

EET165 Lab #10

Name: _____

Name: _____

Name: _____

Date performed: _____

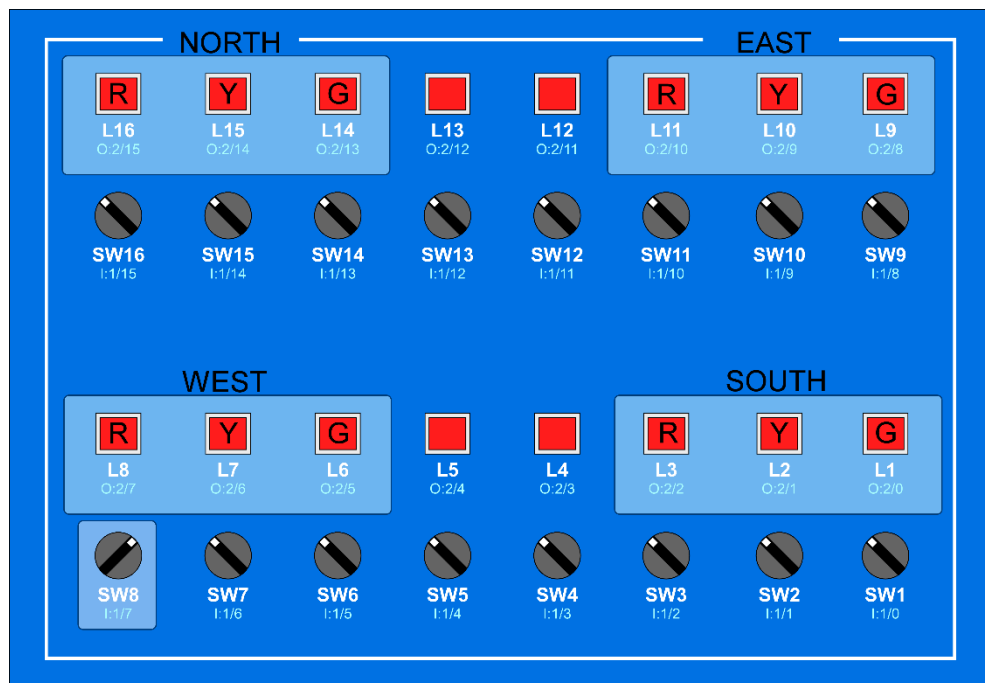
Title: Sequencer

Purpose: To teach the students how to use a Sequencer

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: Below is the control panel and how it will be used in this lab. The panel will represent streetlights at an intersection. The lights representing the RED, YELLOW and GREEN are marked on the lamp. SW8 (I:1/7) will control the lights.



Step 2: When SW8 is on, the streetlights will go through the following sequence:

- a. North and South Red on / East and West Green on / (5 Seconds)
- b. North and South Red on / East and West Yellow on / (3 Seconds)
- c. North and South Red on / East and West Red on / (1 Seconds)
- d. North and South Green on / East and West Red on / (5 Seconds)
- e. North and South Yellow on / East and West Red on / (3 Seconds)
- f. North and South Red on / East and West Red on / (1 Seconds)

Step 3: When SW8 is off, the streetlights will go through the following sequence:

- a. North and South Red on / East and West all off / (2 Seconds)
- b. North and South all off / East and West Red on / (2 Seconds)

Step 4: HINT: You should use two subroutines. One subroutine that runs when SW8 is on and one subroutine that runs when SW8 is off.

Step 5: When the program is working, call the instructor over and demonstrate the working PLC program. When the program is working correctly, the instructor will sign the lab below.

Signature: _____

Step 6: Print out the PLC program and attach it to the back of this lab.