

Program in Assembly			
Address	Contents	Contents in Hexadecimal	Register value (Hexadecimal)
0H	MVI B, 9H	39H	B=9
1H	MOV A, B	20H	A=9
2H	MOV C, B	10H	C=9
3H	LDC DH	0DH	DH=10, C=10
4H	SBI 1H	41H	A=9
5H	DCR A	50H	A=8
6H	XRA B	60H	A=1
7H	ORA C	70H	A=10
8H	ANA B	80H	A=8
9H	XRI 4H	94H	A=C(H)
AH	CMA	A0H	A=4

BH	DIV2	B0H	A=2
CH	JMP address	CEH	Go to EH
DH	0AH	0AH	jmp skip this address
EH	OUT	D0H	Out=2 (Result)
FH	HLT	F0H	Give HLT indication