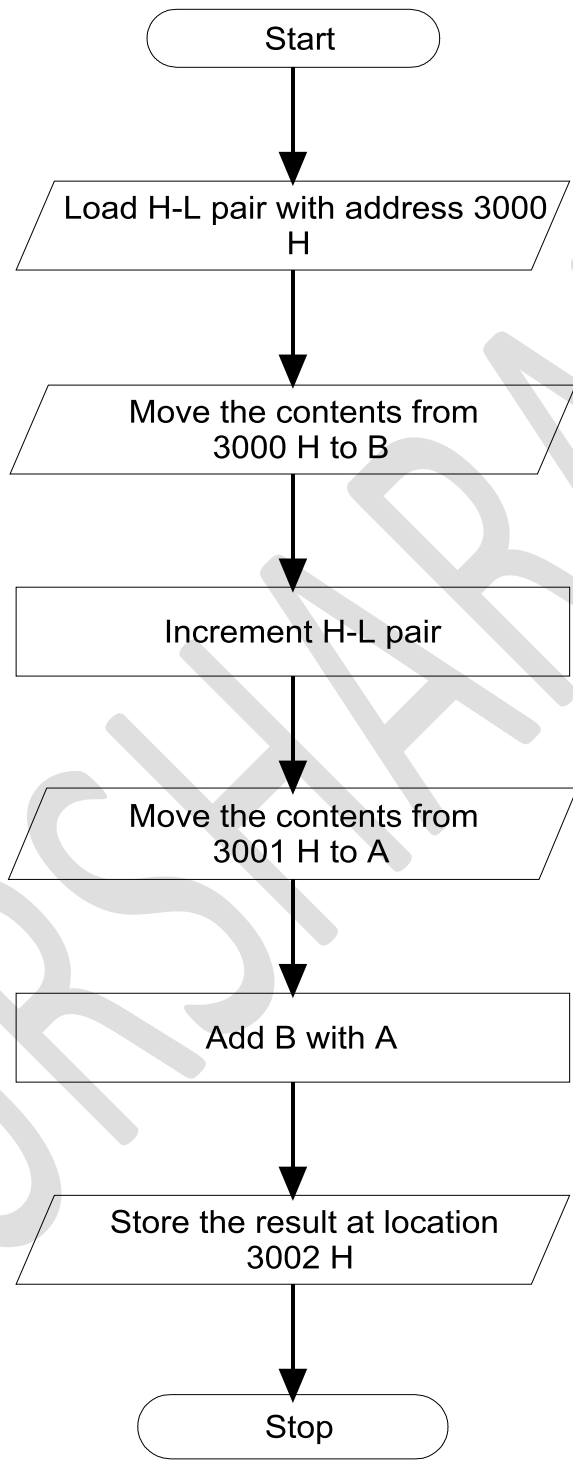


Flow Chart to Add Two 8-bit Numbers Without Carry



Program to Add Two 8-bit Numbers Without Carry

Address	Mnemonics	Operand	Opcode	Remarks
2000	LXI	H, 3000 H	21	Load H-L pair with address 3000 H
2001			00	
2002			30	
2003	MOV	B, M	46	Move the contents from 3000 H to B
2004	INX	H	23	Increment H-L pair
2005	MOV	A, M	7E	Move the contents from 3001H to A
2006	ADD	B	80	Add B with A
2007	STA	3002 H	32	Store the result at 3002H
2008			02	
2009			30	
200A	HLT		76	Halt

Before Execution:

3000: 04 H

3001: 02 H

After Execution:

3002: 06 H