University of Engineering and Technology, Lahore Operating System

Semester: 6th Session: 2019-2023

Classwork-2 (Individual) System Calls-→ Process Control System Calls

Task 1
Write a C/C++ Program to to create a great grandchild of a process i.e.,
Parent-> Child -> Child,
Do incorporate checks to ensure that no extra siblings
are created.
Task 2
AIM:
To load an executable program in a child processes exec system call.
ALGORITHM:
1. Firstly create a text file named data.txt in which write "My name is (YOUR
NAME) and my roll number is(YOUR ROLL NUMBER)".
2. Create a program named "test.c". In this program read this text file.
3. Now create a new program named "exec.c". In this program create a child process and in that
child load the program "test.c".
4. If return value is -1 then
a. Print "Process creation unsuccessful"
b. Terminate using exit system call.
5. Stop.

Hints:

```
#include <unistd.h> /* for fork */
#include <sys/types.h> /* for pid_t */
#include <sys/wait.h> /* for wait */
```