

## Ex 5 SYSTEM CALLS

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liveuser@localhost-live:~  
liveuser@localhost-live:~$ cat > fork.c  
// File: forkdemo.c  
#include <stdio.h>  
#include <stdlib.h>  
#include <unistd.h>  
  
int main() {  
    int pid;  
  
    pid = fork(); // Create new process  
  
    printf("THIS LINE EXECUTED TWICE\n");  
  
    if (pid == -1) {  
        printf("CHILD PROCESS NOT CREATED\n");  
        exit(0);  
    }  
  
    if (pid == 0) {  
        // Child process  
        printf("CHILD PROCESS\n");  
        printf("Child PID: %d\n", getpid());  
        printf("Parent PID: %d\n", getppid());  
    } else {  
        // Parent process  
        printf("PARENT PROCESS\n");  
        printf("Parent PID: %d\n", getpid());  
        printf("Parent's Parent PID: %d\n", getppid());  
    }  
  
    printf("IT CAN BE EXECUTED TWICE\n");  
  
    return 0;  
}  
liveuser@localhost-live:~$ gcc fork.c -o fork  
liveuser@localhost-live:~$ ./fork  
THIS LINE EXECUTED TWICE  
THIS LINE EXECUTED TWICE  
PARENT PROCESS  
Parent PID: 4465  
Parent's Parent PID: 4426  
IT CAN BE EXECUTED TWICE  
CHILD PROCESS  
Child PID: 4466  
Parent PID: 4465  
IT CAN BE EXECUTED TWICE  
liveuser@localhost-live:~$
```