

LABORATORY 2

Please print this sheet prior to coming to laboratory. Complete the pre-laboratory tasks in your lab notebook. Complete the lab tasks in **both** your lab notebook and this submission sheet.

1 Pre-laboratory Verification



2 Laboratory Verification



3 Deliverables

1. Copy the results table below (you may omit **0** values):

Base 2 Base 10		Calc. V _{in} (V)	Meas. V _{in} (V)	INPUT Logic Level (low/high)*	Meas. Vout (V)	OUTPUT Logic Level (low/high)*			
0000	0	0.000							
0001	1	0.220							
0010	2	0.440							
0011	3	0.660							
0100	4	0.880							
0101	5	1.100							
0110	6	1.320							
0111	7	1.540							
1000	8	1.760							
1001	9	1.980							
1010	10	2.200							
1011	11	2.420							
1100	12	2.640							
1101	13	2.860							
1110	14	3.080							
1111	15	3.300							

^{*} Based on IC datasheet values of $V_{\rm IH}, V_{\rm IL}, V_{\rm OH},$ and $V_{\rm OL}.$

2.	Ex	pla	ain	wh	at i	S S	een	on	the	e M	ΙΑΊ	TL/	AΒ	plo	t of	the	e re	sul	ts a	and	wh	at	the	res	ult	s ta	ble represents.
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3. Staple a printout of the MATLAB plot to this submission sheet.