

#WRITE A PROGRAM TO CHECK THE CONTENT OF LOCATION C1001 IF IT IS 00 THEN PERFORM AND OPERATION. IF IT IS 01, THEN PERFORM OR OPERATION, IF IT IS 10 THEN PERFORM XOR OPERATION IF IT IS 11 THEN PERFORM NOR OPERATION. IF OPERANDS ARE STORED AT MEMORY LOCATION C002 AND C003 AND RESULT NEED TO BE UPDATED IN C004

#

MVI C001, 10

MVI C002, 00

MVI C003, 11

LDA C001

I1: CMI 00;

JZ I1(AND

I2: CMI 01;

JZ I2(OR)

I3: CMI 10;

JZ I3(NOR)

I4: CMI 11;

JZ I4(XOR)

AND: LDA C002

MOV B,A

LDA C003

ANA B

STA C004

HLT

OR: LDA C002

MOV B,A

LDA C003

ORA B

STA C004

HLT

NOR: LDA C002

MOV B,A

LDA C003

ORA B

CMA

STA C004

HLT

XOR: LDA C002

MOV B,A

LDA C003

XRA B

STA C004

HLT