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