CISC 3320

Homework 2

Author: Alejandro Fernandez Hernandez

Roles: all

Homework 2 **main.cpp**

<u>PidManager functions</u>

• allocateMap(): - Description: Creates and initializes a data structure for representing pids; returns -1 if unsuccessful and 1 if successful

> - Parameters: None - Function: To create and initialize a data structure for representing pids.

• allocatePid(): - Description:) – Allocates and returns a pid; returns -1 if if unable to allocate a pid

> (All pids are in use)

> - Parameters: None - Function: To allocate and return a pid.

• releasePid(int pid): - Description: Release a PID

> - Parameters: pid – the pid to be released - Function: To release a pid, which indicates that the pid is no longer in use

routine_thread() – Description: Function used inside the Threads, it will request a PID, sleep a random time, and then release the PID.

> -Parameters:None