










FINAL TOPICS OF CSE321 Summer 2025 [Section 26,27]









#Process:

- **Book:**  operating-system-concepts-10th.pdf chapter: 3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.2, 3.3, 3.4
 - **Slides:**  Operating Systems-1-Process.pptx
 - **Practice Problems:**  Practice Problems on Fork.docx
 - **My resources:**  1. Process,  1.1 Process Example
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#Thread:

- **Book:**  operating-system-concepts-10th.pdf chapter: 4.1, 4.2, 4.3, 4.4.1, 4.5.1, 4.6.1, 4.6.2, 4.6.3
 - **Slides:**  Operating Systems-2-Threads.pptx
 - **Practice Problems:**  Practice Sheet_Threads.docx
 - **My Resources:**  2. Thread
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#Process Synchronization:

- **Book:**  operating-system-concepts-10th.pdf chapter: 6.1, 6.2, 6.4.2, 6.5, 6.6, 6.8.1, 7.1
 - **Slides:**  Operating Systems-4-Process synchronization.pptx
 - **Practice Problem:**  Practice Sheet_Process Synchronization.docx
 - **My Resources:**
 -  4.1 Process Synchronization Part 1 [Race Condition, Critical Section, Hardware B...
 -  4.2 Process Synchronization Part 2 [Mutex, Semaphore]
 - Classical Synchronization Problems Visualizations if needed [tracing the slide code will be more than enough though]
 -  The Bounded Buffer Problem
 -  The Dining Philosophers Problem
 -  The Readers Writers Problem
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#File System:

- **Book:** [MUST FOLLOW THESE TWO BOOKS]
 -  operating-system-concepts-10th.pdf chapter 11.1.1, 13.1.1, 13.1.2, 14.4.3
 -  Remzi H. Arpaci-Dusseau, Andrea C. Arpaci-Dusseau - Operating Systems - Three... Chapter 40: (File System Implementation), Chapter 42: (Crash Consistency: FSCK and Journaling)"
 - **Slides:**  Operating Systems-5-File Systems.pptx
 - **Practice Problem:**  File Systems_Practice Problems.docx
 - **My Resources:**
 -  5.1 File System Part 1 [Intro, File system, Operation, Allocation, INODE]
 -  5.2 File System Part 2 [VSFS, Access Path Timeline]
 -  5.3 File System Part 3 [Crash Constancy , Journaling]
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#Memory Management:

[I missed one topic: Optimal Page Replacement Algo, I am attaching the link at the last, Named **Memory 5**]

- **Book:**  operating-system-concepts-10th.pdf Chapter: 9.1.1, 9.1.3, 9.3, 9.4.1, 10.1, 10.2.1, 10.2.2, 10.4.2, 10.4.3, 10.4.4
- **Slides:**  Operating Systems-6-Memory Management.pptx
- **Practice Problem:**  Practice Sheet_Memory Management.docx
- **My Resources:**
 - **Memory 1:** <https://www.youtube.com/watch?v=PTvIPjwgAK8>
 - **Memory 2:**  6.2 Memory Management Part 2 [Paging, shared page, hierarchical pa...
 - **Memory 3:**  Memory Management Part 3 [Virtual Memory]
 - **Memory 4:** <https://youtu.be/wBeBAeohQ5w>
 - **Memory 5 [OPTIMAL PAGE REPLACEMENT ALGO]:**
 -  Optimal Page Replacement Algorithm | Operating System | Bangla Tutorial

All My Quiz Questions and repositories:

 [HFN] Student Repository CSE321