**Government College University, Lahore**

**Operating Systems Lab.**

**Semester: 5th Session: 2019-23**

**Section: A/B/C**

**Assignment-3 (Individual)**

**Submission Date:** Next Lab (Before 08:00 AM)

**Note**: Understanding the assignment is part of the assignment.

**AIM:**

To load an executable program in a child processes exec system call.

**ALGORITHM:**

**1.** Create a text file named myInfo.txt in which write “My name is \_\_\_\_\_\_\_\_\_ (YOUR NAME) and my roll number is \_\_\_\_\_\_\_\_(YOUR ROLL NUMBER)“.

**2.** Create a file named “readFile.c”. In this program read this text file (myInfo.txt).

**3.** Now create a new file named “forkExec.c”. In this program create a child process and, in that child, load the program “readFile.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 \*/