CONCORDIA UNIVERSITY
Dept. of Computer Science and Software Engineering
COMP 5361 – Discrete Structures and Formal Languages
Winter 2017

$\mathcal{P}$rogramming $\mathcal{A}$ssignment 3
Electronic Submission due on SUNDAY April 16th at 23:59

Total mark is 60.

1. We defined 4 regular languages L_1 to L_4 in question 1 of Theory Assignment 3. For each of those languages, develop a Python program such that for every valid input string w over the alphabet $\{a, b\}$, the program returns T if w is in the language, and returns F otherwise. Do not need to test your program on strings that have symbols other than a's and b's. For each program, list 5 sample input strings and the corresponding results obtained by executing your program. Provide the output results on a separate document and submit with your programs. Pl. submit this document and the program codes all as ONE zip file with label PA3. If you could finish your programming assignment before April 12th, then you could appear for a demo to explain your working programs. Otherwise, the lab TA's will eveluate your programs. The maximum mark for each of these 4 program swill be 15 points.