PyroElectro.com - PyroEDU

Introduction To Modern Electronics – Lesson 10: Schematics & Datasheets

SCHEMATICS

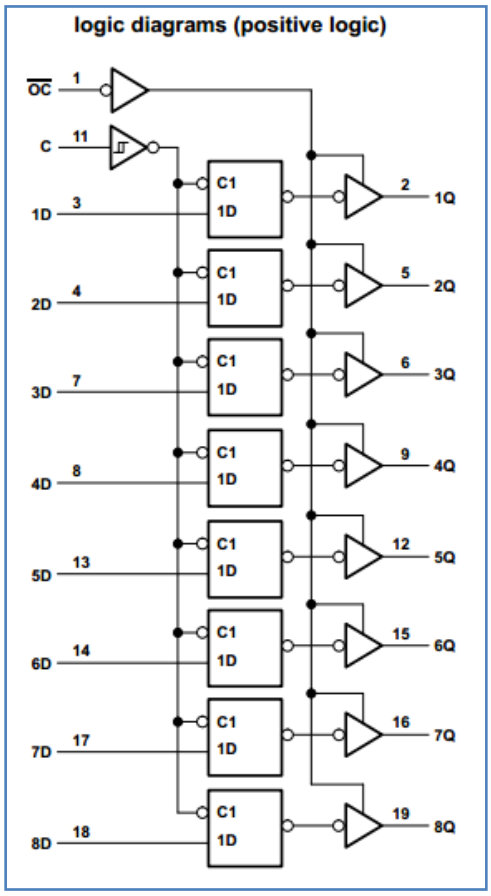
The following schematic material is meant to go with the online lesson found here:
http://www.pyroelectro.com/edu/basics/documentation/

A DIGITAL PREVIEW – LOGIC DIAGRAMS

We saw a lot of schematics in this lesson and most of them were from the previous lessons that we went through. One additional type of schematic that I wanted to go into more detail about was the internal IC schematic for the part we briefly looked at in the lesson, the 74LS373.

To the right you can see the logic diagram of the 74LS373 part. This diagram uses what are called logic symbols to give us an idea of how the part works. Logic symbols are very similar to the circuit symbols we see in schematics, however one logic symbol can represent more than 1 circuit symbol, confused?

Don't worry if you didn't catch all of that. This short blurb about logic symbols is meant to serve as an introduction to the next course in this series: "An Introduction To Digital Electronics." When you Begin that course, logic symbols will be more Thoroughly explained and understood. For now, I just wanted to introduce you to the idea that every integrated circuit (even the 555 timer and u741 opamp) has its own schematic in the datasheet explaining how the insides of the IC chip works, and for this 74LS373 IC, it is called a logic diagram.



ADDITIONAL INFORMATION

To ask questions about anything found in this schematic please head on over to the forums located at:
http://www.pyroelectro.com/forums/viewforum.php?f=22