**CS-418 L01 – Operating Systems**

**Homework 2 – Processes**

**Points: 75**

**Experimenting with Linux Processes**

***Requirement***

*Build processes\_lkm module and segments program; display captured output.*

***Deliverable***

*Provide a brief description of the captured output and the outputs of the LKM and segments program. Save all the captures in single file and add your brief comments. Submit this file.*

***Procedure***

/\* Get the **Hw 2 files** \*/

You will need to open 4 terminals.

/\* In Terminal #1 \*/

Step 1) Compile kernel module (processes\_lkm.c)

Step 2) Build then run the segments program (gcc -o segments segments.c)

# ./segments

/\* In Terminal #2 \*/

Step 3) Display and capture the output of the segments program (*deliverable*)

# ps –ef | grep segments

/\* In Terminal #3 \*/

Step 4) grep output from LKM and capture it (*deliverable*)

# tail –f /var/log/syslog | grep cs418

/\* In Terminal #4 \*/

Step 5) compile and install LKM

# sudo insmod processes\_lkm.ko

Step 6) remove LKM

# sudo rmmod process\_lkm.ko

Step 7) Describe the output for both in a few sentences. (i.e., are they both running in kernel space, what is output is captured, why are they different or why are they the same, etc.) (*deliverable*)

/\* See ***Deliverables*** above for what to submit for this assignment \*/