Part 1:

engr2-17-142-dhcp:SEMT calvinehicks$ unzip lab2Files.zip -d lab2

Archive: lab2Files.zip

inflating: lab2/fruitsOld.txt

inflating: lab2/fruitsNew.txt

inflating: lab2/testPasswd.txt

inflating: lab2/grades.txt

inflating: lab2/leetSpeak.txt

inflating: lab2/regex\_practice\_data.txt

Part2:

engr2-17-142-dhcp:SEMT calvinehicks$ diff lab2/fruitsOld.txt lab2/fruitsNew.txt

12d11

< Cranberry

21a21

> Jackfruit

32d31

< Nectarine

42d40

< Prickly Pear

< means the text was deleted from the second file. > means the text was added to the second file.

The –c option displays the lines that were changed and what was added or deleted using the + - symbols

Part3:

15 lines 692 characters

Part4:

engr2-17-142-dhcp:lab2 calvinehicks$ cut -f 1 -d: testPasswd.txt

root

daemon

sys

games

mail

www-data

backup

nobody

syslog

whoopsie

user

sshd

ntp

mysql

vboxadd

engr2-17-142-dhcp:lab2 calvinehicks$ cut -f 2 -d" " grades.txt

LN

Slaven

Eustathios

Saša

Gerard

Babur

Marin

Marko

Part5:

engr2-17-142-dhcp:lab2 calvinehicks$ cut -f 4 -d: testPasswd.txt | sort -n | uniq > groups

engr2-17-142-dhcp:lab2 calvinehicks$ cat groups

0

1

2

3

5

99

999

1000

1337

grep ^[mws] testPasswd.txt | cut -f1,6 -d:

sys:/dev

mail:/var/mail

www-data:/var/www

syslog:/home/syslog

whoopsie:/nonexistent

sshd:/var/run/sshd

mysql:/nonexistent

Part6:

engr2-17-142-dhcp:lab2 calvinehicks$ sed -e 's/[a-z]//g' leetSpeak.txt

0 4 34 4 053 70 473 7 0 4'7 43 17 1

engr2-17-142-dhcp:lab2 calvinehicks$ sed -e 's/[0-9]//g' leetSpeak.txt

yu cn ld hr wr bu yu cn' mk drnk

engr2-17-142-dhcp:lab2 calvinehicks$ sed -e 's/[0-9]/\_/g' leetSpeak.txt

y\_u c\_n l\_\_d \_ h\_r\_\_ \_\_ w\_\_\_r bu\_ y\_u c\_n'\_ m\_k\_ \_\_ dr\_nk

engr2-17-142-dhcp:lab2 calvinehicks$ sed -e 's/0/o/g' leetSpeak.txt | sed -e 's/1/i/g' | sed -e 's/2/z/g' | sed -e 's/3/e/g'| sed -e 's/4/a/g'| sed -e 's/5/s/g'| sed -e 's/6/g/g'| sed -e 's/7/t/g'| sed -e 's/8/b/g' | sed -e 's/9/q/g'

you can lead a horse to water but you can't make it drink

This can also be done w/ regex or sed w/ -e’s (lots of em!)

Part7:

engr2-17-142-dhcp:lab2 calvinehicks$ awk 'BEGIN {FS = " "} {sum = $3 + $4 + $5 + $6; avg = sum/4; print $1,$2, avg}' grades.txt

FN LN 0

Ryan Slaven 0.75

Jephthah Eustathios 0.5

Andreas Saša 0.5

Godofredo Gerard 1

Edwin Babur 0.75

Ahmad Marin 0

Jett Marko 0.75

engr2-17-142-dhcp:lab2 calvinehicks$ awk '{ sum = 0; for(i = 0; i < 7; ++i) sum = sum + $3;} END {assignments = 7; print sum/assigments;}' <(sed '1d' grades.txt)

engr2-17-142-dhcp:lab2 calvinehicks$ awk '{(SUM += $3)} END {print SUM/7}' grades.txt

0.714286

Part8:

grep '[0-9]\{3\}[ -]\?[0-9]\{3\}[ -]\?[0-9]\{4\}' regex\_practice\_data.txt | wc –l

797

grep '[303]\{3\}[ -]\?[441]\{3\}[ -]\?[0-9]\{4\}' regex\_practice\_data.txt | wc –l

51

engr2-17-142-dhcp:lab2 calvinehicks$ grep '[a-zA-Z][@]' regex\_practice\_data.txt | wc -l

17149

engr2-17-142-dhcp:lab2 calvinehicks$ grep '[a-zA-Z][@][.gov]' regex\_practice\_data.txt | wc -l

6124