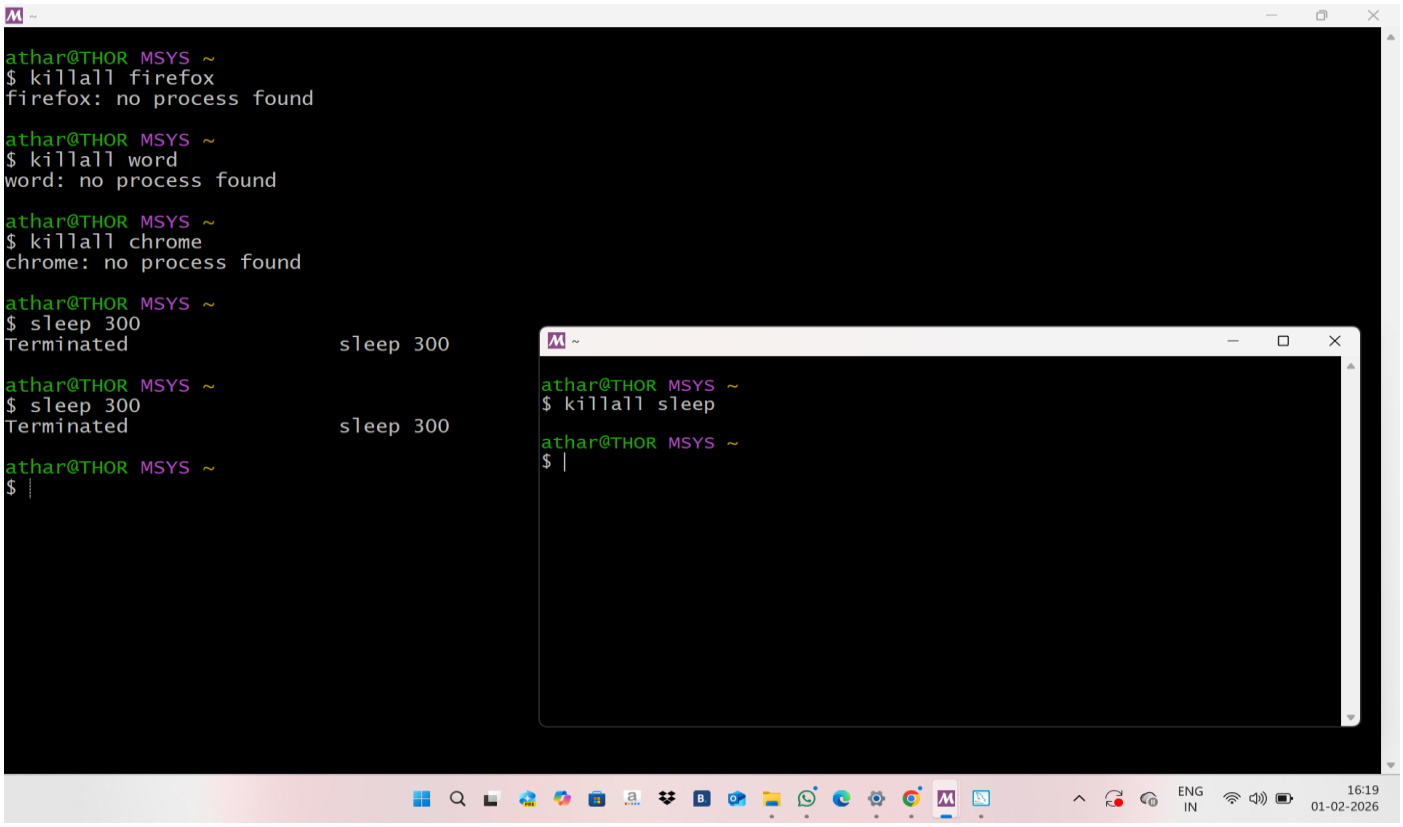
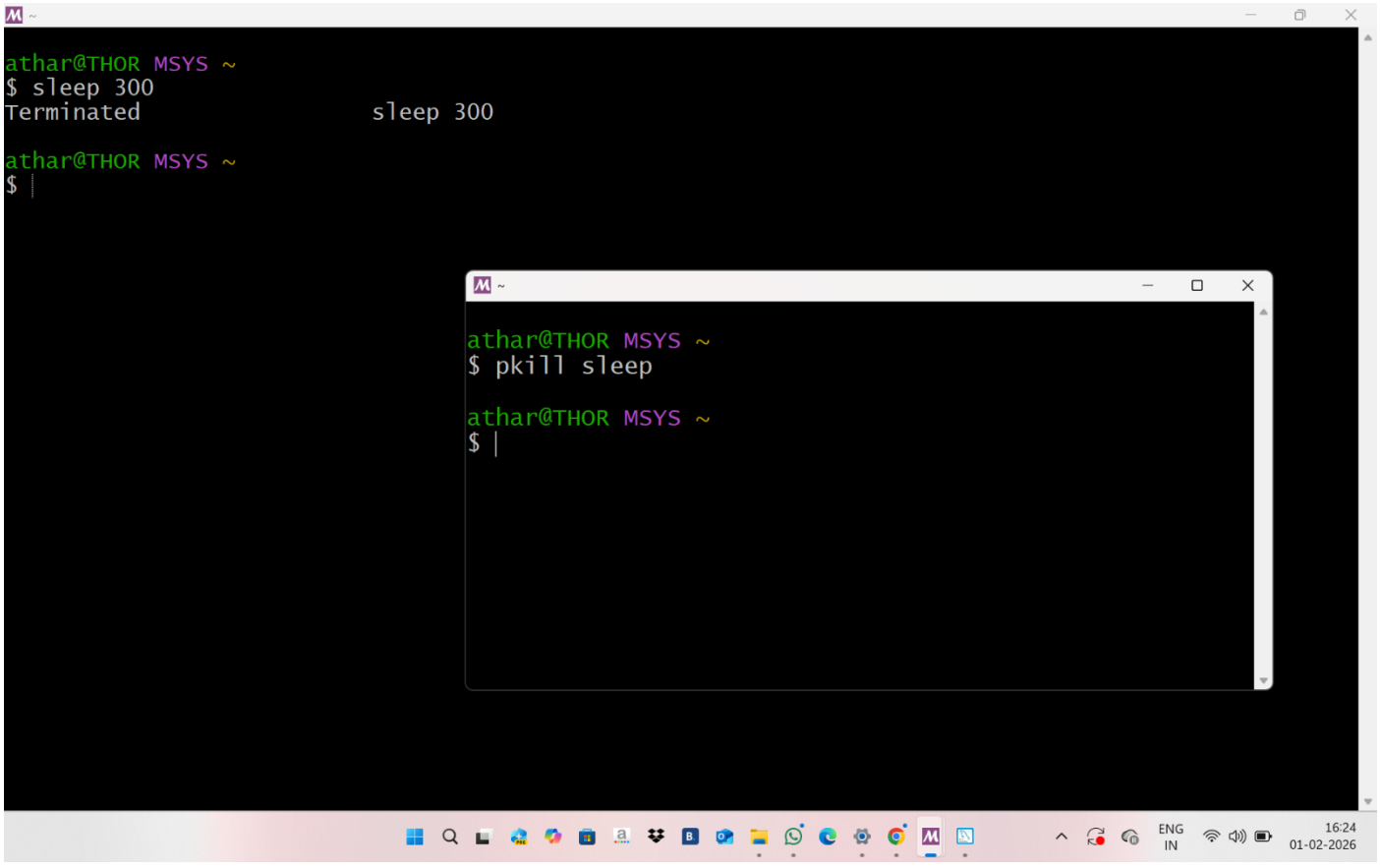
1. LINUX operating system. Which commands will he use to complete the given task with the help of the following operation?

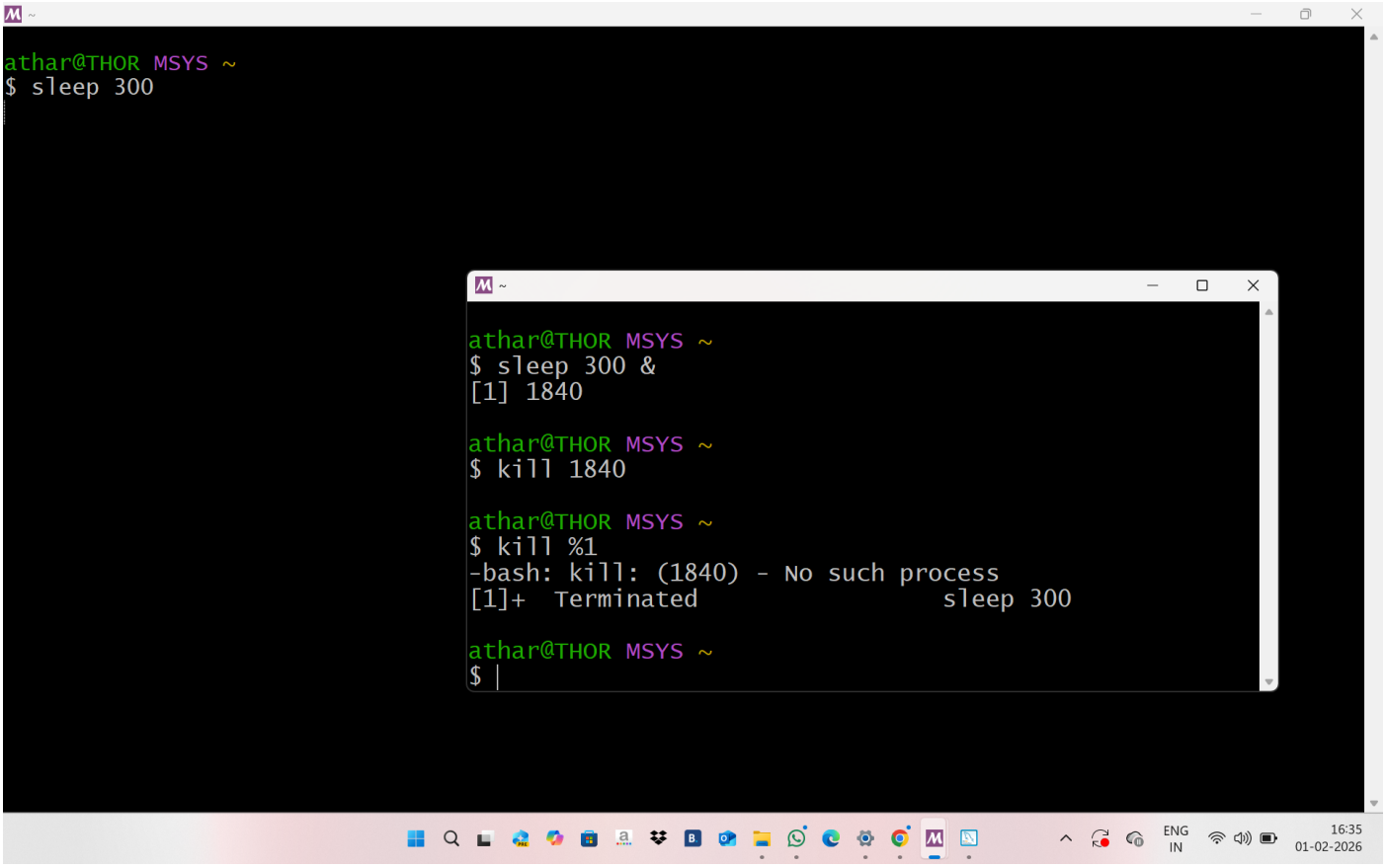
●Kill processes by name

●Kill a process based on the process name

●Kill a single process at a time with the given process ID





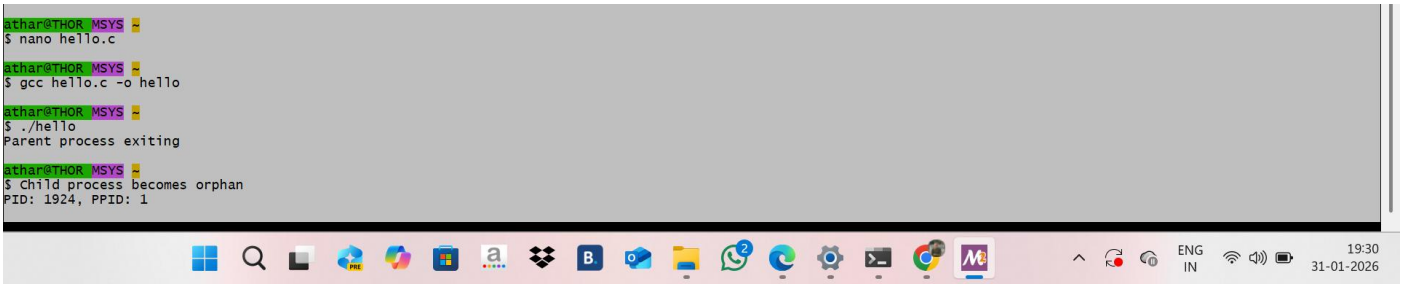


2 .Write a program for process creation using C

●Orphan Process

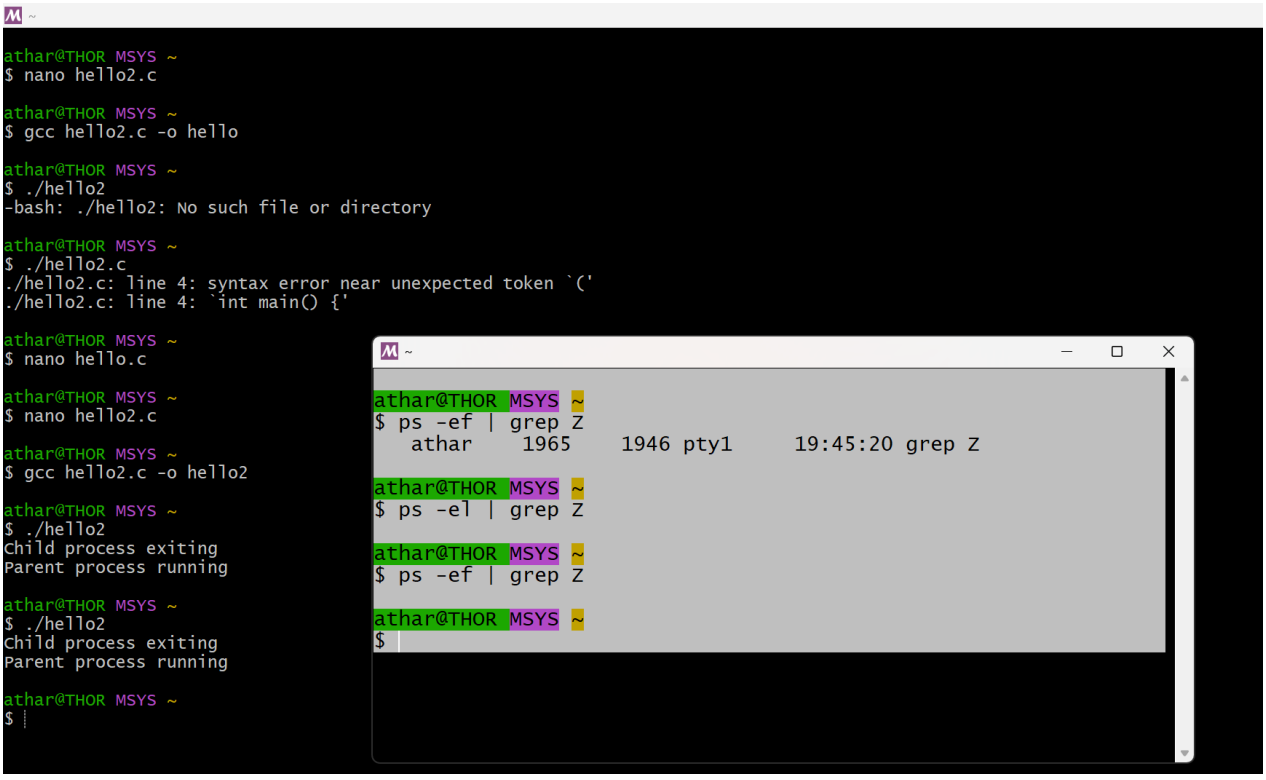
●Zombie Process

orphan process



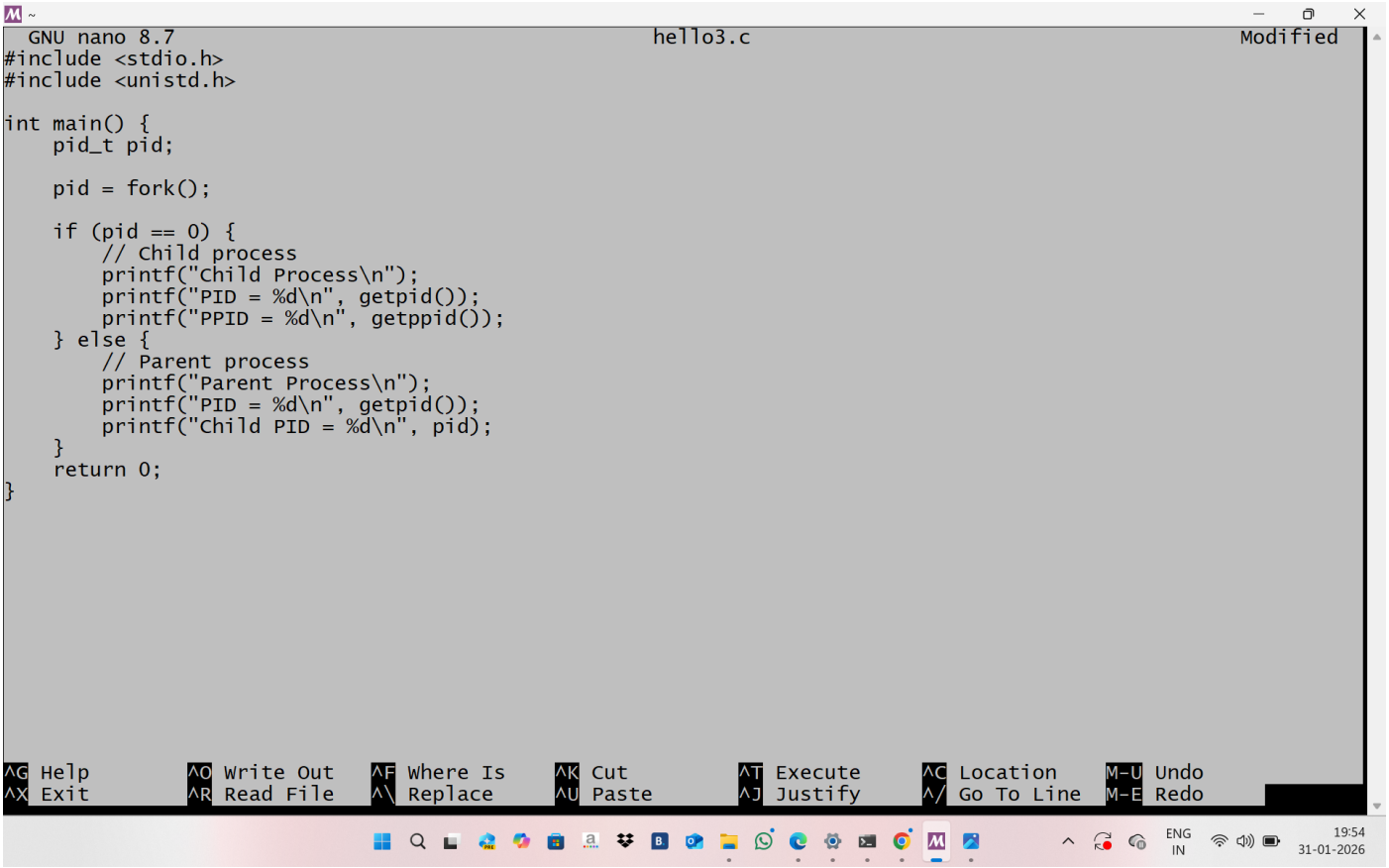
zombie Process

```
~
  GNU nano 8.7                                          hello2.c
#include <stdio.h>
#include <unistd.h>

int main() {
    pid_t pid = fork();

    if (pid == 0) {
        // Child process
        printf("Child process exiting\n");
    } else {
        // Parent process
        sleep(10);   // Parent does not call wait()
        printf("Parent process running\n");
    }

    return 0;
}
```



3. Create the process using fork () system call.

- **Child Process creation**
- **Parent process creation**
- **PPID and PID**


~
GNU nano 8.7 hello3.c Modified
#include <stdio.h>
#include <unistd.h>
int main() {
pid_t pid;
pid = fork();
if (pid == 0) {
// Child process
printf("Child Process\n");
printf("PID = %d\n", getpid());
printf("PPID = %d\n", getppid());
} else {
// Parent process
printf("Parent Process\n");
printf("PID = %d\n", getpid());
printf("Child PID = %d\n", pid);
}
return 0;
}
^G Help ^O Write Out ^F Where Is ^K Cut ^T Execute ^C Location M-U Undo
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo
ENG IN
19:54
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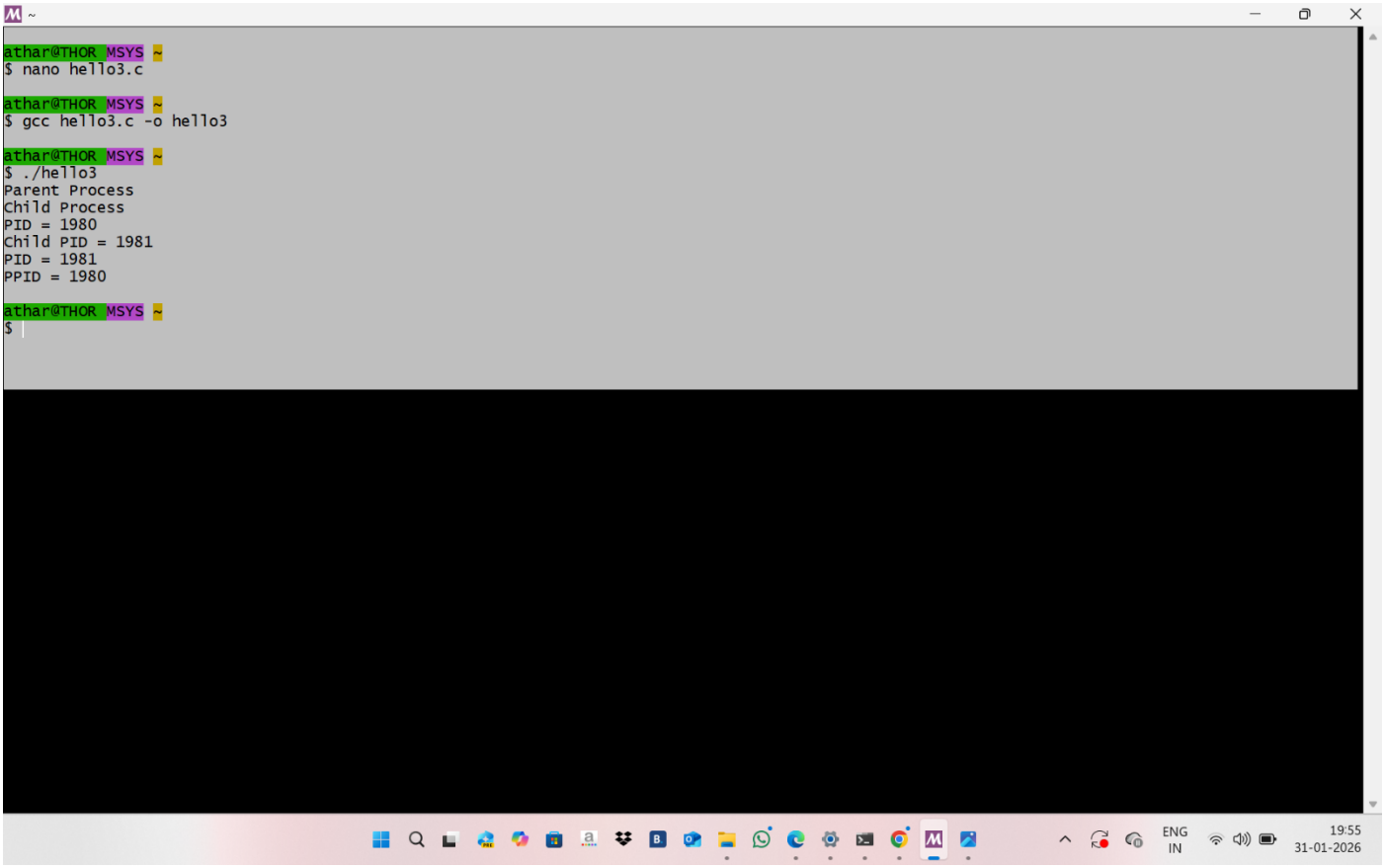
~
athar@THOR MSYS ~
$ nano hello3.c
athar@THOR MSYS ~
$ gcc hello3.c -o hello3
athar@THOR MSYS ~
$ ./hello3
Parent Process
Child Process
PID = 1980
Child PID = 1981
PID = 1981
PPID = 1980
athar@THOR MSYS ~
$
ENG IN
19:55
31-01-2026