**16 BIT ADDITION**

PROGRAM:

LHLD 2050

XCHG

LHLD 2052

DAD D

SHLD 3050

HLT

**16 BIT SUBTRACTION:**

PROGRAM:

LHLD 2050

XCHG

LHLD 2052

MVI C, 00

MOV A, E

SUB L

STA 2054

MOV A, D

SBB H

STA 2055

HLT

**16 BIT MULTIPLICATION:**

PROGRAM:

LHLD 2001

XCHG

LHLD 2002

MOV C,H

MVI A,00H

LOOP: ADD D

DCR C

JNZ LOOP

MOV H,A

MOV B,L

MVI A,00H

LP: ADD E

DCR B

JNZ LP

MOV L,A

SHLD 2003

HLT

**16BIT DIVISION:**

PROGRAM:

LXI B,0000

LHLD 2052

XCHG

LHLD 2050

MOV A,L

LOOP1: SUB E

MOV L,A

MOV A,H

SBB D

MOV H,A

JC LOOP

INX B

JMP LOOP1

LOOP: DAD D

SHLD 2056

MOV L,C

MOV H,B

SHLD 2054

HLT