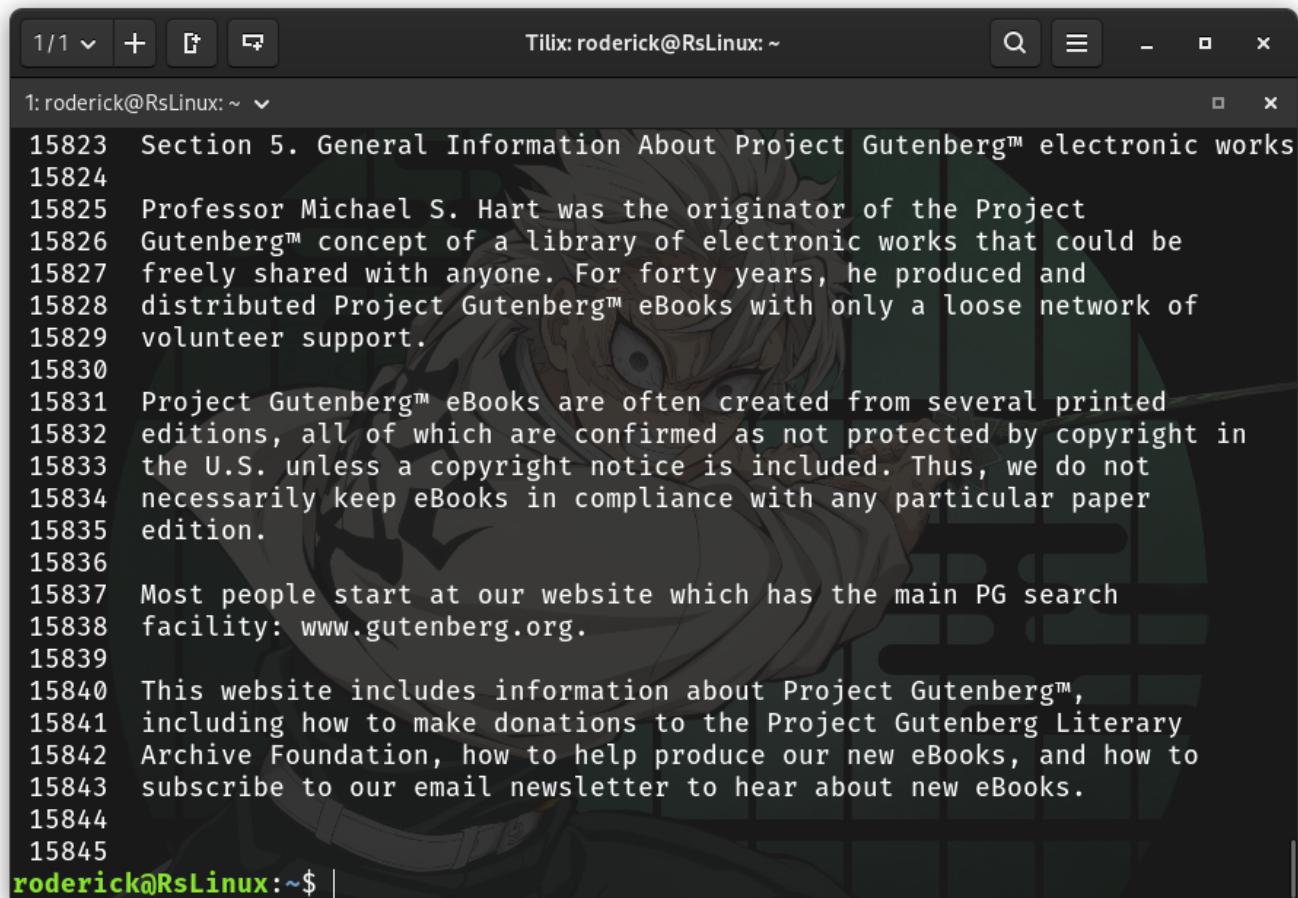


Lab 8

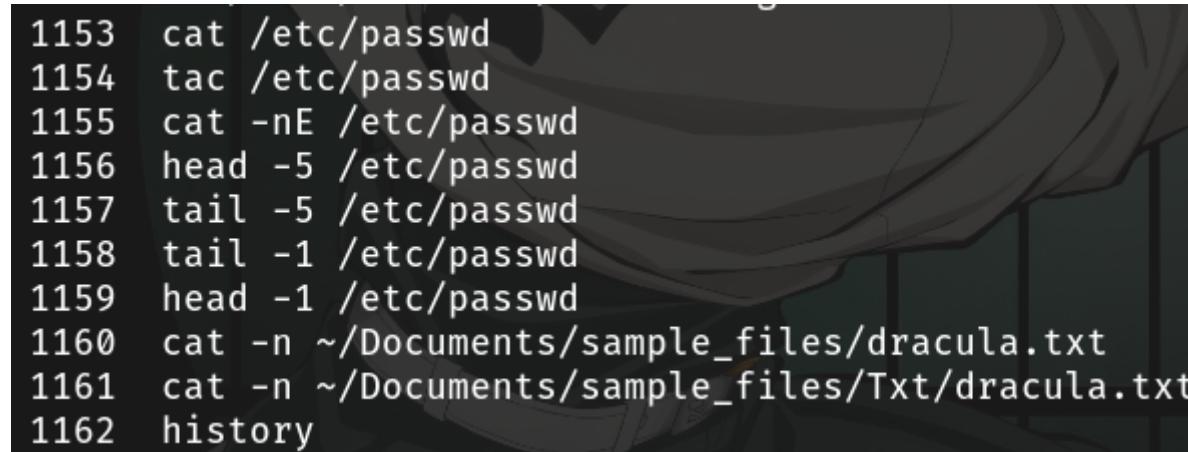
Question 1

Practice 1



The screenshot shows a terminal window titled "Tilix: roderick@RsLinux: ~". The window contains text from Project Gutenberg's website. The text discusses the originator of the Project Gutenberg concept, the distribution of eBooks, and the search facility at www.gutenberg.org. It also mentions the website's inclusion of information about donations, the Project Gutenberg Literary Archive Foundation, and email newsletters.

```
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
15831 Project Gutenberg™ eBooks are often created from several printed
15832 editions, all of which are confirmed as not protected by copyright in
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
roderick@RsLinux:~$ |
```



The screenshot shows a terminal window titled "Tilix: roderick@RsLinux: ~". The window displays a series of "cat" command examples. The commands include "cat /etc/passwd", "tac /etc/passwd", "cat -nE /etc/passwd", "head -5 /etc/passwd", "tail -5 /etc/passwd", "tail -1 /etc/passwd", "head -1 /etc/passwd", "cat -n ~/Documents/sample_files/dracula.txt", "cat -n ~/Documents/sample_files/Txt/dracula.txt", and "history".

```
1153 cat /etc/passwd
1154 tac /etc/passwd
1155 cat -nE /etc/passwd
1156 head -5 /etc/passwd
1157 tail -5 /etc/passwd
1158 tail -1 /etc/passwd
1159 head -1 /etc/passwd
1160 cat -n ~/Documents/sample_files/dracula.txt
1161 cat -n ~/Documents/sample_files/Txt/dracula.txt
1162 history
```

Practice 2

```
1/1 + ⌂ ⌂ Tilix: roderick@RsLinux: ~
1: roderick@RsLinux: ~
Puffed Rice;Q;C;50;1;0;0;0;13;0;15;0;3;0.5;1;60.756112
Puffed Wheat;Q;C;50;2;0;0;1;10;0;50;0;3;0.5;1;63.005645
Quaker Oat Squares;Q;C;100;4;1;135;2;14;6;110;25;3;1;0.5;49.511874
Quaker Oatmeal;Q;H;100;5;2;0;2.7;-1;-1;110;0;1;1;0.67;50.828392
Raisin Bran;K;C;120;3;1;210;5;14;12;240;25;2;1.33;0.75;39.259197
Raisin Nut Bran;G;C;100;3;2;140;2.5;10.5;8;140;25;3;1;0.5;39.703400
Raisin Squares;K;C;90;2;0;0;2;15;6;110;25;3;1;0.5;55.333142
Rice Chex;R;C;110;1;0;240;0;23;2;30;25;1;1;1.13;41.998933
Rice Krispies;K;C;110;2;0;290;0;22;3;35;25;1;1;1;40.560159
Shredded Wheat;N;C;80;2;0;0;3;16;0;95;0;1;0.83;1;68.235885
Shredded Wheat 'n'Bran;N;C;90;3;0;0;4;19;0;140;0;1;1;0.67;74.472949
Shredded Wheat spoon size;N;C;90;3;0;0;3;20;0;120;0;1;1;0.67;72.801787
Smacks;K;C;110;2;1;70;1;9;15;40;25;2;1;0.75;31.230054
Special K;K;C;110;6;0;230;1;16;3;55;25;1;1;1;53.131324
Strawberry Fruit Wheats;N;C;90;2;0;15;3;15;5;90;25;2;1;1;59.363993
Total Corn Flakes;G;C;110;2;1;200;0;21;3;35;100;3;1;1;38.839746
Total Raisin Bran;G;C;140;3;1;190;4;15;14;230;100;3;1;5;1;28.592785
Total Whole Grain;G;C;100;3;1;200;3;16;3;110;100;3;1;1;46.658844
Triples;G;C;110;2;1;250;0;21;3;60;25;3;1;0.75;39.106174
Trix;G;C;110;1;1;140;0;13;12;25;25;2;1;1;27.753301
Wheat Chex;R;C;100;3;1;230;3;17;3;115;25;1;1;0.67;49.787445
Wheaties;G;C;100;3;1;200;3;17;3;110;25;1;1;1;51.592193
Wheaties Honey Gold;G;C;110;2;1;200;1;16;8;60;25;1;1;0.75;36.187559
roderick@RsLinux:~$ |
```

```
1163 clear
1164 man cut
1165 cut -d ':' -f1 /etc/passwd
1166 cut -d ':' -f1,6 /etc/passwd
1167 cut -d ':' -f1,6,7 --output-delimiter=">" /etc/passwd
1168 cut -d ':' -f1 ~/Documents/sample_files/Csv/cereal.csv
1169 cut -d ':' -f1,4 --output-delimiter="calories =" ~/Documents/sample_files/Csv/cereal.csv

1170 clear
```

Practice 3

```
1: roderick@RsLinux: ~/Documents/sample_files/Csv ~
roderick@RsLinux:~$ cd Documents/sample_files/Csv/
roderick@RsLinux:~/Documents/sample_files/Csv$ sort -o sorted_cars.csv cars.csv
roderick@RsLinux:~/Documents/sample_files/Csv$ wc -l sorted_cars.csv
408 sorted_cars.csv
roderick@RsLinux:~/Documents/sample_files/Csv$ wc -m sorted_cars.csv
roderick@RsLinux:~/Documents/sample_files/Csv$ |
```

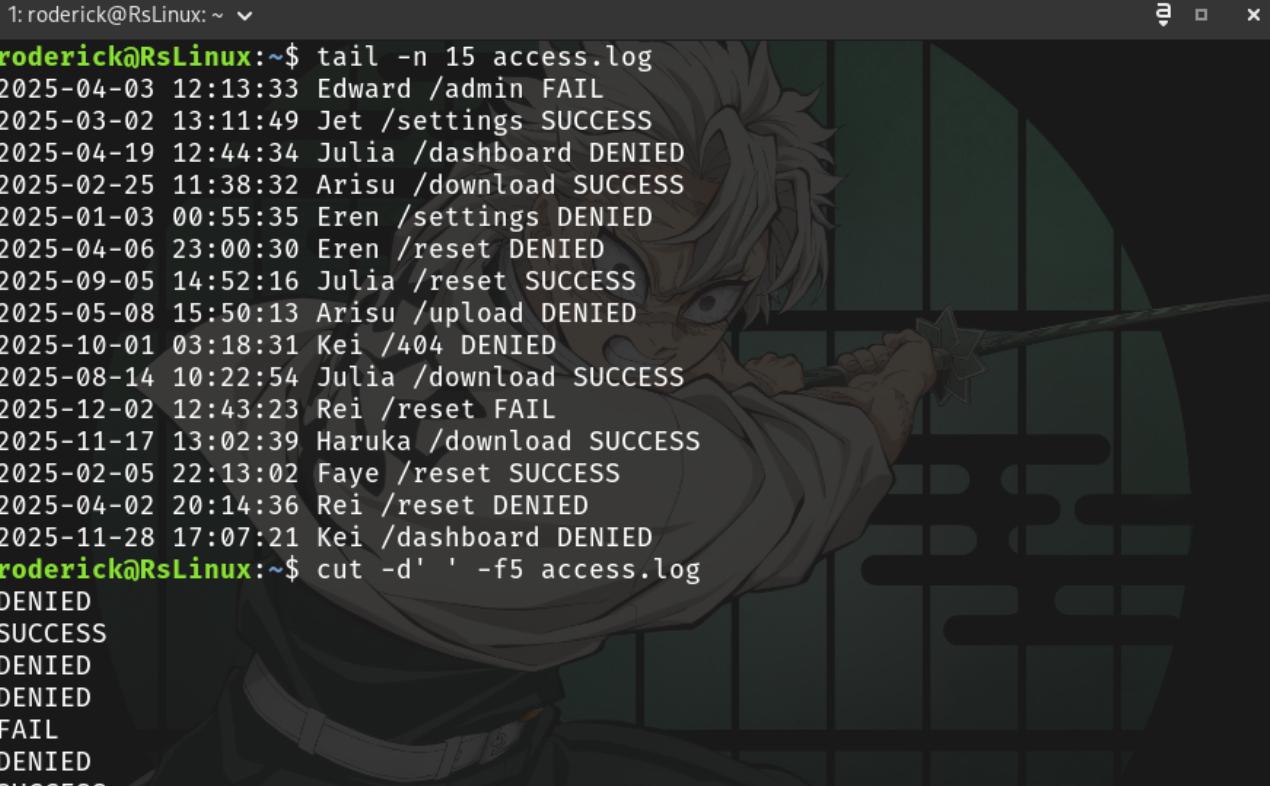
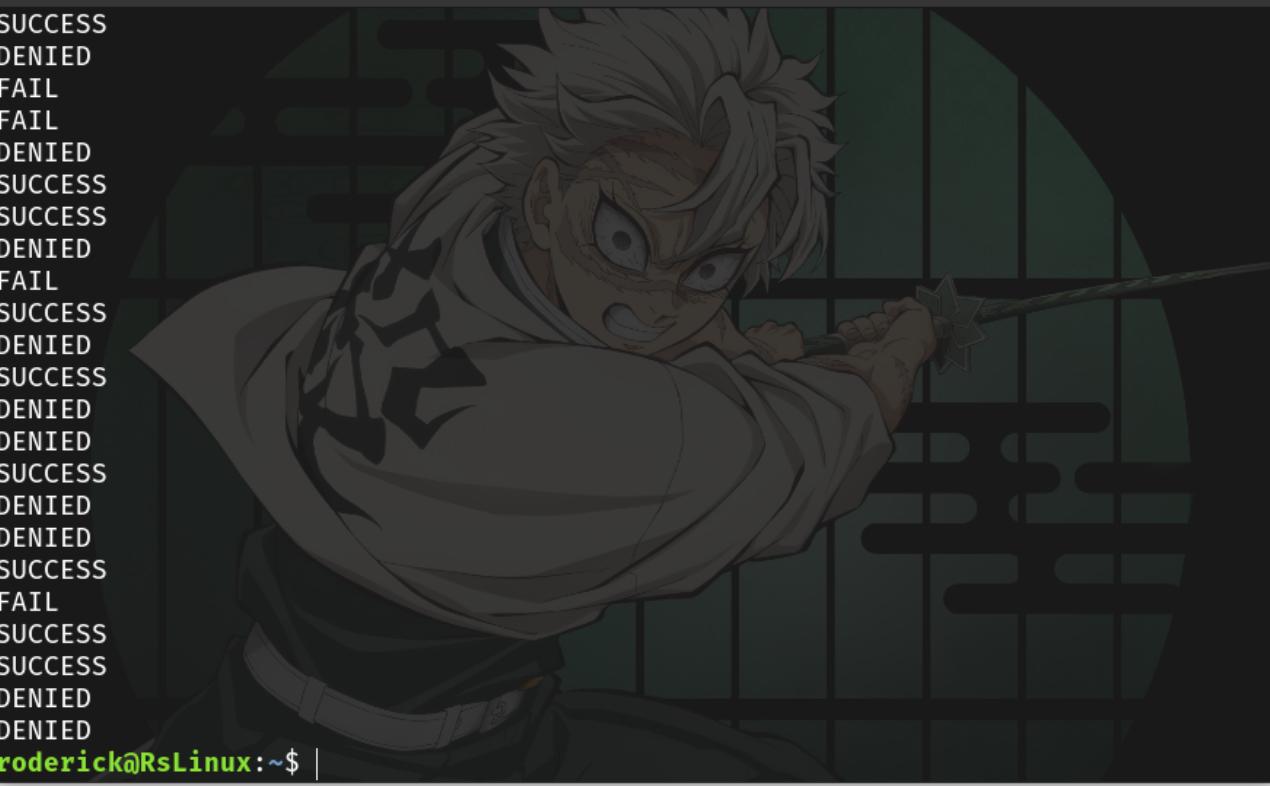
```
1173 sort ~/Documents/sample_files/Csv/cars.csv
1174 sort -o sorted_cars.csv cars.csv
1175 sort -o ~/Documents/sample_files/Csv/sorted_cars.csv cars.csv
1176 clear
1177 cd Documents/sample_files/Csv/
1178 sort -o sorted_cars.csv cars.csv
1179 wc -l sorted_cars.csv
1180 wc -m sorted_cars.csv
1181 history
roderick@RsLinux:~/Documents/sample_files/Csv$ |
```

Question 2

1-4

```
1: roderick@RsLinux: ~
roderick@RsLinux:~$ wc -l access.log
100 access.log
roderick@RsLinux:~$ head -n 1 access.log
2025-04-01 06:08:10 Ein /upload DENIED
roderick@RsLinux:~$ head -n 1 access.log | cut -d' ' -f5
DENIED
roderick@RsLinux:~$ tail -n 1 access.log
2025-11-28 17:07:21 Kei /dashboard DENIED
roderick@RsLinux:~$ head -n 15 access.log
2025-04-01 06:08:10 Ein /upload DENIED
2025-01-10 18:16:47 Seras /settings SUCCESS
2025-01-23 06:17:07 Seras /logout DENIED
2025-02-02 14:18:08 Julia /dashboard DENIED
2025-01-09 22:49:21 Walter /download FAIL
2025-11-10 18:36:28 Ein /dashboard DENIED
2025-12-24 08:36:11 Edward /dashboard SUCCESS
2025-09-13 02:16:22 Walter /dashboard DENIED
2025-04-06 08:55:37 Ein /404 SUCCESS
2025-07-07 01:47:40 Annie /admin FAIL
2025-06-11 07:14:47 Edward /download FAIL
2025-07-15 16:17:30 Jet /reset DENIED
2025-04-12 17:49:48 Kei /login FAIL
2025-03-24 04:01:34 Jet /admin FAIL
2025-05-22 21:36:39 Walter /settings FAIL
```

5-6

A terminal window titled "Tilix: roderick@RsLinux: ~". The background of the terminal is a grayscale illustration of the character Eren Yeager from the anime "Attack on Titan", showing him in his Survey Corps uniform with a determined expression, holding a sword.A terminal window titled "Tilix: roderick@RsLinux: ~". The background of the terminal is a grayscale illustration of the character Eren Yeager from the anime "Attack on Titan", showing him in his Survey Corps uniform with a determined expression, holding a sword.

```
1: roderick@RsLinux: ~
roderick@RsLinux:~$ sort -k5 access.log > sorted_access_log_by_uname.log
roderick@RsLinux:~$ sort -k6 access.log > sorted_access_log_by_endpoint.log
roderick@RsLinux:~$ cut -d' ' -f5,6,7 access.log
DENIED
SUCCESS
DENIED
DENIED
FAIL
DENIED
SUCCESS
DENIED
SUCCESS
FAIL
FAIL
DENIED
FAIL
FAIL
FAIL
SUCCESS
DENIED
FAIL
DENIED
SUCCESS
DENIED
```