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B.tech CSE

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Lab Assignment 5

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TASK: Write a Program to Move a Block of Data Using 8085 & verify

Code:
```
;<Program title>
jmp start
;data
;code
start: nop
MVI D,06
LXI H, 004H
LXI B, 00CH
up: MOV A,M
STAX B
INX H
INX B
DCR D
JNZ up
hlt
```

Input: (address in hex format)

0004->3
0005->6
0006->9
0007->12

0008->15
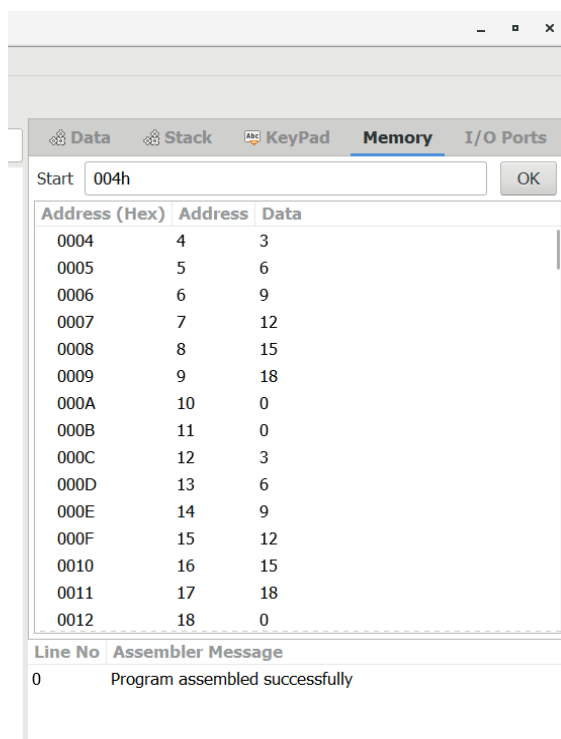0009->18

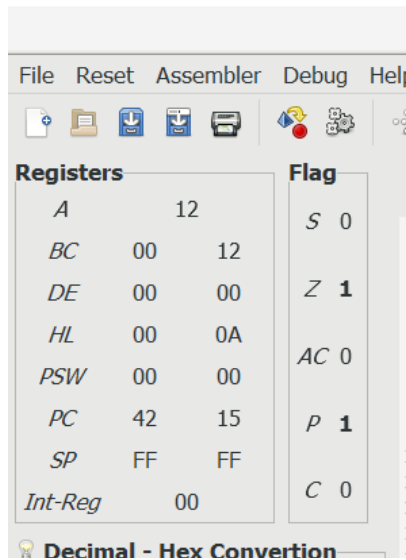## Output:(address in hex format)

000C ->3
000D -> 6
000E -> 9
000F -> 12
0010 -> 15
0011 -> 18

Output screenshot:

Address (Hex)	Address	Data
0004	4	3
0005	5	6
0006	6	9
0007	7	12
0008	8	15
0009	9	18
000A	10	0
000B	11	0
000C	12	3
000D	13	6
000E	14	9
000F	15	12
0010	16	15
0011	17	18
0012	18	0

Data   Stack   KeyPad   **Memory**   I/O Ports

Start 004h   OK

Line No	Assembler Message
0	Program assembled successfully

Registers

A		12
BC	00	12
DE	00	00
HL	00	0A
PSW	00	00
PC	42	15
SP	FF	FF
Int-Reg		00

Flag

S	0
Z	1
AC	0
P	1
C	0

Decimal - Hex Convertion

Verification:

The values stored in memory locations from 000C to 0011 are the same as the values stored in 0004 to 0009. Hence, verified that moving of block data is successful