Practice Exercise - For Each Loop

Objective

Build a workflow to let the user choose a directory, display the file path of all the files in that directory in the Output panel, and store the extracted file paths in an MS Word file.

- Locate and select a folder containing multiple files.
- List the directory path of all the files in the Output panel.
- Also, store the updated names in an MS Word file and save and close it.

Process Overview

- START
- Use a Select Folder activity to select a folder containing a few files.
- Use an Assign activity to store file names in an array.
- Use an Attach Window activity below the Assign activity and select the MS Word window.
- Use a For Each activity to iterate through each file name in the array.
- Use a Write Line activity within the For Each activity to display filenames in the Output panel.
- Use a Type Into activity below the Write Line activity to store file names in an MS Word file.
- Use Click and Send Hotkey activities to save and close the file.
- STOP

Step-by-Step Process

- Step 1: Open a new MS Word file.
- Step 2: Open UiPath Studio.
- Step 3: Create a new process and name it "For Each Activity."
- Step 4: Drag a Sequence activity from the Activities panel and drop it in the Designer panel.

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- Step 5: Name the Sequence activity as "Sequence "This code is to write all the file names in MS Word present in a particular folder."
- Step 6: Right-click on the Sequence activity container and select *Annotations* from the context menu.
- Step 7: Enter the annotation shown below:
 - "1. Locate and select a folder containing multiple files.
 - 2. List the directory path of all the files in the Output panel.
 - 3. Store the updated names in MS Word file and save and close it."
- Step 8: Insert a Select Folder activity in the Designer panel and add an annotation: "User selects a folder".
- Step 9: In the <u>Variables</u> panel, define a new variable as shown below:

Name	Variable type	Scope	Default
FolderName	String	Sequence - 'This code is to	
		write all the file names in MS	
		Word present in a particular	
		folder.'	

- Step 10: In the <u>Properties</u> panel of the <u>Select Folder</u> activity, enter **FolderName** in the Output property.
- Step 11: Insert an Assign activity below the Select Folder activity and name it "Assign 'File List'". Add an annotation: "Get all the file names that the user selects and stores it in a list".
- Step 12: In the Variables panel, define a new variable as shown below:

Name	Variable type	Scope	Default
FileList	System.String[]	Sequence - 'This code is to	
		write all the file names in MS	
		Word present in a particular	
		folder.'	

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- Step 13: In the <u>Properties</u> panel of the <u>Assign</u> activity, enter **FileList** in the Output property.
- Step 14: In the Assign activity, enter the value as shown below:

То	Value	
FileList	Directory.GetFiles(FolderName)	

- Step 15: Drag and Drop an Attach window activity and name it as "Attach Window MS Word". Add an annotation: "Attach MS Word window".
- Step 16: Click on the "Indicate Element on Screen" link and select the MS Word window opened in the background.
- Step 17: Click the hamburger button and select Edit Selector. In the bottom panel of the Selector Editor, rename the title of the MS Word to '*'. Click OK to save the changes.
- Step 18: Drag and drop a For Each activity in the Do section of the Attach Window activity, insert **item** in the first text box, and the variable **FileList** in the second text box. Add an annotation: "Loop iterates for each item in the list".
- Step 19: Drag and Drop a Write Line activity in the Body section of the For Each activity. Enter the expression: **item.ToString.** Add an annotation: "The result will appear in the Output Panel".
- Step 20: Drag and Drop a Type Into activity in the Body section of the For Each activity and name it as "Type Into 'File List into MS Word'". Add an annotation: "Each item in the list results to be printed in the MS Word file."
- Step 21: Click on the "Indicate element on screen" link and select the editor area of MS Word.
- Step 22: In the text area of Type Into activity, enter the expression: **item.ToString** + "[k(enter)]"
- Step 23: Drag a Send Hotkey activity and drop it below the For Each activity.
- Step 24: Name the "Send Hotkey" activity as "Send Hotkey 'Open the Save As dialog box.". Add an annotation: "Pressing F12 key opens the 'Save As' Dialog box in the MS Word".

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- Step 25: Click on the "Indicate element on screen" link and select the editor area of MS Word.
- Step 26: In the Send Hotkey activity, select *F12* from the dropdown for Key option.
- Step 27: Insert a Click activity. Click "Indicate element inside window" link and select the Save button of the 'Save As' dialog box.
- Step 28: Name the Click activity as "Click 'Save' button". Add an annotation: "Press Save button from Save As pop Dialog box."
- Step 29: Insert second Send Hotkey activity and name it "Send Hotkey" activity as Send Hotkey 'To close the application" Add an annotation: "Press 'Alt+F4' key to close the MS Word window."
- Step 30: Click on the "Indicate element on screen" link and select the editor area of MS Word.
- Step 31: In the Send Hotkey activity, check the box below Alt option, and choose *F4* from the dropdown of Key option.
- Step 32: Save and run the workflow.

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