While Loops in LabVIEW

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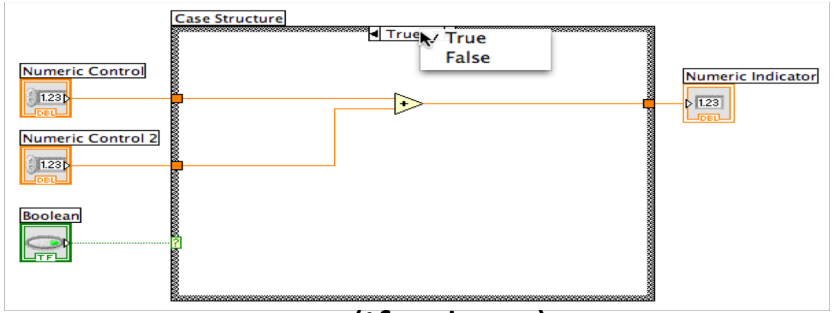
Loops & Structures in LabVIEW

While Loop:

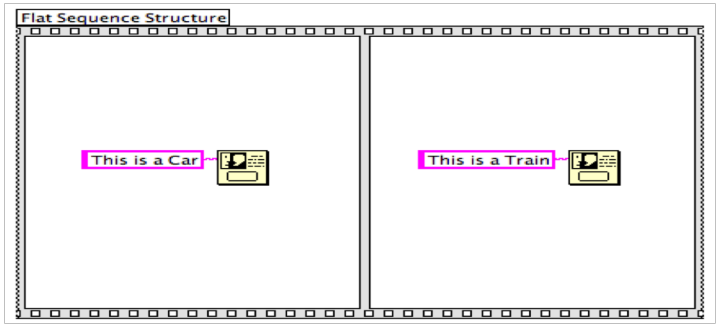
For Loop:

Case Structure:



(if...else...)

Sequence Structure:



For and While Loops in general

```
for i = 1 : 10

    ...do something

end
```

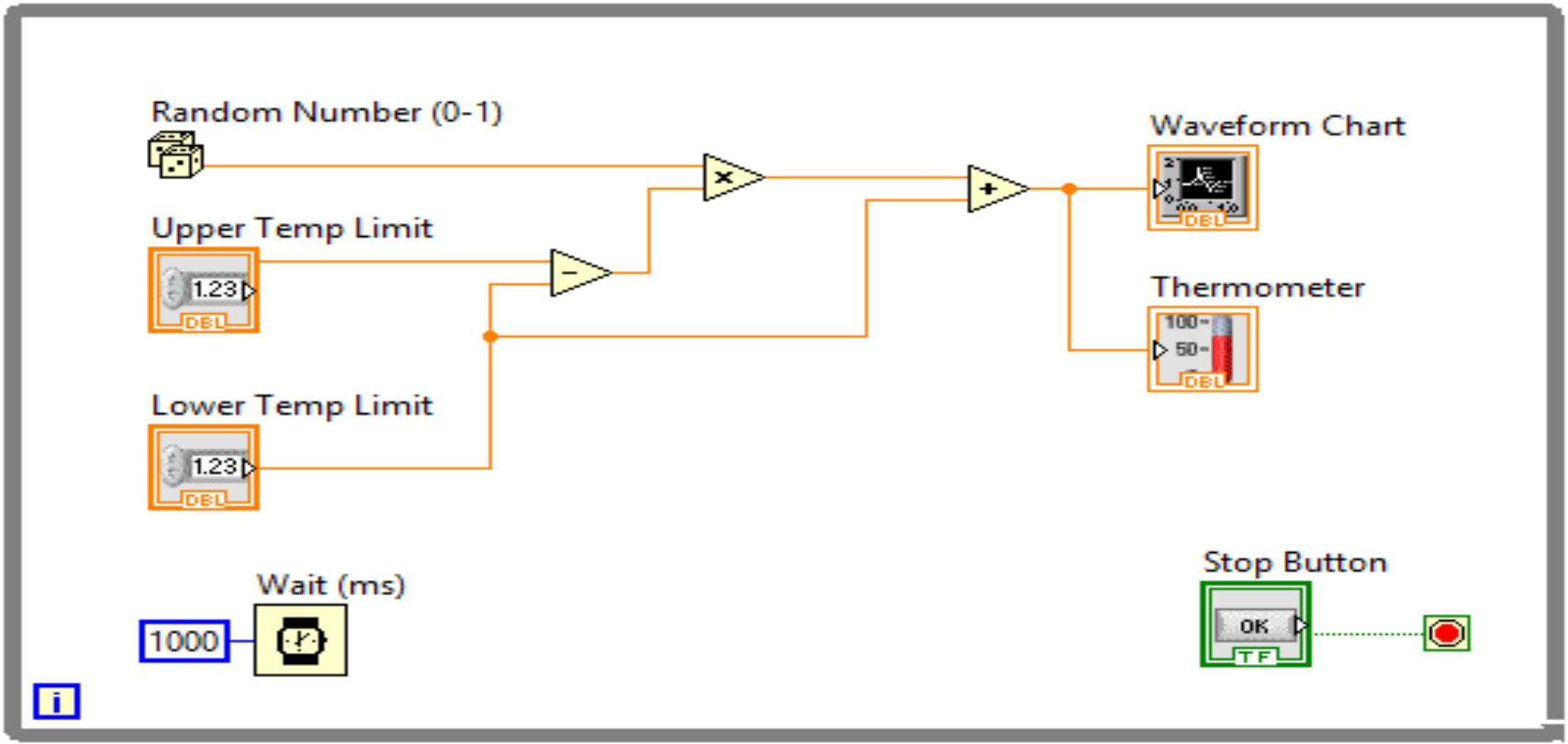
```
while (x > 5)

    ... do something

end
```

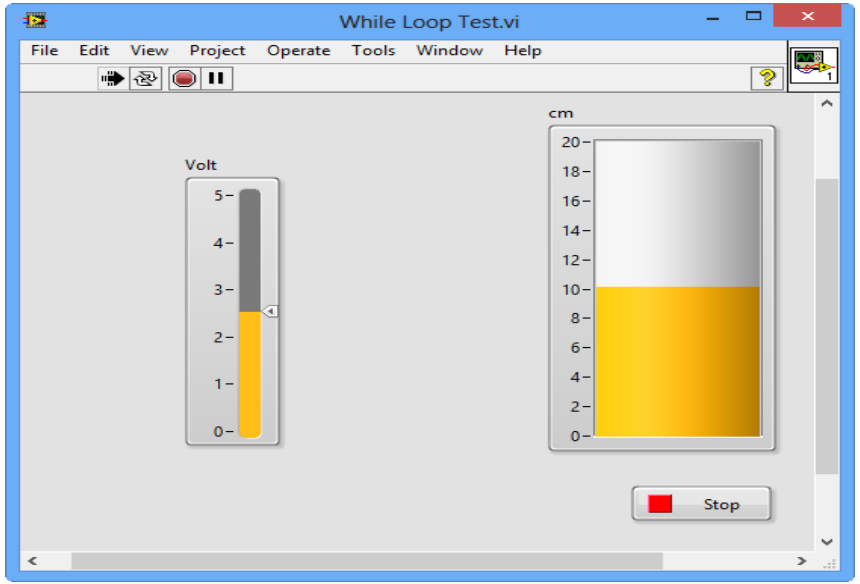
→ LabVIEW does it in a “graphical way”

While Loops


Random Number (0-1)
Upper Temp Limit
1.23
DBL
Lower Temp Limit
1.23
DBL
Wait (ms)
1000
Waveform Chart
DBL
Thermometer
100
50
DBL
Stop Button
OK
TF

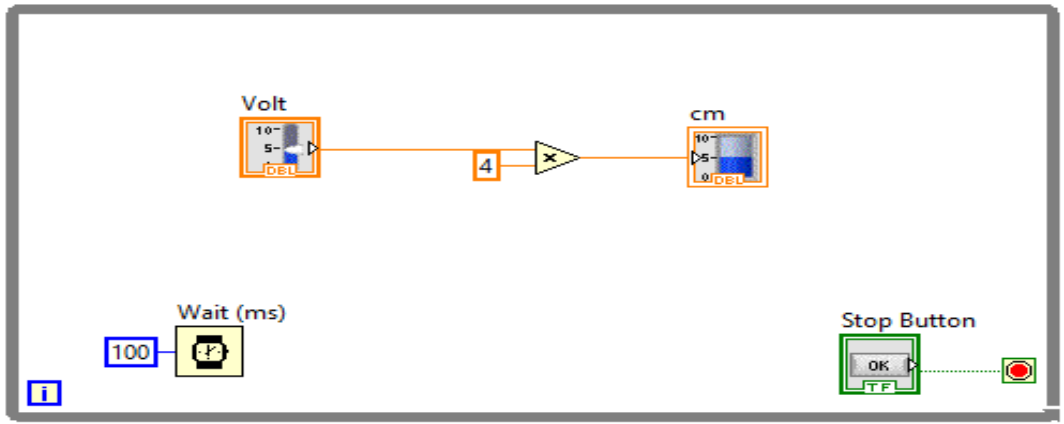
While Loop Example

Example: A voltage signal $[0 - 5V]$ from a DAQ device needs to be converted to the equivalent level values in a water tank $[0 - 20cm]$



Front Panel

Block Diagram



DEMO

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