

AIM: To compute swapping of numbers using 8085 processor.

EXP:15

ALGORITHM:

- 1) Load a 8-bit number from memory location into accumulator.**
- 2) Move value of accumulator into register H.**
- 3) Load a 8-bit number from next memory location into accumulator.**
- 4) Move value of accumulator into register D.**
- 5) Exchange both the registers pairs.**
- 6) Halt**

PROGRAM:

LDA 2001

MOV B,A

LDA 2002

STA 2001

MOV A,B

STA 2002

HLT

INPUT :

Data
Stack
KeyPad
Memory
I/O Ports

Start

Address (Hex)	Address	Data
07D1	2001	1
07D2	2002	2
07D3	2003	2
07D4	2004	1
07D5	2005	0
07D6	2006	0
07D7	2007	0
07D8	2008	0
07D9	2009	0
07DA	2010	0
07DB	2011	0
07DC	2012	0

Line No	Assembler Message
0	Program assembled successfully

OUTPUT:

Data	Stack	KeyPad	Memory	I/O Ports
Start	2001	OK		
Address (Hex)	Address	Data		
07D1	2001	1		
07D2	2002	2		
07D3	2003	2		
07D4	2004	1		
07D5	2005	0		
07D6	2006	0		
07D7	2007	0		
07D8	2008	0		
07D9	2009	0		
07DA	2010	0		
07DB	2011	0		
07DC	2012	0		
Line No	Assembler Message			
0	Program assembled successfully			

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