LISTEN.
THINK.
SOLVE.SM

MicroLogix 1100
RSLogix 500 LAB#5

LCD Window

ALLEN-BRADLEY • ROCKWELL SOFTWARE

Rockwell Automation

What we are going to do:

- We are going to configure and program a string output on the LCD window based on the value of a bit element.

Steps for Today's Assignment

1. Create a new project
2. Create and Configure the STRING data file
3. Enter 3 rungs of ladder logic
4. Save your work
5. Transfer your program to the MicroLogix 1100
6. Monitor and test your program

Creating a new “PROJECT”

1.Create New Project

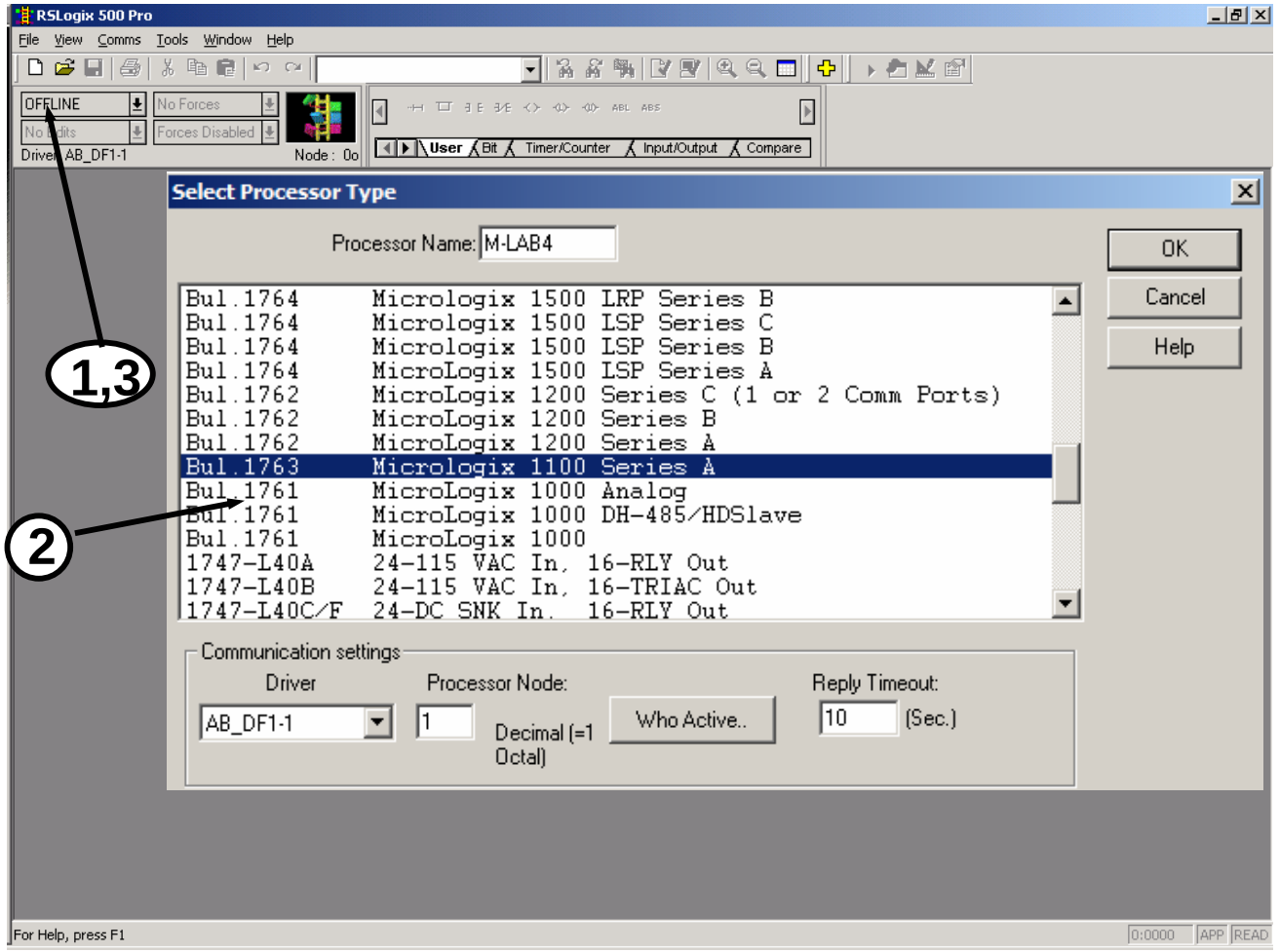
- **Select “File > NEW” To Create a File**

2.Select Controller

- **Enter Processor Name “M-LAB5”**
- **“Click” on “Bul.1763 MicroLogix 1100 Series B**
- **(Either double click, or select and then click OK)**

3.Save Program Files

- **Select “File > Save As”**
- **Type MicroEconomix LAB 5 in the “File name” box**
- **Click “Save”**
- **Click “Yes” when asked to change the processor name**
- **Click “Ok” for revision note box**



Configure the STRING Function File

4. Create a STRING FILE
   - Right click on Data Files and create a new file with the following parameters
     - File: 9
     - Type: String
     - Name: String
     - Elements: 3
   - Click OK

Configure the ST9 Data File

5.String Values

- Double click on the ST9 Data File.
- Fill in the values below for ST9:0, ST9:1 and ST9:2

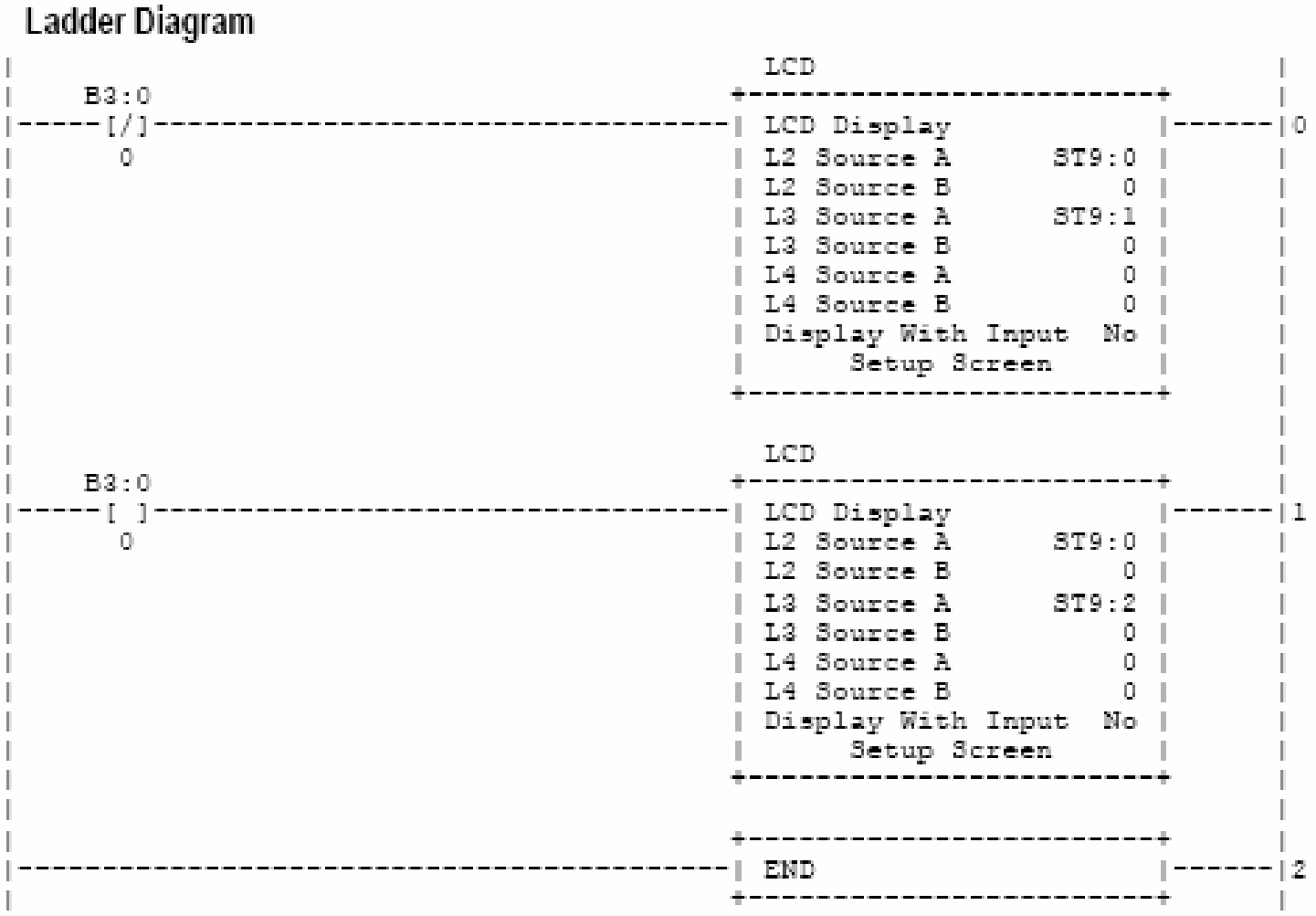
String Data File Values

Data File	Initial Value	Description
ST9:0	"B3:0/0 is"	Line 2 string definition
ST9:1	"De-energized"	Line 3 string definition 1
ST9:2	"Energized"	Line 3 string definition 2

Creating Ladder Logic

6. Create new rungs accor... labs.

Ladder Diagram



Transfer the Program to the Micro

7. Save your work
   - Click on the “Save” button
   - Click “OK” for revision note box
8. Download the Program
   - Select the menu item OFFLINE
   - Select “Download”
   - Click “YES” if/when asked to change processor from Run to Program Mode
   - Click “Yes” if/when asked to change processor back to RUN Mode
   - Click “Yes” when asked to go Online
9. Put the Micro into RUN
   - Click on the down arrow next to the word REMOTE PROG
   - Select “Run”

Test & Monitor the Program

10. With the controller in "Remote Run", you can monitor or edit data within the controller. This allows:

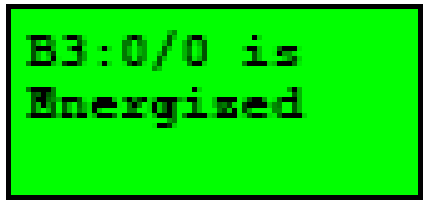
- Program debugging
- Change data variables while in run

Test & Monitor the Program

11. Hit ESC on the LCD
12. Use the arrow key to select “User Displ”
13. Hit OK on LCD
14. Toggle B3:0/0
15. Note the LCD Message change.

LCD Messages

If B3:0/0 is ON:



If B3:0/0 is OFF: