CS370: OPERATING SYSTEMS

HELP SESSION 4 [HW4]
Assignment Review

- Scheduling Algorithms
  - First Come First Serve
  - Priority Scheduling
  - Round Robin
FCFS

- Non pre-emptive
- Schedules with respect to arrival time
- Process that arrived first will get the CPU burst until it completes
SHORTEST JOB FIRST

• Pre-emptive
• Schedules with respect to remaining time
• Gets CPU burst until it finishes or another job with less remaining time arrives
PRIORITY SCHEDULING

- Pre-emptive
- Priority is given to each process
- Lowest the number higher the priority
- Among the arrived processes, process with higher priority will get the burst until next higher priority process arrives or completes the operation
Input File

• Format
<id> <Arrival Time> <burst time> <Priority>
• Input output function are handled in skeleton code
Display_output

- Must use this function to display the output
- Parameters
  - Processes: Structure type, with updated wait time and turn around time for each process
  - Number: number of processes in structure processes
  - Rows: structure of type Gantt. Gantt has process id, arrival time and end time. It indicates one cube in the gantt chart
  - Count: number of rows in the structure gantt
  - Filename: filename to write the output on. Make it FCFS, PRIORITY and SJF for respective algorithm
Makefile

- Make file is provided
- Edit the name of the `.c` file in make file to suit your file.
- Do not edit the executable file name
Requirements

- Code must run on lab machines
- Submit all .c and .h files, along with makefile
- Makefile should perform make all and make clean targets
- All files inside single tar file