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BILKENT UNIVERSITY
COMPUTER ENGINEERING DEPT.
CS223 LAB 1 SECTION 4
LAB REPORT



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1. Circuit Schematics

For all IC's, their pin number for GND is 7 and for Vcc(+5V) is 14. Proper pin numbers are drawn on top of each port.

a) Half Adder

This circuit requires one of each of the following IC parts to be build.

- 7408 Quad 2 Input AND Gate
- 7486 Quad 2 Input XOR Gate

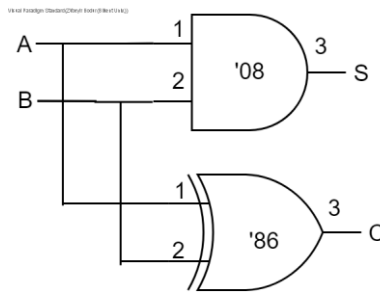


Figure 1: Schematic for the half adder circuit

b) Full Adder

This circuit requires one of each of the following IC parts to be build.

- 7408 Quad 2 Input AND Gate
- 7432 Quad 2 Input OR Gate
- 7486 Quad 2 Input XOR Gate

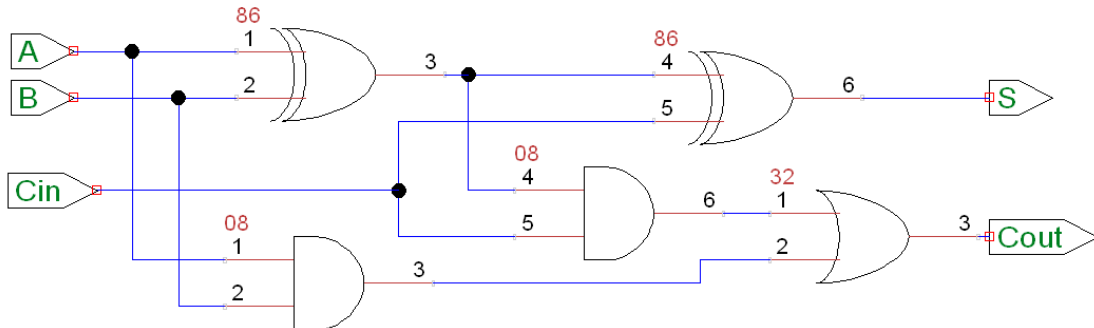


Figure 2: Schematic for the full adder circuit