Creating Simple Bash Shell Scripts (Lab)

coursera.org/learn/linux-tools-for-developers/supplement/nV21X/creating-simple-bash-shell-scripts-lab

Exercise

In the Labs directory (or anywhere you choose), create the following file in your favorite text editor and call it **nproc**:

```
#!/bin/sh

nproc=$(ps | wc -l)

echo "You are running $nproc processes"

exit 0
```

Note we have used the following commands:

- **wc** counts the number of lines, words, and characters in a file
- **ps** gives information about running processes.

Now make it executable with:

```
$ chmod +x nproc
```

and then run it with:

```
$ ./nproc
```

Type **ps** at the command line. You will notice there is one extra line of headings; thus, we have over-counted by one. Edit the script to correct this.

Hint: You can use either of these two forms:

```
nproc=$(($nproc - 1 ))

nproc=$(expr $nproc - 1)
```

Can you do this exercise without using any variables (i.e. do it in one line)?

Hint: You will find it easier with the **$(…)** construct than with the '**….**' construct.

Solution

You can see a solution for this exercise here:

lab_nproc.sh