

EET165 Lab #2

Name: _____

Name: _____

Name: _____

Date performed: _____

Title: Convert digital logic to a PLC program.

Purpose: To introduce the students to digital logic and the PLC simulator.

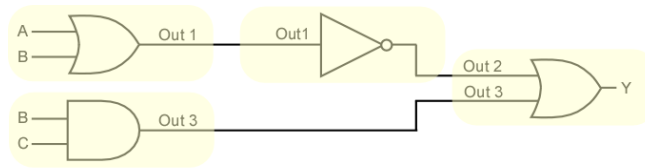
Prelab: There is no prelab for this lab.

Procedure: Using the equipment and components provided in the lab, complete the lab as described.

Step 1: Open up a new PLC project. Program the circuit that is on the back of this lab sheet. Each bubble encloses a single rung of the program. So, your program will have 4 rungs in it.

Step 2: Your input A will be I:1/7 (SW8), B will be I:1/6 (SW7), and C will be I:1/5 (SW6). The output will be O:2/6 (LAMP7).

Step 3: Once you have the program working without an error, you will need to try all 8 inputs where **False is the same as off** and **True is the same as on**. You will then fill in the table where you will record if the lamp is On or Off.



A	B	C	LAMP
False	False	False	
False	False	True	
False	True	False	
False	True	True	
True	False	False	
True	False	True	
True	True	False	
True	True	True	

Step 4: Once you have filled in the chart, call the instructor over to check your answers. If your answers are correct, the instructor will sign your lab.

Signature: _____

Step 5: Print out your ladder logic and attach it to the lab.