

Operating Systems -Lab2

200010024

Part -1 : Minimum lines required is 23

```
Minix: PID 239 exited
# ./a.out
Minix: PID 251 created
char pid Time(sec)
Minix: PID 252 created
H 252 1673812337
Minix: PID 253 created
e 253 1673812339
Minix: PID 254 created
l 254 1673812341
Minix: PID 255 created
l 255 1673812343
Minix: PID 256 created
o 256 1673812345
Minix: PID 257 created
257 1673812347
Minix: PID 258 created
W 258 1673812349
Minix: PID 259 created
o 259 1673812351
Minix: PID 260 created
```

Part - 2 :

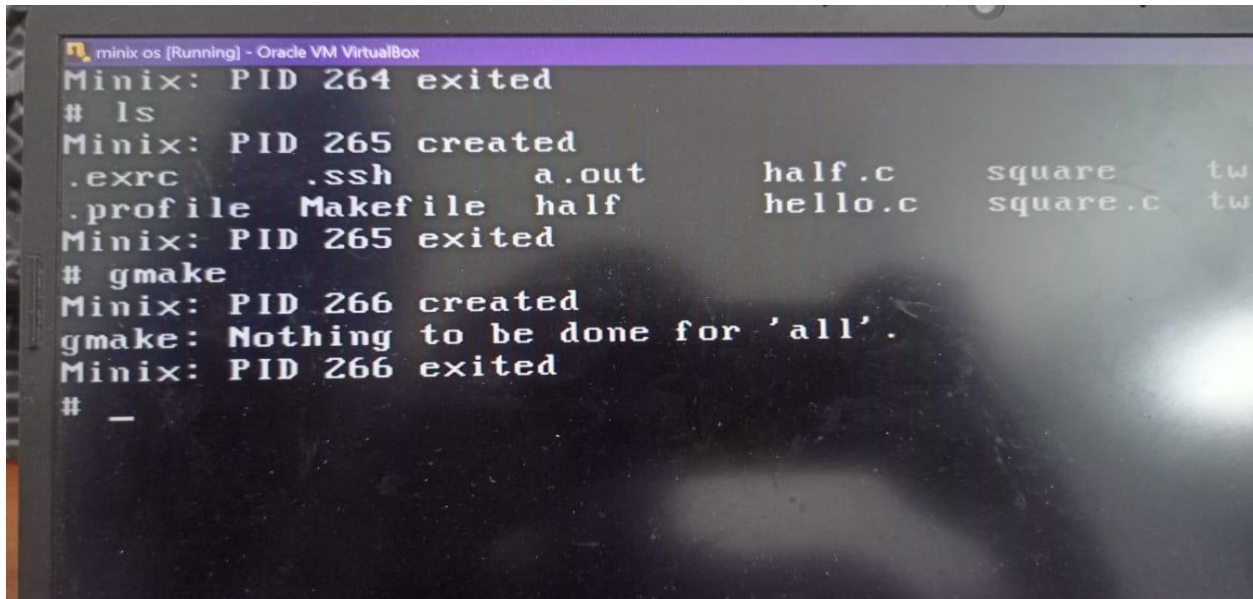
Using `execvp`("path to executable",command line arguments) we can acquire the desired result
By calling again again until there are command line arguments.

```
Minix: PID 259 exited
Minix: PID 258 exited
Minix: PID 257 exited
Minix: PID 256 exited
Minix: PID 255 exited
Minix: PID 254 exited
Minix: PID 253 exited
Minix: PID 252 exited
Minix: PID 251 exited
# ./twice ./half ./square 10
Minix: PID 263 created
Twice : Current process id: 263, Current result: 20
Half : Current process id: 263, Current result: 10
Square : Current process id: 263, Current result: 100
Minix: PID 263 exited
#
```

Part-3 :

After reading the comments and some analogies i added the printf()

Lines in the do_fork() and do_exit() functions so that pid of process is printed when process is created and exited.



```
minix os [Running] - Oracle VM VirtualBox
Minix: PID 264 exited
# ls
Minix: PID 265 created
.exrc      .ssh      a.out     half.c    square    tw
.profile  Makefile  half      hello.c   square.c  tw
Minix: PID 265 exited
# gmake
Minix: PID 266 created
gmake: Nothing to be done for 'all'.
Minix: PID 266 exited
# _
```