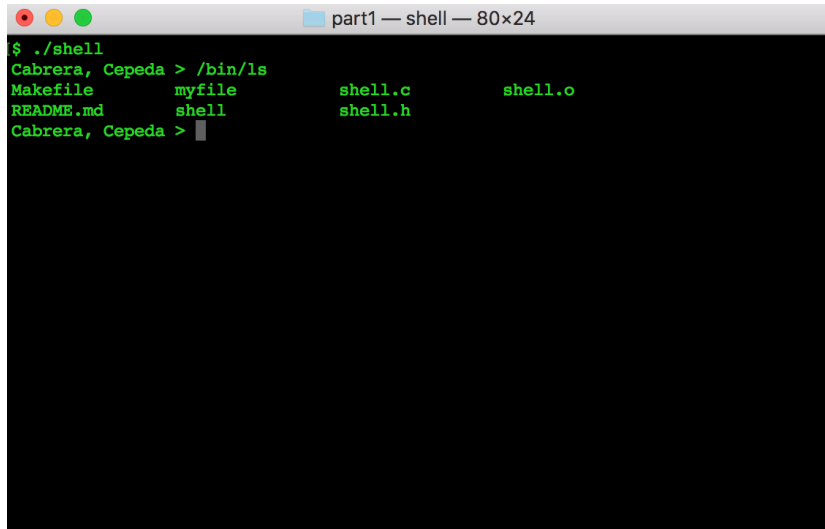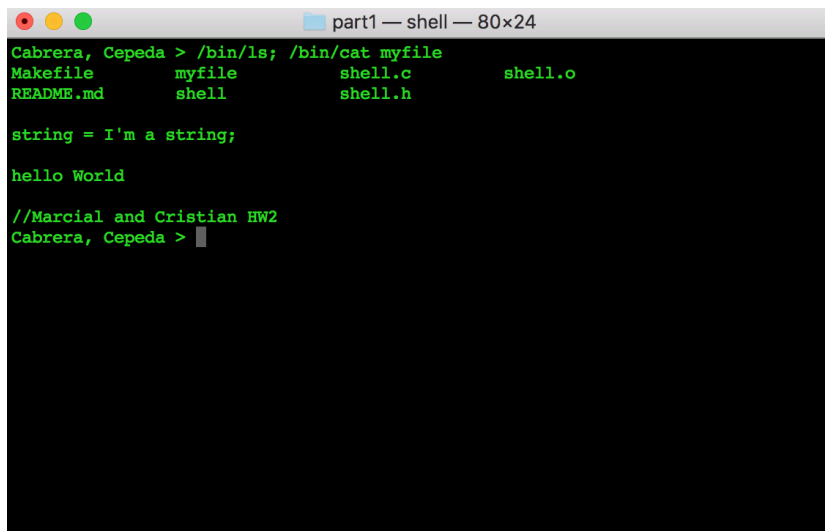# Contributors

- Marcial Cabrera was the main developer in Part 1 of this assignment. However, Cristian Cepeda was jumping in and out since his main focus was on finishing Part 2.
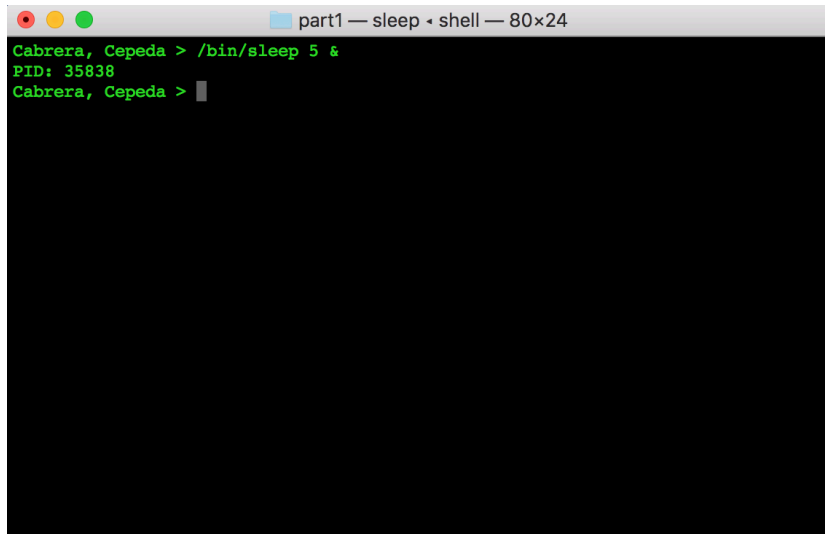
a. Can run single foreground command

```
● ● ●                    part1 — shell — 80×24
$ ./shell
Cabrera, Cepeda > /bin/ls
Makefile        myfile          shell.c         shell.o
README.md       shell           shell.h
Cabrera, Cepeda > █
```

b. Can simultaneously run multiple foreground commands (separated by ;)

```
● ● ●                    part1 — shell — 80×24
Cabrera, Cepeda > /bin/ls; /bin/cat myfile
Makefile        myfile          shell.c         shell.o
README.md       shell           shell.h

string = I'm a string;

hello World

//Marcial and Cristian HW2
Cabrera, Cepeda > █
```

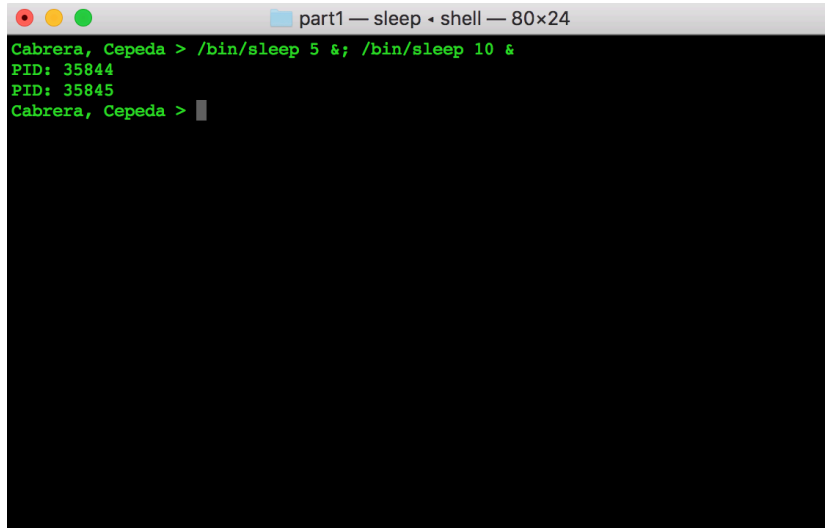c. Can run single background command

```
●● ●              part1 — sleep ‹ shell — 80×24
Cabrera, Cepeda > /bin/sleep 5 &
PID: 35838
Cabrera, Cepeda > ▊
```
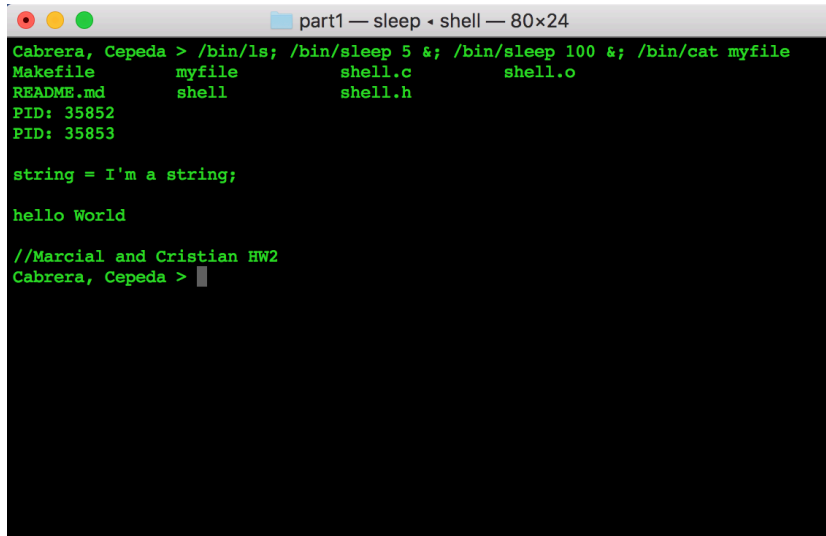
d. Can run multiple background commands (either on the same command line or separate command lines).

```
●● ●              part1 — sleep ‹ shell — 80×24
Cabrera, Cepeda > /bin/sleep 5 &; /bin/sleep 10 &
PID: 35844
PID: 35845
Cabrera, Cepeda > ▊
```

e. Can run mixed foreground and background commands:
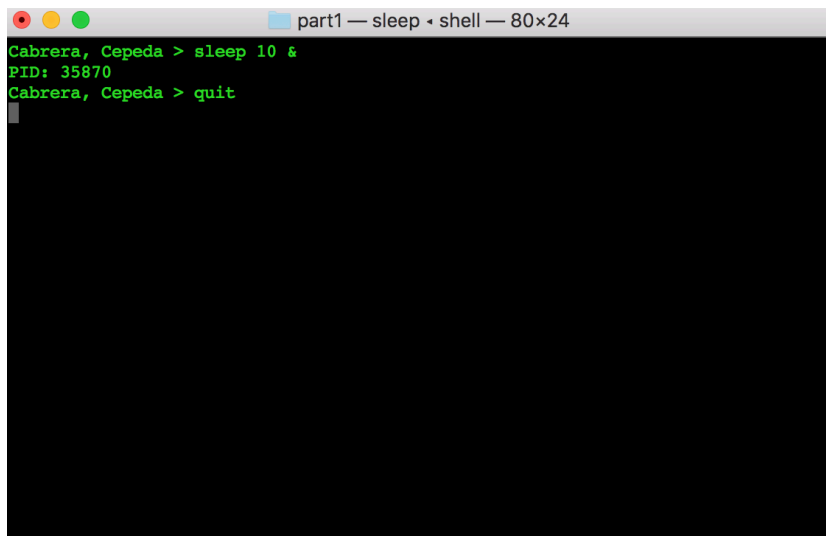
```
●●●                part1 — sleep ‹ shell — 80×24
Cabrera, Cepeda > /bin/ls; /bin/sleep 5 &; /bin/sleep 100 &; /bin/cat myfile
Makefile        myfile          shell.c         shell.o
README.md       shell           shell.h
PID: 35852
PID: 35853

string = I'm a string;

hello World

//Marcial and Cristian HW2
Cabrera, Cepeda > ▌
```

f. Shell terminates upon completion (quit and Ctrl-D), after all running programs end:

```
●●●                part1 — sleep ‹ shell — 80×24
Cabrera, Cepeda > sleep 10 &
PID: 35870
Cabrera, Cepeda > quit
▌
```

Waiting for the async call to finish

```
Cabrera, Cepeda > sleep 10 &
PID: 35870
Cabrera, Cepeda > quit
$ 
```

g. Error handling: 5%

```
Cabrera, Cepeda > lslsl
exec failed: No such file or directory
Cabrera, Cepeda > 
```