



संगणक विज्ञान एवं अभियांत्रिकी विभाग
मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद
इलाहाबाद-211004 (भारत)

Department of Computer Science & Engineering
Motilal Nehru National Institute of Technology Allahabad
Allahabad - 211 004 (India)

Class: B.Tech.-7th Semester

Subject: Distributed System Lab (CS-17201)

ASSIGNMENT-2

1. Suppose there exists a file and you have to read, write and update the file concurrently.
 - (i) Write a multithreaded program such that, there should be different threads for all different tasks and each thread access the file synchronously. Note: Use Mutex
 - (ii) Write a program to implement a deadlock scenario, in which two threads are accessing two resources concurrently.
 - (iii) Write a program to implement for deadlock avoidance using conditional locking in which two threads are accessing two resources concurrently. Note: `userpthread_mutex_trylock()` function for conational locking.