# **Assignment Template Form (Process Scheduling)**

Student Name: NATHAN ORMON D

Student ID: 16500781

The assignment template form is shown below and can be downloaded from Moodle and requires you to complete the following.

**Assignment Functionality Completed:** 

### FCFS scheduler

First Come First Served (FCFS) scheduler code <u>partially</u> implemented and tested First Come First Served (FCFS) scheduler code <u>fully</u> implemented (sorting) and tested

### SJF scheduler

Shortest Job First (SJF) scheduler code <u>partially</u> implemented and tested Shortest Job First (SJF) scheduler code <u>fully</u> implemented and tested

### **Round Robin scheduler**

Round Robin (RR) scheduler code <u>partially</u> implemented and tested Round Robin (RR) scheduler code <u>fully</u> implemented and tested

### Console menu

Application has a menu system to allow different scheduling algorithms to be selected and tested from the console <u>partially</u> implemented

Application has a menu system to allow different scheduling algorithms to be selected and tested from the console <u>fully</u> implemented

## File read/write

File read/write code to load datasets and store results

# **Code commented**

Code is well presented with occasional comments

Code is well presented with sensible high quality comments explaining algorithms

Comments incorporated on advantages and disadvantages of schedulers

### **Screenshots**

Screenshots of FCFS scheduler (3 assignment datasets))
Screenshots of SJF scheduler (3 assignment datasets)
Screenshots of RR scheduler (3 assignment datasets)

### **Additional Comments**

Please indicate any features that have been partially implemented or any other issues that need to be drawn to the attention of the markers.

Self downering code - variable/function nonenclature.

# NATHAN ORMOND 16500781

Mark Scheme: The programming task will be graded in a number of areas, attracting a number of marks for each. Guidance on the assessment criteria for each area is included below. Note that in each area you must work upwards in terms of features implemented to achieve the maximum mark for that area.

First Come First Served (FCFS) scheduler	ved	Shortest Job First (SJF) Scheduler & menu system	(SJF) system	Round Robin Scheduler	<u>.</u>	Code Comments/Screenchots	ts
FCFS scheddler implemented and tested	15 marks	Evidence of an attempt at menu system and SJF scheduler partially implemented and tested	10 marks	Round Robin scheduler partially implemented and tested and incorporated into menu system	10 marks	Code is poorly or moderately presented, with occasional comments and assignment template completed and submitted Code is well presented, with sensible comments covering advantages/disadvantages of Scheduling algorithms	2 marks 9 marks
FCFS scheduler fully implemented allowing processes to be sorted according to arrival time and tested with all assignment datasets with performance metrics calculated and printed	10 marks	SJF scheduler fully implemented and incorporated into a console menu system with performance metrics calculated and printed	15 marks	Round Robin scheduler fully implemented with performance metrics calculated and printed and incorporated into menu system	15 marks 5 marks	Screenshots for each algorithm for each dataset (3x3)	9 marks
Section Total	25		25		30		20

25 For example, a student earning 25 marks in the *FCFS section*, 15 marks in *SJF section*, 10 marks in *Round Robin section*, 10 marks for *code quality* and 5 marks for the screenshots of scheduling results would achieve an overall mark of 65% (25 + 15 + 10 + 10 + 5) for this element of the portfolio. If you need any help in understanding this assignment please talk to the tutor who takes you for your laboratory sessions or arrange to see Dr Alan Crispin.

100 <= 001