Concept: Controls and Indicators

Goal

Create a front panel with controls and indicators using a variety of different styles and types of controls and indicators, and modify their properties, appearance, and layout.

Description

In this exercise, you begin with a blank front panel and create two controls and an indicator, then adjust their properties. This task gives you experience using controls and indicators.

Implementation

The files that you need to complete this exercise are here:
<NI eLearning>\LV Core 1\Documenting Code\Exercise.

1.23	1.	Open a new VI.
		☐ Open LabVIEW.
		☐ Select File»New VI.
	2.	Add two Numeric Controls onto the front panel.
		☐ Select View»Controls Palette.
		☐ Select the Numeric category.
		☐ Select and drag the Numeric Control onto the front panel.
		☐ Repeat for a second Numeric Control .
	3.	Rename the first numeric control Control 1.
		☐ Double-click the label above the control.
		☐ Enter the text Control 1.
	4.	Rename the second numeric control Control 2 in the same way
	5.	Add a Numeric Indicator onto the front panel.
1.23		☐ Select and drag the Numeric Indicator onto the front panel.



- 6. Rename the Numeric Indicator Indicator.
 - ☐ Double-click the label above the indicator.
 - ☐ Enter the text Indicator.

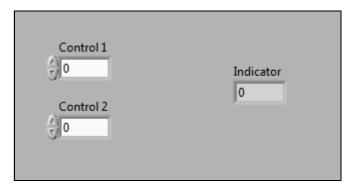


Figure 1. Numeric Controls and Indicators Front Panel

- 7. Change the range of the numeric controls.
 - ☐ Right-click the first numeric control and select **Properties**.
 - ☐ Click Data Entry.
 - ☐ Uncheck Use Default Limits.
 - ☐ Change the Minimum value to 0.
 - ☐ Change the Maximum value to 100.
 - ☐ Change the increment to 1.
 - ☐ Repeat this process for the second numeric control.

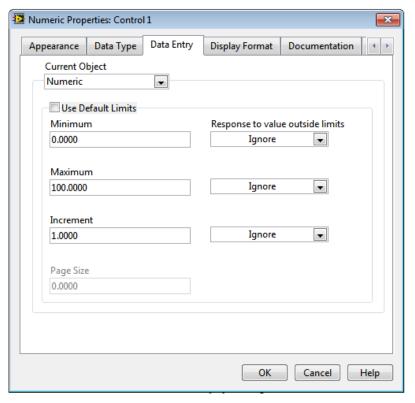


Figure 2. Properties Page of a Numeric Control

- 8. Save the VI.
 - ☐ Select File»Save.
 - ☐ Save the VI as Numeric Controls and Indicators.vi in the <Exercise> directory.
- 9. Close the VI.
- 10. Open a new VI.
 - ☐ Select File»New VI.
- 11. Add a Vertical Toggle Switch control to the front panel.
 - ☐ Select the **Boolean** category.
 - □ Select and drag the **Vertical Toggle Switch** onto the front panel.
- 12. Add a Boolean indicator onto the front panel.
- ☐ Select and drag the **Round LED** indicator onto the front panel.



	13. Rename the Boolean control Control.
	☐ Double-click the label above the control.
	☐ Enter the text Control.
	14. Rename the Boolean indicator Indicator.
	☐ Double-click the label above the indicator.
	☐ Enter the text Indicator.
	15. Add a String Control onto the front panel.
	☐ Collapse the Boolean category by selecting Programming on the Controls palette.
	☐ Select the String & Path category.
abc	☐ Select and drag the String Control to the front panel.
	16. Add a String Indicator onto the front panel
abc	☐ Select and drag the String Indicator to the front panel.
	17. Rename the string control Control.
	☐ Double-click the label above the control.
	☐ Enter the text Control.
	18. Rename the string indicator Indicator.
	☐ Double-click the label above the indicator.
	☐ Enter the text Indicator.

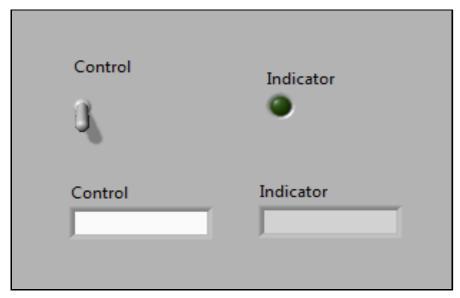


Figure 3. Controls and Indicators Front Panel

- 19. In the string control, type a phrase, then change the display type of the string control to backslash codes.
 - ☐ Click inside the text field of the string control.
 - ☐ Type Hello World.
 - ☐ Right-click the string control and select '\' Codes Display.
 - ☐ Observe how the text is displayed now.
- 20. Save the VI as Controls and Indicators.vi.
 - ☐ Select **File**»**Save**.
 - \square Save the VI as Controls and Indicators.vi in the <Exercise> directory.
- 21. Compare your VI to the provided solution VI.
- 22. Close the VI when you are finished.

End of Exercise

Control

Control

Hello World

Hello\sWorld

Notes