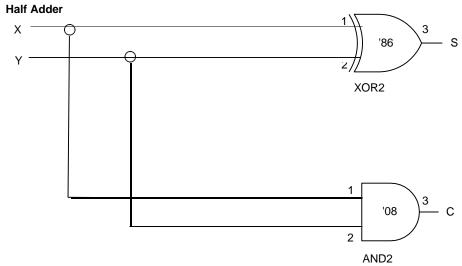




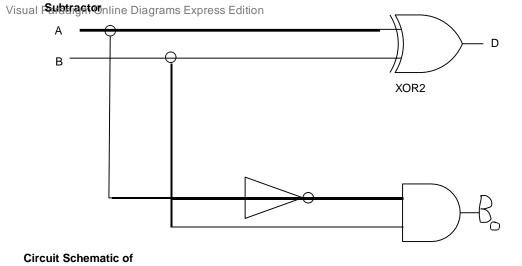
Circuit Schematic of



IC List of Half Adder One 7408 Quad 2-Input AND Gate One 7486 Quad 2-Input XOR Gate

74LS08: GND-7 +5- 14

74LS86: GND- 7 +5- 14



IC List of Half Subtractor
One 7408 Quad 2-Input AND Gate
One 7486 Quad 2-Input XOR Gate
One 7404 six INVERTER.

74LS08: GND- 7 +5- 14

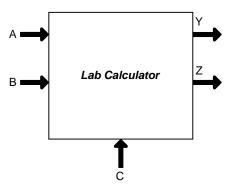
74LS86: GND- 7 +5- 14

AND2

74LS04: GND- 7 +5- 14

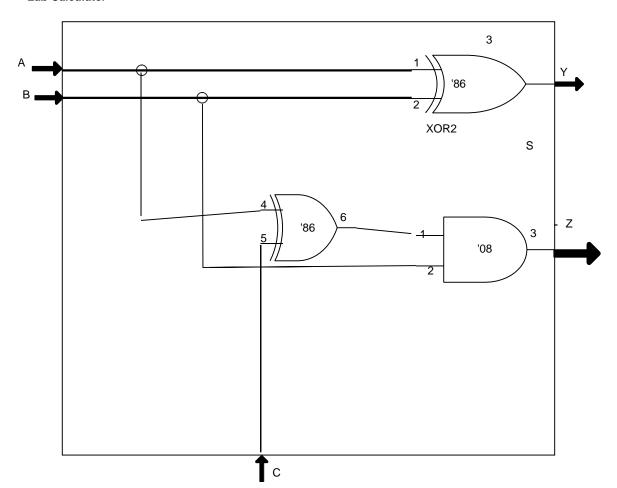
 $D = A \oplus B$ Borrow out = \overline{A} .B

Logic Diagram of Lab Calculator



 $Y = A \oplus B$ $Z = (A \oplus C).B$

Circuit Schematic of Lab Calculator



IC List of Lab Calculator One 7408 Quad 2-Input AND Gate One 7486 Quad 2-Input XOR Gate 74LS08: GND- 7 +5- 14

74LS86: GND- 7 +5-

