

ROTATE RIGHT OPERATION

EXP NO: 19

AIM: To compute rotation of given data in right without carry using 8085 processor.

ALGORITHM:

- 1) Load the base address of the array in HL register pair.
- 2) Move the data from memory location into accumulator.
- 3) Shift right the accumulator content for four times left.
- 4) Store the result in the specified location.

PROGRAM:

```
MVI A,03  
RRC  
RRC  
RRC  
RRC  
STA 2000  
HLT
```

INPUT:

File
Reset
Assembler
Debug
Help

Registers

A	30	
BC	00	00
DE	00	00
HL	1F	40
PSW	00	00
PC	42	0E
SP	FF	FF
Int-Reg	00	

Flag

S	1
Z	0
AC	0
P	0
C	0

Load me at

```

1
2  ;<Program title>
3
4  jmp start
5
6  ;da
7
8  ;code
9  start: nop
10 MVI A,03
11 RRC
12 RRC
13 RRC
14 RRC
15 STA 2000
16
17 hlt

```

Decimal - Hex Conversion

Decimal	Hex
<input type="text" value="0"/>	<input type="text" value="0"/>
<input type="button" value="→ To Hex"/>	<input type="button" value="← To Dec"/>

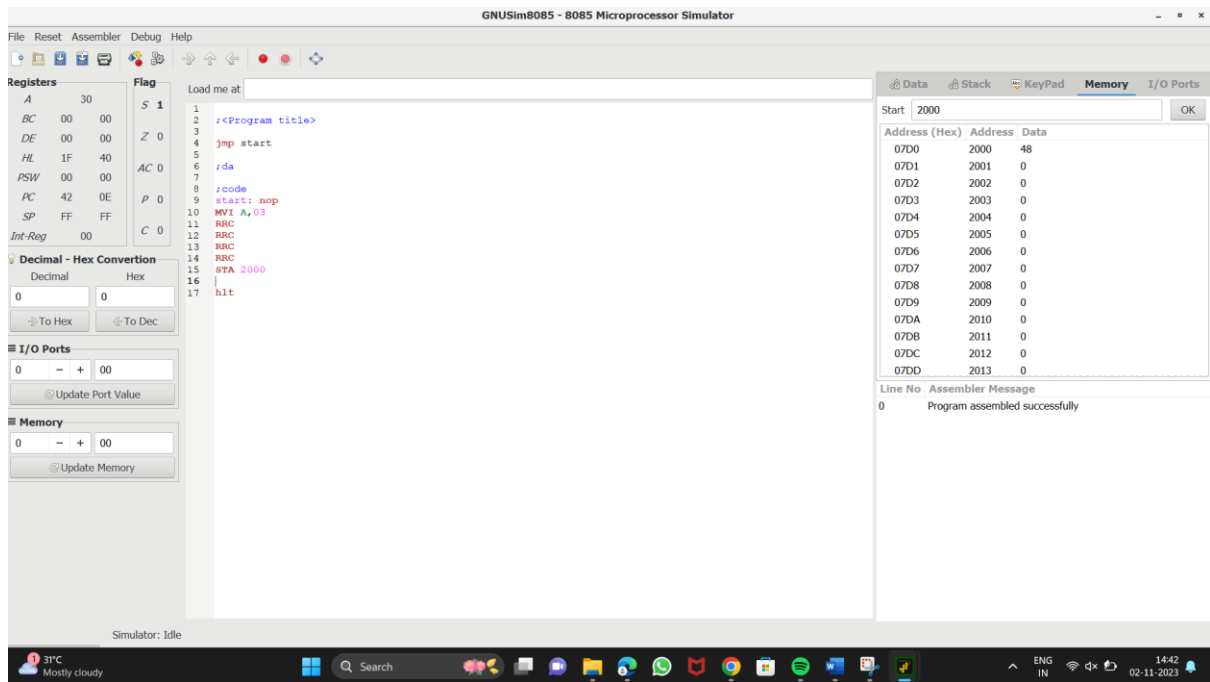
I/O Ports

<input type="text" value="0"/>	<input type="button" value="-"/>	<input type="button" value="+"/>	<input type="text" value="00"/>
<input type="button" value="⌂ Update Port Value"/>			

Memory

<input type="text" value="0"/>	<input type="button" value="-"/>	<input type="button" value="+"/>	<input type="text" value="00"/>
<input type="button" value="⌂ Update Memory"/>			

OUTPUT:



RESULT: Thus the program was executed successfully using 8085 processor simulator.