



# National Textile University

## Department of Computer Science

**Subject:**

Operating System

**Submitted to:**

Sir Naseer

**Submitted by:**

Ayema

**Reg number:**

23-NTU-CS-1142

**Lab no. :**

03

**Semester:** 5Th

## Part 1: File and Directory operations:

```
ayema@DESKT x ayema@DESKT x ayema@DESKT x ayema@DESKT x ayema@DESKT x ayema@DESKT x ayema@DESKT x ayema@DESKT x + - O X
Microsoft Windows [Version 10.0.26100.6584]
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C:\Users\HP>bash
ayema@DESKTOP-1VVHC56:/mnt/c/Users/HP$ cd ~
ayema@DESKTOP-1VVHC56:~$ mkdir Lab_3
ayema@DESKTOP-1VVHC56:~/Lab_3$ cd Lab_3
ayema@DESKTOP-1VVHC56:~/Lab_3$ mkdir -p docs/drafts
ayema@DESKTOP-1VVHC56:~/Lab_3$ mkdir -p data/raw
ayema@DESKTOP-1VVHC56:~/Lab_3$ mkdir -p data/processed
ayema@DESKTOP-1VVHC56:~/Lab_3$ mkdir scripts
ayema@DESKTOP-1VVHC56:~/Lab_3$ cd ~/Lab_3/docs
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ touch intro.txt notes.txt summary.txt
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ echo "This is the introduction file." >> intro.txt
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ echo "This file contains important notes." >> notes.txt
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ echo "This is the summary of Lab 3 task." >> summary.txt
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ echo "End of summary." >> summary.txt
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ cp summary.txt drafts/
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ cd ~/Lab_3/data/raw
ayema@DESKTOP-1VVHC56:~/Lab_3/data/raw$ touch raw1.txt raw2.txt
ayema@DESKTOP-1VVHC56:~/Lab_3/data/raw$ date >> raw1.txt
ayema@DESKTOP-1VVHC56:~/Lab_3/data/raw$ mv raw2.txt ../processed/
ayema@DESKTOP-1VVHC56:~/Lab_3/data/raw$ cd ~/Lab_3/scripts
ayema@DESKTOP-1VVHC56:~/Lab_3/scripts$ touch hello.sh
ayema@DESKTOP-1VVHC56:~/Lab_3/scripts$ echo 'echo "Hello World"' >> hello.sh
ayema@DESKTOP-1VVHC56:~/Lab_3/scripts$ echo 'pwd' >> hello.sh
ayema@DESKTOP-1VVHC56:~/Lab_3/scripts$ echo 'ls -lh' >> hello.sh
ayema@DESKTOP-1VVHC56:~/Lab_3/scripts$ cd ~/Lab_3
ayema@DESKTOP-1VVHC56:~/Lab_3$ ls -R
.:
data docs scripts

./data:
processed raw

./data/processed:
raw2.txt

./data/raw:
raw1.txt
```

## Part 2: Practice with basic:

```
ayema@DESKT x ayema@DESKT x ayema@DESKT x ayema@DESKT x ayema@DESKT x ayema@DESKT x ayema@DESKT x ayema@DESKT x + - O X
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\HP> bash
ayema@DESKTOP-1VVHC56:/mnt/c/Users/HP$ cd ~/Lab_3
ayema@DESKTOP-1VVHC56:~/Lab_3$ ls -R
.:
data docs scripts

./data:
processed raw

./data/processed:
raw2.txt

./data/raw:
raw1.txt

./docs:
drafts intro.txt notes.txt summary.txt

./docs/drafts:
summary.txt

./scripts:
hello.sh
ayema@DESKTOP-1VVHC56:~/Lab_3$ |
```

## Part 3: Create permission and Ownership:

```
ayema@DESKTOP: x ayema@DESKTOP: x ayema@DESKTOP: x ayema@DESKTOP: x ayema@DESKTOP: x ayema@DESKTOP: x ayema@DESKTOP: x ayema@DESKTOP: x + - o x
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\HP> bash
ayema@DESKTOP-1VVHC56:/mnt/c/Users/HP$ cd ~/Lab_3/scripts
ayema@DESKTOP-1VVHC56:~/Lab_3/scripts$ ./hello.sh
-bash: ./hello.sh: Permission denied
ayema@DESKTOP-1VVHC56:~/Lab_3/scripts$ chmod 770 hello.sh
ayema@DESKTOP-1VVHC56:~/Lab_3/scripts$ ./hello.sh
Hello World
/home/ayema/Lab_3/scripts
total 4.0K
-rwxrwx--- 1 ayema ayema 30 Oct 9 15:28 hello.sh
ayema@DESKTOP-1VVHC56:~/Lab_3/scripts$ cd ~/Lab_3/docs
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ |
```

```
ayema@DESKTOP: x ayema@DESKTOP: x ayema@DESKTOP: x ayema@DESKTOP: x ayema@DESKTOP: x ayema@DESKTOP: x ayema@DESKTOP: x ayema@DESKTOP: x + - o x
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\HP> bash
ayema@DESKTOP-1VVHC56:/mnt/c/Users/HP$ cd ~/Lab_3/docs
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ chmod 664 intro.txt
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ chmod o-rwx notes.txt
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ ls -l
total 16
drwxr-xr-x 2 ayema ayema 4096 Oct 9 15:26 drafts
-rw-rw-r-- 1 ayema ayema 31 Oct 9 15:26 intro.txt
-rw-r----- 1 ayema ayema 36 Oct 9 15:26 notes.txt
-rw-r--r-- 1 ayema ayema 51 Oct 9 15:26 summary.txt
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ |
```

## Part 4: Reading and searching Files:

```
ayema@DESKTl x ayema@DESKTl x ayema@DESKTl x ayema@DESKTl x ayema@DESKTl x ayema@DESKTl x ayema@DESKTl x ayema@DESKTl x + - O x
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\HP> bash
ayema@DESKTOP-1VVHC56:/mnt/c/Users/HP$ pwd
/mnt/c/Users/HP
ayema@DESKTOP-1VVHC56:/mnt/c/Users/HP$ whoami
ayema
ayema@DESKTOP-1VVHC56:/mnt/c/Users/HP$ touch extra.txt
ayema@DESKTOP-1VVHC56:/mnt/c/Users/HP$ cat intro.txt
cat: intro.txt: No such file or directory
ayema@DESKTOP-1VVHC56:/mnt/c/Users/HP$ cd ~/Lab_3/docs/
-bash: /home/ayema/Lab_3/docs/: Is a directory
ayema@DESKTOP-1VVHC56:/mnt/c/Users/HP$ cd ~/Lab_3/docs
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ ls
drafts  intro.txt  notes.txt  summary.txt
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ cat intro.txt
This is the introduction file.
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ touch extra.txt
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ rm extra.txt
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ history | tail -n 5
328 ls
329 cat intro.txt
330 touch extra.txt
331 rm extra.txt
332 history | tail -n 5
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ history | tail -n 5
328 ls
329 cat intro.txt
330 touch extra.txt
331 rm extra.txt
332 history | tail -n 5
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$
```

```
ayema@DESKTl x ayema@DESKTl x ayema@DESKTl x ayema@DESKTl x ayema@DESKTl x ayema@DESKTl x ayema@DESKTl x ayema@DESKTl x + - O x
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\HP> bash
ayema@DESKTOP-1VVHC56:/mnt/c/Users/HP$ pwd
/mnt/c/Users/HP
ayema@DESKTOP-1VVHC56:/mnt/c/Users/HP$ whoami
ayema
ayema@DESKTOP-1VVHC56:/mnt/c/Users/HP$ touch extra.txt
ayema@DESKTOP-1VVHC56:/mnt/c/Users/HP$ cat intro.txt
cat: intro.txt: No such file or directory
ayema@DESKTOP-1VVHC56:/mnt/c/Users/HP$ cd ~/Lab_3/docs/
-bash: /home/ayema/Lab_3/docs/: Is a directory
ayema@DESKTOP-1VVHC56:/mnt/c/Users/HP$ cd ~/Lab_3/docs
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ ls
drafts  intro.txt  notes.txt  summary.txt
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ cat intro.txt
This is the introduction file.
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ touch extra.txt
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ rm extra.txt
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ history | tail -n 5
328 ls
329 cat intro.txt
330 touch extra.txt
331 rm extra.txt
332 history | tail -n 5
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ history | tail -n 5
328 ls
329 cat intro.txt
330 touch extra.txt
331 rm extra.txt
332 history | tail -n 5
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$
```

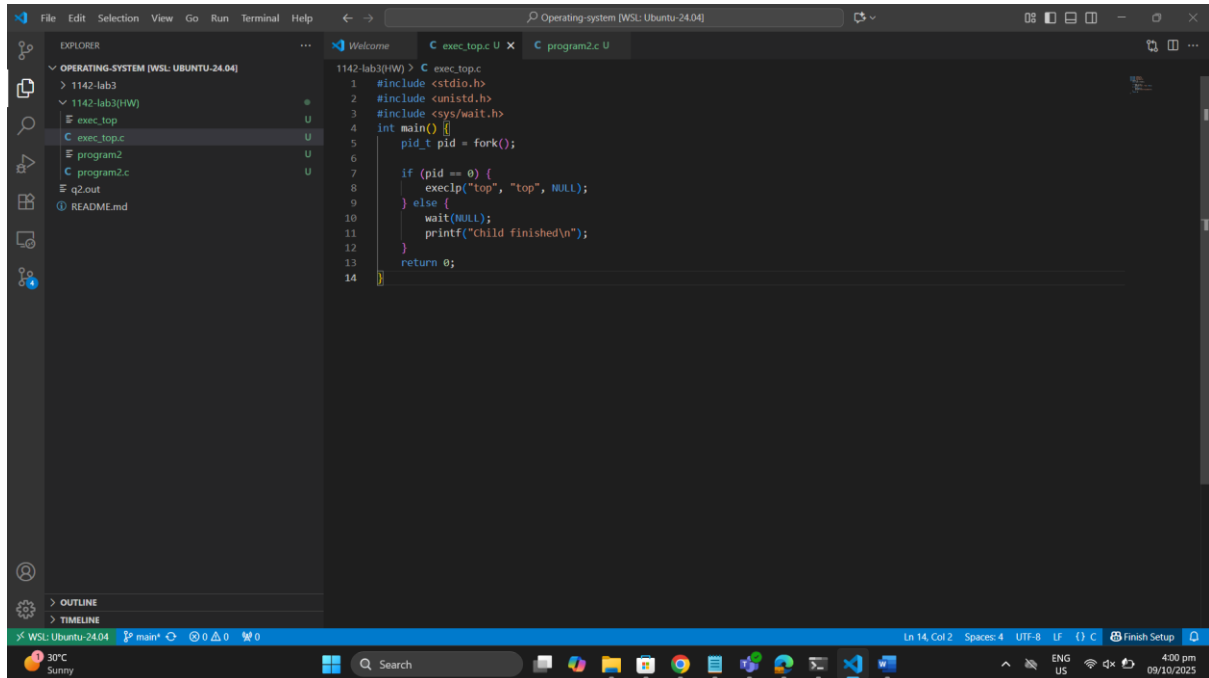
## Part 5: Linux Process Commands

```
ayema@DESKTOP-1VVHC56:/mnt/c/Users/HP$ cd ~/Lab_3/docs
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ ps -ef
UID          PID    PPID  C   STIME TTY          TIME CMD
root           1        0  0  15:23 ?        00:00:01 /sbin/init
root           2        1  0  15:23 ?        00:00:00 /
root           7        2  0  15:23 ?        00:00:00 plan9 --control-socket 7 --log-level 4 --server-fd 8 --pipe-fd 10 --log-truncate
root          43        1  0  15:23 ?        00:00:00 /usr/lib/systemd/systemd-journald
root          96        1  0  15:23 ?        00:00:00 /usr/lib/systemd/systemd-udevd
systemd+     121        1  0  15:23 ?        00:00:00 /usr/lib/systemd/systemd-resolved
systemd+     134        1  0  15:23 ?        00:00:00 /usr/lib/systemd/systemd-timesyncd
root         161        1  0  15:23 ?        00:00:00 /usr/sbin/cron -f -P
message+    162        1  0  15:23 ?        00:00:00 @dbus-daemon --system --address=systemd: --nofork --nopidfile --systemd-activation --syslog-only
root        169        1  0  15:23 ?        00:00:00 /usr/lib/systemd/systemd-logind
root        171        1  0  15:23 ?        00:00:00 /usr/libexec/wnsl-pro-service -vv
root        174        1  0  15:23 hvc0    00:00:00 /sbin/agetty -o -p -- \u --noclear --keep-baud - 115200,38400,9600 vt220
root        190        1  0  15:23 ?        00:00:00 /sbin/agetty -o -p -- \u --noclear - linux
syslog      191        1  0  15:23 ?        00:00:00 /usr/sbin/rsyslogd -n -iNONE
root        197        1  0  15:23 ?        00:00:00 /usr/bin/python3 /usr/share/unattended-upgrades/unattended-upgrade-shutdown --wait-for-signal
root        288        2  0  15:23 pts/1    00:00:00 /bin/login -f
ayema       334        1  0  15:23 ?        00:00:00 /usr/lib/systemd/systemd --user
ayema       337       334  0  15:23 ?        00:00:00 (sd-pam)
ayema       361       288  0  15:23 pts/1    00:00:00 -bash
root        397        2  0  15:23 ?        00:00:00 /init
root        398       397  0  15:23 ?        00:00:00 /init
ayema       402       398  0  15:23 pts/0    00:00:00 -bash
root        438        2  0  15:29 ?        00:00:00 /init
root        440       438  0  15:29 ?        00:00:00 /init
ayema       442       440  0  15:29 pts/2    00:00:00 -bash
root        458        2  0  15:30 ?        00:00:00 /init
root        460       458  0  15:30 ?        00:00:00 /init
ayema       462       460  0  15:30 pts/3    00:00:00 -bash
root        481        2  0  15:31 ?        00:00:00 /init
root        482       481  0  15:31 ?        00:00:00 /init
ayema       487       482  0  15:31 pts/4    00:00:00 -bash
root        503        2  0  15:32 ?        00:00:00 /init
root        504       503  0  15:32 ?        00:00:00 /init
ayema       508       504  0  15:32 pts/5    00:00:00 -bash
root        537        2  0  15:35 ?        00:00:00 /init
root        538       537  0  15:35 ?        00:00:00 /init
ayema       543       538  0  15:35 pts/6    00:00:00 -bash
root        562        2  0  15:35 ?        00:00:00 /init
```

```
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ ps -ef | grep yes
ayema       582       568  99  15:37 pts/7    00:00:06 yes
ayema       584       568  0  15:37 pts/7    00:00:00 grep --color=auto yes
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ kill <PID>
-bash: syntax error near unexpected token `newline'
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ ps -ef | grep yes
ayema       582       568  99  15:37 pts/7    00:00:19 yes
ayema       586       568  0  15:37 pts/7    00:00:00 grep --color=auto yes
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ sleep 60
^C
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ sleep 60 &
[2] 588
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ fg
sleep 60
^Z
[2]+  Stopped                  sleep 60
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ bg
[2]+ sleep 60 &
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$ gcc exec_top.c -o exec_top
cc1: fatal error: exec_top.c: No such file or directory
compilation terminated.
[2]+  Done                    sleep 60
ayema@DESKTOP-1VVHC56:~/Lab_3/docs$
```

## Part 6: Program on program

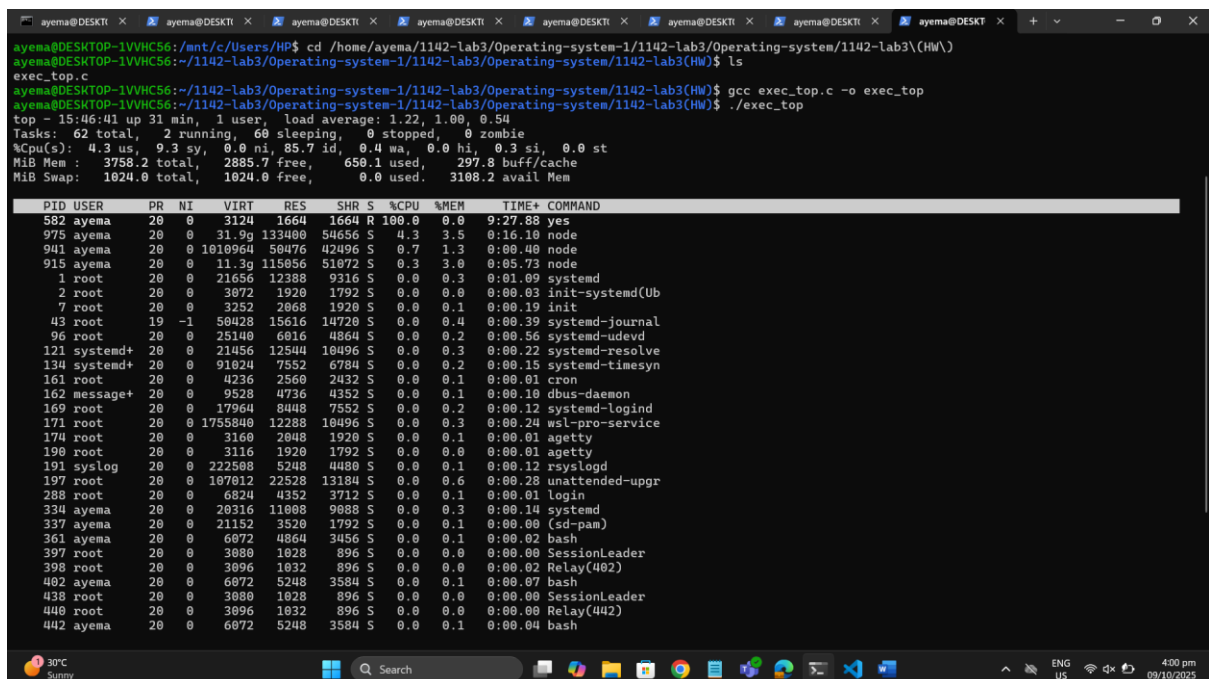
### 1. Program with exec\_top.c



```
File Edit Selection View Go Run Terminal Help
Operating-system [WSL Ubuntu-24.04]

EXPLORER
> 1142-lab3
  > 1142-lab3(HW)
    exec_top.c
    exec_top.c
    program2
    program2.c
    q2.out
    README.md

1142-lab3(HW) > C exec_top.c
1 #include <stdio.h>
2 #include <unistd.h>
3 #include <sys/wait.h>
4 int main() {
5     pid_t pid = fork();
6     if (pid == 0) {
7         execvp("top", "top", NULL);
8     } else {
9         wait(NULL);
10        printf("Child finished\n");
11    }
12    return 0;
13 }
14
```



```
ayema@DESKTOP-1VVHC56:~/mnt/c/Users/HP$ cd /home/ayema/1142-lab3/Operating-system-1/1142-lab3/Operating-system/1142-lab3(HW)
ayema@DESKTOP-1VVHC56:~/1142-lab3/Operating-system-1/1142-lab3/Operating-system/1142-lab3(HW)$ ls
exec_top.c
ayema@DESKTOP-1VVHC56:~/1142-lab3/Operating-system-1/1142-lab3/Operating-system/1142-lab3(HW)$ gcc exec_top.c -o exec_top
ayema@DESKTOP-1VVHC56:~/1142-lab3/Operating-system-1/1142-lab3/Operating-system/1142-lab3(HW)$ ./exec_top
top - 15:46:41 up 31 min, 1 user, load average: 1.22, 1.00, 0.54
Tasks: 62 total, 2 running, 60 sleeping, 0 stopped, 0 zombie
%Cpu(s): 4.3 us, 9.3 sy, 0.0 ni, 85.7 id, 0.4 wa, 0.0 hi, 0.3 si, 0.0 st
MiB Mem : 3758.2 total, 2885.7 free, 650.1 used, 297.8 buff/cache
MiB Swap: 1024.0 total, 1024.0 free, 0.0 used, 3108.2 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR   S %CPU  %MEM    TIME+  COMMAND
  582 ayema      20   0    3124    1654    1664  R 100.0   0.0   9:27.38  Yes
  975 ayema      20   0    31.9g  133400  54656  S   4.3   3.5   0:16.10  node
  941 ayema      20   0 1010964  50476  42496  S   0.7   1.3   0:00.40  node
  915 ayema      20   0    11.3g  115856  51072  S   0.3   3.0   0:05.73  node
    1 root        20   0    21656   12388   9316  S   0.0   0.3   0:01.09  systemd
    2 root        20   0    3072    1920    1792  S   0.0   0.0   0:00.03  init-systemd(Ub
    7 root        20   0    3252    2068    1920  S   0.0   0.1   0:00.19  init
   43 root       19  -1   50428   15616  14720  S   0.0   0.4   0:00.39  systemd-journal
   96 root        20   0    25140    6016   4864  S   0.0   0.2   0:00.56  systemd-udev
  121 systemd+    20   0    21456   12544   10496  S   0.0   0.3   0:00.22  systemd-resolve
  134 systemd+    20   0   91024    7552   6780  S   0.0   0.2   0:00.15  systemd-timesyn
  161 root        20   0    4236    2560   2432  S   0.0   0.1   0:00.01  cron
  162 message+    20   0    9528   4736   4352  S   0.0   0.1   0:00.10  dbus-daemon
  169 root        20   0   17964    8448   7552  S   0.0   0.2   0:00.12  systemd-logind
  171 root        20   0 1755840  12288  10496  S   0.0   0.3   0:00.24  wsl-pro-service
  174 root        20   0    3160    2048    1920  S   0.0   0.1   0:00.01  agetty
  190 root        20   0    3116    1920    1792  S   0.0   0.0   0:00.01  agetty
  191 syslog      20   0   222508    5248   4480  S   0.0   0.1   0:00.12  rsyslogd
  197 root        20   0  107012  22528  13184  S   0.0   0.6   0:00.28  unattended-upgr
  288 root        20   0    6824    4352   3712  S   0.0   0.1   0:00.01  login
  324 ayema      20   0   20316  11000   9080  S   0.0   0.3   0:00.14  systemd
  337 ayema      20   0   21152    3520   1792  S   0.0   0.1   0:00.00  (sd-pam)
  361 ayema      20   0    6072   4864   3456  S   0.0   0.1   0:00.02  bash
  397 root        20   0    3080    1028    896  S   0.0   0.0   0:00.00  SessionLeader
  398 root        20   0    3096    1032    896  S   0.0   0.0   0:00.02  Relay(402)
  402 ayema      20   0    6072    5248   3584  S   0.0   0.1   0:00.07  bash
  438 root        20   0    3080    1028    896  S   0.0   0.0   0:00.00  SessionLeader
  440 root        20   0    3096    1032    896  S   0.0   0.0   0:00.00  Relay(442)
  442 ayema      20   0    6072    5248   3584  S   0.0   0.1   0:00.04  bash
```

## 2: Incomplete Program:

```
ayema@DESKTl x ayema@DESKTl x ayema@DESKTl x ayema@DESKTl x ayema@DESKTl x ayema@DESKTl x ayema@DESKTl x ayema@DESKTl x
915 ayema 20 0 11.3g 115056 51072 S 0.3 3.0 0:05.73 node
1 root 20 0 21656 12388 9316 S 0.0 0.3 0:01.09 systemd
2 root 20 0 3072 1920 1792 S 0.0 0.0 0:00.03 init-systemd(Ub
7 root 20 0 3252 2068 1920 S 0.0 0.1 0:00.19 init
43 root 19 -1 50428 15616 14720 S 0.0 0.4 0:00.39 systemd-journal
96 root 20 0 25140 6016 4864 S 0.0 0.2 0:00.56 systemd-udev
121 systemd+ 20 0 21456 12544 10496 S 0.0 0.3 0:00.22 systemd-resolve
134 systemd+ 20 0 91024 7552 6784 S 0.0 0.2 0:00.15 systemd-timesyn
161 root 20 0 4236 2560 2432 S 0.0 0.1 0:00.01 cron
162 message+ 20 0 9528 4736 4352 S 0.0 0.1 0:00.10 dbus-daemon
169 root 20 0 17964 8448 7552 S 0.0 0.2 0:00.12 systemd-logind
171 root 20 0 1755840 12288 10496 S 0.0 0.3 0:00.24 wsl-pro-service
174 root 20 0 3160 2048 1920 S 0.0 0.1 0:00.01 agetty
190 root 20 0 3116 1920 1792 S 0.0 0.0 0:00.01 agetty
191 syslog 20 0 22508 5248 4480 S 0.0 0.1 0:00.12 rsyslogd
197 root 20 0 107012 22528 13184 S 0.0 0.6 0:00.28 unattended-upgr
288 root 20 0 6824 4352 3712 S 0.0 0.1 0:00.01 login
334 ayema 20 0 20316 11008 9088 S 0.0 0.3 0:00.14 systemd
337 ayema 20 0 21152 3520 1792 S 0.0 0.1 0:00.00 (sd-pam)
361 ayema 20 0 6072 4864 3456 S 0.0 0.1 0:00.02 bash
397 root 20 0 3080 1028 896 S 0.0 0.0 0:00.00 SessionLeader
398 root 20 0 3096 1032 896 S 0.0 0.0 0:00.02 Relay(402)
402 ayema 20 0 6072 5248 3584 S 0.0 0.1 0:00.07 bash
438 root 20 0 3080 1028 896 S 0.0 0.0 0:00.00 SessionLeader
440 root 20 0 3096 1032 896 S 0.0 0.0 0:00.00 Relay(442)
442 ayema 20 0 6072 5248 3584 S 0.0 0.1 0:00.04 bash
458 root 20 0 3080 1028 896 S 0.0 0.0 0:00.00 SessionLeader
460 root 20 0 3096 1032 896 S 0.0 0.0 0:00.00 Relay(462)
462 ayema 20 0 6072 5248 3584 S 0.0 0.1 0:00.04 bash
481 root 20 0 3080 1028 896 S 0.0 0.0 0:00.00 SessionLeader
482 root 20 0 3096 1032 896 S 0.0 0.0 0:00.00 Relay(487)
Child finished
ayema@DESKTOP-1VVHC56:~/1142-lab3/Operating-system-1/1142-lab3/Operating-system/1142-lab3(HM)$ ps -ef | grep top
ayema 2365 2019 0 15:47 pts/11 00:00:00 grep --color=auto top
ayema@DESKTOP-1VVHC56:~/1142-lab3/Operating-system-1/1142-lab3/Operating-system/1142-lab3(HM)$ kill <PID>
-bash: syntax error near unexpected token 'newline'
ayema@DESKTOP-1VVHC56:~/1142-lab3/Operating-system-1/1142-lab3/Operating-system/1142-lab3(HM)$ gcc program2.c -o program2
ayema@DESKTOP-1VVHC56:~/1142-lab3/Operating-system-1/1142-lab3/Operating-system/1142-lab3(HM)$ ./program2
Thu Oct 9 15:48:58 PKT 2025
Child finished
ayema@DESKTOP-1VVHC56:~/1142-lab3/Operating-system-1/1142-lab3/Operating-system/1142-lab3(HM)$ |
```