

PLC131 LAB 1.1: PROJECT DOCUMENTATION

Student Name: _____

Student ID: _____

LAB OUTCOMES:

1. Demonstrate how to modify Documentation
2. Demonstrate how to add rung comments
3. Demonstrate how to add comments to inputs and outputs
4. Demonstrate how to add Documentation

LAB PROCESS:

Download the project “Compact_Module_7_search_doc.ACD” file, go online and put the CompactLogix into RUN mode.

Part 1

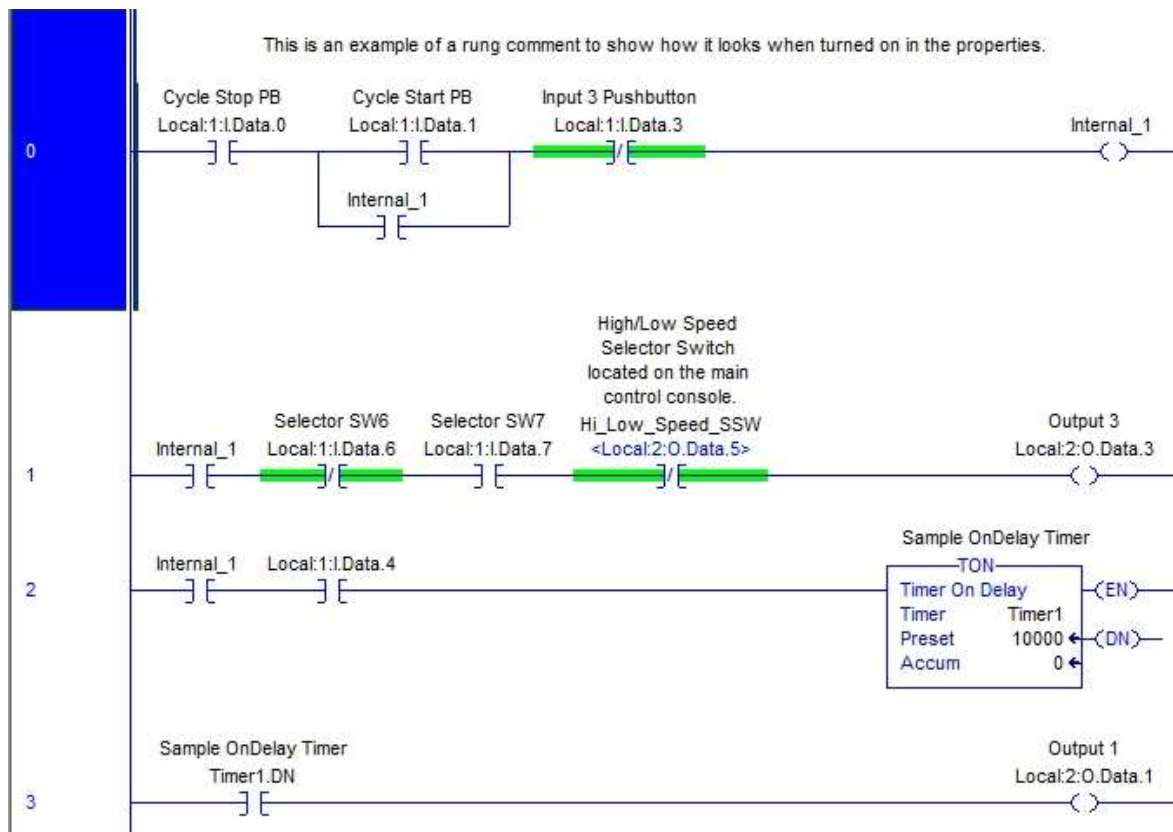


Figure 1-A

Note: For CompactLogix processors – while documentation / descriptions can be viewed and modified while on-line the documentation / description information is stored in the off-line version of the project file.

Documentation / Descriptions / Comments are terms that refer to text shown in Project Files to assist in the understanding of Project information.

1. Monitor the MainRoutine

List examples of the following types of documentation / descriptions shown in the MainRoutine:

Rung Comment:

Tag / Instruction Comment:

Internal Tag:

Alias Tag:

2. Modify Documentation

Double click the rung comment at Rung 0.

This will open the rung comment in an editing window.

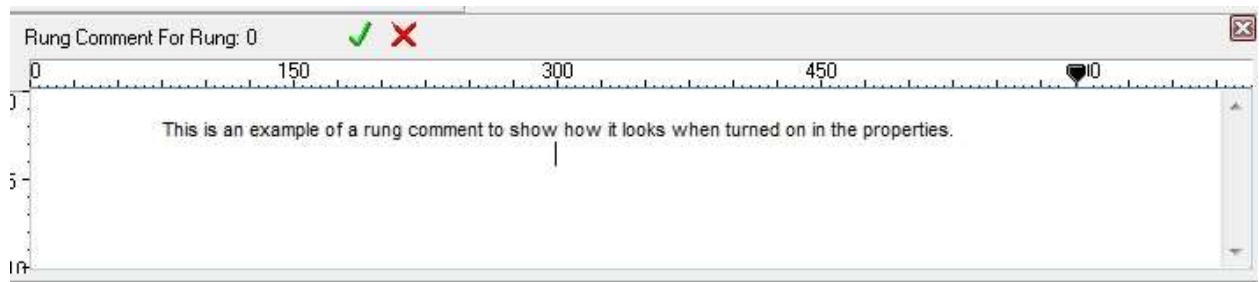


Figure 2-A

Modify the rung comment by adding today's date and time information – click the green check-mark to save the modifications.

Double click the tag comment of Input3 Pushbutton on Rung 0.

This will open the tag comment in an editing window.

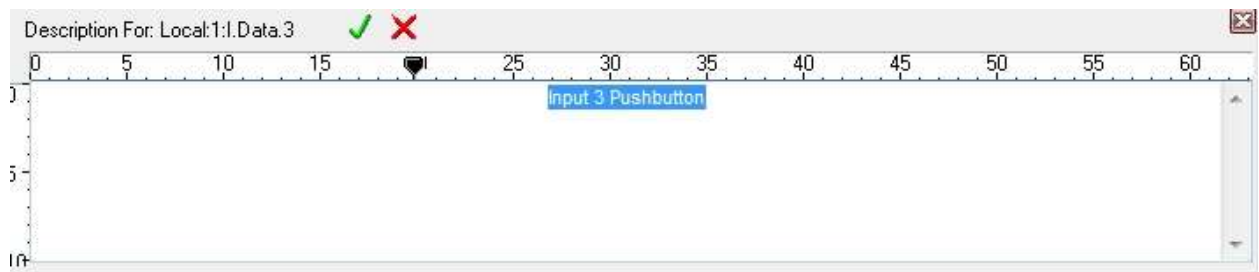


Figure 3-A

Modify the tag comment by changing it to PB3

Click the green check-mark to save the modifications.

Note: Everyplace in the Project File that referenced Input 3 Pushbutton

is now changed to PB3 MainRoutine – Rung 5 and SpeedControl routine Rung 0.

3. Add Documentation

Right mouse click on rung number 1 and choose Edit Rung Comment from the selection menu.

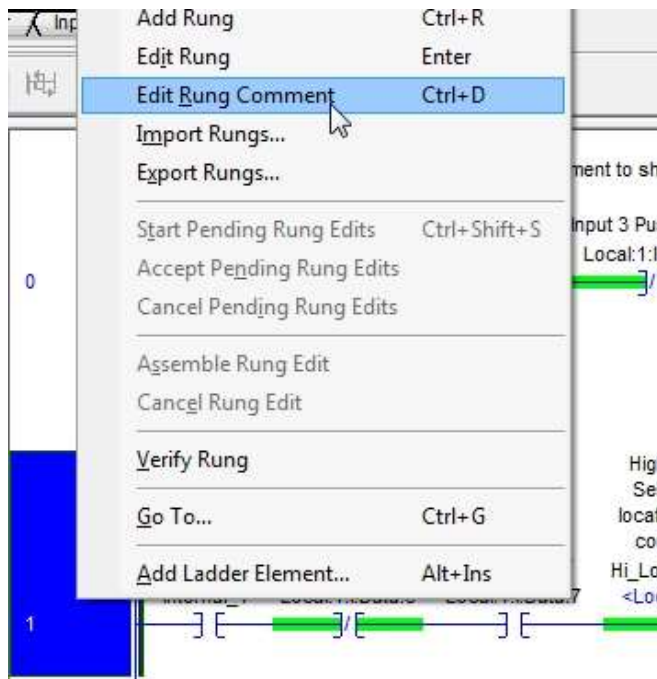


Figure 4-A

A blank rung edit screen will open.

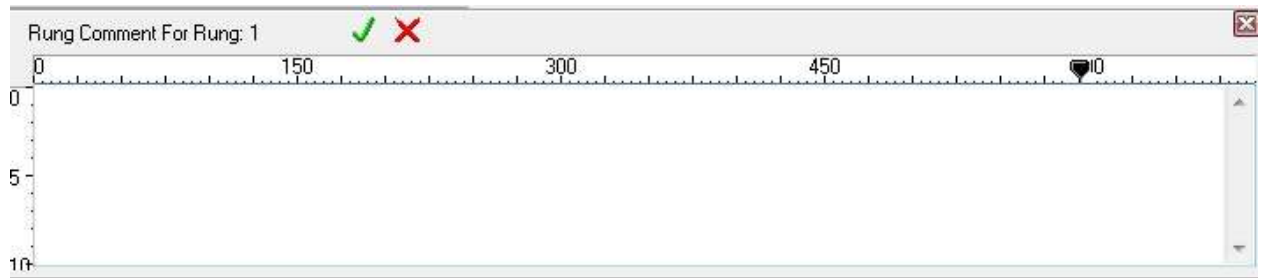


Figure 5-A

Add the comment – This is a new rung comment for Rung 1.

Click the green click mark – the added comment appears above Rung 1.

Right mouse click on the Internal_1 tag on Rung 0 and choose Edit

Main Operand Description from the selection menu.

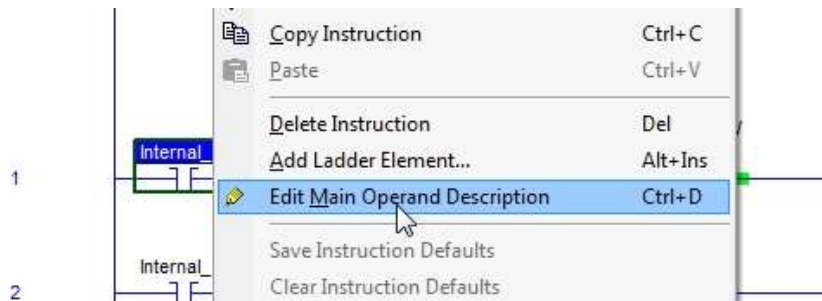


Figure 6-A

A blank rung edit screen will open.

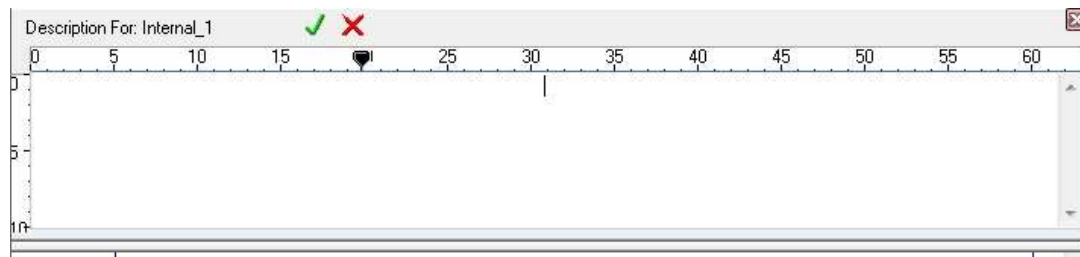


Figure 7-A

Add the comment – Bit Tag.

Click the green click mark – the added comment appears above all references to Internal_1 tag.

4. Modify Documentation settings

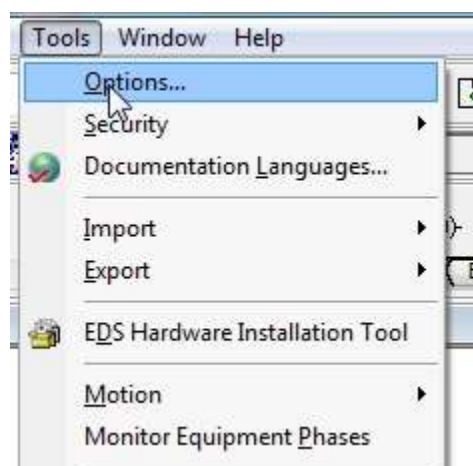


Figure 8-A

Click Tools on the Menu bar and choose Options.

Choose Ladder Editor ->Display from the Categories menu

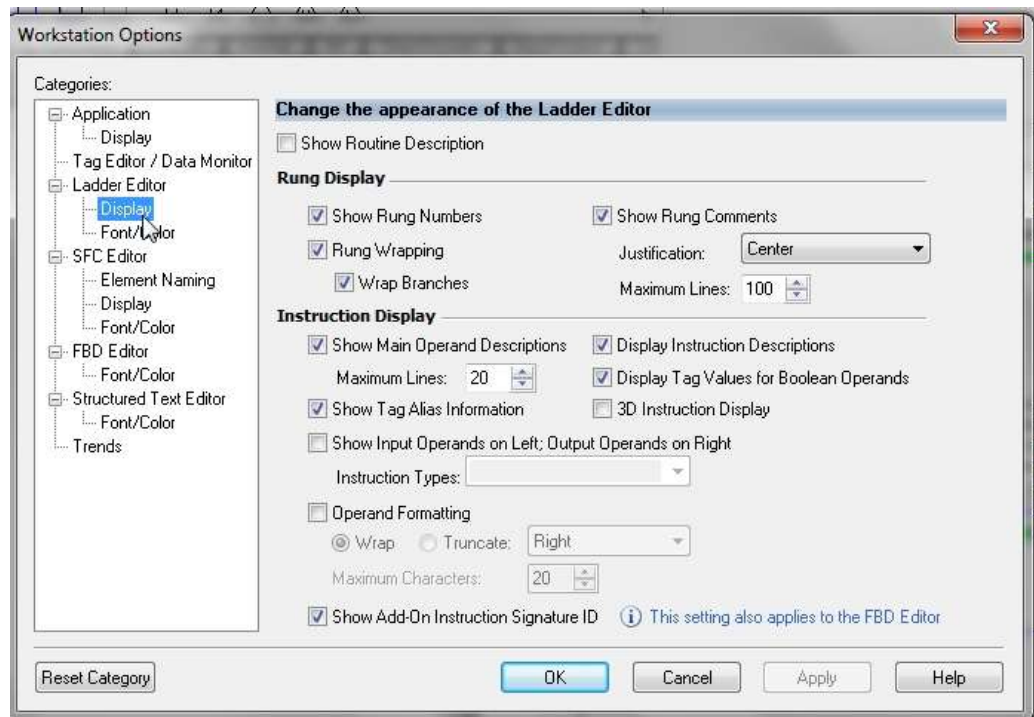


Figure 9-A

Uncheck – Show Rung Comments

Uncheck – Show Main Operand Descriptions

Uncheck – Show Tag Alias Information

Click the OK button

Monitor the MainRoutine

What has changed in the appearance of the MainRoutine window?

Turn ON – Rung Comments

Main Operand Descriptions

Tag Alias Information

Note: Justification and Maximum Lines setting also appear Display screen.

Choose Application ->Display from the Categories menu

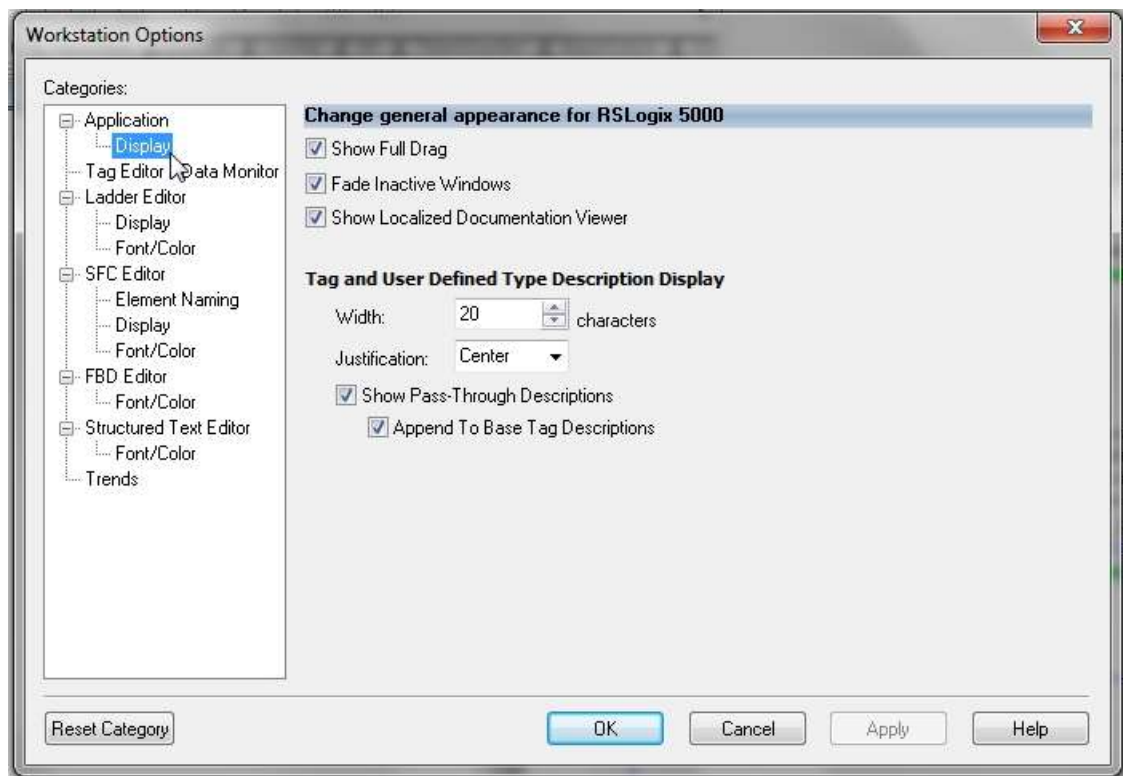


Figure 10-A

Tag Width and Justification setting appear on the screen.

Other locations that can show Description information are the Property windows.

To access the Property windows, right mouse click on the following selections and choose Properties – See pages 7 – 9.

Controller- General tab

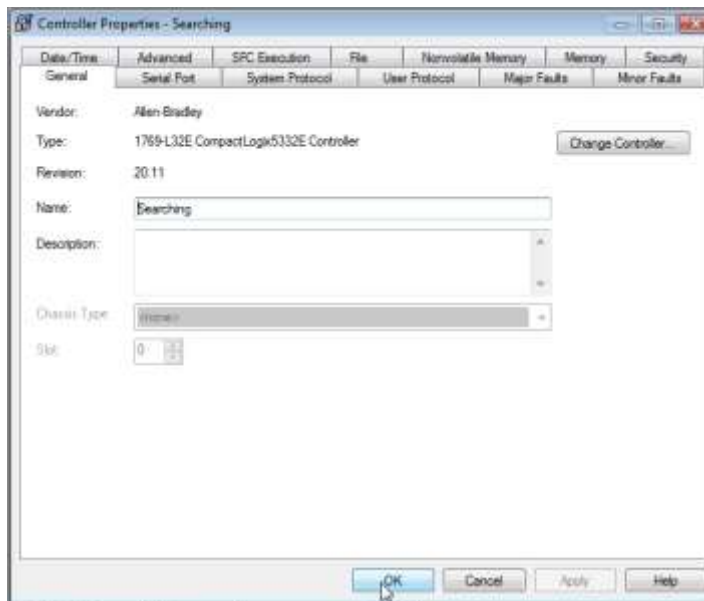


Figure 11-A

Tasks - General tab

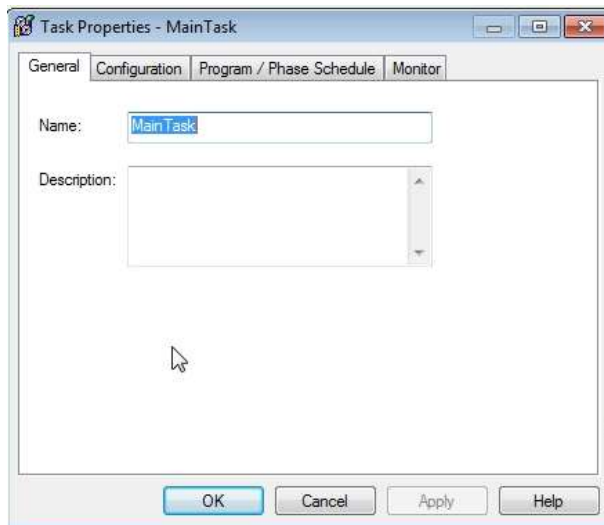


Figure 12-A

Programs – General tab

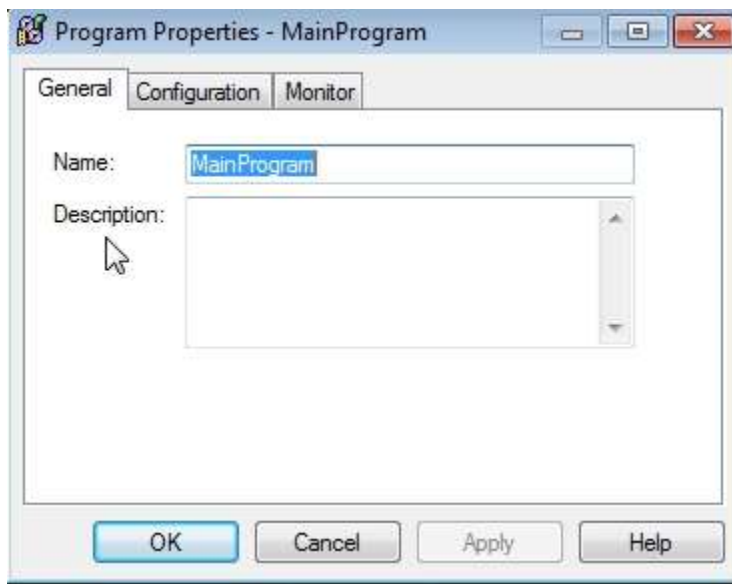


Figure 13-A

Routines – General tab

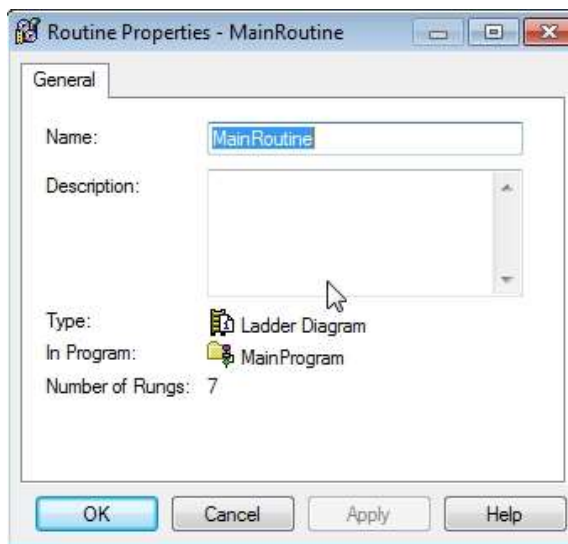


Figure 14-A

I/O Modules – General tab

General Connection Module Info

Type: 1769-IQ16 16 Point 24V DC Input, Sink/Source

Vendor: Allen-Bradley

Parent: Local

Name: input Slot: 1

Description:

Module Definition

Series: A Change ...

Revision: 1.1

Electronic Keying: Compatible Module

Connection: Input

Data Format: Integer

Status: Offline OK Cancel Apply Help

Figure 15-A

A second location the can modify tag description are on the tag screens -
Description column.

Scope: Searching		Show: All Tags		Y. <i>Enter Name Filter...</i>		
Name	Value	Force Mask	Style	Data Type	Description	Constant
Alarm_Timer	{...}	{...}		TIMER	Base Timer for Al...	
Counter_1	{...}	{...}		COUNTER		
Hi_Low_Speed_SSW	0		Decimal	BOOL	High/Low Speed ...	
Internal_1	2#0		Binary	BOOL		
Internal_2	2#0		Binary	BOOL		
Local1:I	{...}	{...}		AB:1769_DI16:I:0		
Local1:I.Fault	2#0000_0000_000...		Binary	DINT		
Local1:I.Data	2#0000_0000_000...		Binary	INT		
Local1:I.Data.0	0		Decimal	BOOL	Cycle Stop PB	
Local1:I.Data.1	0		Decimal	BOOL	Cycle Start PB	
Local1:I.Data.2	0		Decimal	BOOL		
Local1:I.Data.3	0		Decimal	BOOL	Input 3 Pushbutton	
Local1:I.Data.4	0		Decimal	BOOL		
Local1:I.Data.5	0		Decimal	BOOL	Selector SW5	
Local1:I.Data.6	0		Decimal	BOOL	Selector SW6	
Local1:I.Data.7	0		Decimal	BOOL	Selector SW7	
Local1:I.Data.8	0		Decimal	BOOL		
Local1:I.Data.9	0		Decimal	BOOL		

Figure 16-A

Description can be modified by double clicking on the description.

An editing window opens that allows modification to the description.



Figure 17-A

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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