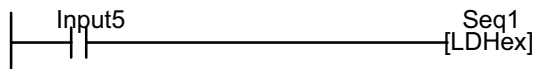


Note that Input #4 is the most significant bit and Input #1 the least significant bit. Next construct a ladder diagram using the [LDHex] function as follow:



When Input #5 is ON, the Counter #1's present value will be loaded with the hexadecimal/BCD number formed by Inputs #4,3,2 & 1. Since Counter #1 is also Sequencer #1, its step number can be used as a decoded signal for decision making purposes.

5. Program Step Size Calculation

For E10+ PLCs, the step sizes occupied by the contacts, coils and special functions are different from that of the H-series. Most program elements occupy only one program step, with the following exceptions occupying two steps each.

	Symbol	Step Size
1	Seq1:N & Seq1:N contacts for Sequencer#1 Step N	2
2	T1 (TIM) & C2 (CTR) Coil for Timers & Counters	2
3	[ILock] & [ILOff] Interlock functions	2
4	[DIFU] & [DIFD] Differentiation functions	2
5	[LdHex] "Load Seq1 with Hex number" function	2
6	ENDLOGIC - Always used at the end of each program	2

6. Host Link Commands

The new E10-npn+ PLCs support a full set of point-to-point and multi-point host link commands for communication with a host computer. You normally DO NOT need to know them in order to program the PLC. Please refer to the "E10+ Host Link Command Reference Manual" ("HostlinkE10.pdf" on your WinTRILOGI CD-ROM or download from the following webpage: <http://www.tri-plc.com/HostlinkE10.pdf>).

E10-npn+ PLC (with RS485) Installation Guide

The new E10-npn+ PLC is an enhanced version of the E10-npn. All timers and counters in the E10+ now support the full range of set values from 0-9999 instead of just 0-254, and the maximum program steps have been increased to 216 steps compared to just 90 steps in the original E10. More importantly, the E10+ PLCs can now be programmed by the new WinTRILOGI version 3.5 software which runs under Windows 95/98/ME/NT/2000 and XP. The new E10+ PLC also has a jumper-selectable **RS232 / RS485** port with programmable baud rate, and supports a full set of host link commands similar to those on the H- and the M-series PLCs. This PLC can thus be used as a slave I/O board for a host PC or as **remote I/Os** of an M-series PLC. The new E10-npn+ employs 1/8 power RS485 driver and hence up to 248 E10-npn+ can be networked to a single host PC or PLC!

Notes:

- 1) This PLC maintains backward compatibility with the original DOS TRILOGI so the old DOS TRILOGI can still be used to program the E10+ PLCs. The extra programming steps are supported by DOS TRILOGI 3.3E, but the timers/counters remain limited to 0-254 range when you use the DOS TRILOGI 3.3E to program it.
- 2) The WinTRILOGI 3.5 **CANNOT** be used to program the original E10 PLCs. There was an unresolvable timing issue between the original E10 and the Windows O/S. and hence it was not possible to develop a Windows version of TRILOGI to program the original E10-npn and E10-relays.

1. E10-npn+ Wiring Diagram

