

AIM: To compute rotation of given data in left 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 left the accumulator content for four times.
- 4) Store the result in the specified location.

PROGRAM:

MVI A,02

RLC

RLC

RLC

RLC

STA 2000

HLT

INPUT:

Address (Hex)	Address	Data
07CF	1999	2
07D0	2000	32
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:

GNUSim8085 - 8085 Microprocessor Simulator

File Reset Assembler Debug Help

Registers

A	20
BC	00 00
DE	00 00
HL	1F 40
PSW	00 00
PC	42 0A
SP	FF FF
Int-Reg	00

Flag

S	1
Z	0
AC	0
P	0
C	0

Load me at

```

1  MVI A, 02
2  RLC
3  RLC
4  RLC
5  RLC
6  STA 2000
7  HLT

```

Memory

Start

Address (Hex)	Address	Data
07CF	1999	2
07D0	2000	32
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

Assembler Message

Line No	Assembler Message
0	Program assembled successfully

I/O Ports

Memory

Simulator: Idle

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