Nested Flow File based Data Controls

Creation Date: 1/30/2023

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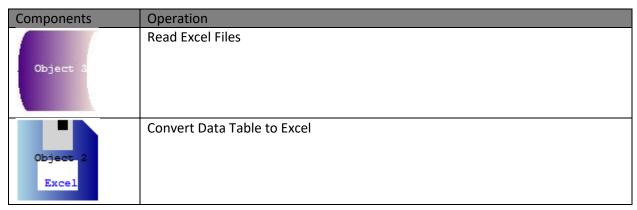
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Introduction

NestedFlow framework supports multiple file based test data options to support data driven automation scripting methodologies. This document explains each of those options and their usage.

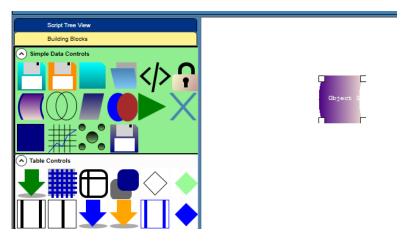
Excel Sheets

Excel sheets are most frequently used test data options used universally while deploying the data driven test framework. Nestedflow provides 2 components to satisfy Excel operation needs.

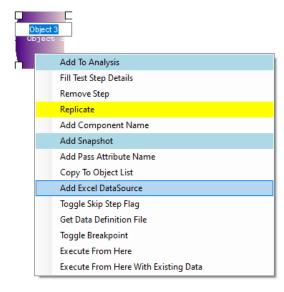


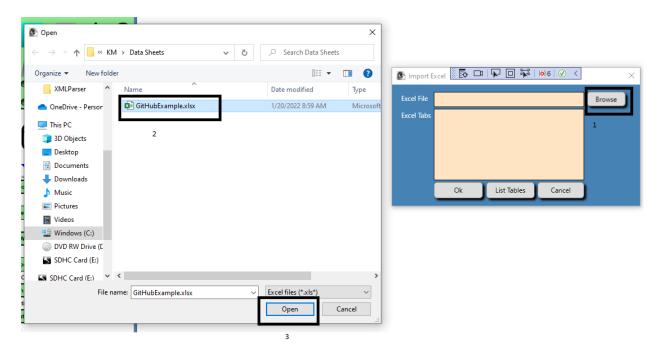
Read Excel:

Drag the Read Excel component to test canvas



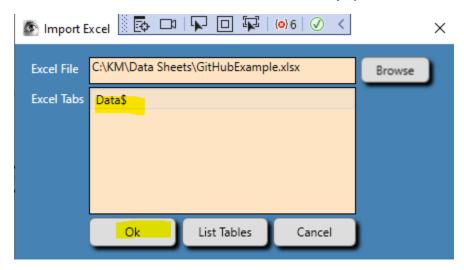
Right click on the component and click on: Add Excel DataSource



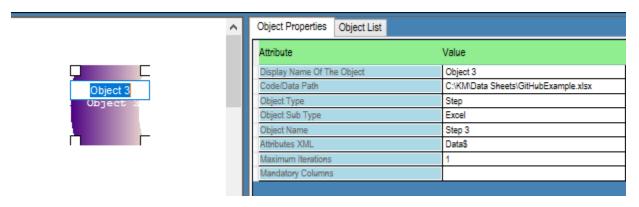


Click on **Browse** button, Choose the Excel file from file navigation window and click on **Open** button

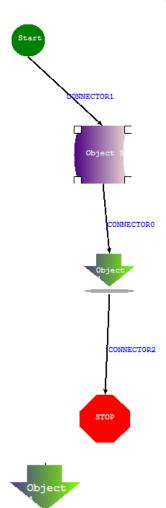
Click on the data sheet relevant from the automatically updated list and click on **Ok** button



Object properties get updated as per the selection.



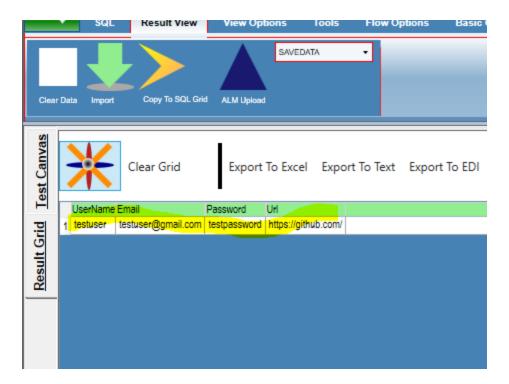
When we create a flow using the component



component is used to save the data retrieved in the data block to a named data table (I have entered SAVEDATA as the table name)

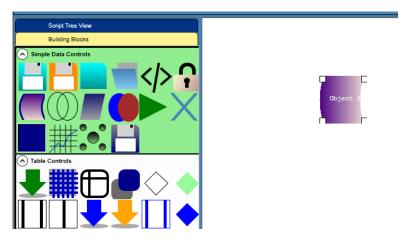
When the flow is executed:

Data will be saved to the table mentioned when we see in the **Result Grid** tab.

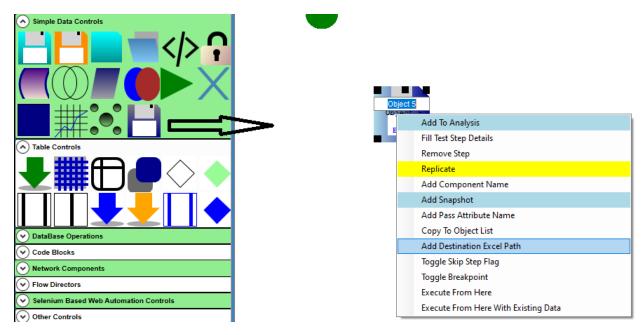


Write Excel:

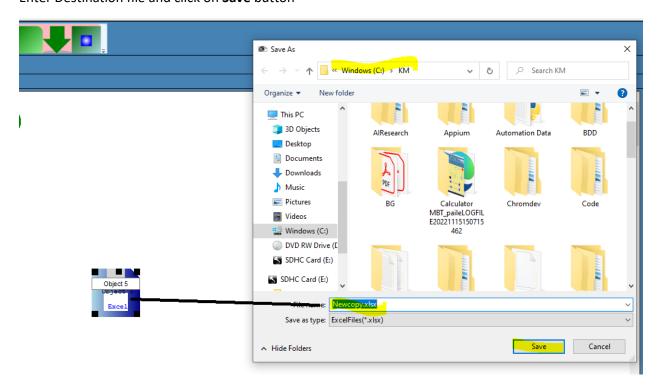
Drag the Read Excel component to test canvas



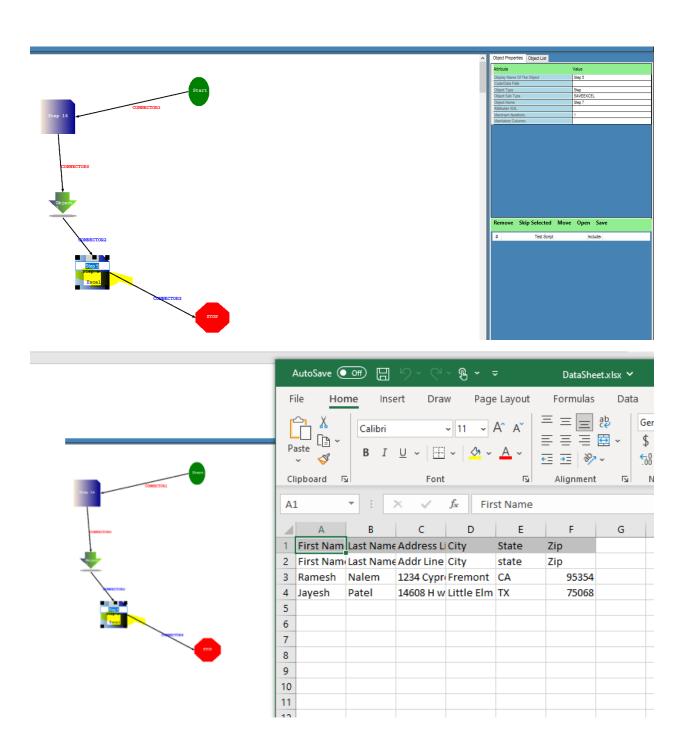
Right click on the component and click on: Add Excel DataSource



Enter Destination file and click on Save button



In the example below we are reading data from a text file and saving it to Excel.



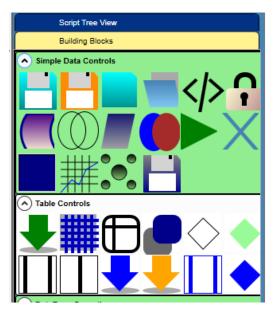
Text Files

NestedFlow supports both delimited and fixed length text files which can be used as the data files. Below are the components used for text handling:

Components	Operation
	Read Text files
Object 9	
Object 8	Convert Data Table to Text files

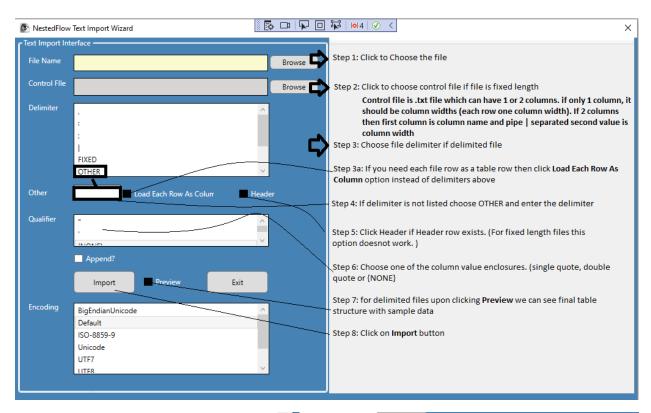
Read Text:

Drag the Read Text component to test canvas

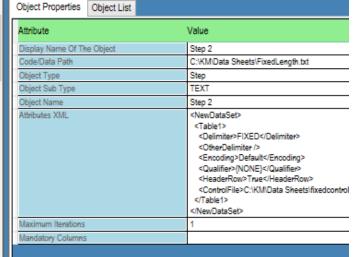




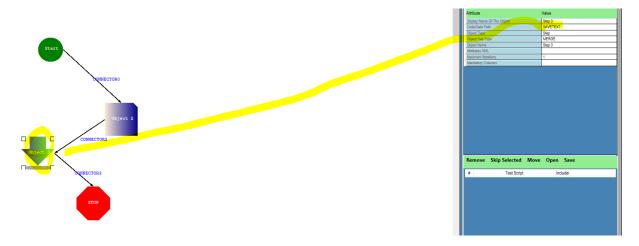
Right click on the component and click on: Add Text Data Source menu







Executing a sample flow:

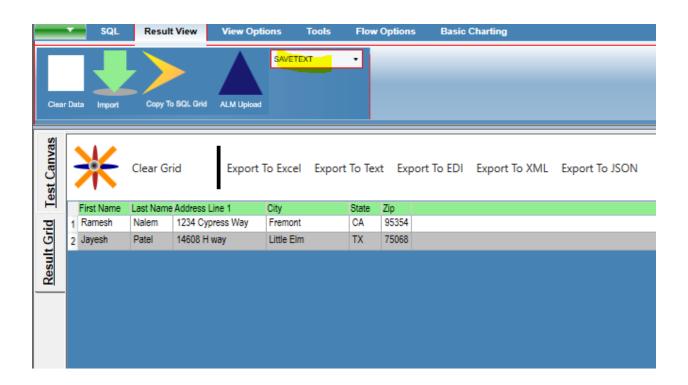


When the flow is executed:



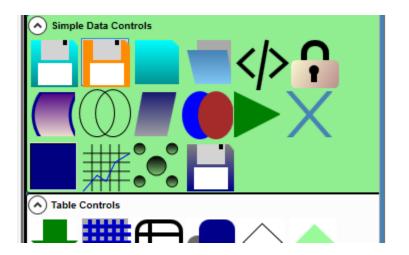
Data will be saved to the table mentioned in

block when we see in the **Result Grid** tab.



Write Text:

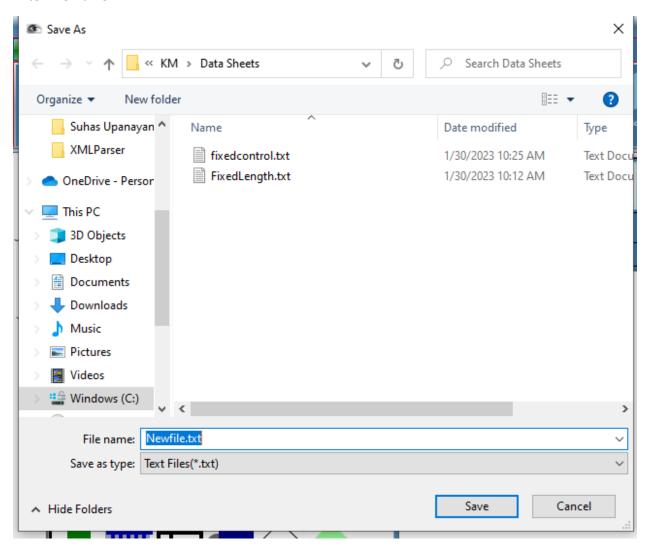
Drag the Read Excel component to test canvas





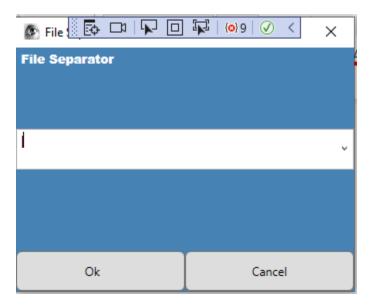
Right Click on the component and click on the menu option: Add Destination Text File

Enter File Name:



Click on **Save** button. Another window will be opened asking for delimiter to be used.

Enter Delimiter and click on **Ok** button



Note: The option allows only delimited files to be created

XML Files

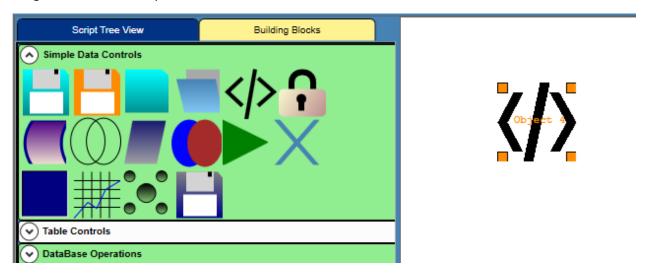
NestedFlow tool allows XML files to be used as data files (as long as the files are in plain Table and rows format)

Below are the components used for text handling:

Components	Operation
Object 2	Read XML files
Object 4	Convert Data Table to XML files

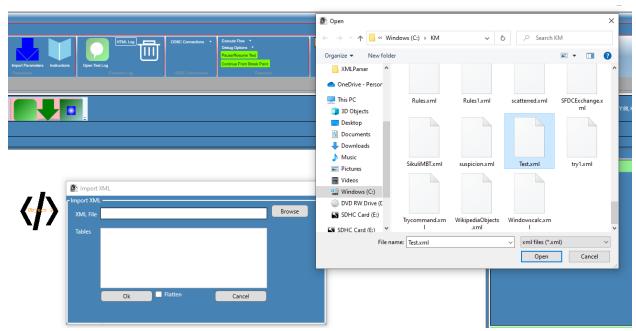
Read XML:

Drag the Read Text component to test canvas



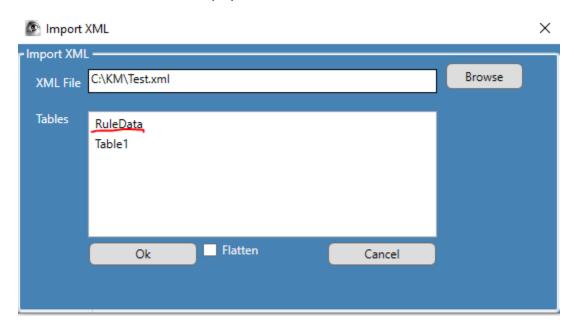
Right click on the component and choose menu option: Add XML DataSource

Click on **Browse** button



Choose a file and click on **Open** button.

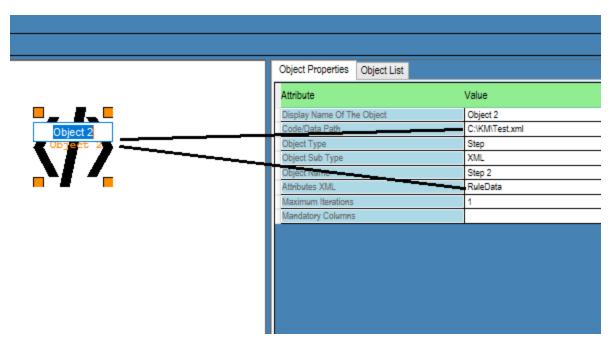
The Tables in the XML will be displayed.



Click on the Table intended and click on **OK** button.

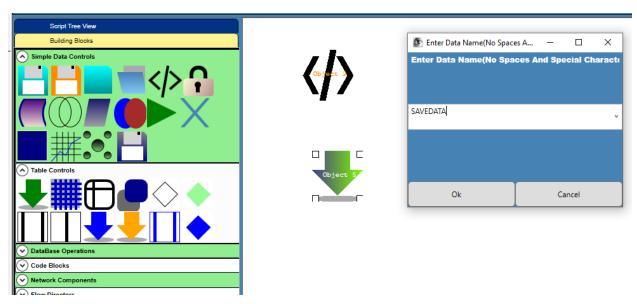
OR

Double click on the table name

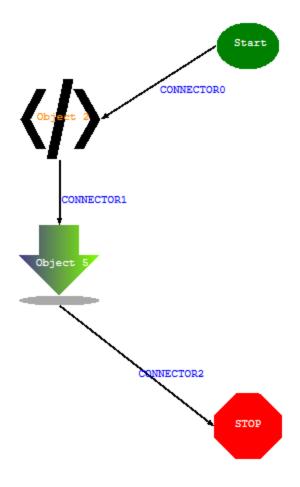


Drag the Merge component from the building blocks to the canvas.

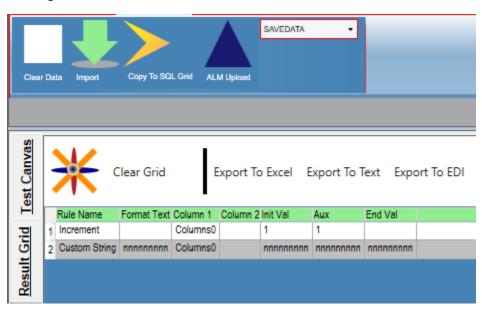
Enter Data name window will open. Enter Data Name and click on **Ok** button



Create a flow using both blocks.

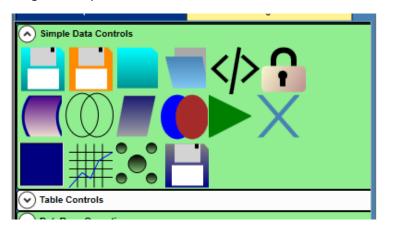


Result grid will show the data.



Write XML:

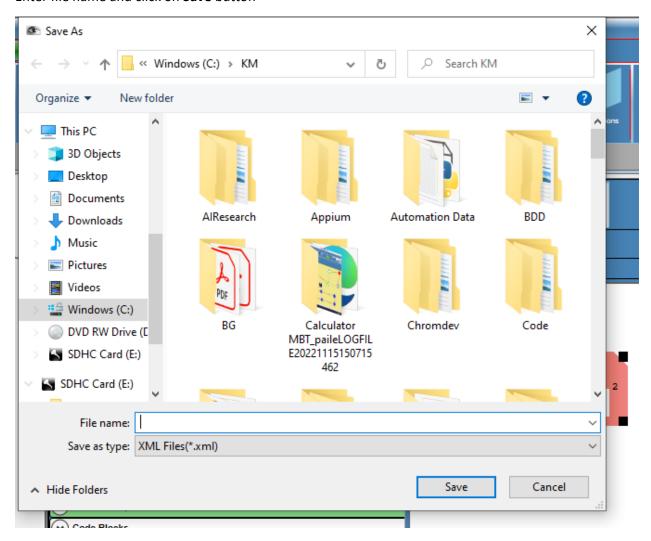
Drag the component to the canvas.





Right click on the document and click on Add Destination XML Path menu item.

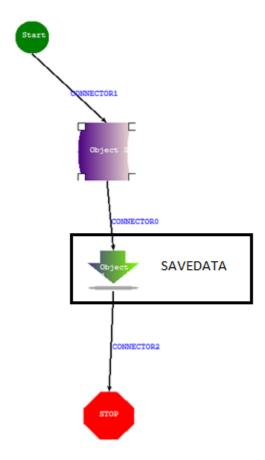
Enter file name and click on **Save** button



Accessing the Data

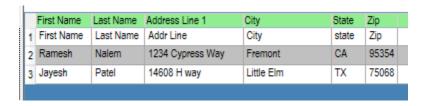
This section explains the means of accessing the data which is created using any of the methods (file types) explained above.

For example, let us revisit the flow we created in Excel read block.



Merged Data will have Data table name saved as: SAVEDATA.

The table looks like this:



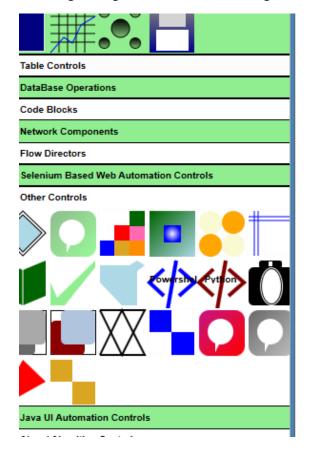
We can access any value using dynamic variables.

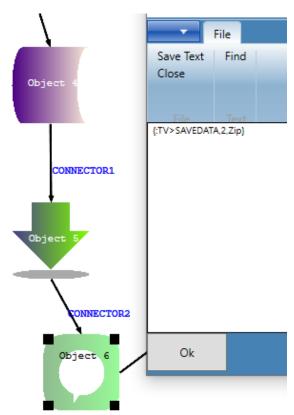
{:TV>TABLENAME,ROWNUM,COLUMNNAME}

For example, let us choose 3rd row 6th column (Zip) which is 75068

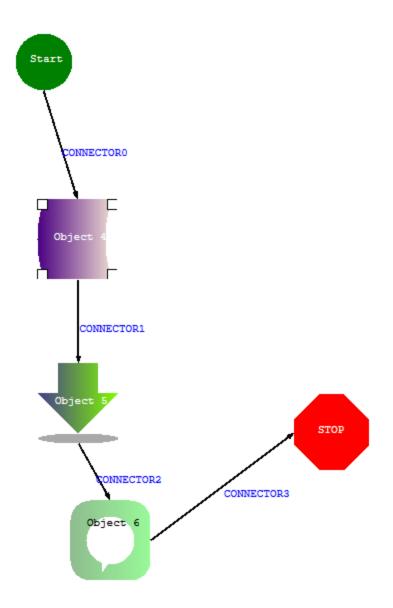
The variable description will be: {:TV>SAVEDATA,2,Zip}

Add a logmessage block and enter message to display the value:

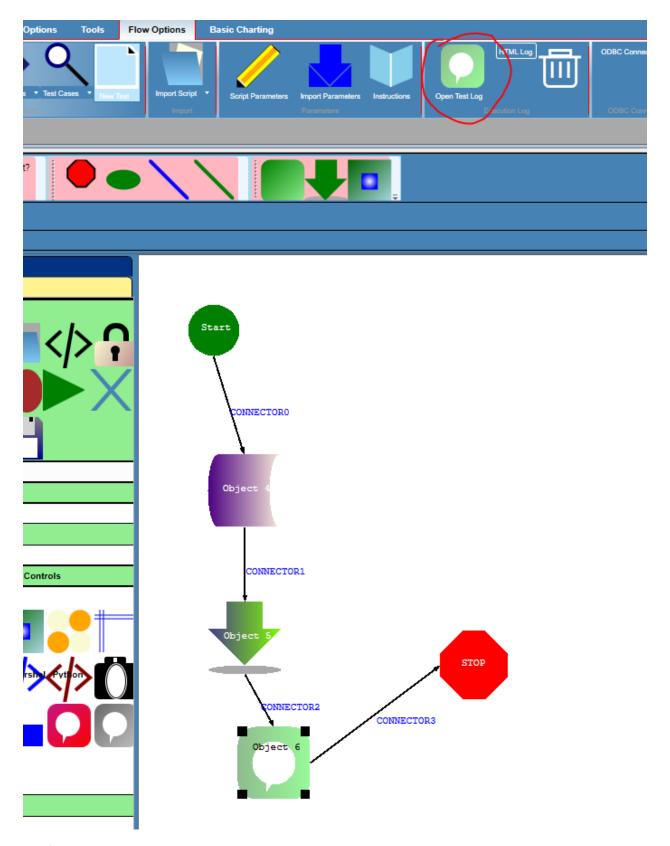




Join components and run the flow.



Once the flow completes, click on **Open Test Log** button



Log file will display the intended value:

