

# Programming Assignment #1

## (CS-348)

Deadline: 25<sup>th</sup> January, 2021

1. Write a C program to implement a 2 pass assembler for SIC machine assembly language from the pseudo code provided in pages 55, 56 of the book.

Instruction Set : LDA, LDX, LDL, STA, STX, STL, LDCH, STCH, ADD, SUB, MUL, DIV, COMP, J, JLT, JEQ, JGT, JSUB, RSUB, TIX, TD, RD, WD, RESW, RESB, WORD, BYTE.

Sample Input Assembly Language Program: Figure 2.2 in page 49

Sample Output in Machine Code: Figure 2.3 in page 51

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