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

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<th>Name</th>
<th>Data Type</th>
<th>Style</th>
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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?

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