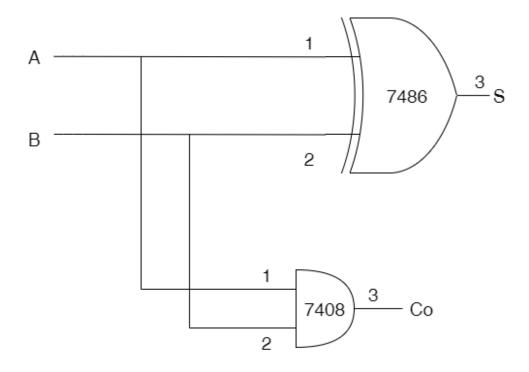
CS223 Laboratory Assignment 1

Digital Circuits: Logic to Gates

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Half Adder Circuit Schematic:

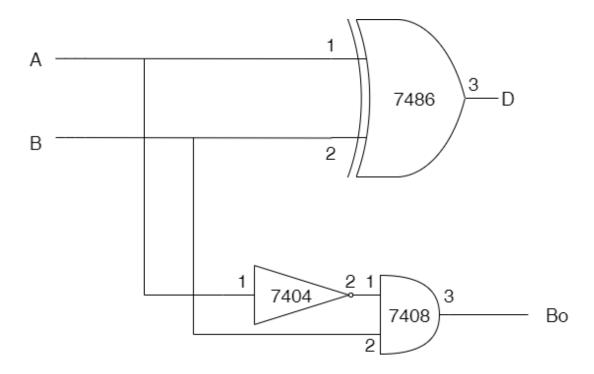


IC List:

- 1-) One 7486 quad 2-input XOR gate
- 2-) One 7408 quad 2-input AND gate

<u>7486:</u>	<u>7408:</u>
GND – 7	GND – 7
+5V – 14	+5V – 14

Half Subtractor Circuit Schematic:

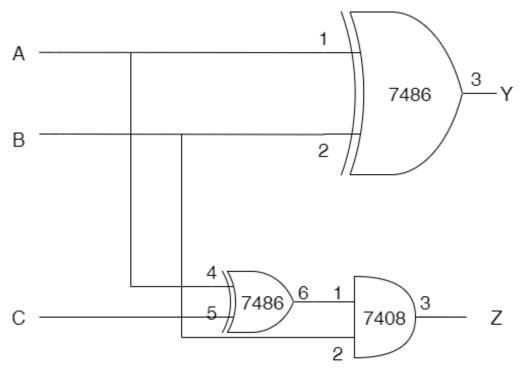


IC List:

- 1-) One 7486 quad 2-input XOR gate
- 2-) One 7408 quad 2-input AND gate
- 3-) One 7404 six INVERTER gate

<u>7486:</u>	<u>7408:</u>	<u>7404:</u>
GND – 7	GND – 7	GND – 7
+5V – 14	+5V – 14	+5V – 14

Lab Calculator Circuit Schematic:



IC List:

- 1-) One 7486 quad 2-input XOR gate
- 2-) One 7408 quad 2-input AND gate

<u>7486:</u>	<u>7408:</u>
GND – 7	GND – 7
+5V – 14	+5V – 14