

OS Lab

Write a C program to simulate the following non-preemptive CPU scheduling algorithms to find turnaround time and waiting time for a given problem. a) FCFS, b) SJF

Write a C program to simulate the following preemptive CPU scheduling algorithms to find turnaround time and waiting time for a given problem. a) Round Robin b) Priority

Write a C program to simulate the following contiguous memory allocation techniques a) Worst fit, b) Best fit, c) First fit

Write a C program to simulate the following file allocation strategies. a) Sequential, b) Indexed

Write a C program to simulate Banker's algorithm for the purpose of Deadlock avoidance.

Write a C program to simulate Banker's algorithm for the purpose of Deadlock prevention.

Write a C program to simulate page replacement algorithm a) FIFO, b) LRU

Write a C program to simulate page replacement algorithm a) LFU, b) Optimal

Write a C program to simulate producer-consumer problem using semaphores.

Write a C program to simulate disk scheduling algorithms a) FCFS, b) SCAN