

HW # 4: Note: download internet (pdf) version of the course text book (if you haven't already):
<http://linuxcommand.org/tlcl.php>

1. Open a new terminal and navigate to your home directory (cd ~). Create a new folder named HW4, and navigate into HW4.

2. From the HW4 folder, run the following commands:

```
cat <<_EOF_ > file1.txt
unix is great os. unix is opensource. unix is a free os.
learn the Linux operating system.
Unix or Linux, which one you choose.
uNix is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.
mweir's 37751-9191
_EOF_
```

```
cat <<_EOF_ > file2.txt
macOs is a great os. macOS is not opensource. macOS is Unix, but macOS is not a free os.
learn the Linux operating system.
Unix or Linux, which one you choose.
uNix is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.
mwcorley's SUID is 34521-1122
_EOF_
```

```
cat <<_EOF_ > file3.txt
Windows is great os. Windows is not opensource. Windows is not a free os.
Learn an operating system.
Unix or Linux whichever one you choose.
uNix is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.
cpatch's SUID is unknown
_EOF_
```

The above commands are examples of *here documents*, which you can read about it on page 379 in the class text: [here](#)

3. Using the files created in step 1. and 2. Write a command (or a script) to search and print all .txt files in the HW4 directory that contain an SUID number of the following format: XXXXX-XXXX. Hint: consider using grep with a regular expression to match the SUID format (the SUID regex isn't much different than the social security number regex discussed in the notes)
4. Write a command to *find* all of the text files in your HW4 folder (and any child folders), and for each file found, print the lines that contain the string "SUID". Hint: consider using the *find* and *grep* commands.

5. Write a shell script that implements a basic 4-four calculator (add, subtract, multiply, and divide)

The calculator should display a menu, and function similar to the screen shot below.

```
mwcory@mwcorley-VirtualBox: ~/scripts
File Edit View Search Terminal Help

mwcory@mwcorley-VirtualBox:~/scripts$ demoCalculate.sh

Simple Calculator
1 - Add Numbers
2 - Subtract Numbers
3 - Divide Numbers
4 - Multiply Numbers
0 - Exit program

Enter selection: 1

Enter num1:
20
Enter num2:
10
Answer: 30

Simple Calculator
1 - Add Numbers
2 - Subtract Numbers
3 - Divide Numbers
4 - Multiply Numbers
0 - Exit program

Enter selection: 2

Enter num1:
20
Enter num2:
10
Answer: 10

Simple Calculator
1 - Add Numbers
2 - Subtract Numbers
3 - Divide Numbers
4 - Multiply Numbers
0 - Exit program

Enter selection: 4

Enter num1:
20
Enter num2:
10
Answer: 200

Simple Calculator
1 - Add Numbers
2 - Subtract Numbers
3 - Divide Numbers
4 - Multiply Numbers
0 - Exit program

Enter selection: 0

mwcory@mwcorley-VirtualBox:~/scripts$
```