TUTORIAL - 8

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**Introduction**:

The main objective here is to implement a version of two-pass SIC/XE assembler.

The Assembler includes all the SIC/XE instructions and support all the four addressing modes alongside program relocation.

Table

Description automatically generated

Text, letter

Description automatically generated

It also includes Machine-Independent features like:

1. Literals
2. Expressions
3. Program Blocks
4. Control Sections and Programing Linking
5. Symbol Defining Statements

**Input** : Assembler source program using the instruction set of SIC/XE.

**Output** : Output contains:

1. A symbol table generated in Pass 1.
2. Intermediate file generated by Pass 1 used by Pass 2.
3. Listing file generated by Pass 2.
4. Object program file generated by Pass 2.
5. Error file containing errors in the input (if any).

**Instructions for execution**: