**Practice 1 - For Each and If Statement**

**Problem Statement: Find the smallest and biggest numbers in an array**

1. Initialize an Array of Int32 with {7, 5, 2, 4, 3, 9}, or with your own integer values.
2. Use For Each, Assign and If Statements to find the minimum and maximum numbers in the array. Print the results to the Output panel.

**Output:**Two entries in the Output panel, one containing the largest value and one containing the lowest value in the initial array.

Continued

**Resources**

We hope you’ve enjoyed this exercise and that you’ve found it useful! If you need more support with it before checking the solution steps, see if these resources help you solve it:

1. [The For Each Activity](https://docs.uipath.com/studio/v2021.10/docs/the-for-each-activity)
2. [The If Activity](https://docs.uipath.com/studio/v2021.10/docs/the-if-activity)
3. [Managing Variables](https://docs.uipath.com/studio/v2021.10/docs/managing-variables)
4. [Array Variables](https://docs.uipath.com/studio/v2021.10/docs/array-variables)

Continued

**Solution:**

**To solve this exercise, use the following steps:**

1. Start the project as a sequence and define a variable of type Array of Int32. You can name it "InitArray".
2. Define two Int32 variables: "MinValue" and "MaxValue".
3. Use an **Assign**activity to assign Int32 values to the Array variable, let’s say {7, 5, 2, 4, 3, 9}.
4. Use two **Assign** activities to assign the first element in the array to both "MinValue" and "MaxValue".
5. Drag a **For Each** activity to go through each item in the Array.
   1. Set the Type Argument of the 'For Each' in the Properties panel to Int32.
   2. In the For Each UI, rename Item to Element.
   3. Inside the body of the For Each activity, drag two **If activities**:

* Set the condition for the **first** **If** to “**Element < MinValue**” to compare the values in the string and identify the smallest. Inside the Then block, add an Assign activity to assign **Element to MinValue**.
* Set the condition for the **second If** to “**Element > MaxValue**” to compare the values in the string and identify the greatest. Inside the Then block add an Assign activity to assign **Element to MaxValue**.

6. After the For Each activity, add two **Log Message** activities which display the values stored in MinValue and MaxValue converted to string.