

# PLC127 LAB 3.3: ALLEN BRADLEY COMPACTLOGIX

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

Student ID: \_\_\_\_\_

## LAB OUTCOMES:

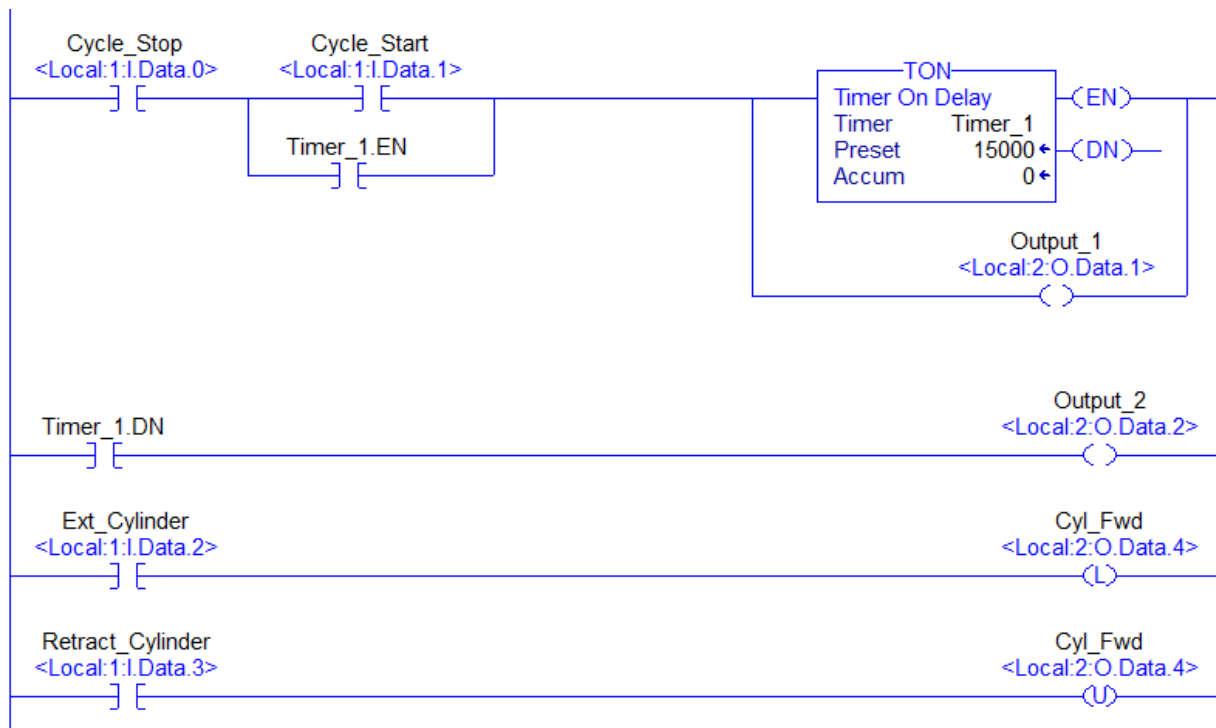
1. Identify and explain all the communications ports on the CompactLogix processor
2. Demonstrate how to configure an RS-232 driver in RSLinx and explain the information in RSWho
3. Demonstrate how to create a new project in RSLogix5000, including configuring the I/O
4. Demonstrate how to create alias tags in the controller tags settings

## LAB PROCESS:

Key in the Alias tags for the Base I/O Tag addresses. Write the program with RSLogix5000 as shown in part 1 and then save it to the hard drive of the computer. You will then download the program to the ControlLogix processor. Once that it is complete you will go online with the ControlLogix and place the processor in RUN mode.

## Part 1

1. Key in the following program and save it to the hard drive. Name the project something you will be able to easily remember.



### Questions

1. Do any instruction (contacts or coils) have highlight?

Which ones?

2. Momentarily push the **Cycle\_Start** (Local:1:I.Data.1).

Does the timer start timing?

Do any outputs come on?

3. The **Cyl\_Fwd** (Local:2:O.Data.4) coil comes on and stays on even though the input **Ext\_Cylinder** (Local:1:I.Data.2) is not on. Explain.

4. Why does the **Cyl\_Fwd** (Local:2:O.Data.4) coil turn off when the **Retract\_Cylinder** (Local:1:I.Data.3) input is pressed. Explain.

*The outcomes of this exercise (listed on page 1) specifies the skills that the Student must demonstrate to the Instructor. Once the Instructor is satisfied with the demonstration of Knowledge & Skills by the individual student, they will sign this document (for the student), then enter a 100% into the Hands-On Lab grade in Sakai.*

I verify that this student has completed all of the requirements of this Hands-On Assessment:

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

Faculty Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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