

1.to find the largest number from the series of 5 number

LXI

MOV C, M

SUB A

LOOP: INX H

CMP M

JNC AHEAD

MOV A, M

AHEAD : DCR C

JNZ LOOP

STA E010

HLT

2 . To separate nibbles of compact number

LXI H, D001

MOV A, M

MOV E, A

ANI F0

RRC

RRC

RRC

RRC

MOV D, A

INX H

MOV M, A

MOV A, E

ANI 0F

MOV B, A

INX H



MOV A, M

MOV E, A

ANI F0

RRC

RRC

RRC

RRC

MOV D, A

INX H

MOV M, A

MOV A, E

ANI 0F

MOV B, A

INX H

MOV M, A

HLT

3. To separate the nibble of the number
and store the value

LXI H, D001

MOV A, M

MOV E, A

ANI F0

RRC

RRC

RRC

RRC

MOV D, A

INX H

MOV M, A

MOV A, E

ANI 0F

INX H

MOV M, A



MOV D, A

INX H

MOV M, A

MOV A, E

ANI 0F

INX H

MOV M, A

DCR D

MOV B, A

MUL : ADD A

DCR D

JNZ MUL

INX H

MOV M, A

HLT

4.sum of series

MVI A, 00

MVI B, 00

LXI H, D000

MOV C, M

LOOP : INX H

ADD M

JNC AHEAD

INR B

AHEAD: DCR C

JNZ LOOP

STA D500

HLT

Exchange the series of number

LXI D, E000

LXI H, E005

MVI C, 05

UP: MOV B, M

LDAX D

MOV M, A

MOV A, B

STAX D

INX H

INX D

DCR C

JNZ UP

HLT

Increase the value of number by 1

LXI D, E000

LXI H, E000

MVI C, 05

MVI A, 00

UP: LDAX D

ADI 01

MOV M, A

INX H

INX D

DCR C

JNZ UP

HLT

Swapping of no

LXI H, C000

LXI B, D00A

MVI D, 05

MOV E, A

MOV D, 05

UP: LDAX B

MOV E, A

MOV A, M

STAX B

MOV M, E

INX H

INX B

DCR D

JNZ UP

HLT