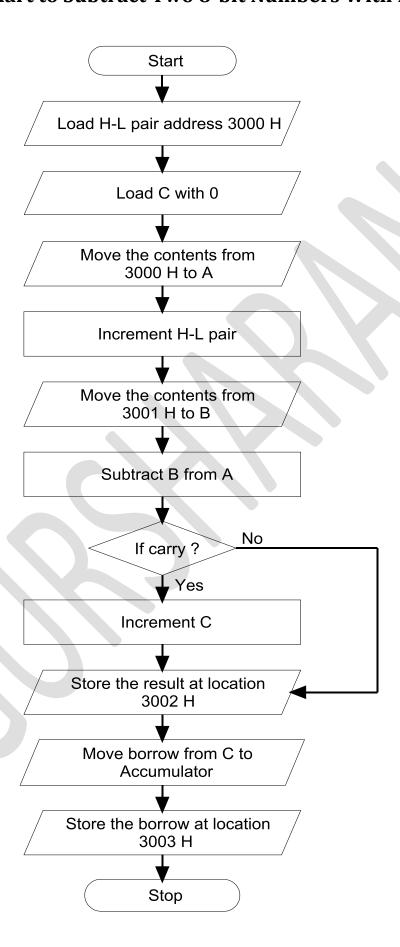
Flow Chart to Subtract Two 8-bit Numbers With Borrow



Program to Subtract Two 8-bit Numbers With Borrow

Address	Mnemonics	Operand	Opcode	Remarks
2000	LXI	Н, 3000 Н	21	Load H-L pair with address 3000H
2001			00	
2002			30	
2003	MVI	C, 00 H	0E	Load C with 0
2004			00	
2005	MOV	A, M	7E	Move the contents from 3000 H to A
2006	INX	Н	23	Increment H-L pair
2007	MOV	B, M	46	Move the contents from 3001 H to B
2008	SUB	В	90	Subtract B from A
2009	JNC	200D H	D2	Jump to location 200D H if no carry
200A			0D	
200B			20	
200C	INR	С	0C	Increment C
200D	STA	3002 H	32	Store the result at location 3002 H
200E			02	
200F			30	
2010	MOV	A, C	79	Move borrow from C to Accumulator
2011	STA	3003 H	32	Store the carry at location 3003 H
2012			03	
2013			30	
2014	HLT		76	Halt

Before Execution:

3000: 05 H 3001: 02 H

After Execution:

3002: 03 H