COMA LAB 303105211 CSE Semester-IV

EXPERIMENT NO: 2

AIM:

PART A: WRITE AN 8085 ASSEMBLY LANGUAGE TO PERFORM MULTIPLICATION OF TWO 8 BIT NOS.

PROGRAM:

MVI D,00H MVI A,00H LXI H,4150H MOV B,M INX H

MOV C,M

LOOP: ADD B

JNC NEXT

INR D

NEXT: DCR C

JNZ LOOP STA 4152H MOV A,D STA 4153H

HLT

OBSERVATION:

INPUT: FF (4150)

FF (4151)

OUTPUT: 01 (4152)

FE (4153)

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PART B: WRITE AN 8085 ASSEMBLY LANGUAGE TO PERFORM DIVISION OF TWO 8 BIT NOS.

PROGRAM:

LXIH,4150H

MOV B,M

MVI C,00H

INX H

MOV A,M

LOOP: CMP B

JC LOOP

SUB B

INR C

JMP NEXT

NEXT: STA 4152H

MOV A,C STA 4153H

HLT

OBSERVATION:

INPUT: 4150H-FF

4151H-FF

OUTPUT: 4152H-01 ----- REMAINDER

4153H-FE ----- QUOTIENT

CONCLUSION: