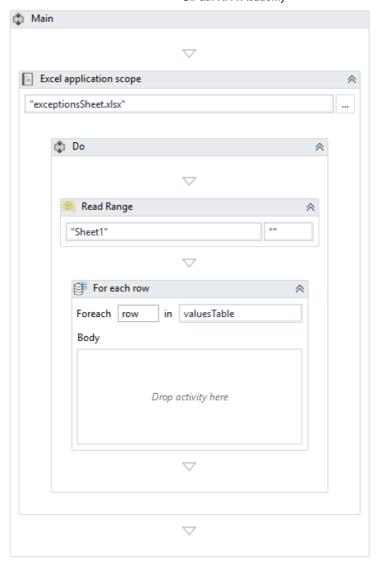
Practical Exercise - Walkthrough

Since we are going to be working with Excel, the first step will be adding an **Excel Application Scope** and reading data from the sheet.

- Find and add an Excel Application Scope activity to the Main panel.
 - Insert the path of the downloaded .xlsx file in the WorkbookPath property field.
- Find and add a **Read Range** activity inside the **Do** container of the **Excel Application Scope**.
 - Insert a new DataTable variable, called valuesTable, in the DataTable property field.
 - Make sure that the **AddHeaders** check box is selected.

Since the data is organized in a spreadsheet, a loop will be needed to iterate through each row.

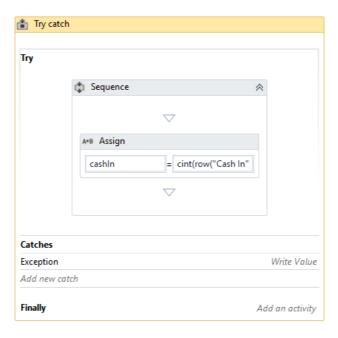
- Find and add a For Each Row activity below the Read Range activity.
 - Set the **DataTable** to be looped through as *valuesTable*. This is how the workflow should look so far:



We're going to use two Try Catch activities to check Cash In and Cash Out, and assign a variable result which holds the value we will write on that row.

- Create two Int32 variables called cashIn and cashOut.
- Create a GenericValue variable called result. Since it's a GenericValue type, it can hold
 either the result of subtracting two integers, or it can hold a string alerting us that one of
 the values was incorrect.
- Find and add a Try Catch activity in the Body section of the For each row activity.
 - This will catch exceptions if the Cash In is not a valid number.
- Find and add an Assign activity into the Try portion of the Try Catch.
 - It should assign cint(row("Cash In")) to cashIn.
 - This converts the cell value in the Cash In column of the current row to an integer and assigns it to *cashIn*.

- If there is an exception (if the value is not a number), it will be caught in the Catch section.
- Click on Add new catch at the bottom of the activity.
 - Select **System.Exception** in the drop-down (search for it if it is not there).
 - Add an Assign activity into the exception area
 - Set the To to result.
 - Set the Value to "Cash In wrong".



- Click back on the Try section: find and add another Try Catch below the Assign activity.
 - This one will try the cash out values and catch them differently.
- Add an Assign activity inside the Try section.
 - It should assign cint(row("Cash Out")) to cashOut.
- Find and add another Assign activity
 - If the robot hasn't thrown an error by this point, both Cash In and Cash Out are valid numbers.
 - Set the **To** to result.
 - Set the Value as "cashIn cashOut", the difference between the two numbers.

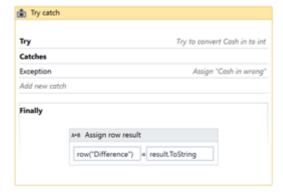
- For the Catch section of this Try Catch, add another System. Exception.
 - Add an Assign in the Exception field.
 - Set the **To** to result.
 - Set the Value as "Cash out wrong".

In the **Finally** block of a **Try-Catch** activity are the steps that the robot will take regardless of whether the **Try** block or the **Catch** one was executed. This workflow is where the robot updates the DataTable with the result, which was calculated by the **Try-Catch** activities.

Click on the Finally section of the outer Try Catch activity.



- Drag an Assign into the Finally block
 - Set the **To** field to row("Difference").
 - Set the Value to result. To String.



For the finishing touch, write the processed DataTable back to the Excel file.

- Drag a Write Range activity after the entire For-Each loop
 Set the Data table to values Table

Your finished workflow should look like this:

