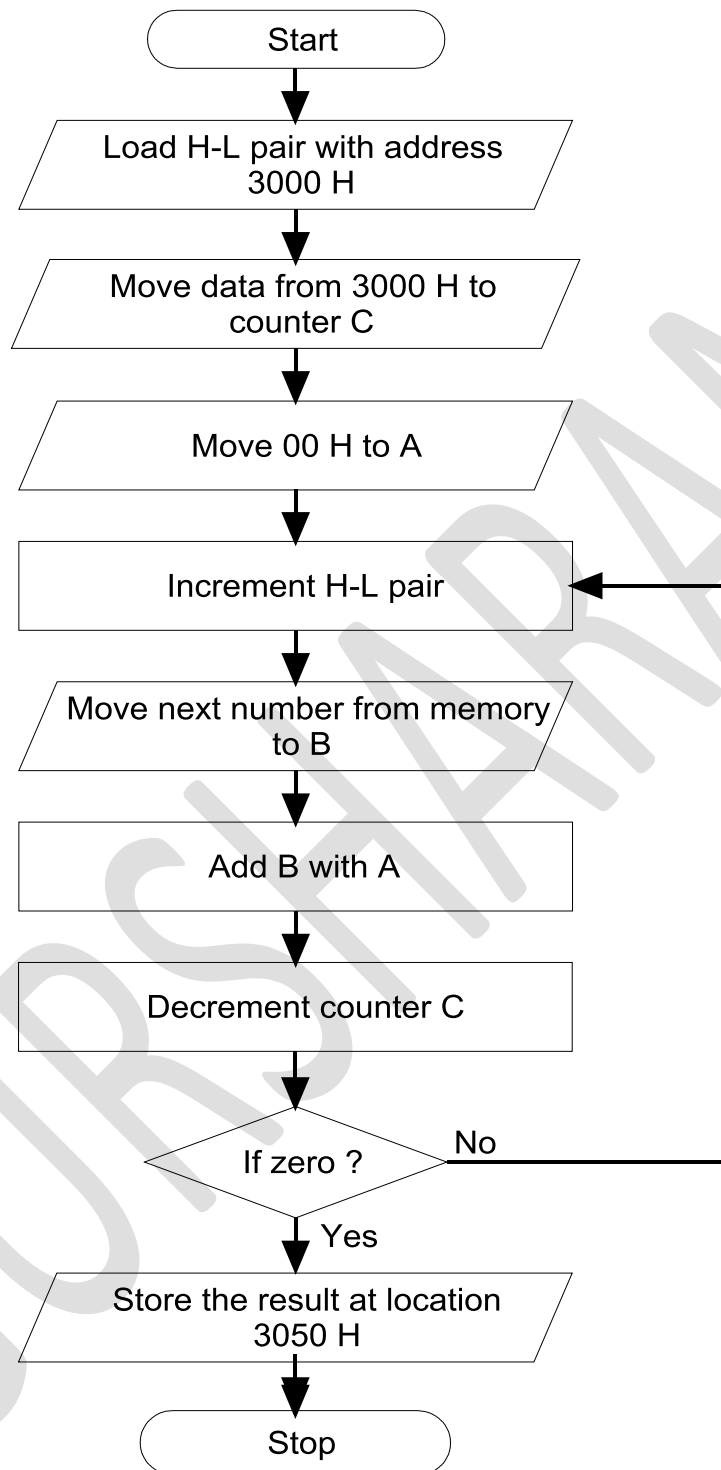


## Flow Chart to Find Sum of Series of 8-bit Numbers



## Program to Find Sum of Series of 8-bit Numbers

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	C, M	4E	Move data from 3000 H to counter C
2004	MVI	A, 00 H	3E	Move 00 H to A
2005			00	
2006	INX	H	23	Increment H
2007	MOV	B, M	46	Move next number from memory to B
2008	ADD	B	80	Add B with A
2009	DCR	C	0D	Decrement counter C
200A	JNZ	2006 H	C2	Jump to location 2006 H if no zero
200B			06	
200C			20	
200D	STA	3050 H	32	Store the result at location 3050 H
200E			50	
200F			30	
2010	HLT		76	Halt

### Before Execution:

3000: 03 H  
 3001: 02 H  
 3002: 04 H  
 3003: 03 H

### After Execution:

3050: 09 H