Ex. No.: 5 Date: 13 | 02 | 2 6 2 5 **System Calls Programming** Aim: To experiment system calls using fork(), execlp() and pid() functions. Algorithm: 1. Start Include the required header files (stdio.h and stdlib.h). Variable Declaration o Declare an integer variable pid to hold the process ID. Call the fork() function to create a new process. Store the return value in the pid variable: 3. Create a Process If fork() returns: -1: Forking failed (child process not created). 0: Process is the child process. Positive integer. Process is the parent process. 4. Print Statement Executed Twice o Print the statement: scss Copy code THIS LINE EXECUTED TWICE (This line is executed by both parent and child processes after fork()). 5. Check for Process Creation Failure o If pid = -1: Print: Copy code CHILD PROCESS NOT CREATED Exit the program using exit(0). 6. Child Process Execution o If pid == 0 (child process): Process ID of the child process using getpid(). Print: Parent process ID of the child process using getppid(). 7. Parent Process Execution If pid > 0 (parent process): Print: Process ID of the parent process using getpid(). Parent's parent process ID using getppid(). 8. Final Print Statement Print the statement: objectivec 32



