**Homework 1 Week 2,**

1. **Add three 8-bit numbers**

LHLD 4000​

LDA 4002​

ADD L​

ADD H​

MOV L, A​

MVI A, 00​

ADC A​

MOV H, A​

SHLD 4005​

HLT

1. **Add two 8-bit numbers and subtract one 8 bit number**

MVI A, 00

LHLD 4000

LDA 4002

MOV B, A

MVI A, 00

ADD H

ADD L

MOV E, A

MVI A,00

ADC A

MOV H, A

MOV A,E ​

SUB B

MOV L, A

SHLD 4005

HLT

1. **Add three 16-bit numbers**

LHLD 4000

XCHG

MOV B,D

MOV C,E

LHLD 4002

XCHG

LHLD 4004

ADD L

ADD E

ADD C

MOV L, A

MVI A 00

ADD B

ADD D

ADD H

MOV H, A

SHLD 4008

HLT

1. **Add two 16- bit numbers and subtract 16-bit number**

MVI A, 00

LHLD 4000

XCHG

MOV B,D

MOV C,E

LHLD 4002

XCHG

LHLD 4004

ADD C

ADD E

SUB L

MOV L, A

MVI A, 00

ADD B

ADD D

SUB H

MOV H, A

SHLD 4008

HLT