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1 Question X

1.1 Aim

1.2 Program

1.2.1 Code

MOV AX, 2100H MOV BX, 2000H ADD AX, BX MOV [2000H], AX HLT

1.2.2 Emulator

Address (CS:0100, IP:0000)	Machine code	Instruction
01000	B8,00,21	MOV AX, 02100H

1.3 Result

1.3.1 Input

AX: 2100H BX: 2800H

1.3.2 Expectation

 $\begin{array}{l} \mathrm{AX} \leftarrow \mathrm{AX} {+} \mathrm{BX}; \\ 2100\mathrm{H} {+} 2800\mathrm{H} \rightarrow 4900\mathrm{H} {\rightarrow} \mathrm{AX} \end{array}$

1.3.3 Emulator

Figure 1: Emulator Output