

# Concept: Exploring a VI

## Goal

Identify the parts of an existing VI.

## Description

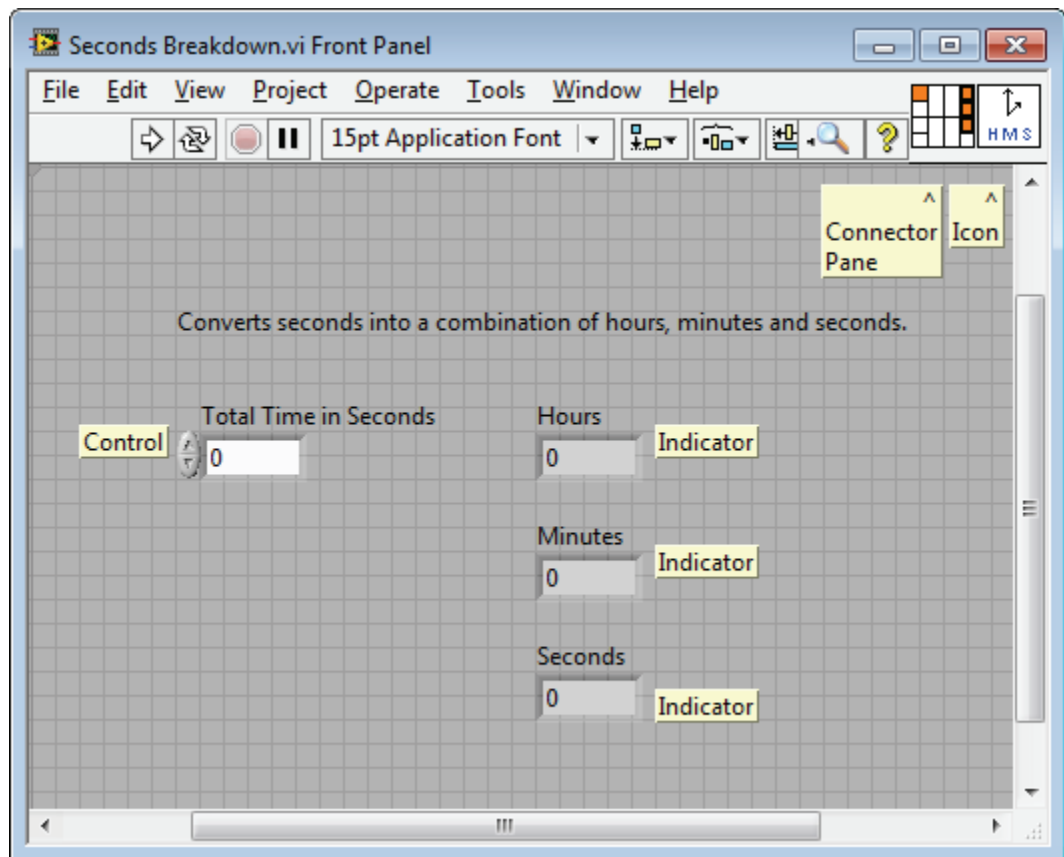
You received a VI from an employee that takes the seconds until a plane arrives at an airport and converts the time into a combination of hours/minutes/seconds. You must evaluate this VI to see if it works as expected and can display the remaining time until the plane arrives.

## Implementation

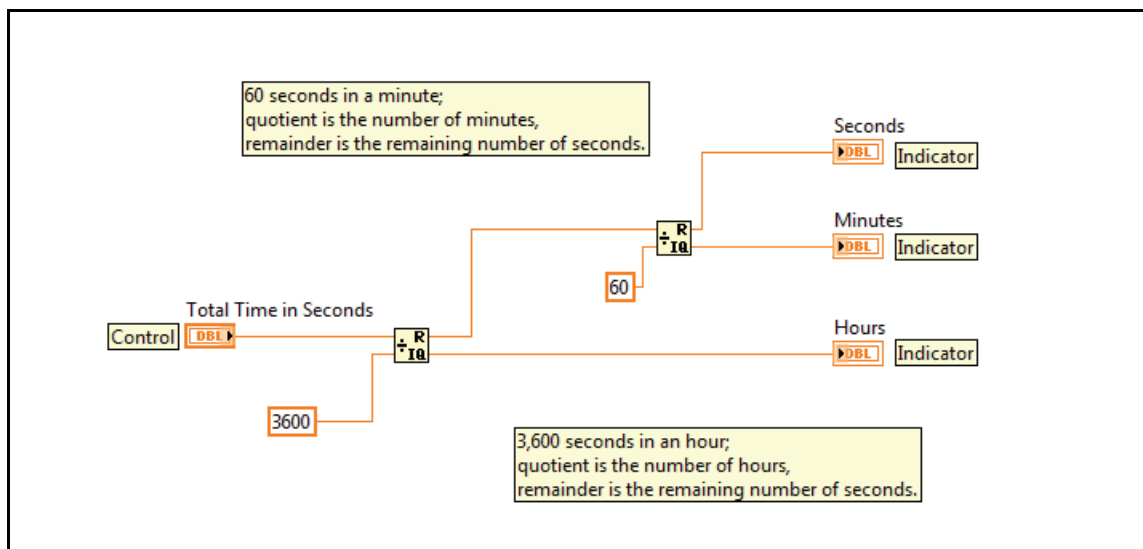
The files that you need to complete this exercise are here: <NI eLearning>\LV Core 1\VI\_Parts of a LV Program\Exercise.

1. Open `Seconds Breakdown.vi` from the provided VIs.
  - ☐ Open LabVIEW.
  - ☐ Select **File»Open**.
  - ☐ Select `Seconds Breakdown.vi` from the <Exercise> directory and click **OK**.
2. On the front panel, identify the following items:
  - ☐ Control
  - ☐ Indicator
  - ☐ Icon
  - ☐ Connector Pane
3. To view the front panel and block diagram at the same time, select **Window»Tile Up and Down** or **Window»Tile Left and Right**.
4. On the block diagram, identify the following items:
  - ☐ Control
  - ☐ Indicator

To verify that you identified all items correctly see Figures 1 and 2.



**Figure 1.** Front Panel Items



**Figure 2.** Block Diagram Items

5. Test the VI using the values given in Table 1.

☐ Enter the input value in the **Total Time in Seconds** control.



☐ Click the **Run** button.

☐ For each input, compare the given outputs to the outputs listed in Table 1. If the VI works correctly, they should match.

**Table 1.** Testing Values for Seconds Breakdown.vi

Input	Output
0 seconds	0 hours, 0 minutes, 0 seconds
60 seconds	0 hours, 1 minute, 0 seconds
3600 seconds	1 hour, 0 minutes, 0 seconds
3665 seconds	1 hour, 1 minute, 5 seconds

**End of Exercise**

## Notes

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