ECE-301-204

Lab7 BCD Adders

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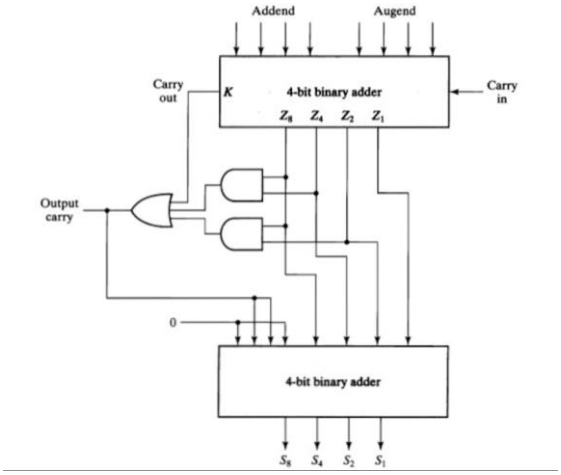
Objective:

Understand the design and operation of BCD adder circuits.

Preparation:



Materials and Equipment:

- ET-1000 Trainer
- Wires
- Breadboard
- 74LS47 BCD, 7-segment Driver/Decoder, 74LS283

Laboratory Data:

Above is the layout of the circuit on the breadboard. In the picture we see that we have "2 + 3" which equals 5 and the LED is not lit up because 5 is not greater than 9.

Comments and Conclusion:

One major thing is to always look at the data sheets and don't assume because us assuming was costly to our time and we ended having to rewire everything because the layout of the IC was different than the normal BCD. Another is that we learned how the 7-segment display works and how each line is powered. Looking into the use of 2 BCDs we see that we can display numbers up to 14 so that only opens us up to various options for the future when it comes to inputting numbers greater than 20 or even 100.