

16 bit subtraction:

Program:

LHLD 2500

XCHG

LHLD 2502

MOV A,E

SUB L

MOV L,A

MOV A,D

ADC H

MOV H,A

SHLD 2504

HLT

1 LHLD 2500
2 XCHG
3 LHLD 2502
4 MOV A,E
5 SUB L
6 MOV L,A
7 MOV A,D
8 ADC H
9 MOV H,A
10 SHLD 2504
11 HLT
12

Output:

Data
Stack
KeyPad
Mem

Start
2500

Address (Hex)	Address	Data
09C4	2500	56
09C5	2501	0
09C6	2502	13
09C7	2503	0
09C8	2504	43
09C9	2505	0
09CA	2506	0
09CB	2507	0
09CC	2508	0
09CD	2509	0
09CE	2510	0
09CF	2511	0

Line No	Assembler Message
0	Program assembled successfully