**Operating Systems Lab 2022**

**Assignment Set 5 :**

**Submission Deadline 17th Nov 2022**

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**Objectives: to learn the following:**

* **Use of semaphores for process creation**

A1) Write program in C where the parent thread creates 10 threads to find prime number. The child threads increments the count of primes in a Globally declared integer variable Count. The acess to Count should be protected by semaphores. Solve the problem using POSIX unnamed semaphores.

A2) Solve the above problem A1 by creating multiple process instead of threads and implement access synchronization using named semaphores.

A3) Implement a solution for the producer-consumer (infinite buffer) problem using semaphores.