Modularity (SubVIs)

MEMS 1049 Mechatronics

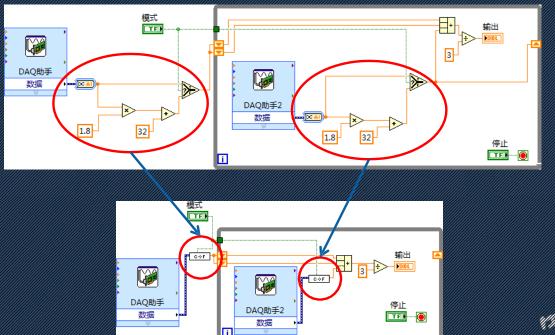
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Outline

- What is SubVI?
- Create a LabVIEW SubVI
- SubVI Icon and Connector Pane
- Place subVI

SubVI

Code Reuse

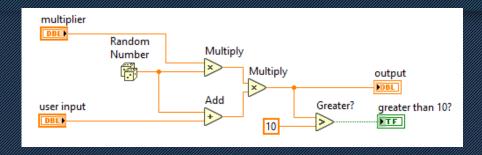


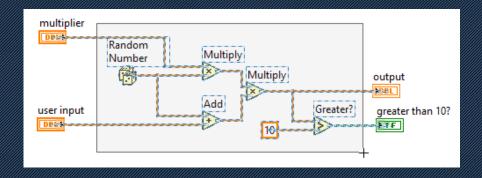
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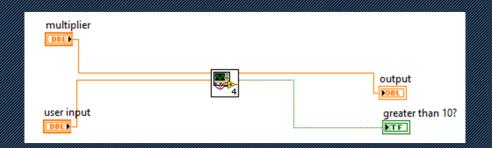
SubVI

Function Code	Function Calling Code
<pre>function average (in1, in2, out) { out = (in1 + in2)/2.0; }</pre>	main { average (point1, point2, pointavg) }
🔽 Sub VI Block Diagram	Sub VI Calling Block Diagram
揃入1 DBL 輸入2 DBL	点1 P均值 N E2 DBL

Create a LabVIEW SubVI

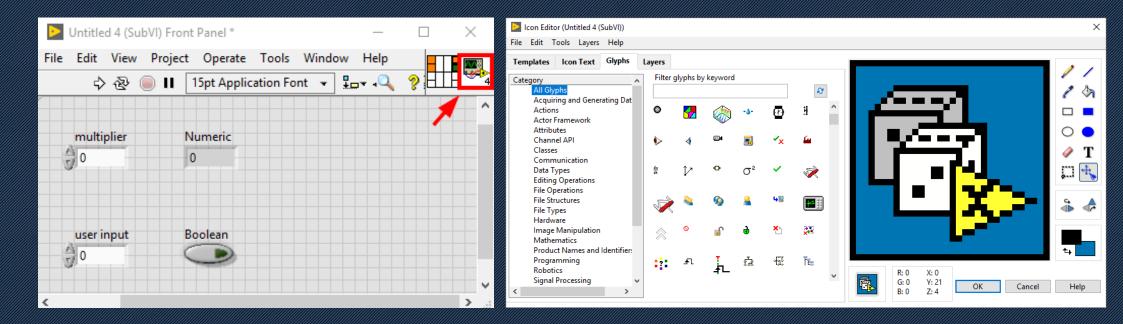




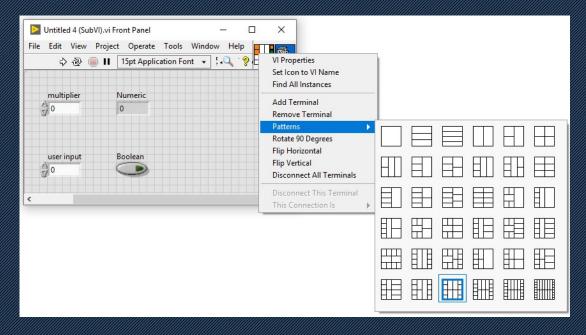


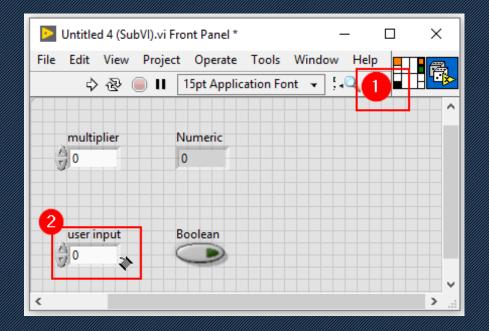
From the Edit menu, select Create SubVI to create a subVI from your selection

SubVI Icon



Build the Connector Pane

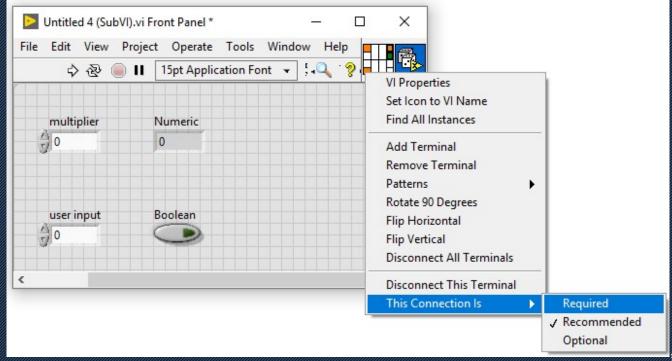




If you need to unassign a terminal, right-click the terminal and select Disconnect this Terminal

Build the Connector Pane

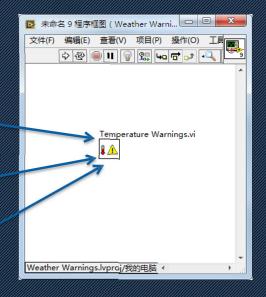
Set the Required, Recommended, and Optional Inputs and Outputs



Place subVI on the Block Diagram







Studio

Create a SubVI for temperature conversion, where the input should temperature in Celsius and the output can be Fahrenheit. Use proper SubVI icon

