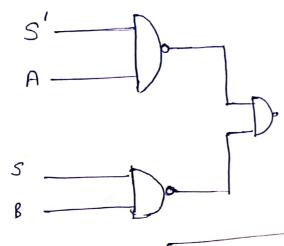
Design an older substructor 8 bit circuit using any 2-input gates, and count the number of gates required and the delay of the circuit.

Solution

We first draw the basic circuit and then a full circuit.



Number of gates in a 2×1 MMX = 3.

2×1 MUX

B Sum

Sum

Sout

1 - Bit FULL ADDER

Number of pates in a 1-lit Full ADDER = 5.

