

Assembly language Programming II

1.

MVI A, 01H

MVI B, 05H

MVI C, 00H

SUB B

SNC SKIP

SKIP: STA 2100H

MOV A,C

HLT

2.

LDA 2000H

MVI C, 08H

MVI D, 00H

MVI E, 00H

START: RRC

SNC ZERO

SC ONE

ONE: INR D

SMP END

ZERO: INR E

SMP END

END: DCR C

SNZ START

HLT.

3.

Program for A.

LXI H, 2501H
MOV B, M
MVI A, 00H
MOV D, B
DCR B
START: SJ CNT
MOV Z, B
MUL: ADD D
DCR Z
SNZ MUL
MOV D, A
MVI A, 00H
DCR B.
SMP START
CNT: MOV A, D
HLT

4. LDA 2100H

MOV B, A
LDA 2101H
MOV C, A

5. LDA 2100

CMA
INR A
STA 2101
HLT.

6.

MVI B, 26H
MVI C, 40H
MVI D, 03H
MOV A, B
ADD C
SUB D
STA 2100H
HLT

7.

LDA 2100H
MOV B, A.
LDA 2101H
STA 2100H
MOV A, B
STA 2101H
HLT

8.

MVI A, 00H
MVI B, 08H
MVI C, 02H

REPEATED-ADDITION: ADD B

DCR C
SNZ REPEATED ADDITION
STA 2100H
HLT.

9.

LDA 2501
MOV B, A
LDA 2500
CMP B
SC SMAHLER
MOV A, B
STA 2503

HLT.

10.

MVI A, 00H
MVI B, 0AH
LOOP: ADD B
DCR B
SNZ LOOP
HLT.

11.

LDA 2010H
ORA A
SPO ODD
SPE EVEN
ODD: MVI A, 00H
OUT 02H
SMP END
EVEN: MVI A, FFH
OUT 02
SMP END
END HLT.