NAME:

**AIM:**

a)TO FIND THE SMALLEST OF TWO 8 BIT NUMBERS  
b)TO Find the largest of two 8 bit no.

**REQUIREMENTS:** JUBIN SIMULATOR

**CODE:**

**a)TO FIND THE SMALLEST OF TWO 8 BIT NUMBERS**

LXI H,1000H

MOV A,M

INX H

MOV B,M

CMP B

JC 200BH // JUMP TO ADDRESS 200BH IF THERE IS NO CARRY

MOV A,B // MOVE THE SMALLLEST FROM REG. B TO REG. A

INX H // INCREMENT H-L PAIR

MOV M,A // MOVE RESULT REG A TO MEMORY

HLT

#ORG 1000H

#DB 30H,10H

**b)TO Find the largest of two 8 bit no.**

LXI H,1000H

MOV A,M

INX H

MOV B,M

CMP B

JNC 200BH // JUMP TO ADDRESS 200BH IF THERE IS NO CARRY

MOV A,B // MOVE THE LARGEST FROM REG. B TO REG. A

INX H // INCREMENT H-L PAIR

MOV M,A // MOVE RESULT REG A TO MEMORY

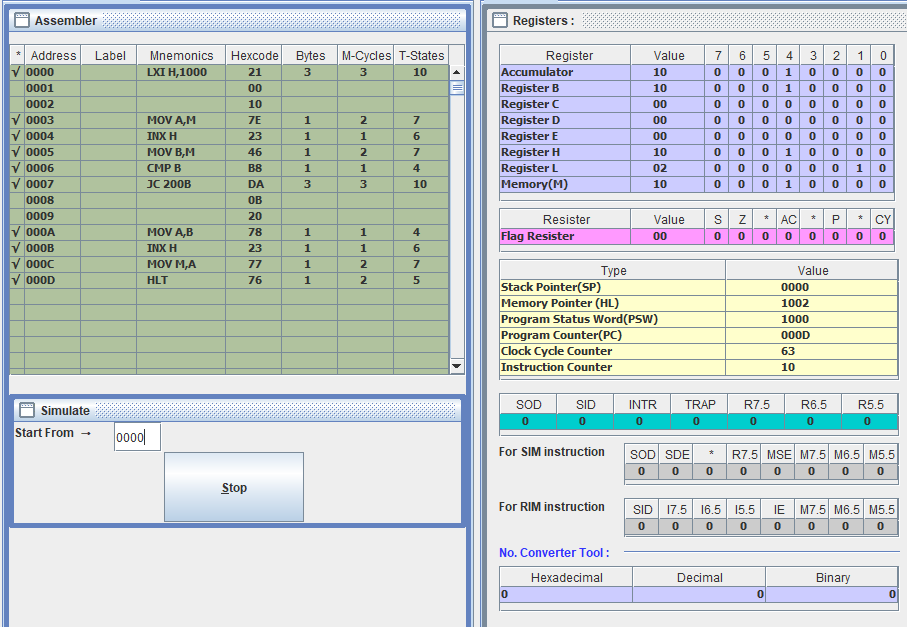
HLT

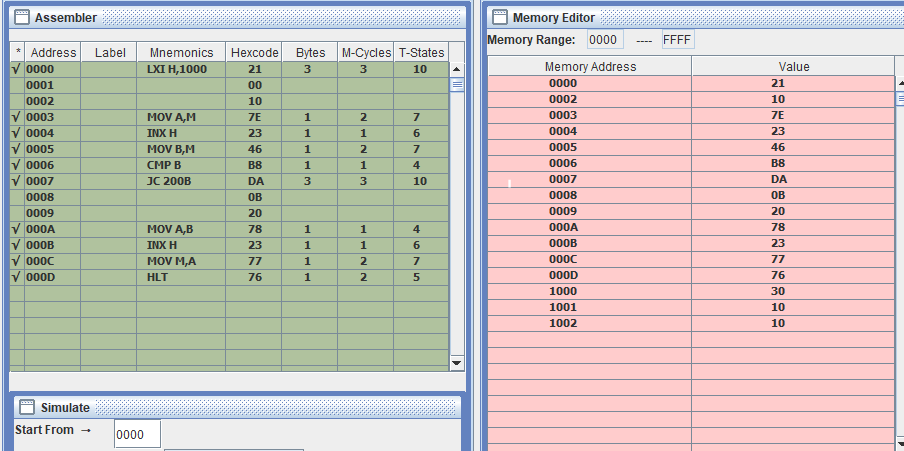
#ORG 1000H

#DB 30H,10H

**OUTPUT:**

**a)TO FIND THE SMALLEST OF TWO 8 BIT NUMBERS**





**b)TO Find the largest of two 8 bit no.**

