CAB403 Assignment Marking Criteria

Student Name(s): _____

Student Number(s): _____

Total Marks: _____ /**100**

NOTE: Programs that do not compile on the Linux command line will receive a mark of zero (0). Submission must be implemented in the C programming language using BSD sockets on the Linux operating system which has been used in the weekly practicals.

FUNCTIONAL AND NON-FUNCTIONAL REQUIREMENTS

Task 1: (____/50)

Criteria	Marks
Server command line parameter – configurable port & default port	/3
Server authenticates client using data in "*Authentication.txt"* file	/6
Server loads & tokenises *"hangman_text.txt"* file correctly	/6
Server randomly selects a two-word phrase	/3
Server updates Leader Board when a client finishes playing a Hangman game	/5
Server exits gracefully upon receiving SIGNAL (ctrl + c)	/3
Client command line parameters	/3
Client menu implementation	/3
Client plays Hangman as per assignment specifications when user selects "Play Hangman"	/6
Client displays leader board as per assignment specifications when user selects option "Show Leader Board"	/6
Client exits gracefully when user selects "Quit" option from menu	/3
Description of the data structure that is used for the Leader Board in your report	/3

Task 2: (____/20)

Criteria	Marks
Multithreaded implementation	/10
Process synchronization	/6
Description of how the critical-section problem is handled in your report	/4

Task 3: (____/16)

Criteria	Marks
Thread pool creation	/7
Thread pool use	/3
Thread pool cleaning	/3
Description of how the thread pool is created and managed in your report	/3

PROGRAM QUALITY

Marks: (____/10)

Criteria	Marks
Program structure & readability	/2
Program performance	/2
Resource management	/3
Program reliability (e.g. run time errors, deadlocks, file I/O)	/3

REPORT QUALITY

Marks: (____/4)

Criteria	Marks
Statement of completeness	/2
Instructions on how to compile and run your program	/2

Comments:

NOTE: Allocation of marks depends on which tasks are attempted.

Task	Functional and Non-functional Requirements	Code Quality	Report	Maximum Marks
Task 1 only	50	10	4	**64**
Task 1 & Task 2	70	10	4	**84**
Task 1 & Task 3	86	10	4	**100**