OPERATING SYSTEMS
Lab 1 Report
Simple Shell

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Old ID: 64.
New ID: 63.

- **Problem Statement:**

  It is required to implement a Unix shell program. A shell is simply a program that conveniently
  allows you to run other programs.

- **Major Functions:**

-ReadAndProcess:

First reads the command , Then splits the line into words , Last check if command contain ‘&’ or not.

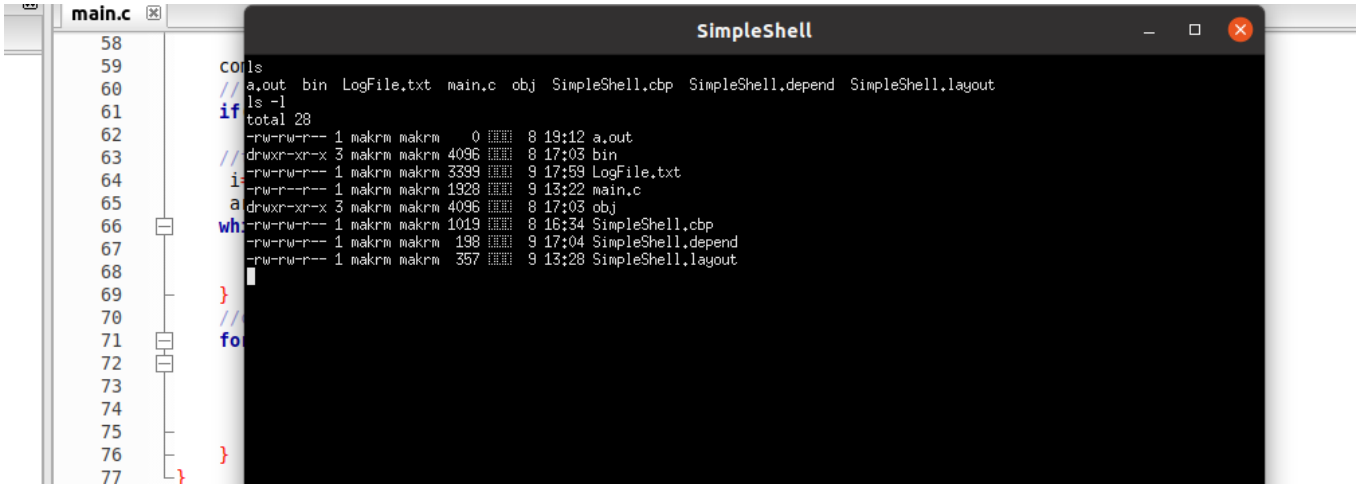
-HandlerSignal:

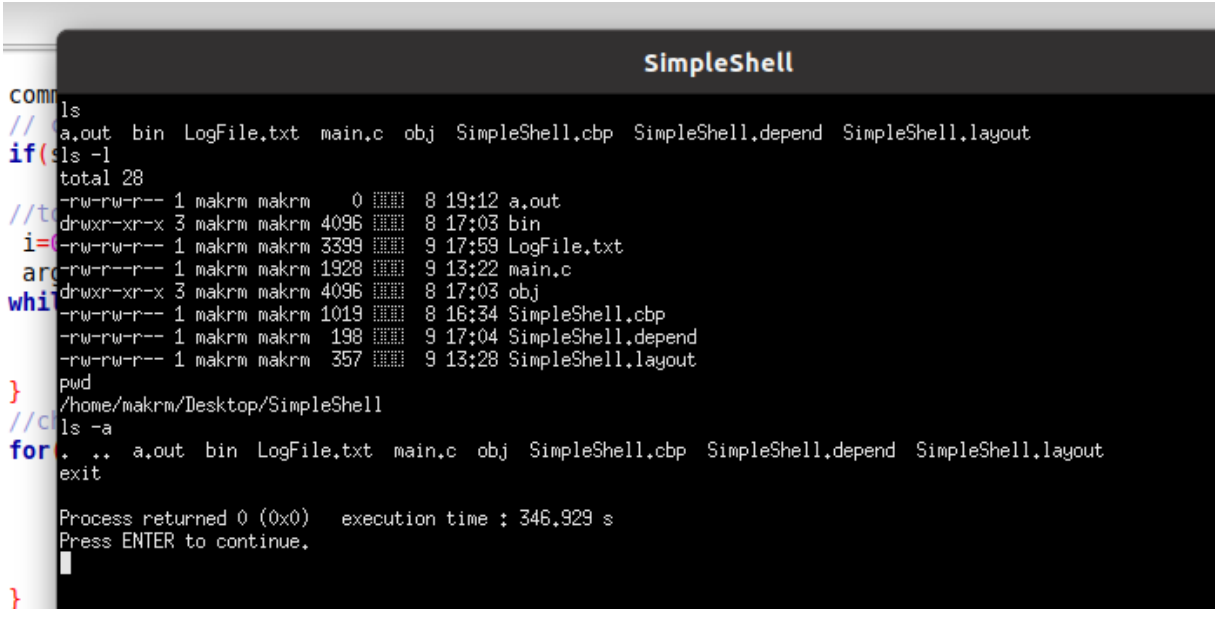
this function is override on the interrupt handler to see when child terminated by LogFile.

-**LogFile**:

it takes the log string and writes it in the LogFile to see child’s behavior.

Sample Runs:


main.c
SimpleShell
ls
a.out bin LogFile.txt main.c obj SimpleShell.cbp SimpleShell.depend SimpleShell.layout
ls -l
total 28
-rw-rw-r-- 1 makrm makrm 0 8 19:12 a.out
drwxr-xr-x 3 makrm makrm 4096 8 17:03 bin
-rw-rw-r-- 1 makrm makrm 3399 9 17:59 LogFile.txt
-rw-r--r-- 1 makrm makrm 1928 9 13:22 main.c
drwxr-xr-x 3 makrm makrm 4096 8 17:03 obj
-rw-rw-r-- 1 makrm makrm 1019 8 16:34 SimpleShell.cbp
-rw-rw-r-- 1 makrm makrm 198 9 17:04 SimpleShell.depend
-rw-rw-r-- 1 makrm makrm 357 9 13:28 SimpleShell.layout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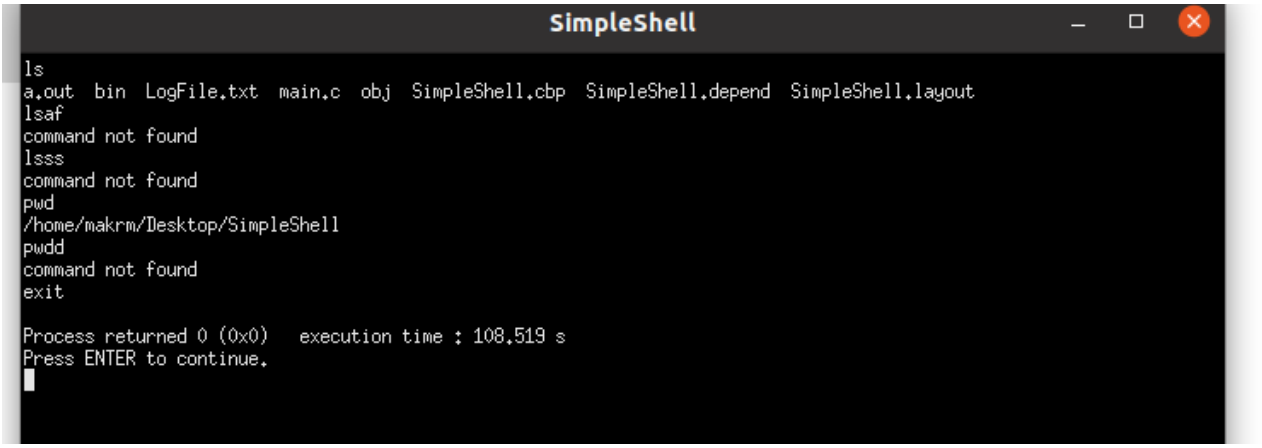
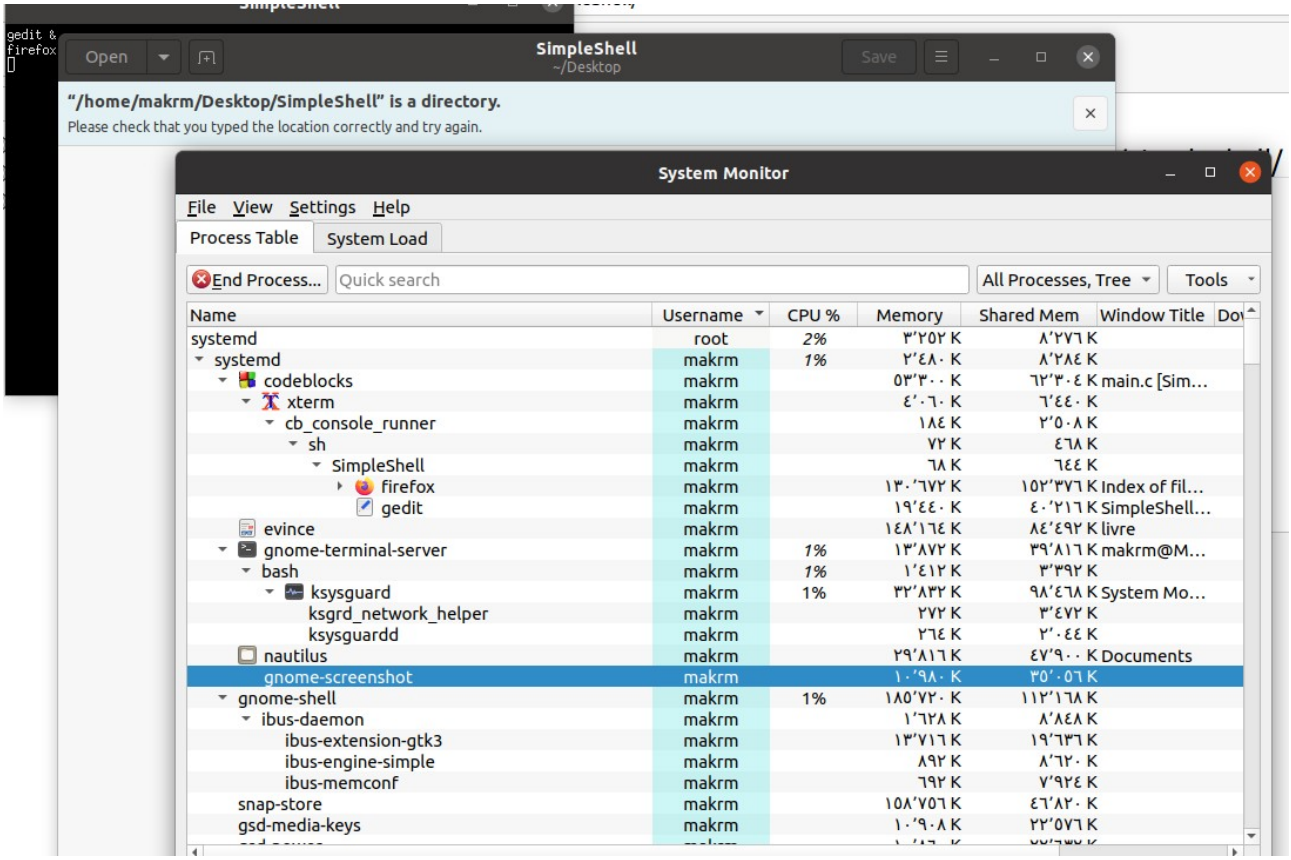
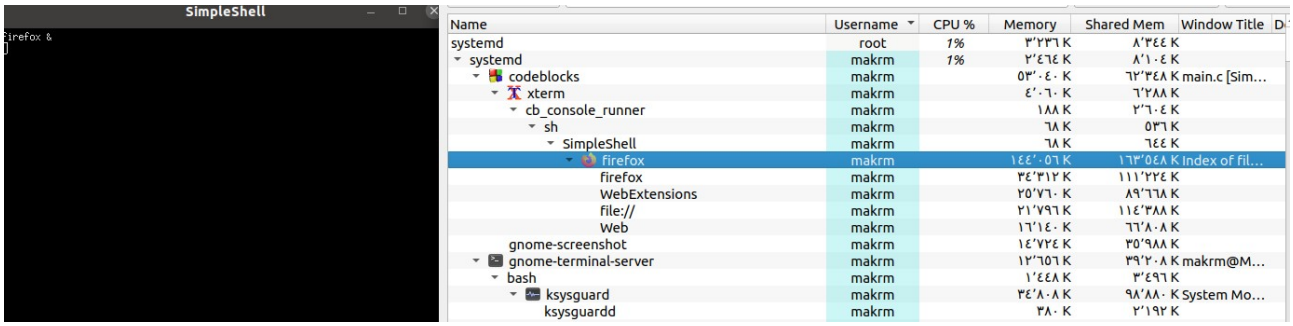
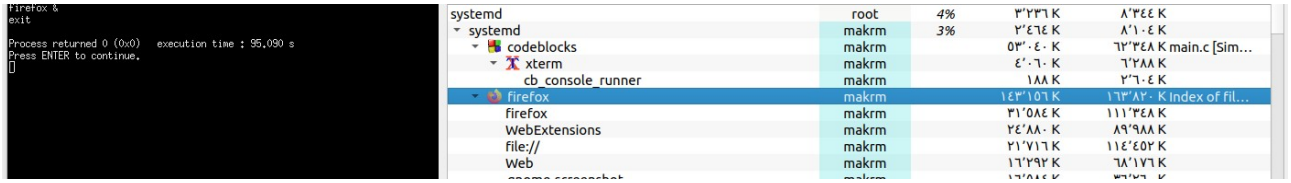
pwd
/home/makrm/Desktop/SimpleShell
ls -a
. .. a.out bin LogFile.txt main.c obj SimpleShell.cbp SimpleShell.depend SimpleShell.layout
exit
Process returned 0 (0x0) execution time : 346.929 s
Press ENTER to continue.


SimpleShell
ls
a.out bin LogFile.txt main.c obj SimpleShell.cbp SimpleShell.depend SimpleShell.layout
lsaf
command not found
lsss
command not found
pwd
/home/makrm/Desktop/SimpleShell
pwdd
command not found
exit
Process returned 0 (0x0) execution time : 108.519 s
Press ENTER to continue.

- **Processes hierarchy in Ksysguard:**