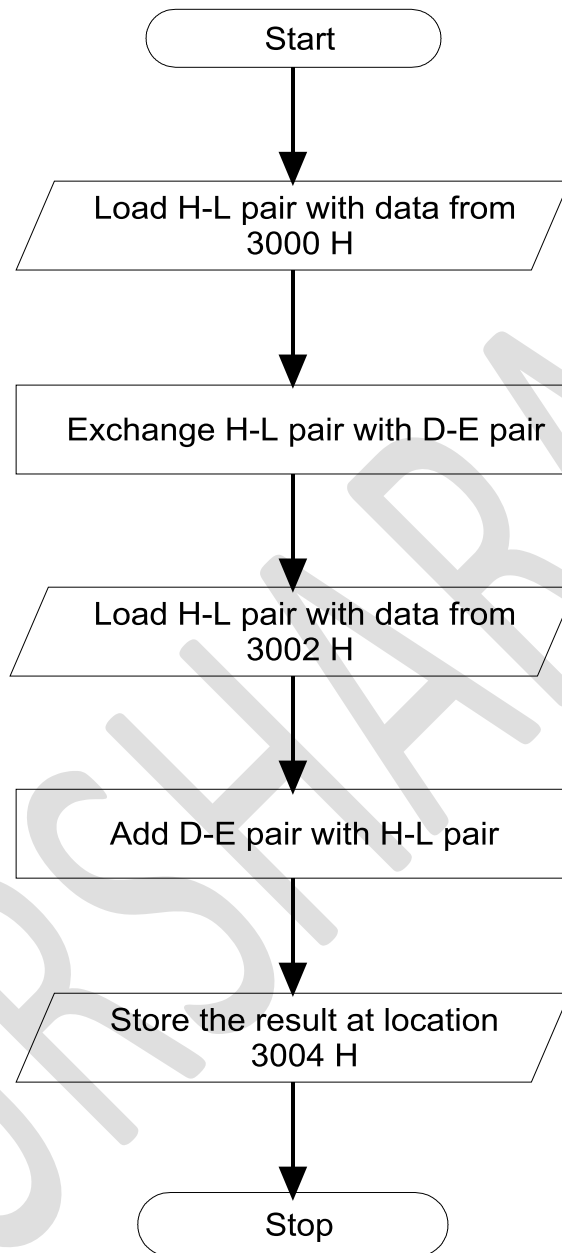


Flow Chart to Add Two 16-bit Numbers Without Carry



Program to Add Two 16-bit Numbers Without Carry

Address	Mnemonics	Operand	Opcode	Remarks
2000	LHLD	3000 H	2A	Load H-L pair with data from 3000 H
2001			00	
2002			30	
2003	XCHG		EB	Exchange H-L pair with D-E pair
2004	LHLD	3002 H	2A	Load H-L pair with data from 3002 H
2005			02	
2006			30	
2007	DAD	D	19	Add D-E pair with H-L pair
2008	SHLD	3004 H	22	Store the result at location 3004 H
2009			04	
200A			30	
200B	HLT		76	Halt

Before Execution:

3000: 02 H
 3001: 01 H
 3002: 04 H
 3003: 05 H

After Execution:

3004: 06 H
 3005: 06 H