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

**Lab- 10**

**Pre-Lab:**

**Message queues**: msgget() msgsnd() msgrcv() msgctl() shmget()

**Shared memory:** shmat() shmdt() shmctl() Creating and Terminating Threads: pthread\_create (thread,attr,start\_routine ,arg) pthread\_exit (status) pthread\_cancel (thread) joining and Detaching Threads: pthread\_join (threadid,status) pthread\_detach (threadid) pthread\_self () pthread\_equal (thread1,thread2)

**In-Lab:**

1. System V shared memory.
2. Write a program to create 5 pthreads and display Hello world. Main thread should wait until all new threads are terminated. Use Simpler Argument Passing to a Thread.

**Post-Lab:**

1. System V message queues.