Inputs		Output	
X	**Y**	$S_{HA} = x'y + xy'$	$C_{HA} = x\,y$
0	0	0	0
0	1	1	0
1	0	1	0
1	1	0	1

$S_{HA} = x'y + xy'$

$C_{HA} = xy$

i/p's			o/p's			
			S_{FA}		C_{FA}	
x	Y	z	Actual	Observed	Actual	Observed
0	0	0	0	0	0	0
0	0	1	1	1	0	0
0	1	0	1	1	0	0
0	1	1	0	0	1	1
1	0	0	1	1	0	0
1	0	1	0	0	1	1
1	1	0	0	0	1	1
1	1	1	1	1	1	1

S_{FA} = (xy' + x'y)(z') + (xy' + x'y)'(z)

Xy'z' + x'yz' + [(x'+y)(x+y')] (z)

Xy'z' + x'yz' + [x'y' + xy] (z)

➔ xy'z' + x'yz' + x'y'z + xyz

C_{FA} = xy +[(xy' + x'y) (z)]

➔ xy + xy'z+x'yz