BOUL = NA. BID: + NA.B + B.BID

HALF ADDER :-

Half Adder 98 a combinational circuit used for addition operation. It consists of two i/ps of two olps. The two olps the two

Half adder is the building block for move complex adders circuits such as full adders & multiple - bit adders.

The sum output is the teast significant bit [LSB] of nesult, while the carrier output is the Most signific ant bit [MSB] of the nesult, indicating whether there was a carry over from the addition of two inputs. The half adders can be implemented using xor gate of AND gate.

-D	B	8	C	*
0	0	0	ø	A A S
D	1	· ·	ò	8
1	0	l.	6	
ŧ	1	0	1	•

S=ANB

C = A.B