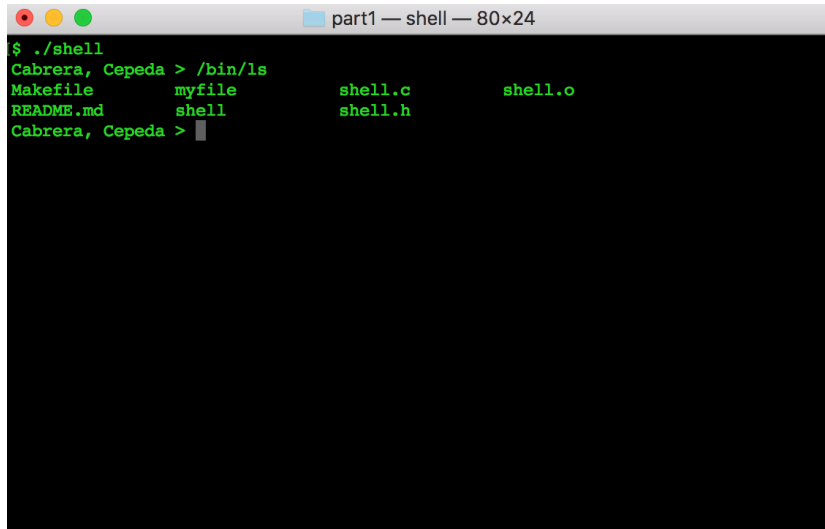


Contributors

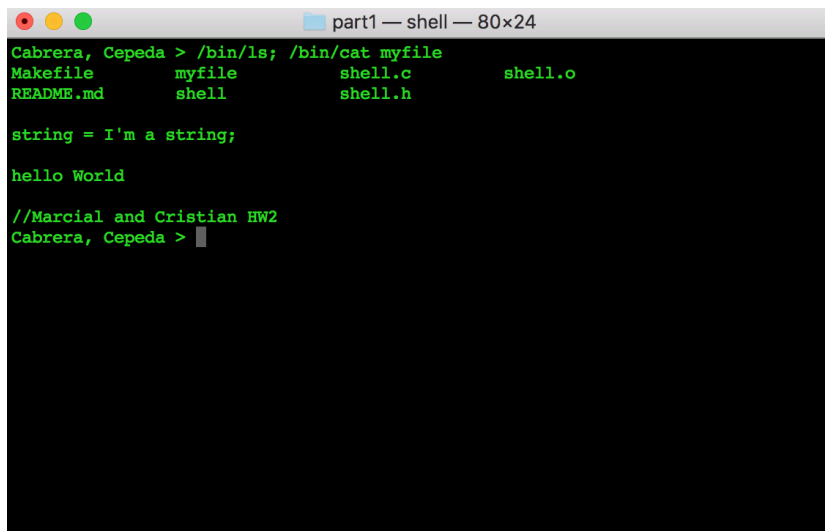
- Marcial Cabrera was the main developer in Part 1 of this assignment. However, Cristian Cepeda was jumping in and out since his main focus was on finishing Part 2.

a. Can run single foreground command



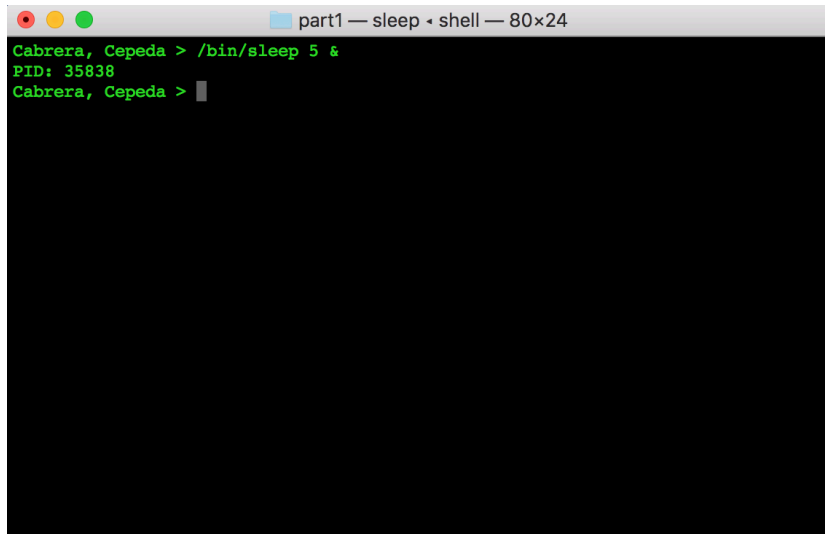
```
part1 — shell — 80x24
$ ./shell
Cabrera, Cepeda > /bin/ls
Makefile      myfile        shell.c       shell.o
README.md     shell         shell.h
Cabrera, Cepeda > 
```

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



```
part1 — shell — 80x24
Cabrera, Cepeda > /bin/ls; /bin/cat myfile
Makefile      myfile        shell.c       shell.o
README.md     shell         shell.h
//Marcial and Cristian HW2
Cabrera, Cepeda > 
```

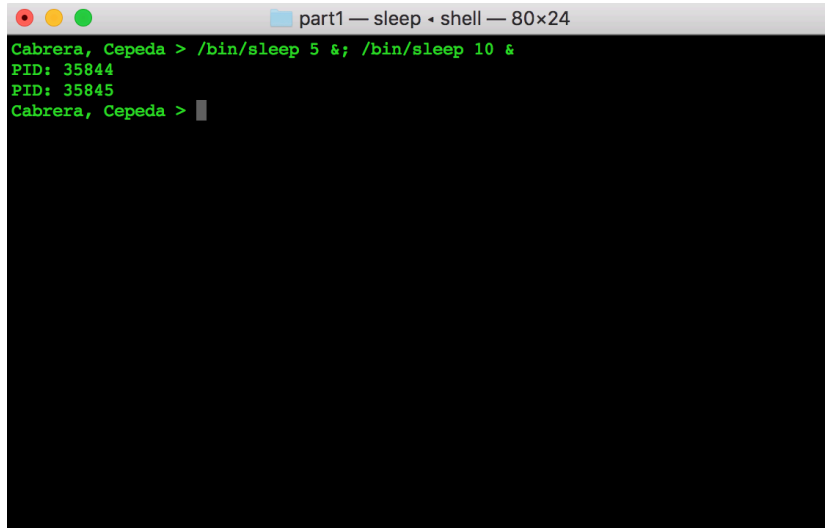
c. Can run single background command



```
part1 — sleep ◀ shell — 80x24
Cabrera, Cepeda > /bin/sleep 5 &
PID: 35838
Cabrera, Cepeda > █
```

A terminal window titled "part1 — sleep ◀ shell — 80x24" with a black background and green text. The user enters the command `/bin/sleep 5 &`, and the system responds with `PID: 35838`. The prompt `Cabrera, Cepeda >` is followed by a cursor.

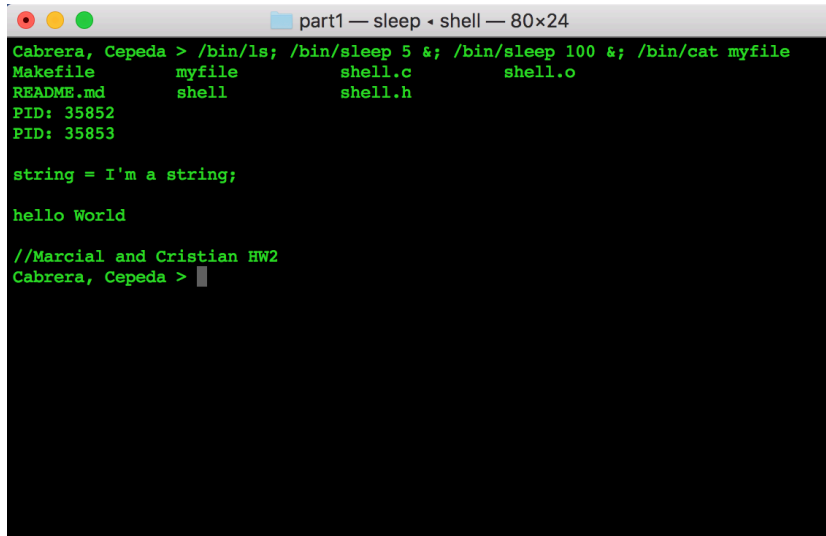
d. Can run multiple background commands (either on the same command line or separate command lines).



```
part1 — sleep ◀ shell — 80x24
Cabrera, Cepeda > /bin/sleep 5 &; /bin/sleep 10 &
PID: 35844
PID: 35845
Cabrera, Cepeda > █
```

A terminal window titled "part1 — sleep ◀ shell — 80x24" with a black background and green text. The user enters the command `/bin/sleep 5 &; /bin/sleep 10 &`, and the system responds with two lines: `PID: 35844` and `PID: 35845`. The prompt `Cabrera, Cepeda >` is followed by a cursor.

- e. Can run mixed foreground and background commands:



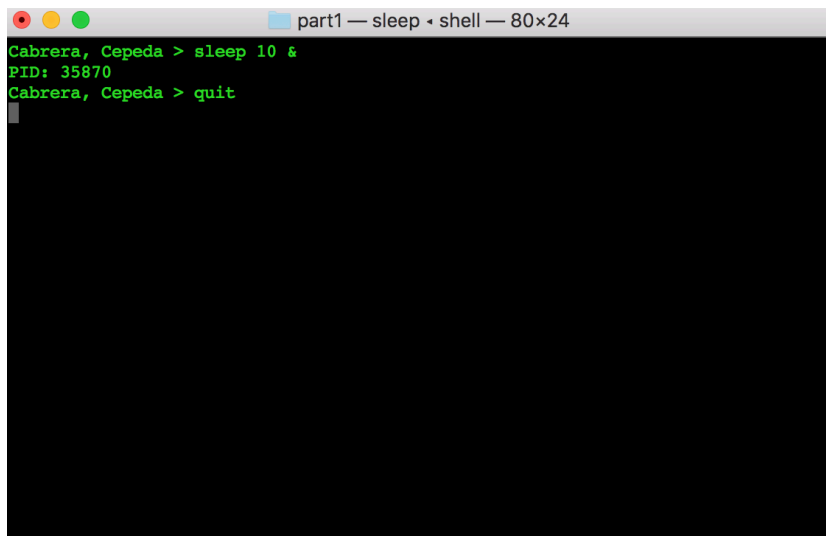
```
part1 — sleep ◀ shell — 80x24
Cabrera, Cepeda > /bin/ls; /bin/sleep 5 &; /bin/sleep 100 &; /bin/cat myfile
Makefile      myfile      shell.c      shell.o
README.md     shell      shell.h
PID: 35852
PID: 35853

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 — 80x24
Cabrera, Cepeda > sleep 10 &
PID: 35870
Cabrera, Cepeda > quit

```

Waiting for the async call to finish

```
part1 — -bash — 80x24
Cabrera, Cepeda > sleep 10 &
PID: 35870
Cabrera, Cepeda > quit
$
```

g. Error handling: 5%

```
part1 — shell — 80x24
Cabrera, Cepeda > ls1s1
exec failed: No such file or directory
Cabrera, Cepeda >
```