

Operating Systems I, 2019/2020 Projects General Conditions

- You will implement one of the following scheduling algorithms (just simulation) with any programming language.
 - GUI is a must and have 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**

البروجيكت مش إختياري، رقم البروجيكت بيتحدد بناء على رقم ال أي دي بتاع أعضاء الفريق
أعضاء الموجودين في الفريق، وبعدين 5 ببساطة هنجمع رقم الأحاد بتاع ال

$$\text{Project Number} = \text{sum} \% 5 + 1$$