Quiz#3
SE-5A

Time: 8 mins

Q#1.

What is the critical section problem in multithreading, and why is it important to use mechanisms like *pthread_mutex_lock* and *pthread_mutex_unlock*?

Ans: The critical section is a segment of code that accesses shared resources. Synchronization mechanisms like p**thread_mutex_lock** and **pthread_mutex_unlock** prevent simultaneous access, ensuring data consistency.

Q#2.

Write a program where **10 threads** increment a shared counter **1,000 times** each. Ensure the final counter value is consistent using a mutex for synchronization.