



	<p><b>Assignment:</b> Write a C program to implement round robin CPU scheduling algorithm for the following given scenario. All the processes in the system are divided into two categories – system processes and user processes. System processes are to be given higher priority than user processes. Consider the time quantum size for the system processes and user processes to be 5 msec and 2 msec respectively</p>
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<p><b>Week 4</b></p>	<p>Write a C program to simulate the following non-preemptive CPU Scheduling algorithms to find turnaround time and waiting time, average turnaround time and average waiting time.  c) Round Robin (pre-emptive) d) Priority</p> <p><b>Assignment:</b> Write a C program to implement round robin CPU scheduling algorithm for the following given scenario. All the processes in the system are divided into two categories – system processes and user processes. System processes are to be given higher priority than user processes. Consider the time quantum size for the system processes and user processes to be 5 msec and 2 msec respectively</p>
<p><b>Week 5</b></p>	<p>Write a C program to simulate multi level queue scheduling algorithm.  Assignment: Write a C program to simulate MFT memory management Scheme with unequal sized partitions</p>
<p><b>Week 6</b></p>	<p>Write a C program to simulate the following contiguous memory allocation techniques  a) Worst-fit                      b) Best-fit                      c) First-fit  <b>Assignment:</b>  Write a C program to implement compaction technique</p>
<p><b>Week 7</b></p>	<p>Write a C program to simulate page replacement algorithms  a) FIFO                      b) LRU                      c) Optimal</p>
<p><b>Week 8</b></p>	<p>Write a C program to simulate the following file organization techniques  a) Single level directory b) Two level directory c) Hierarchical  <b>Assignment:</b> Write a C program to simulate a two-level index scheme for file allocation?</p>

<b>Week 9</b>	Write a C program to simulate Bankers algorithm for the purpose of deadlock avoidance. Assignment: Write a C program to simulate readers-writers problem using monitors.
<b>Week 10</b>	Write a C program to simulate disk scheduling algorithms a) FCFS                      b) SCAN                      c) C-SCAN
<b>Week 11</b>	Write a C program to implement Dining philosophers problem

**Course Outcomes:**

- Upon the completion of Operating Systems practical course, the student will be able to gain practical experience with designing and implementing concepts of operating systems such as system calls, CPU scheduling, process management, memory management, file systems and deadlock handling, using C language in Linux environment.