Programming Assignment #1

(CS-348)

Deadline: 25th January, 2022

Full Marks : 20

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