Nirbhay sharma (B19CSE114) - Lab4

FEATURES

Generator file is able to generate processes as expected and the process will be opened in the form of xterm
Process file is running correctly displaying the current situation of the process and on the other hand contacting the schedular.c through message queue
Scheduler file is running correctly both the algorithms RR and PRR are implemented and ready queue management is also performed in the algorithm

HOW TO RUN

** Please follow the process sequentially

- Xterm is compulsory to run the code so if xterm is not installed then please install it using the following command -> *sudo apt install xterm -y*
- Then run the following command -> *gcc process.c -o process*
- Then run the following *gcc generator.c -o gene*
- Then run the following *gcc shed.c -o shed*
- Now first run the generator executable by the following command *./gene*
- Then open another terminal and execute the following command *./shed <N> <algo_number> <time quantum>*
  These are command line inputs so please give them in this order only
  N -> number of process
  Algo_number = 0 -> RR and 1->PRR and time quantum is an integer
- After running ./gene you must pass some inputs first in the following order
  Number of input, priority, probability, start time

After the completion it will generate a .txt file for each process in which the waiting and all is there

POTENTIAL BUGS

- The maximum size of the priority queue and the normal queue is set to 1000 so if more than 1000 process comes at a time then the scheduler will fail
- The probability should be a number less than 1 and greater than 0 while passing inputs to ./gene code and the float can be till 18 decimal places