

EET165 Lab #5

Name: _____

Name: _____

Name: _____

Date performed: _____

Title: Timers

Purpose: To teach the students the difference between the different types of timers and how to use them.

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: Write a PLC program that will do all of the tasks below.

- a. Have a light that is always on. This represents the Emergency exit lights that by law are always on.
- b. There will be one switch that will turn on two lights. The first light represents the lights in the office building and the second light represents the lights in the parking lot. When the switch is on, both lights are on.
- c. When the switch goes off, the first light (the office lights) will stay on for 5 seconds and turn off. (In a real-world example this would be more like 5 minutes.)
- d. When the switch goes off, the second light (the parking lot lights) will stay on for 15 seconds and turn off. (In a real-world example this would be more like 15 minutes.)

Step 2: Record the inputs and outputs below.

Light switch	
Office lights	
Parking lot lights	
Emergency Lights	

Step 3: Comment your program. Make sure all of the lab member's names are at the top of the code, the comment includes "LAB 5: Building Lights", and the date.

Step 4: When the program is working, call the instructor over and demonstrate the working PLC program. If it is working correctly, the instructor will sign the lab below.

Signature: _____

Step 5: Print out the PLC program and attach it the back of this lab.