# **Operating Systems**

# **LAB 06**

**Objective: Understand Memory Management**

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| **Exercise 1 – Paging Algorithm** | |
| * Write a C program to simulates Paging | |
| **Exercise 2 – Segmentation Algorithm** | |
| * Write a C program to simulates Segmentation | |
| **Exercise 4 – Other Techniques** | |
| 4.1 Simulate the following memory management techniques | |
| * MVT(Multiprogramming with a Variable number of Tasks) | |
| * MFT (Multiprogramming with a Fixed number of Tasks) | |
|  | |
| 4.2 Simulate the following contiguous memory allocation techniques | |
| * Worst-fit | |
| * Best-fit | |
| * First-fit | |
| **Exercise 5 – Simulate the following page replacement algorithms** | |
| * NRU (Not Recently Used) | * NFU(Not Frequently Used) |
| * FIFO (First-In, First-Out) | * Aging |
| * Second Chance | * Working Set |
| * Clock | * WSClock (Working Set Clock) |
| * LRU (Least recently Used) |  |