**Operating System and Design (19CS2106S)**

**Lab- 6**

**Pre-Lab:**

POSIX signals. sigaction: This call specifies the signal handler. Two of the arguments to this call specify a structure that is also named sigaction. alarm: The alarm call is used in the next example to set a timer that generates the SIGALRM signal after the timeout period. The library function sleep uses alarm. pause: This is somewhat like the shell’s read statement. It holds up program execution until a signal is received. kill: You can send a signal to a process using this system call. A library function, raise, uses kill to send any signal to the current process.

**In-Lab:**

1. signal.c -- Waits for 5 seconds for user input and then
2. Generates SIGALRM that has a handler specifiedkillproce ss.c -- Uses fork and exec to run a user-defined programand kills it if it doesn’t complete in 5 seconds.

**Post-Lab:**

1. mynice.c: A child process inherits its priority value from its parent, and change it by using

nice ()

2. program to demonstrate time and times System Call.