

**Operating System -1**  
**Projects**  
**General Instructions**

- You will implement one of the following scheduling algorithms (just simulation) with any programming language.
  - GUI is a must and has a big part of the score (Gantt Chart must be provided).
- Number of processes should be user defined (i.e. user enters them at run time).
- All process data (i.e. process arrival time, burst time) must be user defined.
- Validation for the input data must be considered (i.e. can't enter negative numbers, or characters in the input fields).
- Waiting Time, Turnaround Time, and Response Time for each process should be calculated.
- Average Waiting Time, Average Turnaround Time, and Average Response Time should be calculated.

- 1. Shortest Job First (Preemptive)**
- 2. Shortest Job First (Non-Preemptive)**
- 3. Priority (Preemptive)**
- 4. Priority (Non-Preemptive)**
- 5. Round Robin**