**Two 8 bit addition program:**

LDA 2300

MOV B,A

LDA 2301

ADD B

STA 2302

HLT

**Subtraction of two 8 bit numbers:**

LDA 7600

MOV B,A

LDA 7601

SUB B

STA 7602

HLT

**Multiplication of two 8 bit numbers:**

LDA 8500

MOV B,A

LDA 8501

MOV C,A

CPI 00

JZ LOOP

XRA A

LOOP1: ADD B

DCR C

JZ LOOP

JMP LOOP1

LOOP: STA 8502

RST 1

**Division of two 8 bit numbers:**

LXI H,1100

MOV B,M

MVI C,00

INX H

MOV A,M

loop: CMP B

JC skip

SUB B

INR C

JMP loop

skip: STA 1102;

MOV A,C

STA 1103;

HLT

**Addition of two 16 bit numbers:**

MOV AX,[1000h]

MOV BX,[1002h]

MOV CL,00h

ADD AX,BX

MOV [1004h],AX

JNC jump

INC CL

jump:

MOV [1006h],CL

HLT

**Subtraction of two 16 bit numbers:**

**MOV AX, [1000h]**

**MOV BX, [1002h]**

**MOV CL,00h**

**SUB AX,BX**

**JNC jump**

**JNC CL**

**NOT AX**

**ADD AX,00O1h**

**Jump:**

**MOV [1004h],AX**

**MOV [1006h],CL**

**HLT**