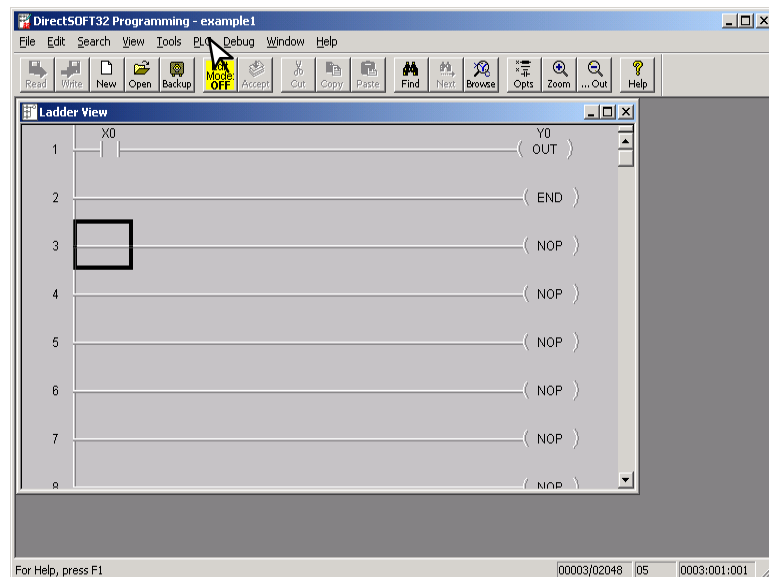


## Download the Program

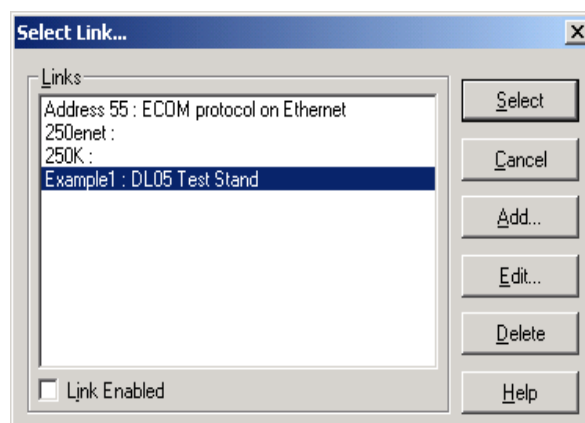
### Download the Program to the PLC

Now that your PC and PLC are properly linked, the program can now be downloaded, or written, to the PLC. Return to the example program (Example1) which was previously edited. If the program is no longer open, displaying on your computer screen, it can be opened by pointing the mouse arrow to the name of the program, Example1, and double-clicking on it.

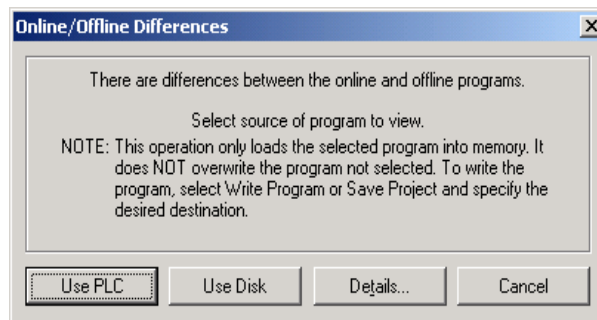
Now, referring to the example below, click on **PLC** on the menu toolbar. A drop down window will appear. Find and click on **Connect**.



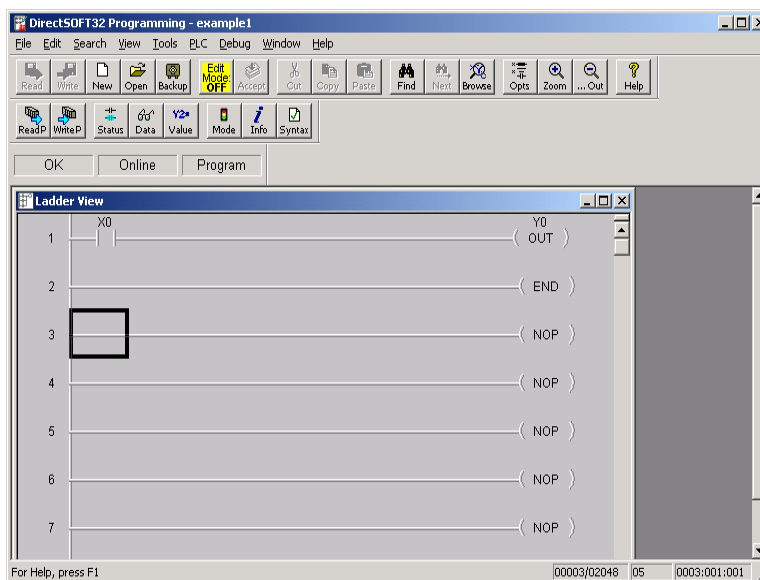
The **Select Link** window will appear, like the example below. Select the link which we made earlier, then click on **Select**.



**DirectSOFT32** automatically compares the program stored on disk with the program stored in the PLC. The following dialog box will appear. There are four buttons on the bottom of the window. Since we are dealing with a new program, select the **Use Disk** button. The **Use PLC** button is used whenever you have edited a change to a program and you are going online to load the changed program. The other two buttons are self-explained.

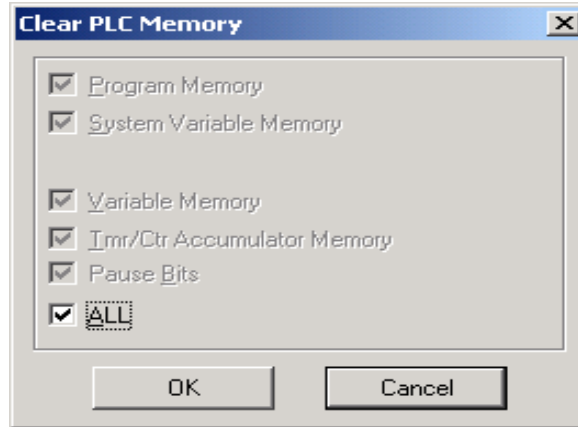


After clicking on the **Use Disk** button, the programming window will look a bit different, it has acquired another toolbar. This toolbar can be referred to as the online toolbar. Also, there are indicators under the online toolbar indicating that the PLC is okay, the PC is online with the PLC and the PC is in Program Mode. **At this point the program has not been written to the PLC.**

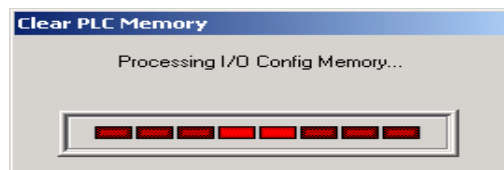


Whether you are writing to a new PLC or to a PLC that is being re-programmed, it is good practice to clear the PLC memory before writing the new program to it. To do this, click on **PLC** on the menu toolbar, then click on **Clear PLC Memory** in the drop-down menu.

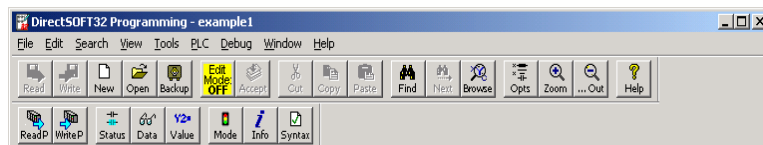
The **Clear PLC Memory** dialog window will appear. There are several options listed in the window that will show unchecked boxes for each option. For our download example, click the **ALL** box to place a check (✓) in it. All of the options will “gray out” and the boxes will have check marks in them. Click **OK** to begin the clear memory process.



The following indicator will appear showing the beginning and end of the memory clearing process. When the window vanishes, the clear memory process will be complete. Notice that the program in the Ladder View is no longer there. Since your program is already saved to disk, you will need to read your program from disk to restore it to view. The program can now be written to the PLC.



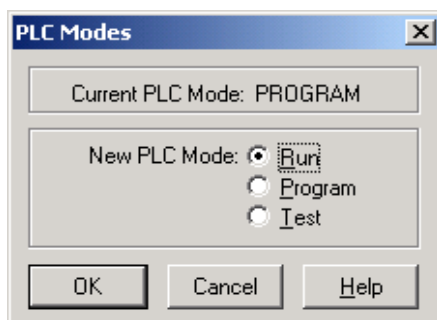
Notice the two left-most buttons on the online toolbar. These buttons are symbols of a PLC. They are highlighted to indicate that the PLC is ready to have a program written to it or to have a program read from it. We will write the program to the PLC. Click the mouse on the **WriteP** button. An indicator similar to the one above will appear. The red bar will flash to indicate the program is in the download process. It will be in view for the amount of time corresponding to the length of the program.



Click on this button to write the program to the PLC.

Click on this button to change the PLC Mode.

The program has now been written to the PLC. All that needs to be done now is to put the PLC in the RUN mode. Click on the **Mode** button on the online toolbar. This will bring the **PLC Modes** dialog window into view. Click on **Run** then **OK** and the PLC will be in the **RUN Mode**.



Now that the example program is in the **RUN Mode**, you will want to monitor the program online while the PLC is running.

