Operating System Concepts Presented by Dr. Fatemeh Halataei
University of Tehran-Fall 2022

❖ Please note that you can choose one of the project options below and there is no additional score for doing both projects.

Project 1:

Fully implement and explain one of the core algorithms of the operating system. It can be CPU scheduling, deadlock prevention, memory management, etc. You may feel free to choose from the algorithms presented in the class or any other source.

Project 2:

Choose one of the topics mentioned in your textbook or any other source which preferably hadn't been explained fully in your class or even better, in the textbook. Please choose a concept that has the potential to have a code implementation, and detailed and complex explanation. If you feel the concept can be presented in a very short report, please choose a more complex topic.

Important notes:

For both Projects, suppose you are presenting the concepts to someone knowing nothing about it, for the first time. You have to fully explain what the algorithms and concepts do, their obstacles and possible problems if there are any, their full implementation in any programming language (preferably C++) and any other note that you feel is important to mention for a better comprehension.

Please submit your project in elearn, in the format of a zip file containing your code files and a pdf file which would be your full report. Please explain your codes in your report file in detail.

Name your zip file like so:
FirstnameLastname-Studentnumber-OSproject.zip
Example: KimiaEsmaili-610398000-OSproject.zip

Best of luck!