COMP3722 Programming Assessment 1.

Date: April 24, 2024

Due: 1630 ACST April 24 2024 Total: 20 marks

Write a Procedural Program (utilising the C programming language):

1/ for a DFA that recognises that following language

L: {w|w contains at least two 0's and at most one 1} where $\Sigma = \{0,1\}$.

[10 marks]

2/ for a PDA that recognises L: $\left\{a^ib^jc^k|\ i,j,k\ \geq 0\ and\ i=j\ or\ i=k\right\}$

[10 marks]

Provide both source code and evidence of program functionality.