OS LAB ASSIGNMENT 2

Deadlocks & Process Synchronization

1. Write a C program to solve producer consumer problem using process synchronization.(Hint : one mutex to lock and two semaphores for monitoring list)

2. Write a C program to implement Banker's algorithm where the user needs to input – total number and types of resources and number of process with max requirement. The output must specify the best possible execution of the resources to be in safe state. (You can use the example explained in the class).

3. Write a C program to calculate turnaround time and waiting time for FCFS scheduling. Accept input from user for process numbers and burst time.