PLC210 Lab 9: User-Defined Data Types

Upon completion of this lab, the student should be able to:

1. Explain the function and purpose of a User-Defined Tag
2. Determine if there are User-Defined Tags in a project
3. Interpret the layout of the User-Defined Tags in the tag view display
4. Change the values in a User-Defined Tag

Download the project Compact_Module_4_User_Data_Structure1.ACD, go Online and put the CompactLogix into the Run mode to do the following lab.

The I/O tag names in this lab may need to be changed to match the addresses on your hardware trainer.
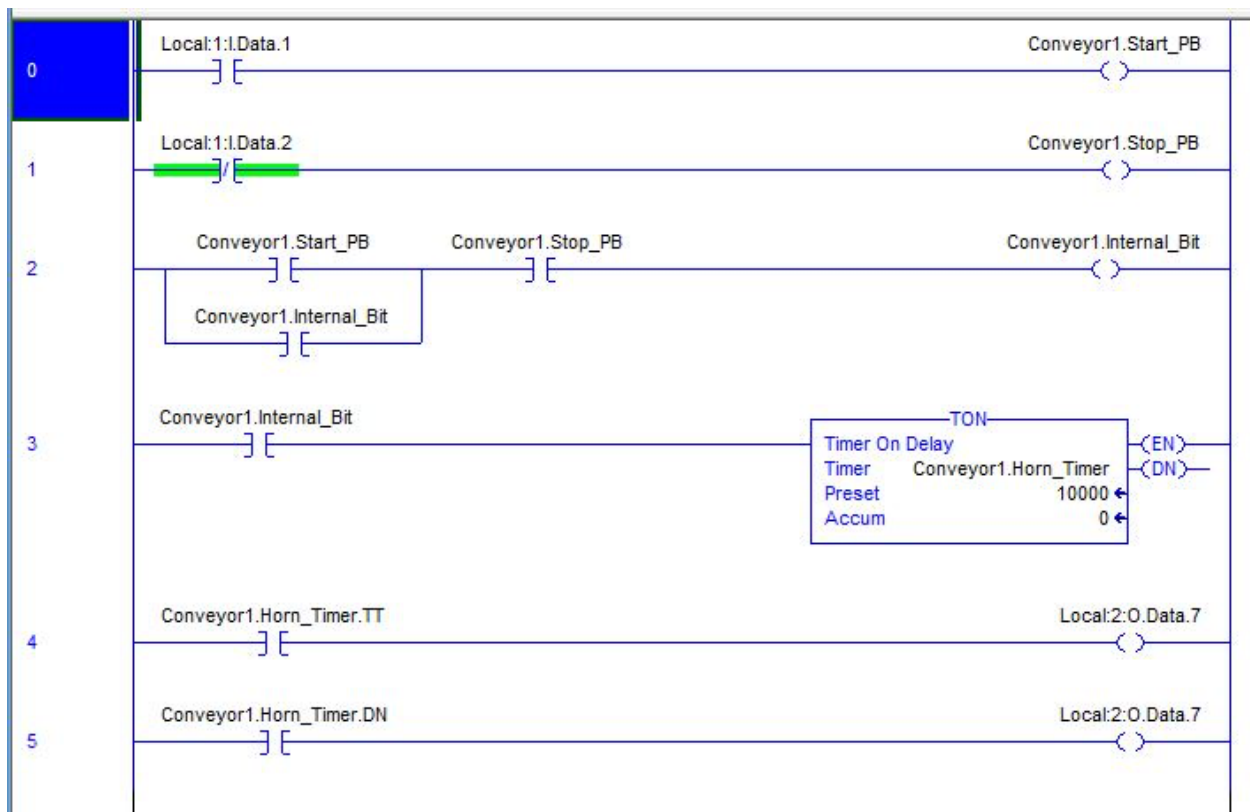

Figure 1. User defined data type in ladder logic.

1. Press PB1 on the demo unit

What output comes on? _____

Wait 10 seconds, what happens to the outputs?

_____

Explain

2.   View User-Defined data from the Controller Organizer window.

Data Types > User-Defined > Start_Stop

List the Members that make-up the User Defined Tag –

Start_Stop

Name	Data Type	Style

3.   Open Controller Tags screen.

What is the Data Type for the Conveyor1 tag?_____

Expand the tag Conveyor1.

What is the tag structure for the Conveyor1 tag?

Name	Data Type	Style

4.   Compare the Conveyor1 tags to the Start_Stop User-Defined tag members.

PLC210 Lab Exercise 9, 12/10/16
I AM iSTAR, A DOL funded project

DOL DISCLAIMER:

This product was funded by a grant awarded by the U.S. Department of Labor's Employment and Training Administration. The product was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership.

This work is licensed under a Creative Commons Attribution 4.0 International License.

Data Types   Page 3