

Lab 1 -- Basic Logic Gate Functions

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Verification of AND Gate Function:

1. Using the SN74HC08 datasheet, complete the schematic in Figure 1 by filling in the pin numbers for  $V_{CC}$ , GND, and one of the AND gates.
2. Assemble the circuit shown in Figure 1 on the Digital Trainer and complete the truth table shown in Table 1.
3. Have the instructor verify your work and initial your results.

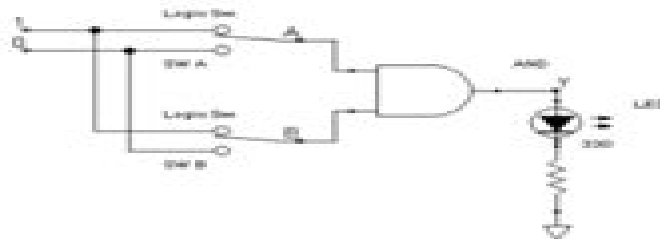


Figure 1. AND Gate Schematic Diagram

A	B	Y
0	0	
0	1	
1	0	
1	1	

Table 1. AND Gate Truth Table

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**Thirumalaisamy P.**  
**Velavancorresponding**



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