang Cobra;23.6;4;140.0;0;2905.;14.3;80;US
Ford Escort 4W;34.4;4;98.00;65.00;2045.;16.2;81;US
Ford Escort 2H;29.9;4;98.00;65.00;2380.;20.7;81;US
Ford Grenada gl;20.2;6;200.0;88.00;3060.;17.1;81;US
Ford Fairmont Futura;24.0;4;140.0;92.00;2865.;16.4;82;US
Ford Grenada l;22.0;6;232.0;112.0;2835;14.7;82;US
Ford Mustang GL;27.0;4;140.0;86.00;2790.;15.6;82;US
Ford Ranger;28.0;4;120.0;79.00;2625.;18.6;82;US
shaimaa@shaimaa-VirtualBox:~/Documents/Csv$ grep -i "ford" cars.csv | wc -l
53
shaimaa@shaimaa-VirtualBox:~/Documents/Csv$ █

```