**Write a C program to fork a seperate process using fork() or exec() systel calls.**

#include <stdio.h>

#include <unistd.h>

#include <sys/wait.h>

int main() {

pid\_t pid;

pid = fork(); // create a new process

if (pid == -1) {

// error occurred

fprintf(stderr, "Failed to fork()\n");

return 1;

} else if (pid == 0) {

// child process

printf("Hello from child process! My PID is %d\n", getpid());

execlp("/bin/ls", "ls", NULL);

printf("This line should never be printed!\n");

return 1;

} else {

// parent process

printf("Hello from parent process! My PID is %d and my child's PID is %d\n", getpid(), pid);

wait(NULL); // wait for child process to finish

printf("Child process finished\n");

return 0;

}

}

