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# Supplementary Notes UC5

CET\_Training

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## Activities explored – Use Case 1

- Record currency
  - Recording: Record key strokes (Type Into, click, Select item)
  - Open browser: Ask UiPath to open a webpage
  - Close Tab: Close browser tab
  - Read Range: read Excel file -> data table (in computer memory)
  - For each row: Loop through each row in data table

	A	B	C
	Amount	From	To
2	2500	Australian Dollar (AUD)	Chinese Yuan (CNY)
3	1400	Bulgarian Lev (BGN)	Czech Koruna (CZK)
4	3200	Brazilian Real (BRL)	Danish Krone (DKK)
5	4300	Canadian Dollar (CAD)	Euro (EUR)
6	5000	Swiss Franc (CHF)	British Pound Sterling (GBP)

The screenshot shows the 'asiaone' website's 'CURRENCY CONVERTER & BEST EXCHANGE RATE IN TOWN' interface. The 'Convert' field is set to 100. The 'From' dropdown is set to 'Singapore Dollar (SGD)' and the 'To' dropdown is set to 'US Dollar (USD)'. A 'Submit' button is visible at the bottom. On the right, a 'Today's Forex Rate' section lists rates for AUD, BGN, BRL, CAD, and CHF.

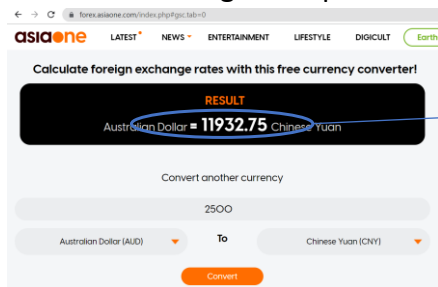
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## Use Case 2

- Get currency conversion from webpage and write to excel
  - Get Text: Get text from webpage
  - Assign: put a value into a variable, eg PriceValue = 5
  - Log Message: Print contents of variables for debugging (Output tab)
  - Write Range: write data table -> Excel file
  - Matches: Regular expression -> find match of specified pattern



	A	B	C	D	E	F
1	Amount	From	To	Result	Final result	
2	2500	Australian	Chinese Yuan		11932.75	
3	1400	Bulgarian	Czech Koruna		16815.4	
4	3200	Brazilian Real	Danish Kroner		4290.24	
5	4300	Canadian	Euro (EUR)		2918.986	
6	5000	Swiss Franc	British Pound		4420.82	
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## Use Case 3

- Lazada.sg smartphones extract data table
  - Data Scraping
  - Write CSV: write data table -> CSV file

A1	Description	URL	Price
1	Description	URL	Price
2	OnePlus Ace 10R 5G	https://www.laz	\$636.02
3	OPPO Reno5 5G / C	https://www.laz	\$499.00
4	Google Pixel 5A 5G	https://www.laz	\$598.80
5	SAMSUNG A32 4G	https://www.laz	\$330.00
6	Xiaomi Redmi Note	https://www.laz	\$288.00
7	Nubia Red Magic 7	https://www.laz	\$1,270.00
8	Lenovo Legion Y90	https://www.laz	\$884.00
9	ASUS ROG PHONE 3	https://www.laz	\$1,368.00
10	Y2K 3G Flip 2 Senior	https://www.laz	\$85.00
11	Original And New U	https://www.laz	\$281.00

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# Use Case 4

- Data manipulation, clean up prices
  - Add Data Column: Add new column to data table
  - Modify Text: Find and Replace Text, Text to Left/Right, Trim (also can be done: ToUpper, ToLower, Replace, Trim, Split, concat, substring)
  - Change data type: Change Type to
  - Try Catch: Exception handling

Items	Price
TV	S\$ 220.00
iPhone	S\$ 272.58 to S\$ 340.72
Wallet	S\$ 10.89
Shoes	S\$ 40.37
Waterborrle	Item not found
Gloves	S\$ 17.39 to S\$ 17.55

Items	Price	Price(S\$)
TV	S\$ 220.00	220.00
iPhone	S\$ 272.58 to	
	S\$ 340.72	272.58
Wallet	S\$ 10.89	10.89
Shoes	S\$ 40.37	40.37
Waterborrle	Item not found	0
Gloves	S\$ 17.39 to S\$	
	17.55	17.39

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## Revision

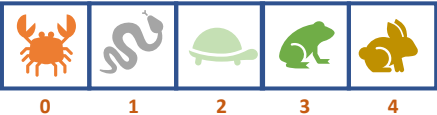
### Variable

MyVarName  
MyAnimal



### Array

MyArrayName  
MyAnimalBasket



MyAnimalBasket(0) =

MyAnimalBasket(1) =

MyAnimalBasket(2) =

MyAnimalBasket(3) =

MyAnimalBasket(4) =

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## Revision

### Data table

Read range (workbook)

Convert  
Currency.xlsx

Amount	From	To	Result	Final result
2500	Australian Dollar (AUD)	Chinese Yuan (CNY)		
1400	Bulgarian Lev (BGN)	Czech Koruna (CZK)		
3200	Brazilian Real (BRL)	Danish Krone (DKK)		
4300	Canadian Dollar (CAD)	Euro (EUR)		
5000	Swiss Franc (CHF)	British Pound Sterling (GBP)		

Create variable to store whatever that was read (i.e. DTCurrency)

For Each Row in Data Table

ForEach In  
CurrentRow DTCurrency

Amount	From	To	Result	Final result
2500	Australian Dollar (AUD)	Chinese Yuan (CNY)		
1400	Bulgarian Lev (BGN)	Czech Koruna (CZK)		
3200	Brazilian Real (BRL)	Danish Krone (DKK)		
4300	Canadian Dollar (CAD)	Euro (EUR)		
5000	Swiss Franc (CHF)	British Pound Sterling (GBP)	688	

CurrentRow("Amount").toString

CurrentRow("From").toString

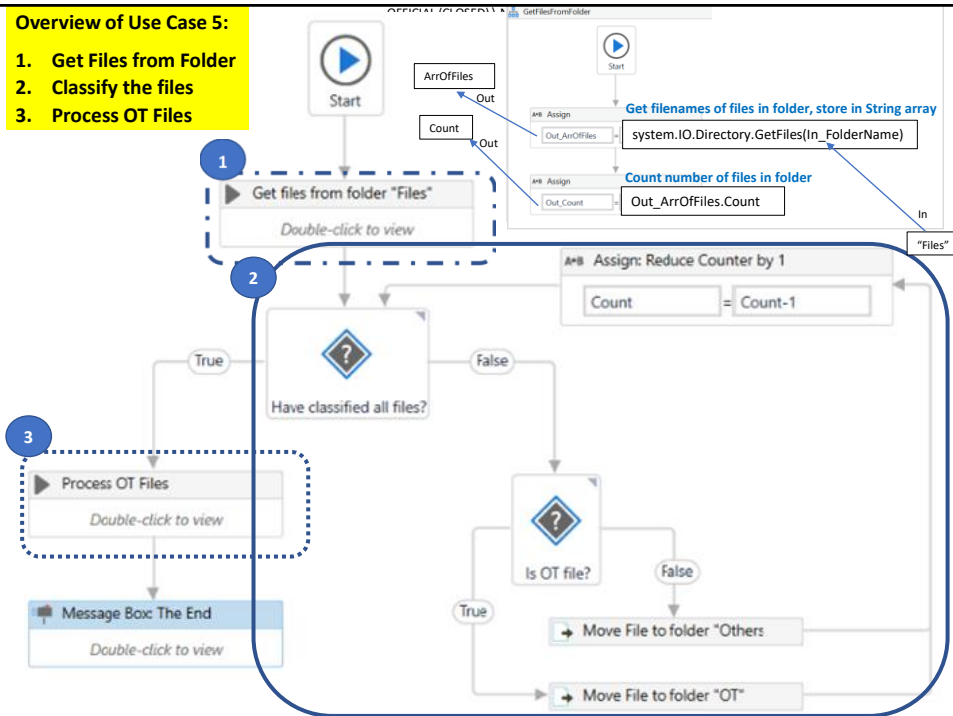
CurrentRow("To").toString

CurrentRow("Result")= "688"

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### Overview of Use Case 5:

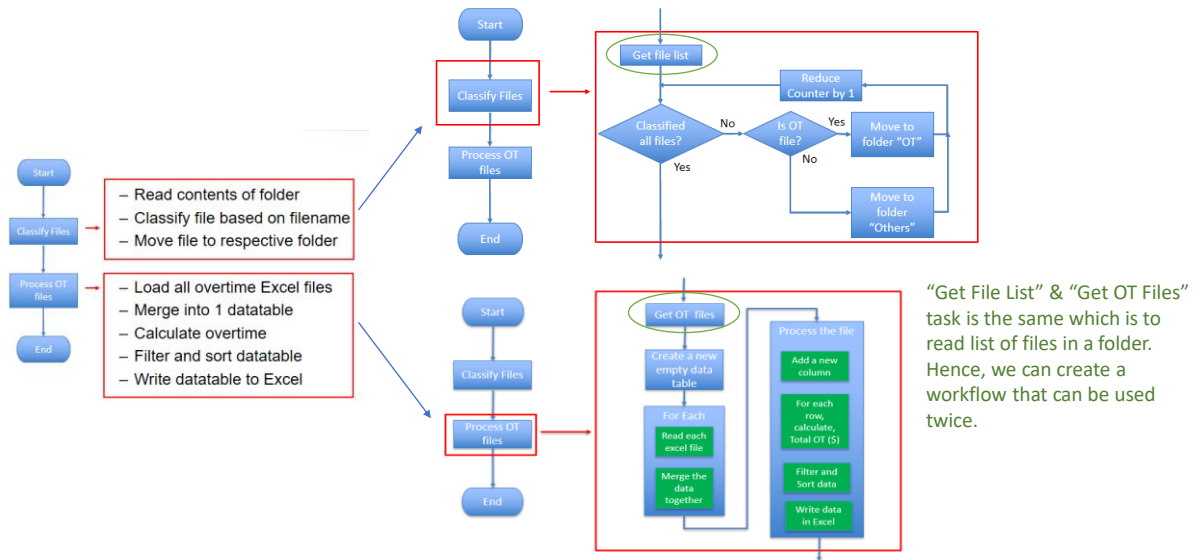
1. Get Files from Folder
2. Classify the files
3. Process OT Files



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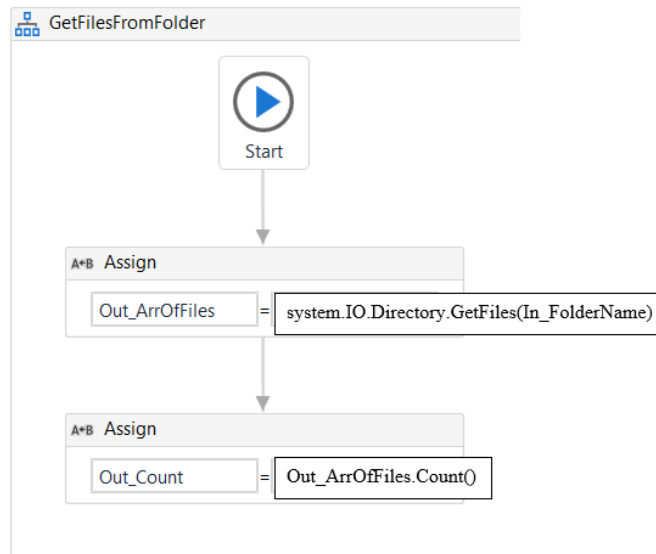
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## Use Case 5 – Handle Data and Files

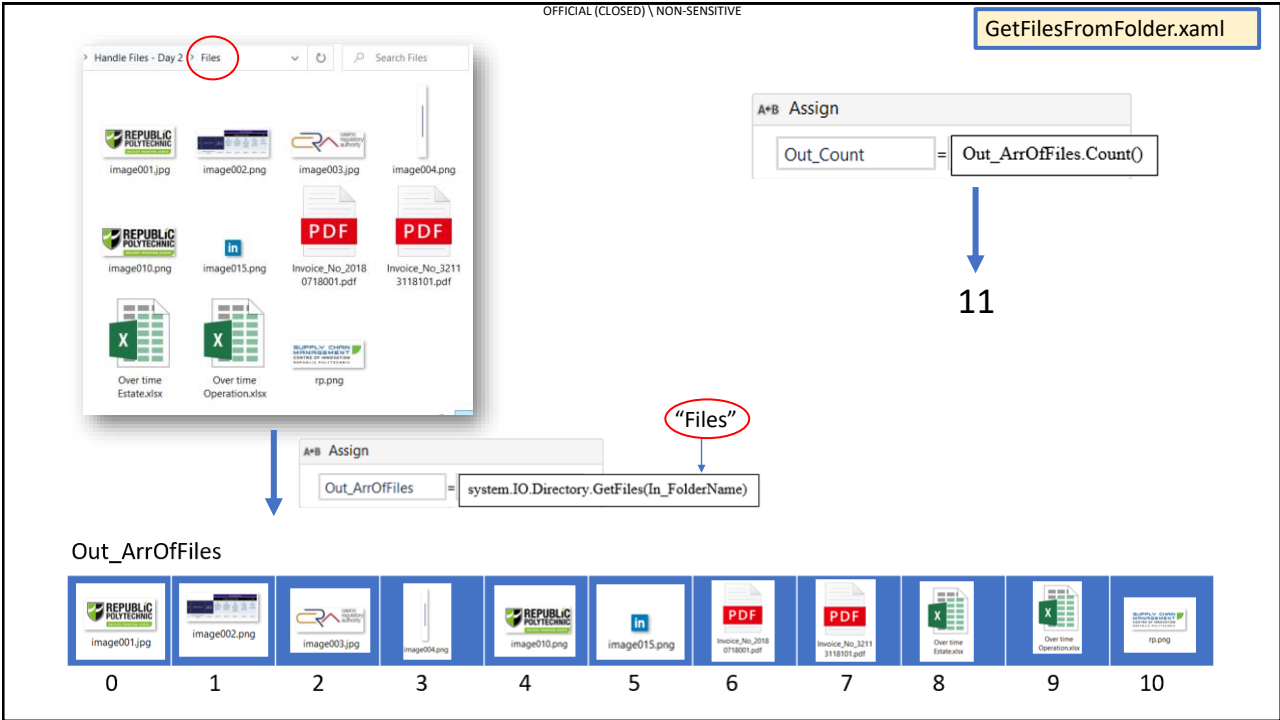


9

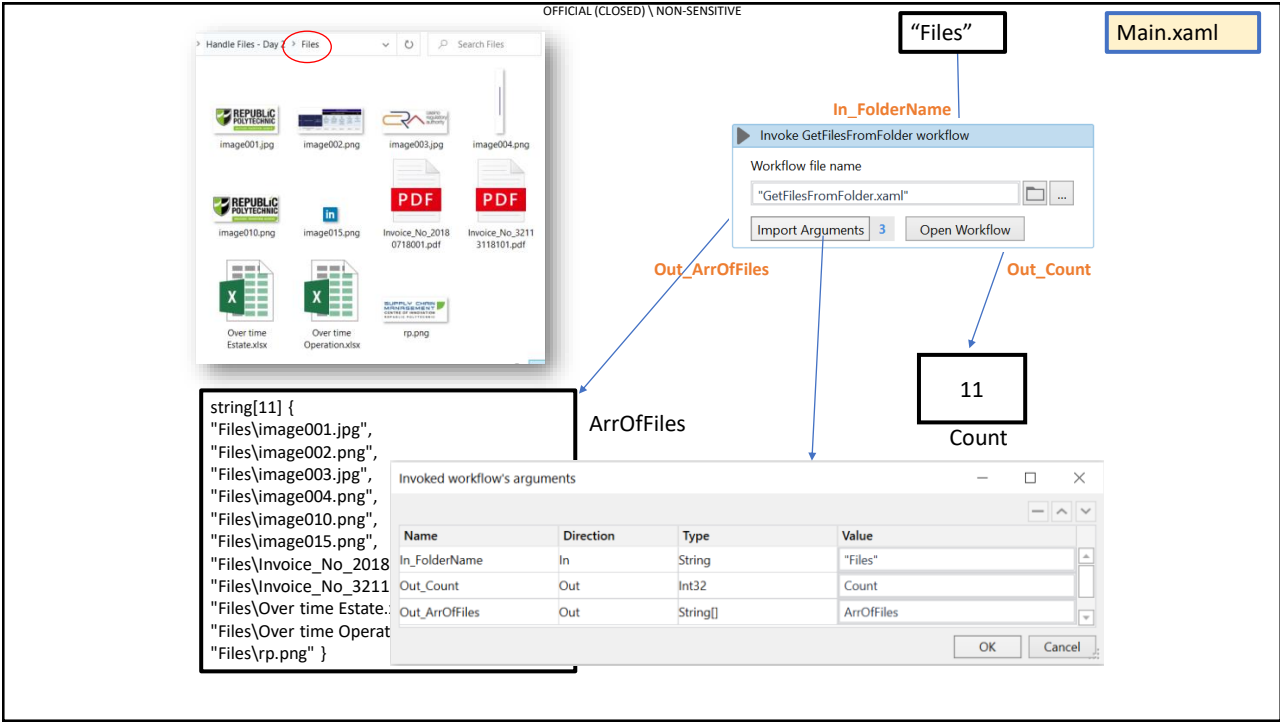
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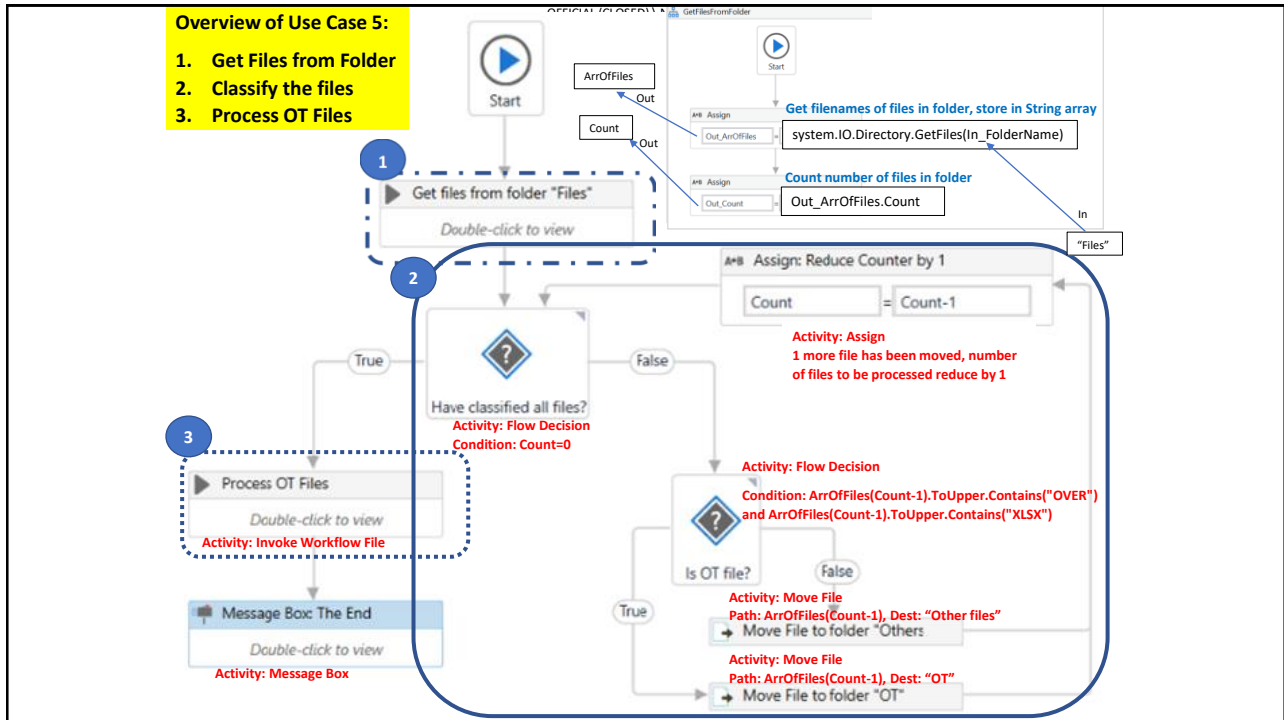
10



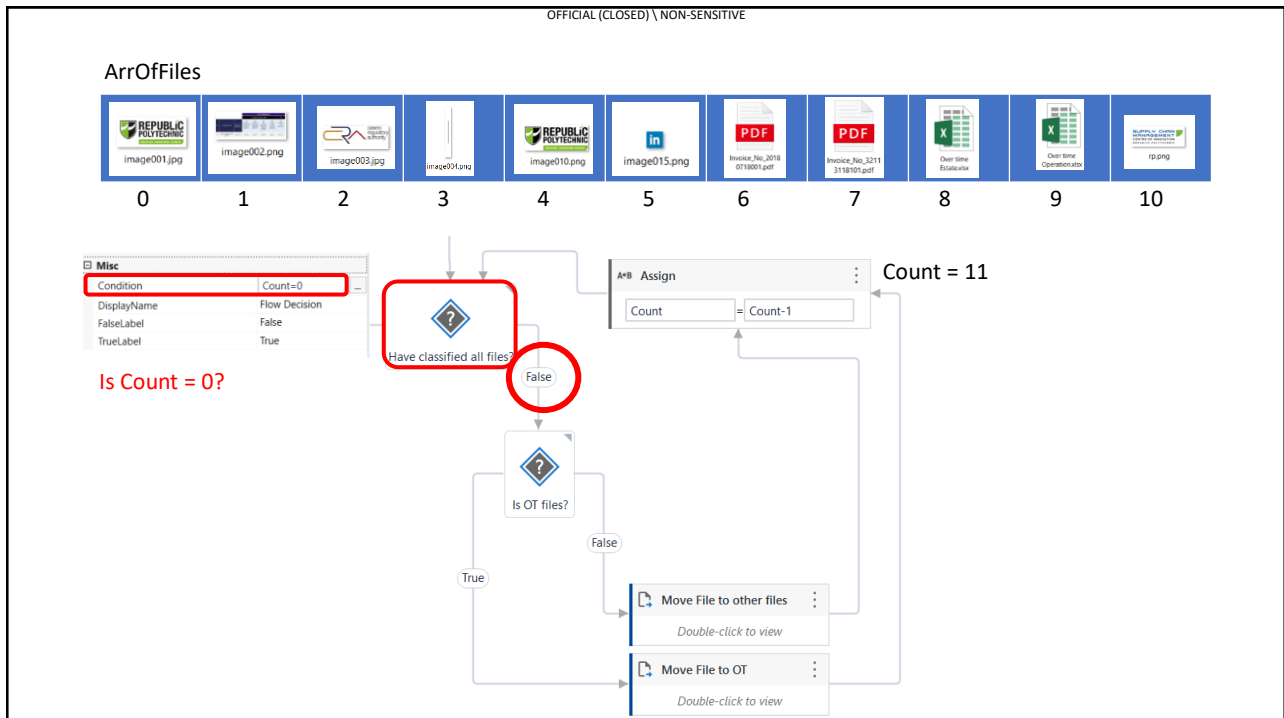
11



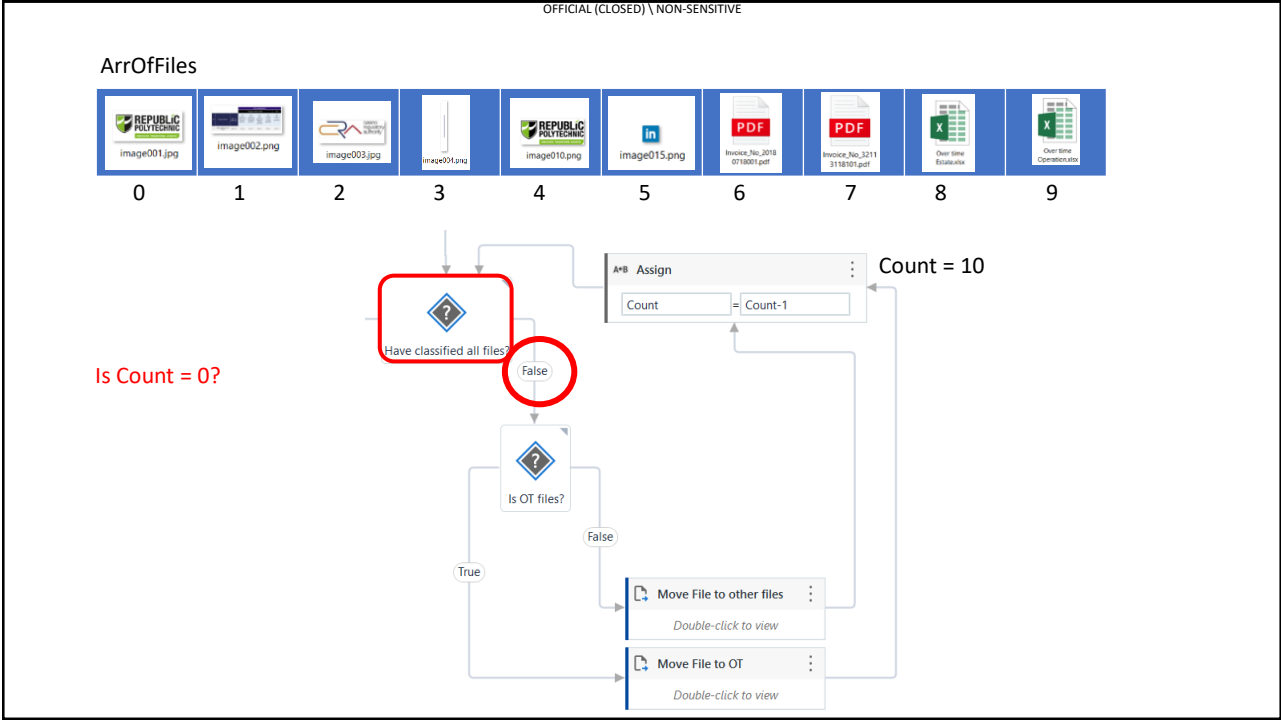
12



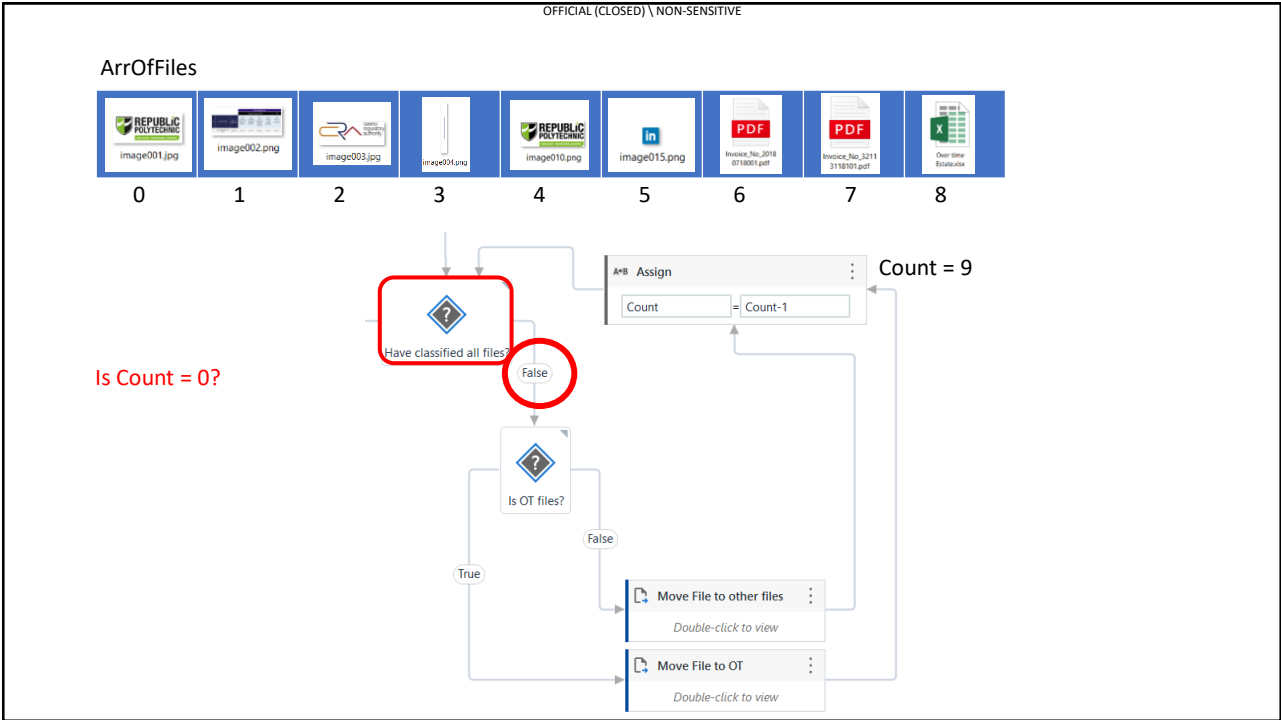
13



14

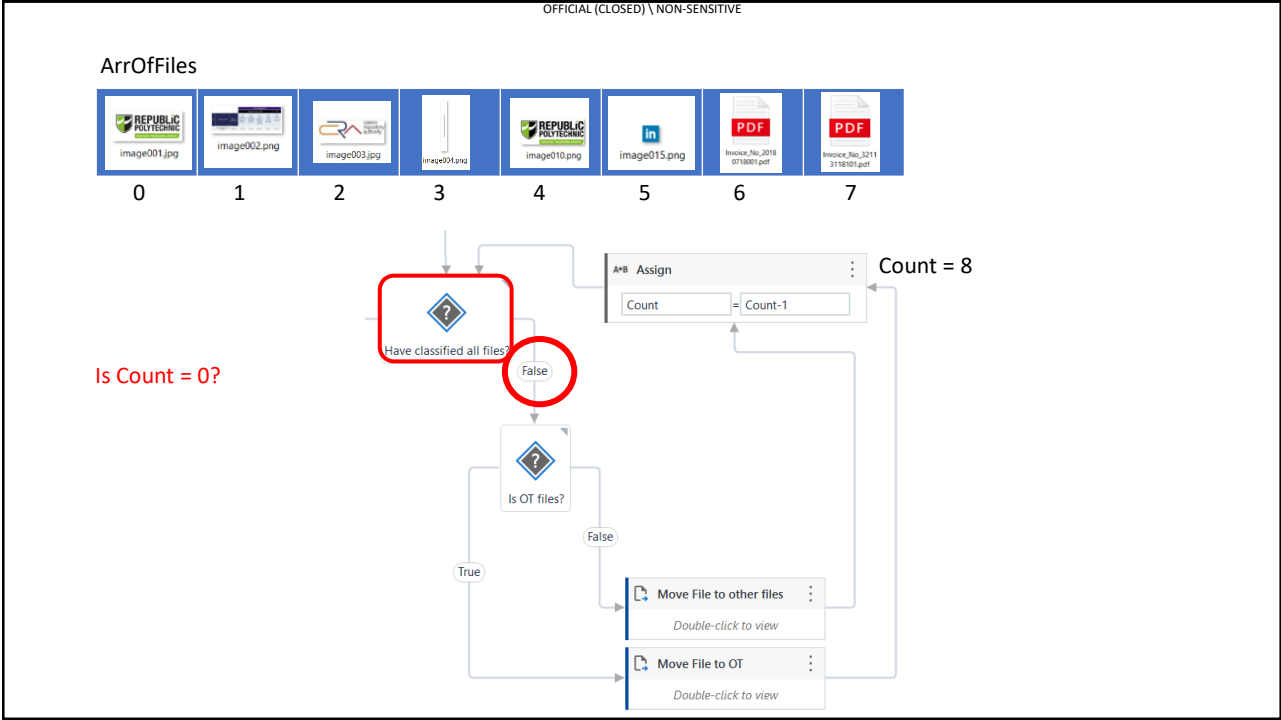


15

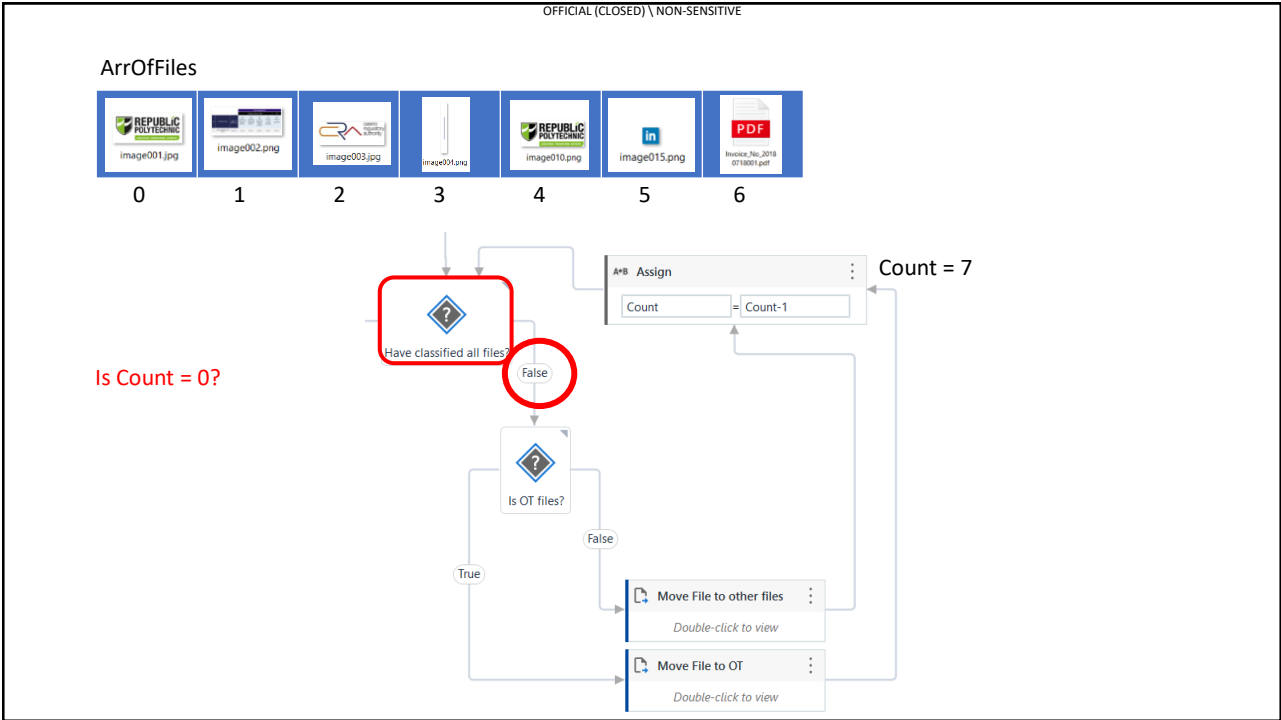


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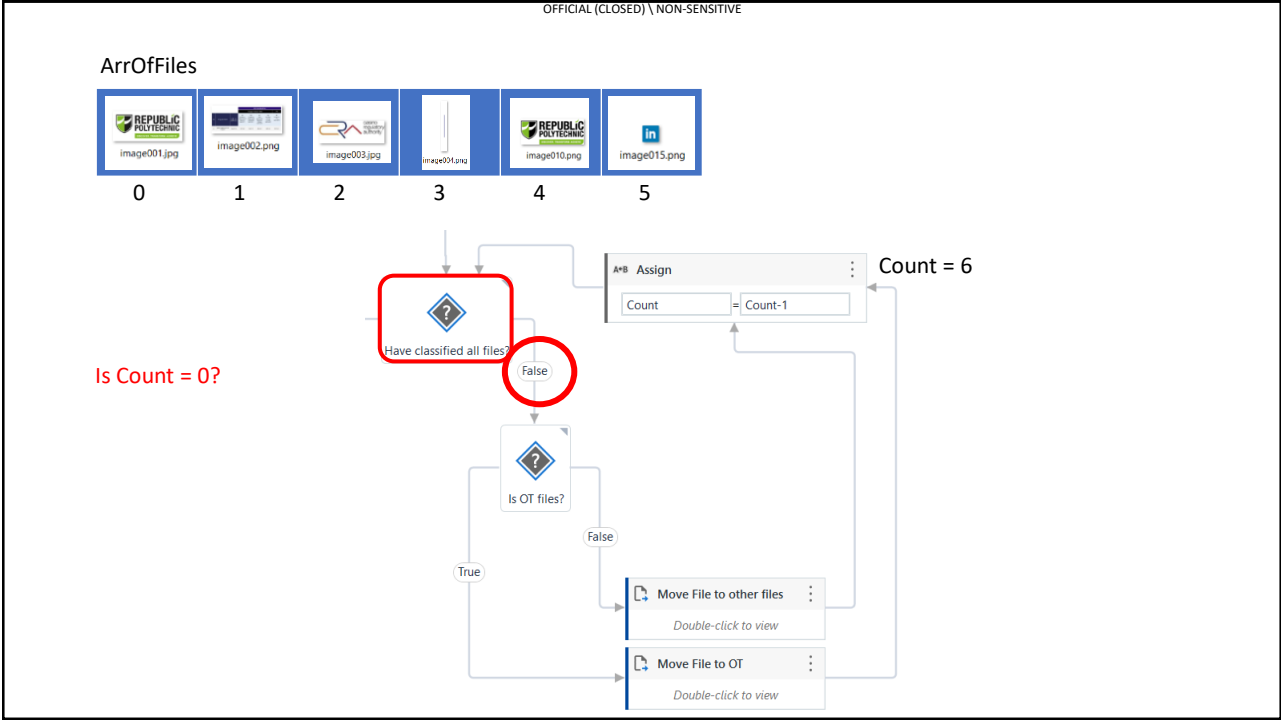




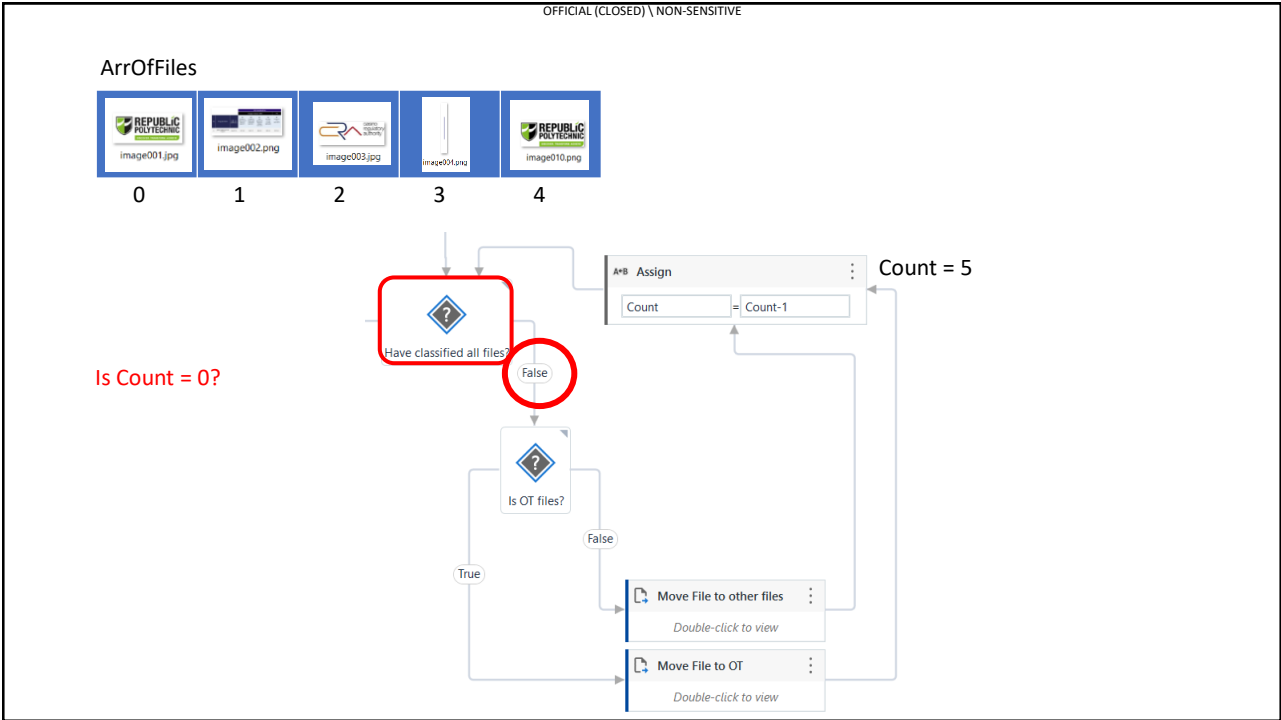
17



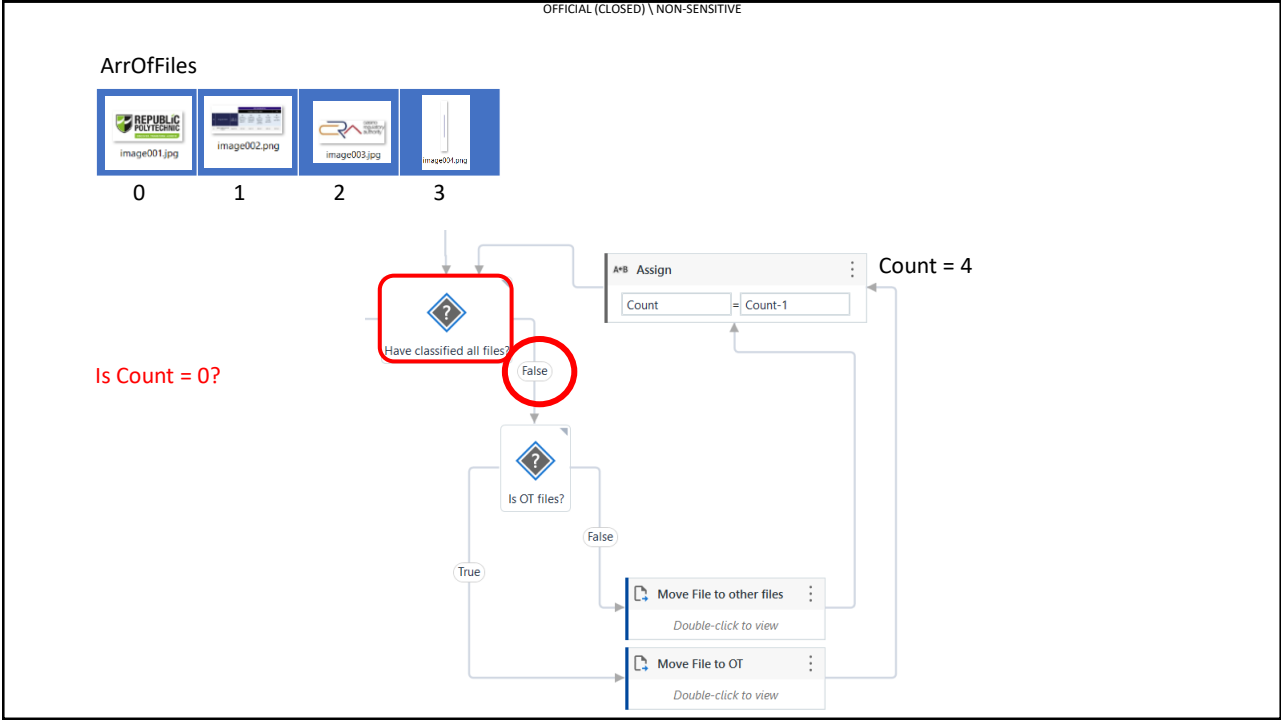
18



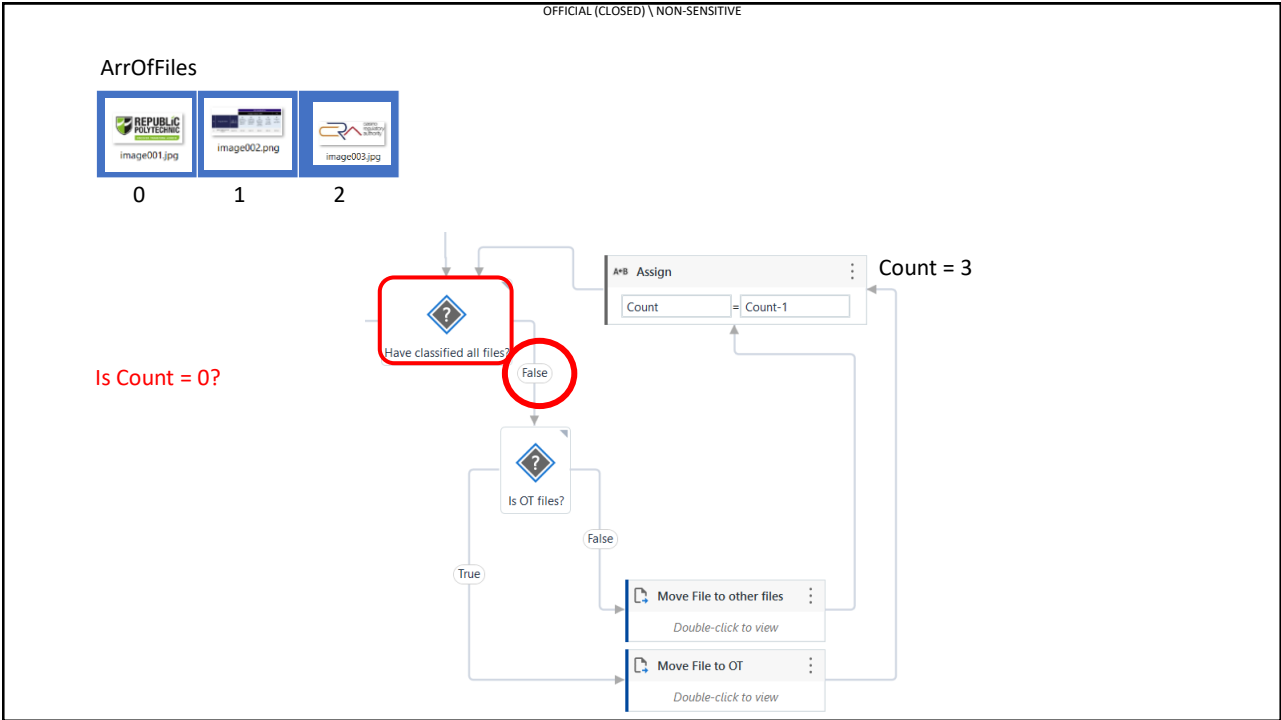
19



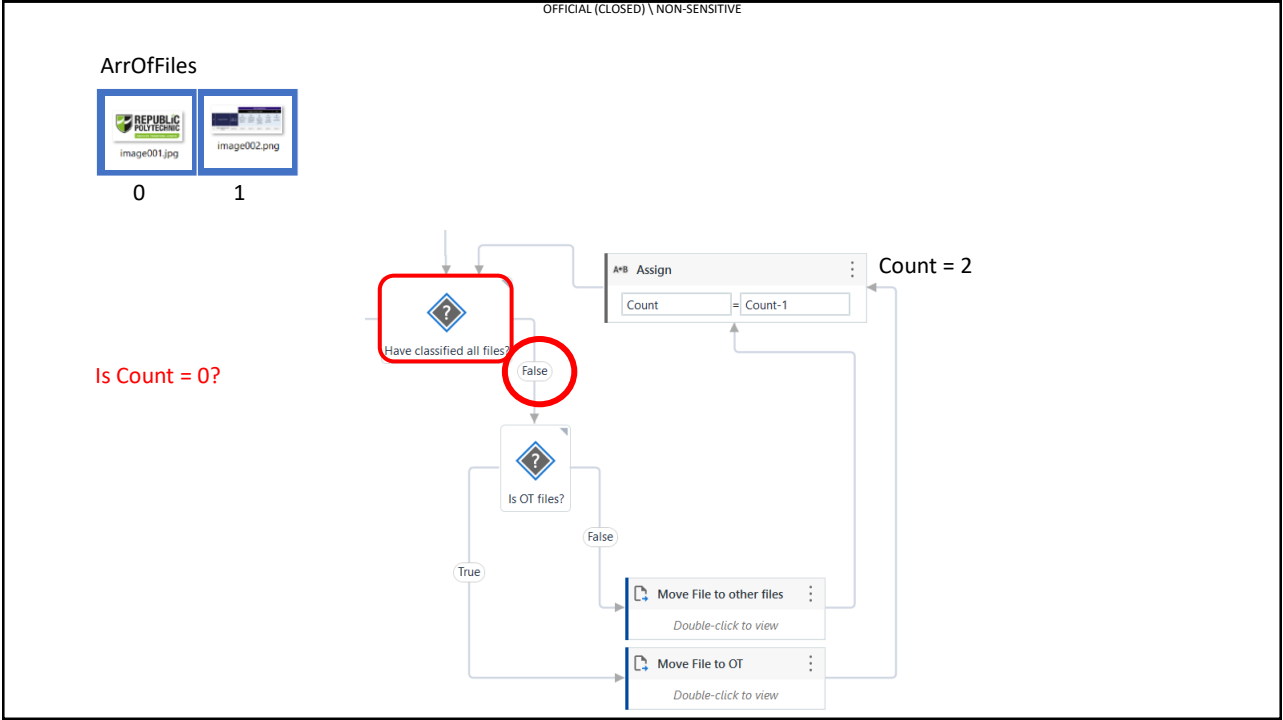
20



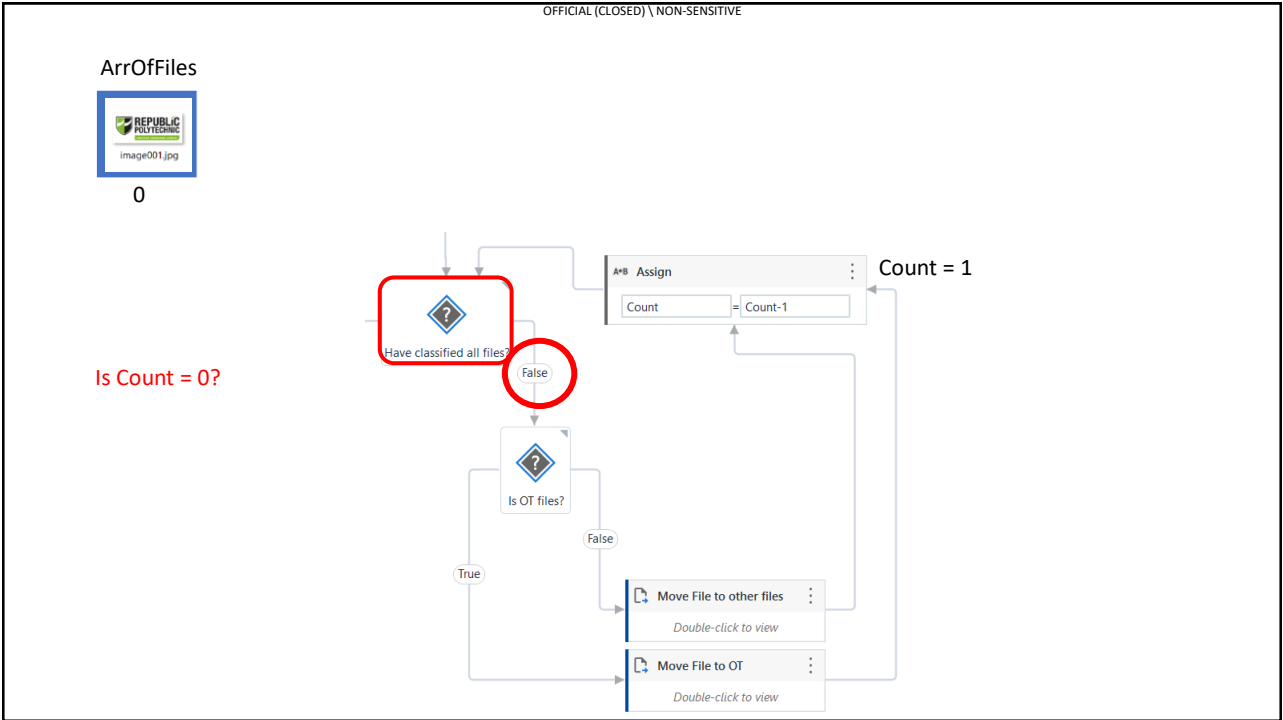
21



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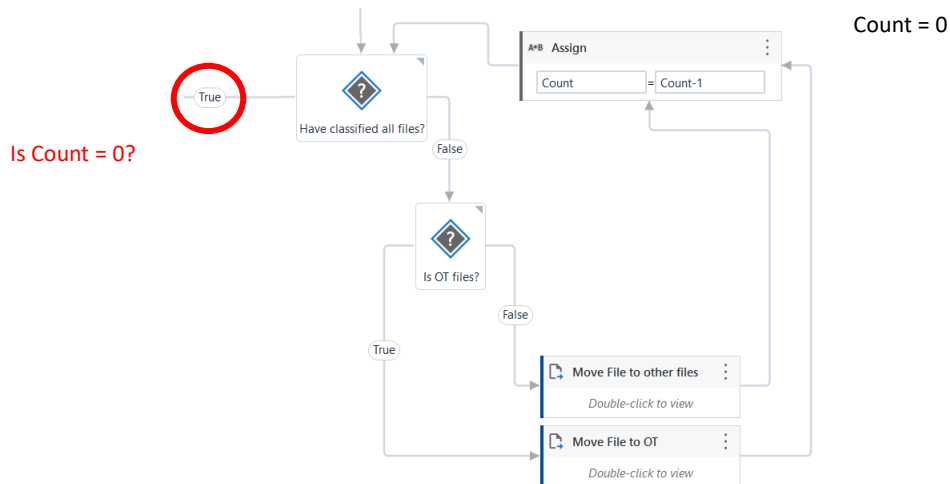
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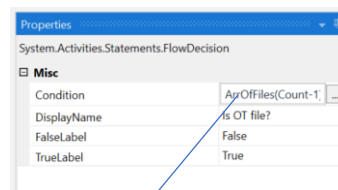
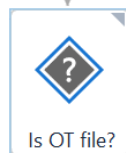
ArrOfFiles



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Check if current file is an OT file



**ArrOfFiles(Count-1).ToUpper.Contains("OVER") and ArrOfFiles(Count-1).ToUpper.Contains("XLSX")**

Last file in the collection that is still unsorted. Index is number of files (i.e. Count) minus 1.

Convert Name to All UPPER CASE

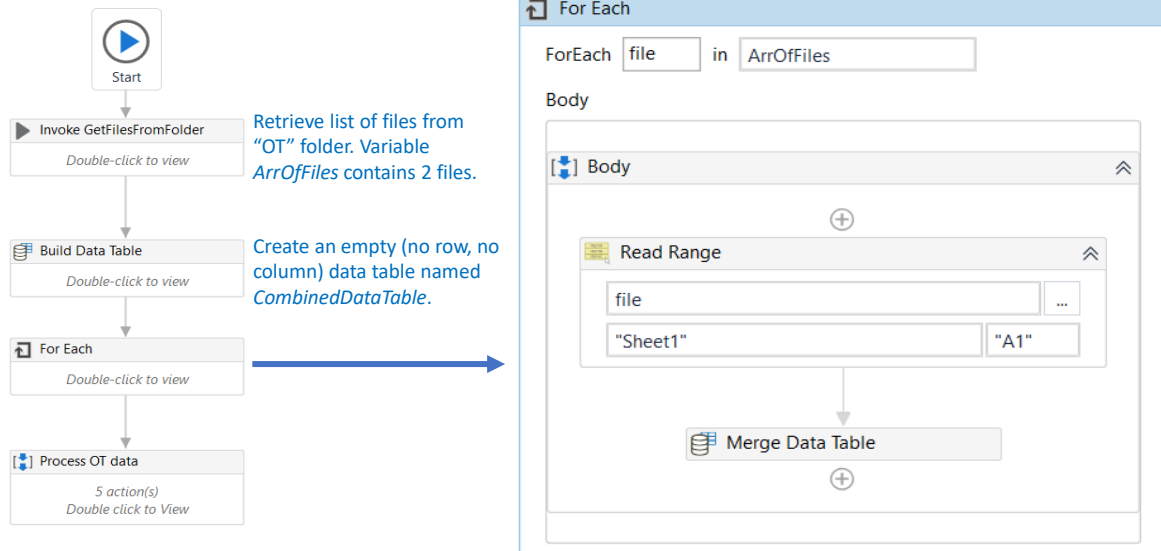
UPPER-CASE Filename contain the word "OVER". True/False?

"and" is used to connect multiple conditions

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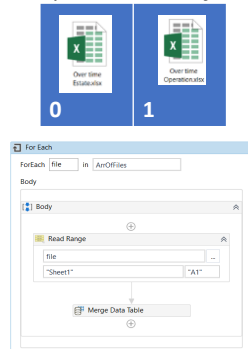
## Process OT files



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## Process OT files

Array Variable: *ArrOfFiles***1<sup>st</sup> Round:**1) Read file "Over time Estate.xlsx" from *ArrOfFiles* to *OTDatable* (below)

1	Name	Department	Basic Salary	Month	Year	Hourly OT (\$)	Overtime (hrs)
2	Shilpa R	Operation	3740	January	2018	32	10
3	Sindhu J.P	Operation	4000	January	2018	34	4
4	Deepthi P.S	Estate	4000	January	2018	34	3
5	Lijin k c	Estate	1500	January	2018	12	20
6	Sayed K.M	Estate	1750	January	2018	14	5
7	Ajli k Mohanan	Estate	1100	January	2018	9	16
8	Edison M.L	Estate	3200	January	2018	27	8
9	Basil P E	Estate	1100	January	2018	9	15
10	Jobin George	Estate	3000	January	2018	25	10
11	Jison Tomy	Estate	4000	January	2018	34	13
12	Sharafali P	Estate	4000	January	2018	34	13

2) Merge *OTDatable* with *CombineDataTable* (Empty). *CombineDataTable* now contains rows from "Over time Estate.xlsx" file.**2<sup>nd</sup> Round:**1) Read file "Over time Operations.xlsx" from *ArrOfFiles* to *OTDatable* (below)

1	Name	Department	Basic Salary	Month	Year	Hourly OT (\$)	Overtime (hrs)
2	Raj Sharma	Operation	3000	January	2018	26	10
3	Sharad Gandhi	Operation	2500	January	2018	21	9
4	Danish D'Souza	Operation	2000	January	2018	17	11
5	Pawan Patil	Operation	2250	January	2018	19	7
6	Rijo Paul	Operation	2100	January	2018	18	15
7	Joseph P	Operation	4000	January	2018	34	11
8	Aakash Patel	Operation	3500	January	2018	30	12
9	Ganesh Rahu	Operation	3000	January	2018	26	14
10	Vinudas K.S	Operation	3000	January	2018	26	18
11	Divya Kumar	Operation	4000	January	2018	34	19

2) Merge *OTDatable* with *CombineDataTable*. *CombineDataTable* now contains rows from both OT files.Variable: *CombinedDataTable*

1	Name	Department	Basic Salary	Month	Year	Hourly OT (\$)	Overtime (hrs)
2	Shilpa R	Operation	3740	January	2018	32	10
3	Sindhu J.P	Operation	4000	January	2018	34	4
4	Deepthi P.S	Estate	4000	January	2018	34	3
5	Lijin k c	Estate	1500	January	2018	12	20
6	Sayed K.M	Estate	1750	January	2018	14	5
7	Ajli k Mohanan	Estate	1100	January	2018	9	16
8	Edison M.L	Estate	3200	January	2018	27	8
9	Basil P E	Estate	1100	January	2018	9	15
10	Jobin George	Estate	3000	January	2018	25	10
11	Jison Tomy	Estate	4000	January	2018	34	13
12	Sharafali P	Estate	4000	January	2018	34	13
13	Raj Sharma	Operation	3000	January	2018	26	10
14	Sharad Gandhi	Operation	2500	January	2018	21	9
15	Danish D'Souza	Operation	2000	January	2018	17	11
16	Pawan Patil	Operation	2250	January	2018	19	7
17	Rijo Paul	Operation	2100	January	2018	18	15
18	Joseph P	Operation	4000	January	2018	34	11
19	Aakash Patel	Operation	3500	January	2018	30	12
20	Ganesh Rahu	Operation	3000	January	2018	26	14
21	Vinudas K.S	Operation	3000	January	2018	26	18
22	Divya Kumar	Operation	4000	January	2018	34	19

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# Process OT files

