

EXPERIMENT -2

AIM: To add 5 numbers parallelly from 2 different locations and storing the result sequentially in memory.

CODE:

ORG 0000H

MOV R0,#10H

MOV R1,#20H

MOV R3,#05H

**L1: MOV A,@R0
 MOV B, A
 MOV A, @R1
 ADD A, B
 MOV @R1, A
 INC R0
 INC R1
 DJNZ R3, L1
 END**

INPUT:

The screenshot shows the 'Memory 1' window in Visual Studio. The 'Address' field is set to '0010h'. Below it, a table of memory contents is displayed, showing addresses from 0x10 to 0xBF in increments of 0x13, with corresponding hexadecimal values (mostly 00) and their decimal equivalents (0 to 255).

Address	Value (Hex)	Value (Dec)
I:0x10:	01 02 03 04 05 00 00 00	1 2 3 4 5 0 0 0
I:0x33:	00 00 00 00 00 00 00 00	0 0 0 0 0 0 0 0
I:0x56:	00 00 00 00 00 00 00 00	0 0 0 0 0 0 0 0
I:0x79:	00 00 00 00 00 00 00 00	0 0 0 0 0 0 0 0
I:0x9C:	00 00 00 00 00 00 00 00	0 0 0 0 0 0 0 0
I:0xBF:	00 00 00 00 00 00 00 00	0 0 0 0 0 0 0 0

OUTPUT: