

CS/COE 0447 Fall 2009

Lab : Combinational Logic Design

Solution

1) Getting Started with *Logisim*

A	B	C _{in}	S	C _{out}	AND1	AND2	AND3	AND4	AND5	AND6	AND7
0	0	0	0	0	0	0	0	0	0	0	0
0	0	1	1	0	1	0	0	0	0	0	0
0	1	0	1	0	0	1	0	0	0	0	0
0	1	1	0	1	0	0	0	0	1	0	0
1	0	0	1	0	0	0	1	0	0	0	0
1	0	1	0	1	0	0	0	0	0	1	0
1	1	0	0	1	0	0	0	0	0	0	1
1	1	1	1	1	0	0	0	1	1	1	1

2) 7-Segment Display

I1	I0	A	B	C	D	E	F	G
0	0	0	1	1	1	1	1	1
0	1	0	0	0	1	0	0	1
1	0	1	0	1	1	1	1	0
1	1	1	0	1	1	0	1	1

