## **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** 

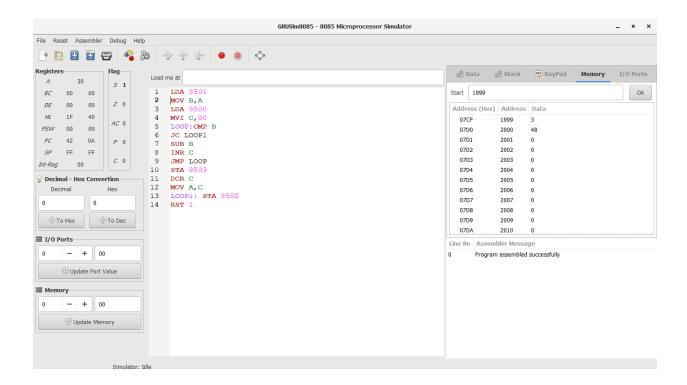
STA 2000

HLT

**INPUT:** 

| Address (Hex) | Address | Data |
|---------------|---------|------|
| 07CF          | 1999    | 3    |
| 07D0          | 2000    | 48   |
| 07D1          | 2001    | 0    |
| 07D2          | 2002    | 0    |
| 07D3          | 2003    | 0    |
| 07D4          | 2004    | 0    |
| 07D5          | 2005    | 0    |
| 07D6          | 2006    | 0    |
| 07D7          | 2007    | 0    |
| 07D8          | 2008    | 0    |
| 07D9          | 2009    | 0    |
| 07DA          | 2010    | 0    |

## **OUTPUT:**



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