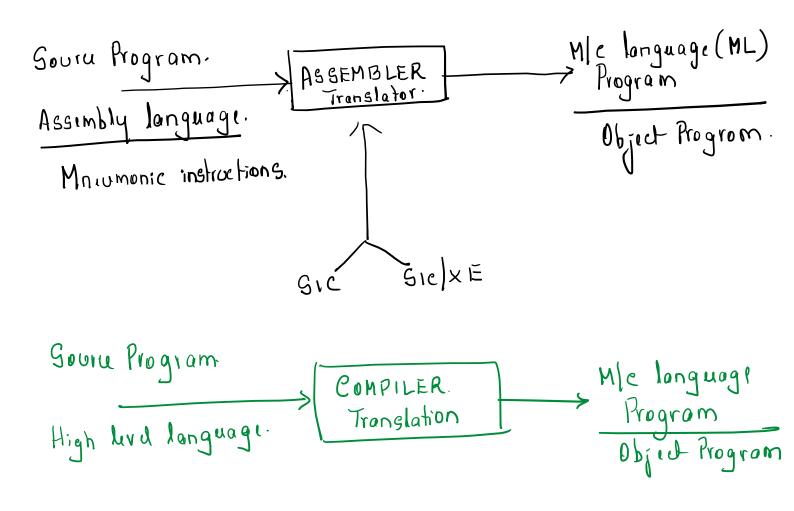


## ASSEMBLER

Translator.



COPY	START	1000	COPY FILE FROM INPUT TO OUTPUT
FIRST	STL	RETADR	SAVE RETURN ADDRESS
CLOOP	JSUB	RDREC	READ INPUT RECORD
CLOOP	LDA	LENGTH	TEST FOR EOF (LENGTH = 0)
	COMP	ZERO	TEST FOR EOF (DENGIR - 0)
	JEO	ENDFIL	EXIT IF EOF FOUND
HULLAY.	JSUB	WRREC	WRITE OUTPUT RECORD
	J	CLOOP	LOOP
ENDFIL	LDA	EOF	INSERT END OF FILE MARKER
	STA	BUFFER	
	LDA	THREE	SET LENGTH = 3
	STA	LENGTH	SEI LENGIH = 3
	JSUB	WRREC	WRITE EOF
	LDL		WRITE EOF
	RSUB	RETADR	GET RETURN ADDRESS RETURN TO CALLER
EOF	BYTE	C'EOF'	RETURN TO CADLER
THREE	WORD	3	
		7	
ZERO	WORD	0	
RETADR	RESW	1	The state of the s
LENGTH	RESW	1	LENGTH OF RECORD
BUFFER	RESB	4096	4096-BYTE BUFFER AREA
term is min	CHEROLI	TIME TO DEAD	DECORD TWO DIVISION OF THE PROPERTY OF THE PRO
Name and	SUBROU	PINE TO READ	RECORD INTO BUFFER
DDDEG	IDV	ZEDO	CLEAR LOOP COLDINER
RDREC	LDX	ZERO	CLEAR LOOP COUNTER
	LDA	ZERO	CLEAR A TO ZERO
RLOOP	TD	INPUT	TEST INPUT DEVICE
	JEQ	RLOOP	LOOP UNTIL READY
	RD	INPUT	READ CHARACTER INTO REGISTER A
	COMP	ZERO	TEST FOR END OF RECORD (X'00')
	JEQ	EXIT	EXIT LOOP IF EOR
	STCH	BUFFER, X	STORE CHARACTER IN BUFFER
	TIX	MAXLEN	LOOP UNLESS MAX LENGTH
	JLT	RLOOP	HAS BEEN REACHED
EXIT	STX	LENGTH	SAVE RECORD LENGTH
1811	RSUB	The state of the s	RETURN TO CALLER
INPUT	BYTE	X'F1'	CODE FOR INPUT DEVICE
MAXLEN	WORD	4096	A SALAKIA SALASIAN SALAKA
	SUBROU	TINE TO WRIT	E RECORD FROM BUFFER
		District Control	The state of the s
WRREC	LDX		CLEAR LOOP COUNTER
WLOOP	TD	OUTPUT	TEST OUTPUT DEVICE
	JEQ	WLOOP	LOOP UNTIL READY
	LDCH	BUFFER, X	GET CHARACTER FROM BUFFER
	WD	OUTPUT	WRITE CHARACTER
	TIX	LENGTH	LOOP UNTIL ALL CHARACTERS
	JLT	WLOOP	HAVE BEEN WRITTEN
	RSUB		RETURN TO CALLER
OUTPUT	BYTE	X'05'	CODE FOR OUTPUT DEVICE
	END	FIRST	
	END	FIRST	

Figure 2.1 Example of a SIC assembler language program.