**CECS 326-03** (326 is section 3)

Operating Systems

Yung Nguyen (ID 015599829)

Assignment 2

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Program Description

This program demonstrates the mechanism of child processes, concurrency, message queue and the many functions associated with it (msgget(), msgctl(),msgsnd(), msgrcv())

The program spawn two child processes (child\_proc\_one and child\_proc\_two) each with a unique process queue id using mssget(). The two child processes communicates with each other using msgsnd() and msgrcv(). Note that whenever a child sends a message, the mtype of buffer must match. Child 1 waits for the message sent from child 2 and prints it. Chil1 then sends a modified message to child 2 and exits. Child 2 receives the message, prints it and exits as well. Parent process, while waiting for the child processes to end, send the msgctl command, providing message operations, and signaling the deletion of the data when the parent process exits. After the child exits, the parent process notifies that it will now exit, displaying its pid, and exits. The program is then terminated.