Unix Process Control System calls

#include <stdio.h> #include <stdlib.h> #include <unistd.h> #include <sys/wait.h>

int main() { pid\_t pid;

// Fork a child process

pid = fork();

if (pid < 0) {

// Fork failed

fprintf(stderr, "Fork failed\n"); return 1;

**}**

else if (pid == 0) {

// Child process

printf("Child process: My PID is %d\n", getpid()); sleep(20);

printf(“Executing the child process ….\n”);

execlp("/bin/ls", "ls", NULL); // Example: executing 'ls' command

// execlp failed only if the specified command doesn't exist perror("execlp");

exit(1);

**}**

else {

// Parent process

printf("Parent process: My PID is %d\n", getpid()); printf("child process sleeping for 20 seconds \n");

// Wait for the child to finish wait(NULL);

printf("Parent process: Child process has terminated\n");

**}**

return 0;

**}**