

LAB Assignment - 11

Operating Systems (UCS303)

Simulate and compare the performance of three-page replacement algorithms – FIFO (First-

In-First-Out), LRU (Least Recently Used), and Optimal – in a virtual memory management system.

Simulation and Analysis

Students will run the implemented algorithms on the same set of page references and analyze their performance.

- Create a set of sample page reference sequences.
- Run each of the three algorithms on the same page reference sequence.
- Record the number of page faults and the pages replaced for each algorithm.
- Analyze and compare the results for the different algorithms.