

## Lab 4: System Calls using C

### IT-204

February 1, 2016

1. Write a C program to create the process using `fork()` and display the parent and child process ID using `getpid()` and `getppid()` system calls, respectively.
2. Write a C program to demonstrate the `execl()` system call for (1) display the content of directory (command: `ls`)(2) display the process tree (command: `ps`).
3. Write a C program to demonstrate `wait` and `sleep` system calls return the pid of the child that terminated.
4. Write a C program to create the multiple processes using `fork()` and display the process IDs and their parent process IDs in hierarchy.
5. Write C program to display the directory content using `readdir` system call.
6. Write a c program to interrupt and terminate the current process using signal handlers. (use `SIGINT` i.e., Ctrl-C to interrupt and Ctrl-\ to kill the process)