Computer Organization Assignments

1. Addition of two 8 bit numbers having 16 bit sum.

# BEGIN 0000H

LXI H,C050

MOV A,M

INX H

ADD M

STA C052

HLT

# ORG C050

# DB 55H,66H

2. Subtraction of two 8 bit numbers (Single program should satisfy the following cases)

Case:1 When minuend is greater than subtrahend

# BEGIN 0000H

MVI A, 66H

MVI B, 55H

CMP B

JC LABEL

SUB B

STA C052

HLT

LABEL:

SUB B

CMA

INR A

STA C052h

HLT

Case 2: When minuend is smaller than subtrahend