



Laboratory Exercise No.:	1	Date Performed:	11/09/2025
Laboratory Exercise Title:	Using the EMU8086 Integrated Development Environment		
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Laboratory Report

Activity #1

Instruction	Register value after the instruction is executed
MOV DX, 0145H	DX = 0145H
MOV AX, DX	AX = 0145H, DX = 0145H
INC AX	AX = 0146H, DX = 0145H
DEC DX	AX = 0146H, DX = 0144H

Activity #2

Instruction	Register value after the instruction is executed
MOV BX, 0123H	BX = 0123H
MOV AX, 0456H	BX = 0123H, IP = 0103H
ADD AX, BX	AX = 0456H, BX = 0123H, IP = 0106H
SUB AX, BX	AX = 0579H, BX = 0123H, IP = 0108H
PUSH AX	AX = 0456H, BX = 0123H, IP = 010AH
PUSH BX	AX = 0456H, BX = 0123H, IP = 010BH, SP = FFFC

Activity #2-2

Instruction	Register value after the instruction is executed
MOV AX, 10	IP = 100
MOV BX, 5	AX = 000AH, IP = 0103H
SUB AX, BX	AX = 000AH, BX = 0005H, IP = 0106H

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