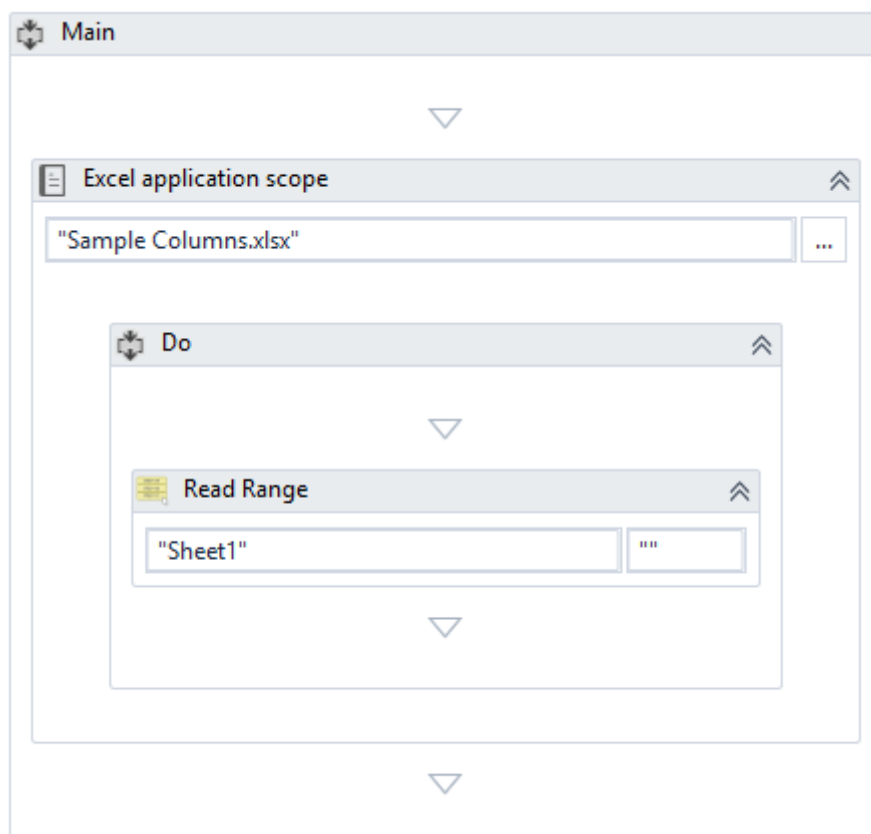


Practical Exercise - Walkthrough

Part A:

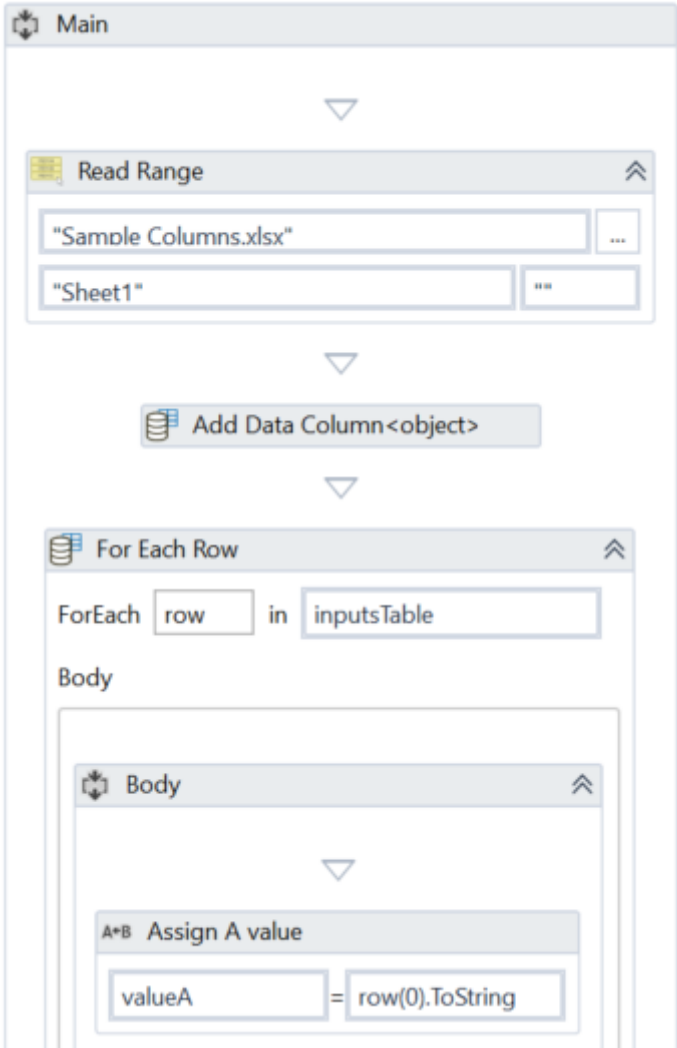
Practically all of the activities to be done should be contained inside an **Excel Application Scope**. The first step after creating one of those is to read the Excel file.

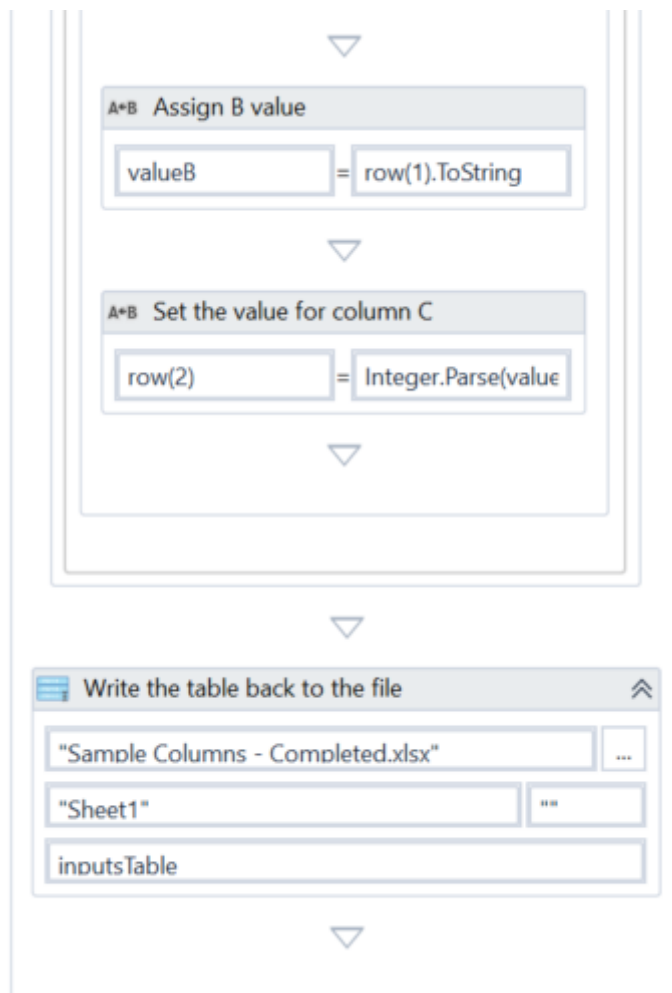
- Find and add an **Excel Application Scope** to the main area
- o Type in the full workbook path to **Sample Columns.xlsx** into the Workbook Path parameter
- o Make sure the 'Visible' option is checked, so the activities will be performed just like a human
- Find and add a **Read Range** activity into the **Do** container of the **Excel Application Scope**.
- o Set the Range to "" so the entire sheet is read
- o In the output parameter, use the shortcut Ctrl+K to create a DataTable called **inputsTable**
- This is what the workflow should look like so far:



Next, use a **For Each Row** activity and sum the first two columns.

- Find and add a **For Each Row** activity and add it below the **Read Range** activity
- o Set it to loop through the DataTable created earlier, **inputsTable**
 - Create an Int32 variable called **rowIndex** - this will keep track of what row to write on later
 - Find and add an **Assign** activity inside the body of the **For Each Row** activity
 - o Assign **inputsTable.Rows.IndexOf(row) + 1** to **rowIndex**
 - This sets the value of **rowIndex** to the match the current row in the loop
 - The + 1 is because Excel Rows start counting at 1, whereas DataTables start at an index of 0 - this difference needs to be compensated for
 - Below that activity, find and add two **Get Row Item** activities
 - o For the first one, set the column index to 0 and the row to **row** (the temporary loop variable)
 - o In the output parameter, use the Ctrl+K shortcut to create a variable called **valueA**
 - o For the second one, set the column index to 1 and the row to **row**
 - o In the output parameter, use the Ctrl+K shortcut to create a variable called **valueB**
 - Find and add an **Assign** activity below
 - o Assign **valueA + valueB** to **valueC** (Use the variable creation shortcut here as well)
 - Find and add a **Write Value** activity next
 - o Keep the sheet as Sheet1
 - o Set the range (the location in the sheet to write to) to **"C" + rowIndex.ToString**
 - Throughout the loop, this will evaluate to "C1" then "C2," and so on down the third column
 - o Set the value to **valueC**
 - This is what the final workflow should look like:

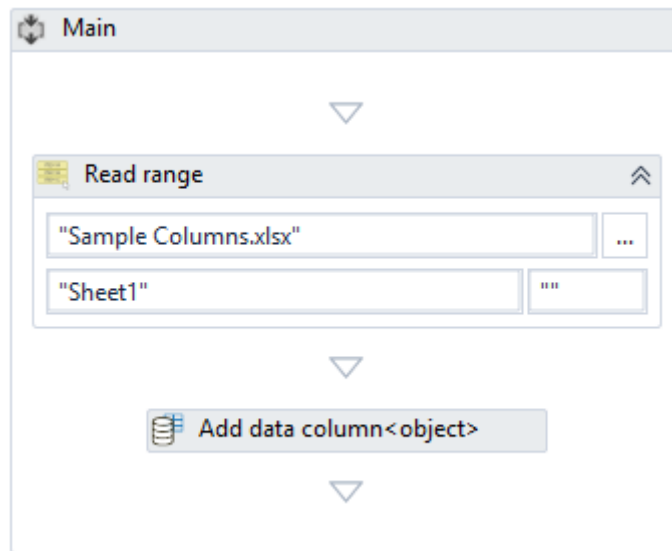




Part B:

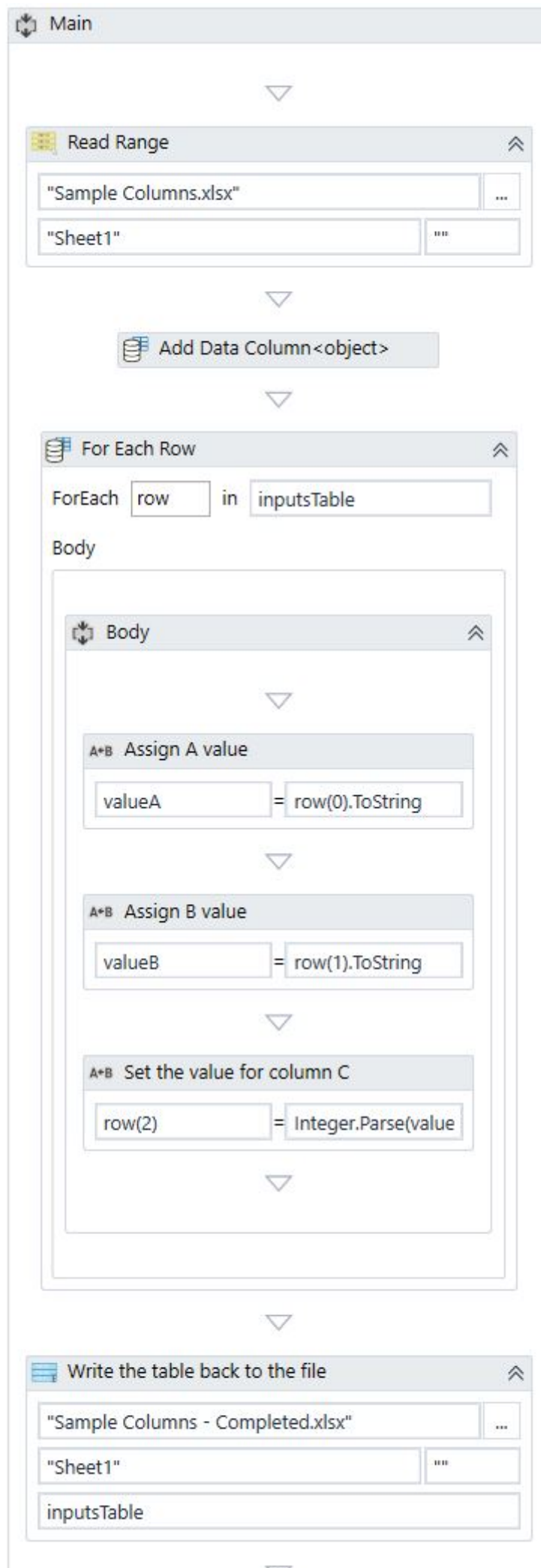
In this part, the file will be read without an **Excel Application Scope** because the automation will be done internally.

- Find and add a **Read Range** activity into the main sequence.
- o Set the WorkBook path to the full path of the **Sample Columns.xlsx** workbook
- o Set the Range to "" so the entire sheet is read
- o In the output parameter, use the shortcut Ctrl+K to create a DataTable called **inputsTable**
- Find and add an **Add Data Column** activity below
- o Set the ColumnName to "C"
- o Set the DataTable parameter to **inputsTable**
- o Set the argument type to object



- Find and add a **For Each Row** activity below that
 - o Set the activity to loop through **inputsTable**
- Find and add two **Assign** activities (necessary variables should be created with the shortcut):
 - o The first one assigns **row(0).ToString** to **valueA**
 - o The second one assigns **row(1).ToString** to **valueB**
- These convert the row object values to more usable string values
 - Find and add another **Assign** activity that assigns to **row(2)** this value:
 - o **Integer.Parse(valueA) + Integer.Parse(valueB)**
 - o This statement converts the string values to integer values using a Visual Basic method and then adds them together
- Lastly, find and add a **Write Range** activity below and outside the **For Each** activity - this will be writing the manipulated DataTable to a new sheet.
 - o Set the DataTable to **inputsTable**
 - o The sheet name should remain as Sheet1
 - o The starting cell should be left blank, as ""
 - o Set the workbook path to a desired path that ends with the file name **Sample Columns - Completed.xlsx**
 - UiPath will create a new file if this one doesn't already exist

- This is what the rest of the completed workflow should look like:



Part C:

This part is mostly a matter of using an Excel command for the rows that need adding. It should be completely contained in an Excel Application Scope.

- Find and add an **Excel Application Scope** activity and add it to the main sequence

- o As usual, set the path of **Sample Columns.xlsx**

- o Set the visibility option on by checking the box

- Find and add a **Read Range** activity

- o The sheet should remain as Sheet1

- o Set the output to a newly created DataTable called **inputsTable**

Count how many rows there are so the formulas can be applied to the proper section of the sheet.

- Find and add an **Assign** activity below the **Read Range** activity

- o Assign **inputsTable.Rows.Count** to a newly created generic variable called **rowCount**

- Find and add a **Write Value** activity, it should be set to:

- o Write on Sheet1

- o Write in the range from "C1:C" + rowCount

- This sets the range of rows in Column C to write the formula in

- o Write the value "=SUM(A1,B1)"

- In Excel, this value will automatically iterate through the descending rows

- This is what the final workflow should look like:

