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1 Write Program to shift 8-bit Number by three bits left. Assume data is in register C.

Code:- mvi C, 91H
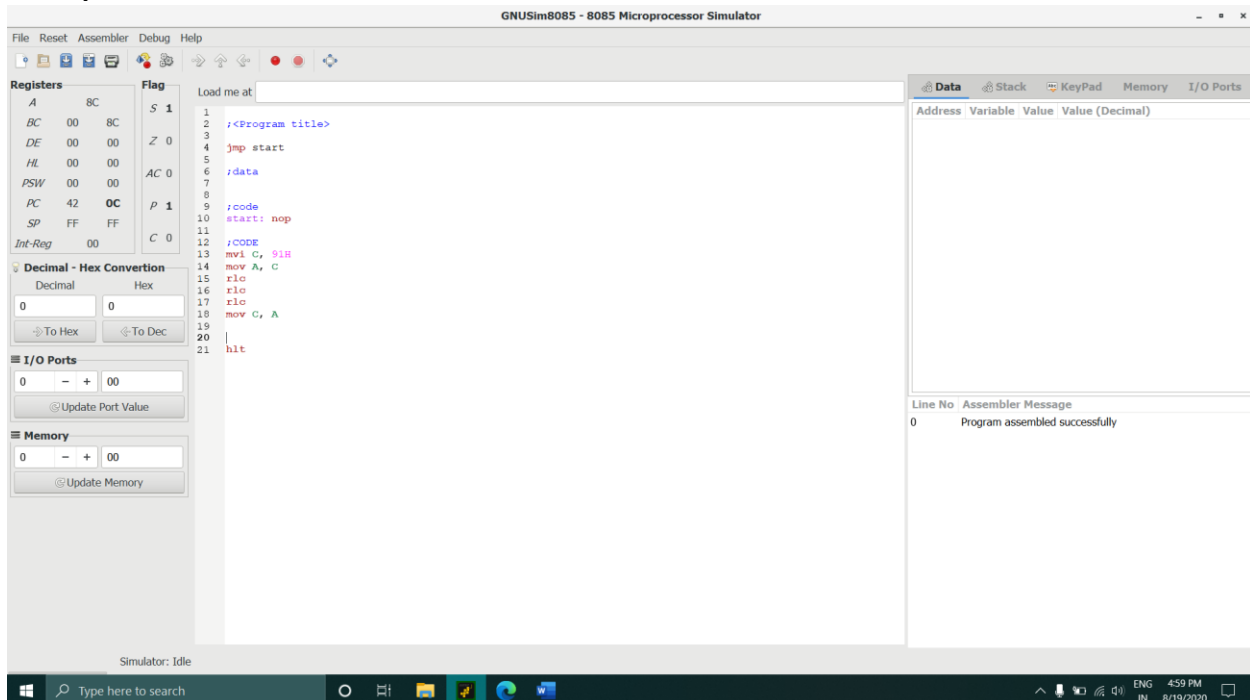
   mov A, C

   rlc
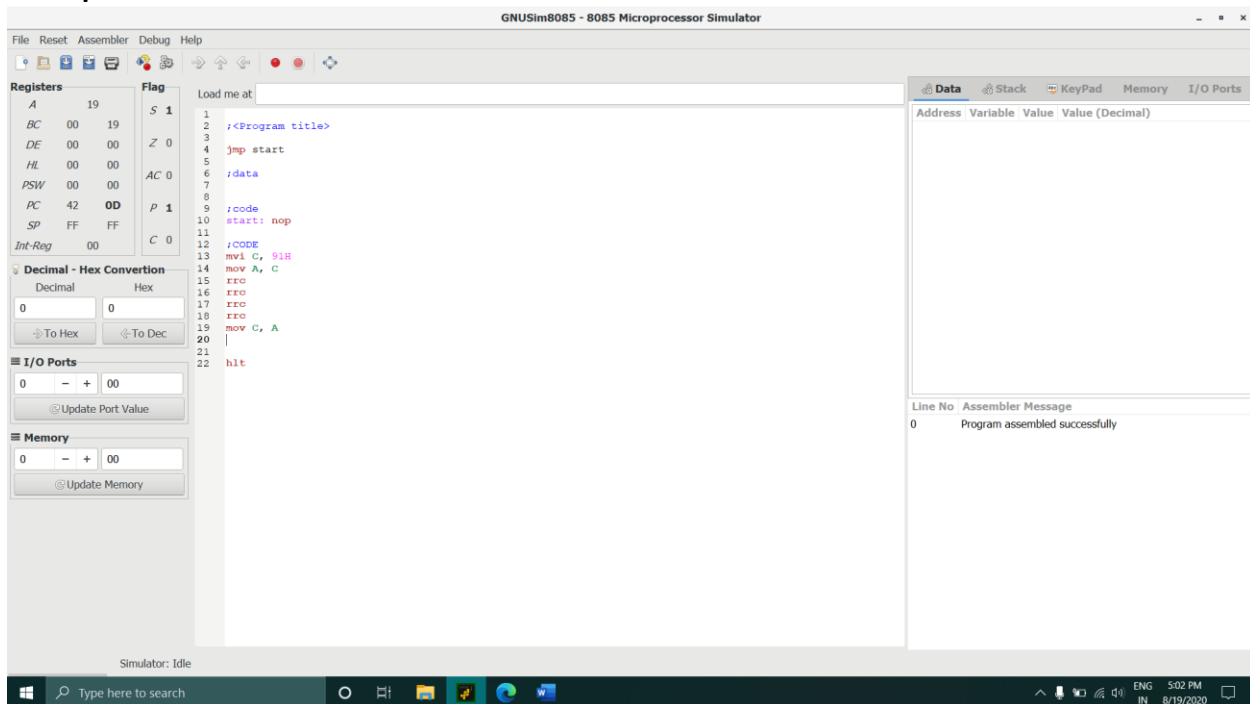
   rlc

   rlc

   mov C, A

Output:-

2 Write Program to shift 8-bit data four bits right. Assume data is in Register C.

Code:- mvi C, 91H

mov A, C

rrc

rrc

rrc

rrc

mov C, A

Output:-

3 Program to Find Sum of Series of 8-bit Numbers.

Code:- LDA 2200H

MOV C,A   ;initialize the counter

SUB A   ;sum=0

LXI H,2201H   ;initalize pointer

BACK: ADD M   ;SUM = SUM +data

INX H   ;Increment pointer

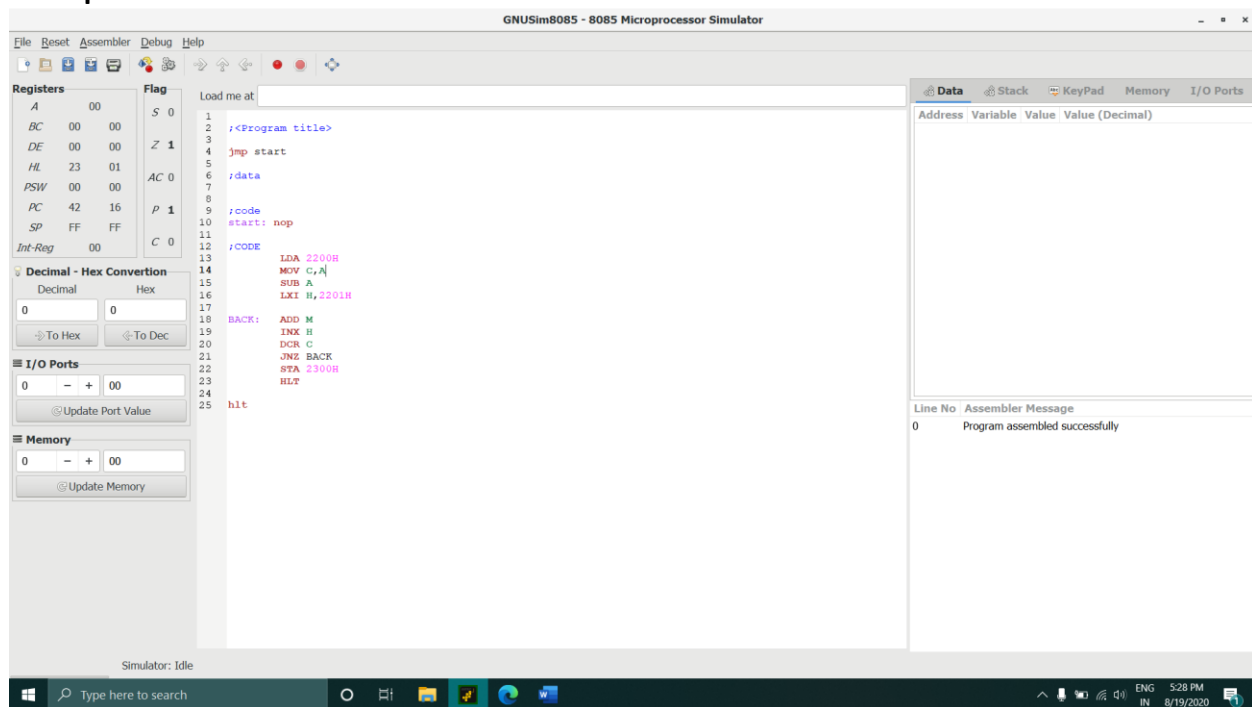DCR C   ;decrement poniter

JNZ BACK   ;if Counter not = 0 repeat

STA 2300H   ;store sum
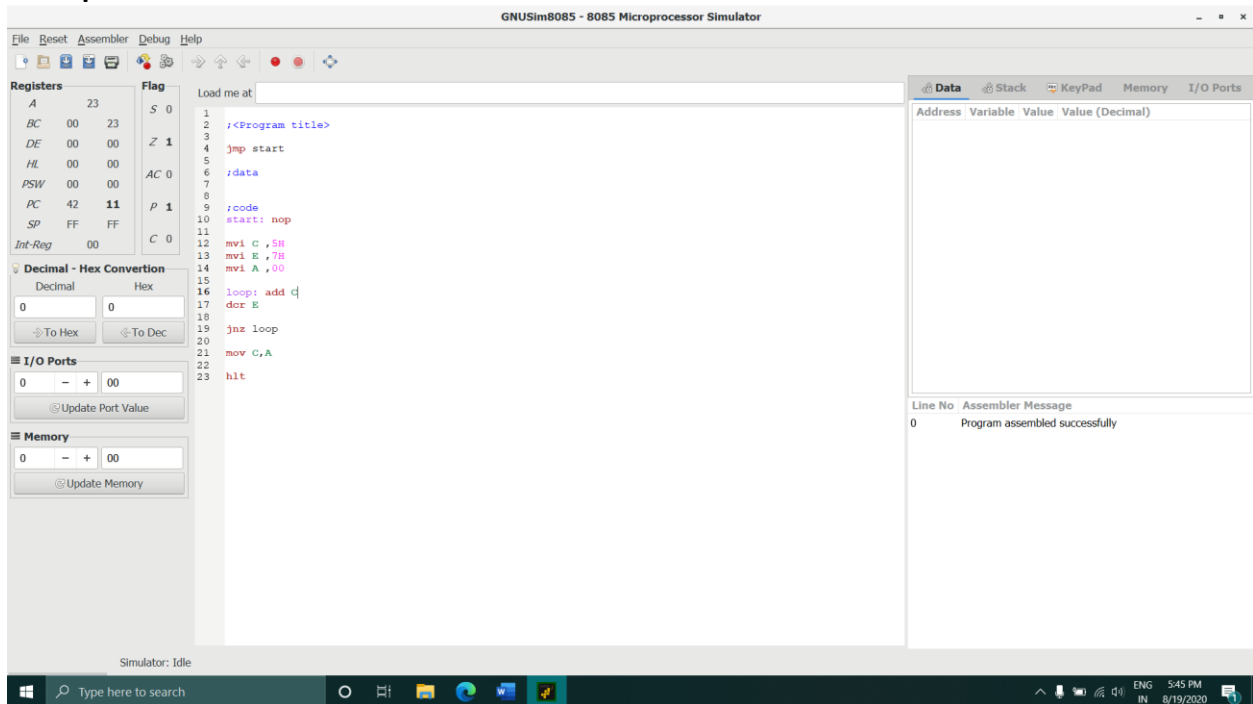
HLT   ;terminate program execution

Output:-

4 Program to Multiply Two 8-bit Numbers.

Code:- mvi C ,5H

mvi E ,7H

mvi A ,00

loop: add C

dcr E

jnz loop

mov C,A

Output:-

5 Larger of two 8-bit Numbers.

Code:-
```
LXI H,0000H
MOV B,M
INX H
MOV A,M
CMP B
JNC SAVE
MOV A,B
SAVE: STA 0004H
```

Output:-