Truth Tuble Construction

- . A truth table shows how the legic design output respond to call combinations of inputs
- · A logic design with Ninputs will have 2N input communitions
- . Truth towns inputs are listed in asconning binning court order in the un-most columns
- · Truth touble Outporks) care listed in columns to the right of the inpute where some logic circuits have more than one suport:

Constructing A Truth Table

		MPUIS - OUPUI			
	X	Y	Z	F	
(0	0	0	0	•
				1	
Input Concessor	0	1	0	0	
7-Inputs	0	1	1	1	
8-combinisher	1	0	0	-	
8=2"	L	0	ı	0	
	1	1	0	1	
		1	,	7	

Outputs for each input combinution

Truth table to Logic Expression

- . Write a minterm adaptact to every row in the truth table that contains a one in two owner colonic
- · Write the Sum-of-products (SOP) logic expression by summing will of the minterns

Truth Tuble to Logic Expression Example

Design Specifications to Truth Tuke

- 1 lokatify the number on verticus
- 2. Assign variable names and establish the assignment condition for each beneated e.g. when does a 0 or 1 man forther input?
- 3. Crosse a treth techne

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Exu	
Ta	Messure Songer > 1)= Sugli-14 and
	Cooperative Songer - D-Early 11-11-11
Exam	Alarm -> 0= Alarm off/ = Alam en Ple #2
W	CON THE RESERVE OF THE PROPERTY OF THE PROPERT
D	: Window sersor -> 0 = Off/1 = Un Open : Door sersor -> 0 = Closed/1 = Open
K	: Key -> 0= No bes / 1= key
	o ma we want
	S= KD+KW UNIZU
	DATE OF THE PROPERTY OF THE PARTY OF THE PAR
Transle .	
	Z A A A A A A A A A A A A A A A A A A A
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