

Mini Project OS II

Simulation of Memory Manager and Job Scheduler

Write a program that can simulate

1. Virtual memory: Demand Paging Memory Allocation with at least 2-page replacement policies: FIFO, LRU.
The input of program should be a sequence of pages. i.e. abcfgde.
The output of program should be the number of page faults and success ratio.
2. Process Scheduler: with these scheduling algorithms: First-Come, First Served, Shortest Job Next, Shortest Remaining Time, Round Robin and Earliest Deadline First.
The input of program should be: number of jobs, arrival time of each job, CPU cycle time or execution time, deadlines only for EDF.
The output of program should be: the average turnaround time of each algorithm.

This project should be done as a team with maximum of **3 members** only.

Submit a source code and a short report about the project by **24th June 2022**.

Report Contents

1. Introduction
 - Objective of project
2. Implementation
 - Coding structure (Choice of programming language, data structure, number of functions, classes.. etc)
3. Result
 - a. Responsibility of each member (Group)
 - b. Successful function
 - c. Unsuccessful function (if any)
4. Conclusion
 - a. Difficulty and Experience