Northwest State
Community College

PLC220 Hands-On Assessment, Module 8

Student Name: _____ N# _____ Date: _____

This hands-on assessment requires that each student successfully demonstrates each of these tasks to the instructor's satisfaction. There is no grade for this assessment.
Prior to taking this assessment, the student must pass (minimum of 80%) the Knowledge and Application Assessment.
The student cannot proceed to the HOA for the next module without completing this HOA

Equipment Required:

Computer with Wonderware InTouch software, RSLinx Gateway, RSLogix / Studio 5000
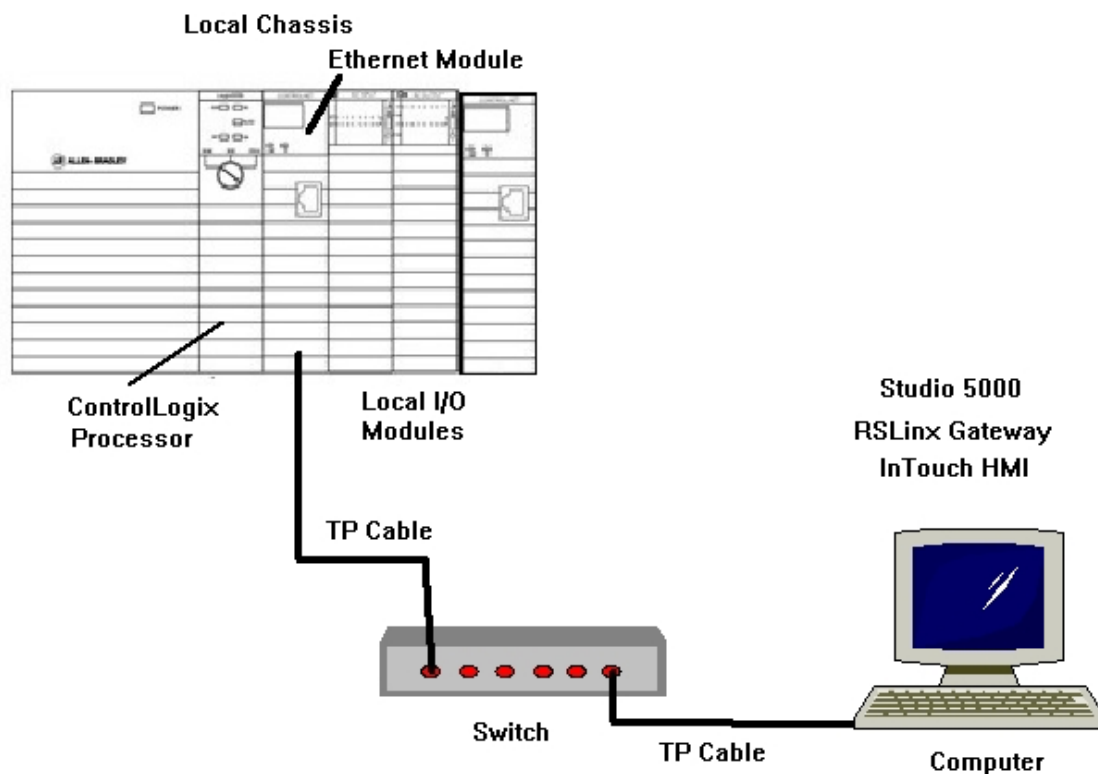
Hardware Set-up

Figure 1-A. Hardware configuration for this HOA.

_____ 1. Start a new CottrolLogix Project file named – HOA_8

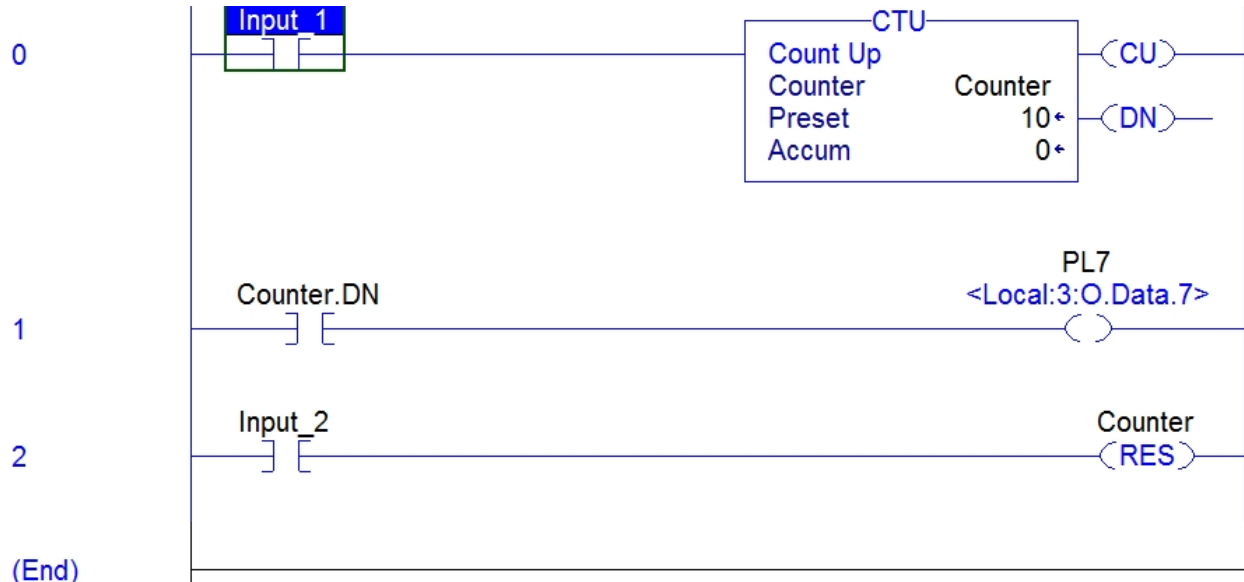_____ 2. Program Ladder Logic as shown in Figure 2-A

Figure 2-A. The ladder program for this HOA.

_____ 3. Download HOA_8 Project File to ControlLogix processor
Place processor in RUN Mode.

_____ 4. Using RSLinx – configure a Topic called WW

_____ 5. Start a new InTouch application named Module_8_HOA

_____ 6. Create a window for the application – Replace Type window
Name the of the windows ControlLogix

_____ 7. On the window create the following objects
Rectangle object to act as a switch
- Assign Input_1 to the Rectangle object
- The rectangle object will be used to toggle the Rung 0 condition
- Use your initials as Access Name

A Wizard Light -> Light Panel Object
- The Light Panel Wizard will be RED when Counter is not done
- The Light Panel Wizard will be Green when is done

Configure a Rocker Switch Wizard object to Reset the Counter

_____ 8. Create a Number Field object to monitor the value of the Counter Accumulated Value.

_____ 9. Create a Number Field object to change the value of the Counter Preset Value
- Use Keypad to enter Counter Values
- Configure value range 0 – 20

_____10. Add labels to identify object's function.

_____ 11. Save all windows

_____12 Verify application operation

DOL DISCLAIMER:

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