

## Operating Systems Laboratory

### Lab 4

**Lab Reports (Including source code and screenshots) to be submitted to Moodle by 2<sup>nd</sup> November 2017 at 12noon**

Write a program (Java or C) for the implementation of the following Process Scheduling Algorithm.

1. FCFS
2. SJF
3. Round Robin

The program should prompt the user to enter the number of process to be scheduled and then should prompt the user for the processing times of each individual process.

Once the user is finished entering the process times they are prompted to choose a scheduling algorithm and in the case of Round Robin the user is prompted for the time quantum.

The program should clear show:

- When a process starts in the CPU
- When a process finishes or is pre-empted from the processor
- The average wait time for each process
- The average wait time for the system

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Enter the process name and burst time for the process

Enter the process name 1

Enter the burst time for the process: 1

10

Enter the process name 2

Enter the burst time for the process: 2

7

Enter the process name 3

Enter the burst time for the process: 3

10

Press 1 round robin

Press 2 FCFS

Press 3 SJF

Press 4 to exit

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Process name	Start Time	Remaining time	Wait Time
1	0	5	0
2	5	5	5

3	10	5	10
1	15	0	10
2	20	0	15
3	22	0	17

Average Wait Time is: 19