

Assignment – 3

1. What is critical section problem? Explain with example?
 2. What is Semaphore? Explain producer consumer problem using semaphore?
 3. Define process synchronization and explain Peterson solution algorithms?
 4. What is Monitor? Explain with any example using monitor?
 5. Explain Dining-Philosophers Problem with solution.
 6. a) Explain about Deadlock Avoidance?
b) Explain how recovery from deadlock?
 7. Explain Dead lock detection (Banker's Algorithm) with Example?
 8. Write about Deadlock Prevention Methods?
 9. Explain Semaphore in details.
 10. What is Semaphore? Give the implementation of Bounded Buffer Producer Consumer Problem using Semaphore.
 11. Explain IPC Problem – Readers & Writers Problem.
 12. What do you mean by Deadlock Avoidance? Explain the use of **Banker's Algorithm** for Deadlock Avoidance with illustration.
 13. What is Deadlock? List the conditions that lead to deadlock. How Deadlock can be prevented?
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