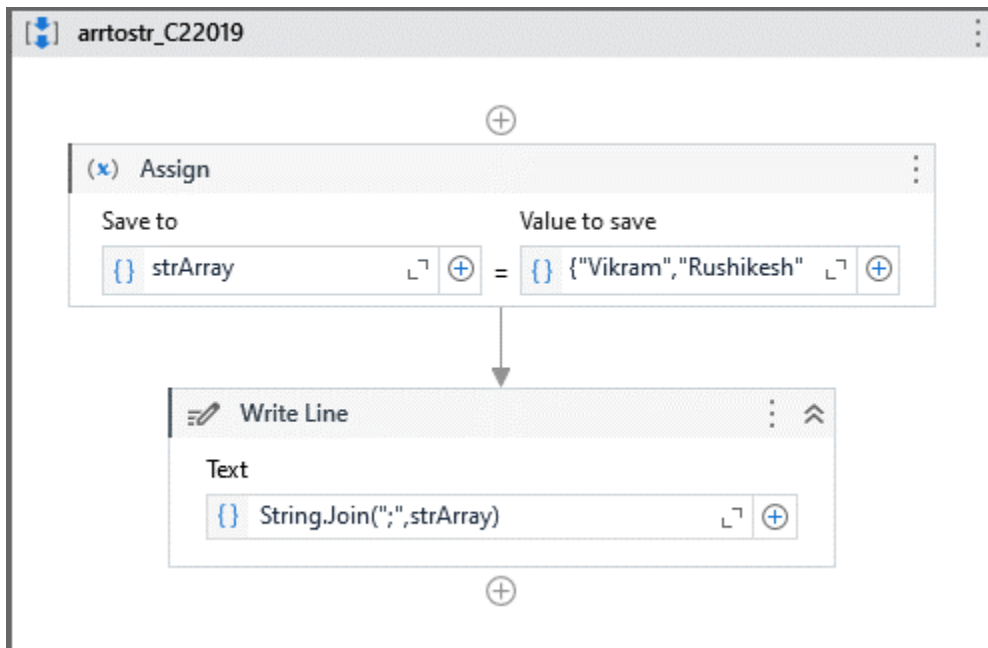


## UIPATH all Bots

### Category 4

**Question1:** Write a bot to create array of string and to copy the contents of array to string

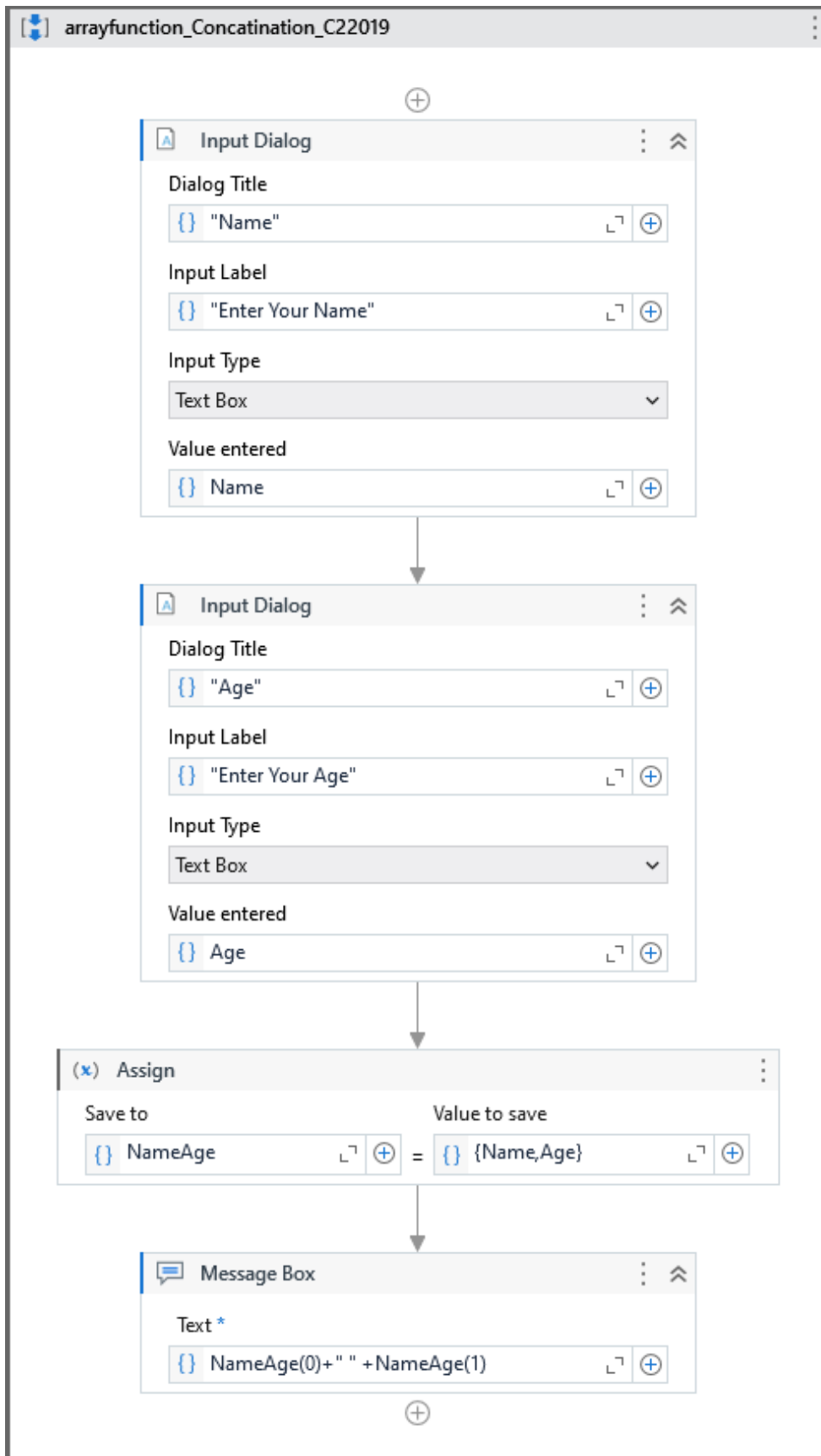


Output:

The screenshot shows the 'Output' window of the UiPath IDE. It displays a list of messages from the bot's execution:

- Debug started for file: arrtostr
- Sort\_Data\_Table execution started
- Vikram;Rushikesh;Lalit;Ranjeet
- Sort\_Data\_Table execution ended in: 00:00:00

**Question2:** Demonstrate array variable with different functions



Name X

Enter Your Name

Ok

Age X

Enter Your Age

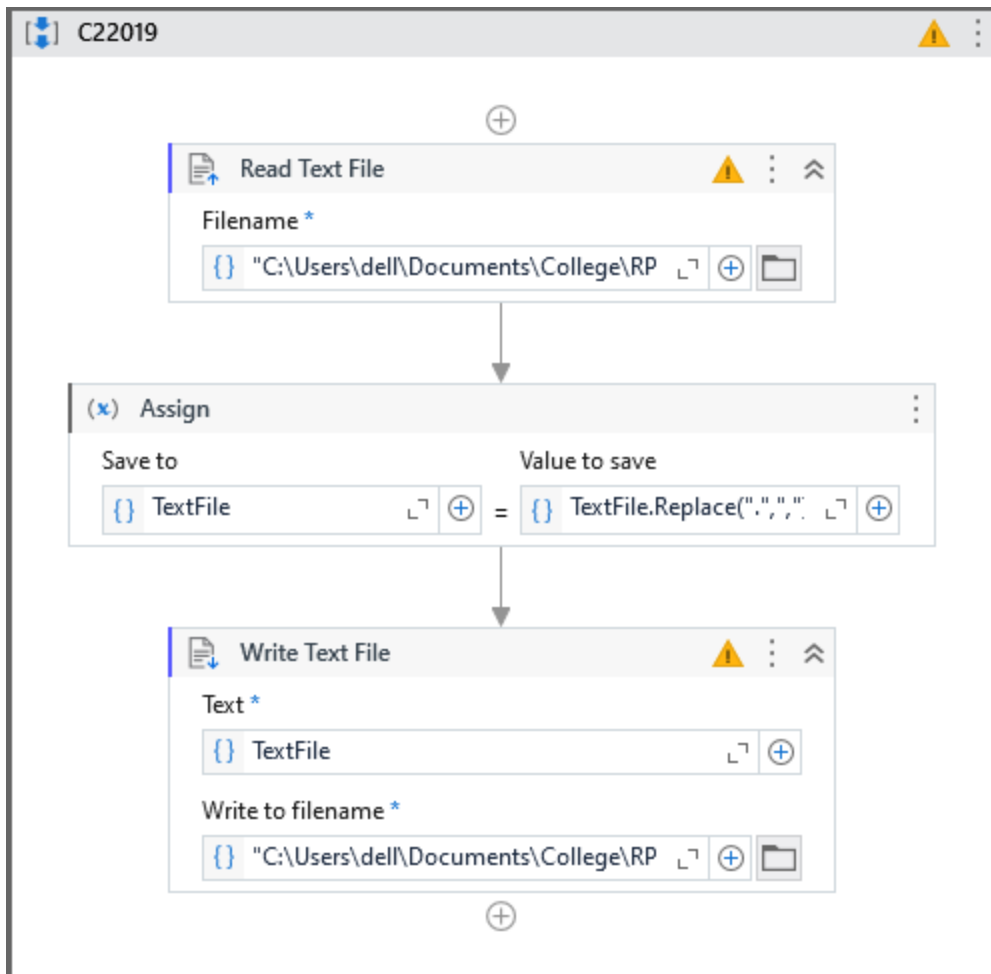
Ok

Message... X

Rushikesh 22

OK


**Question3:** Write a bot to convert text file to Excel file



Text file and converted excel file

Name	Date modified	Type	Size
rpa	6/27/2023 5:22 PM	Text Document	1 KB
rpa	6/27/2023 5:45 PM	Microsoft Excel C...	0 KB

Text file data:

 rpa - Notepad

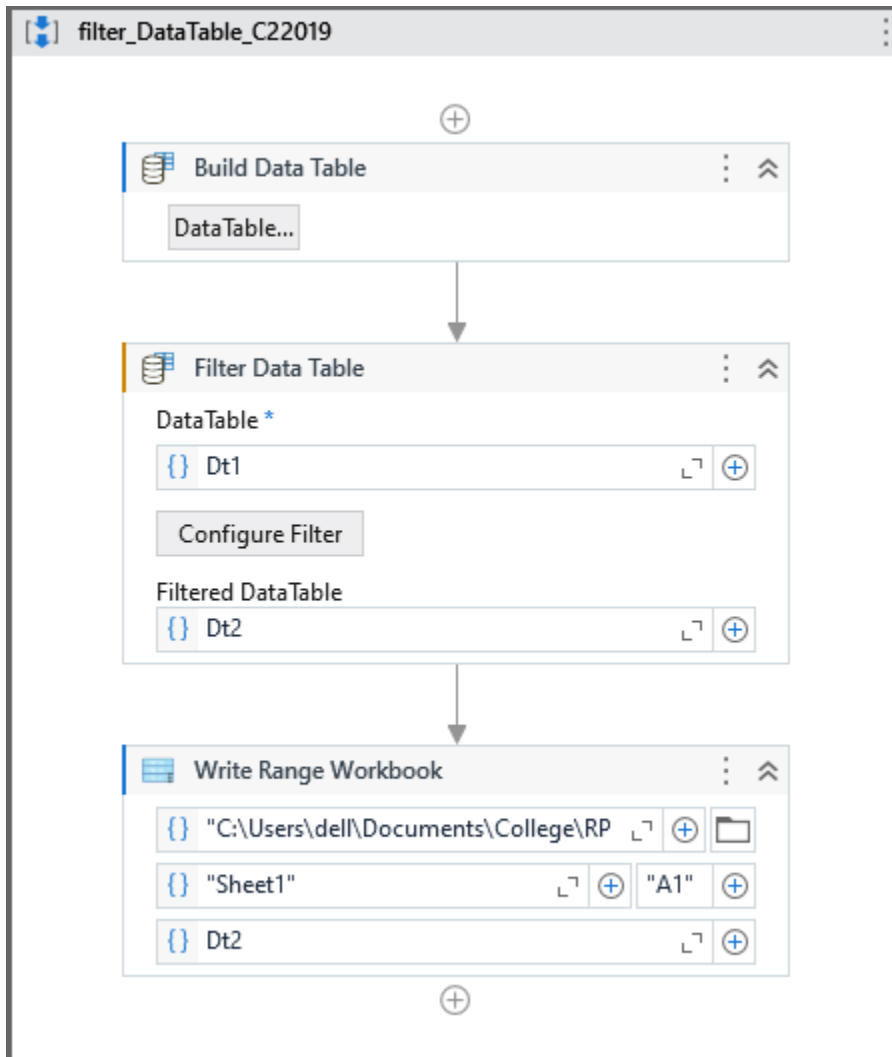
File Edit Format View Help

1, Vikram  
2, Rushikesh  
3, Lalit  
4, Ranjeet  
5, Keshav


Excel file data:





	A	B	C	D	E
1		1 Vikram			
2		2 Rushikesh			
3		3 Lalit			
4		4 Ranjeet			
5		5 Keshav			
6					
7					

**Question4:** Write a bot to apply filter on single data table



Data value:

 Build Data Table — □ ×

	Name (String) 	Location (String) 	Company Name (String) 	ID (Int32) 
×	Vikram	Mumbai	ABC	101
×	Rushikesh	Mumbai	DEF	102
×	Lalit	Mira Road	ABC	103
×	Ranjeet	Andheri	DEF	104
×				

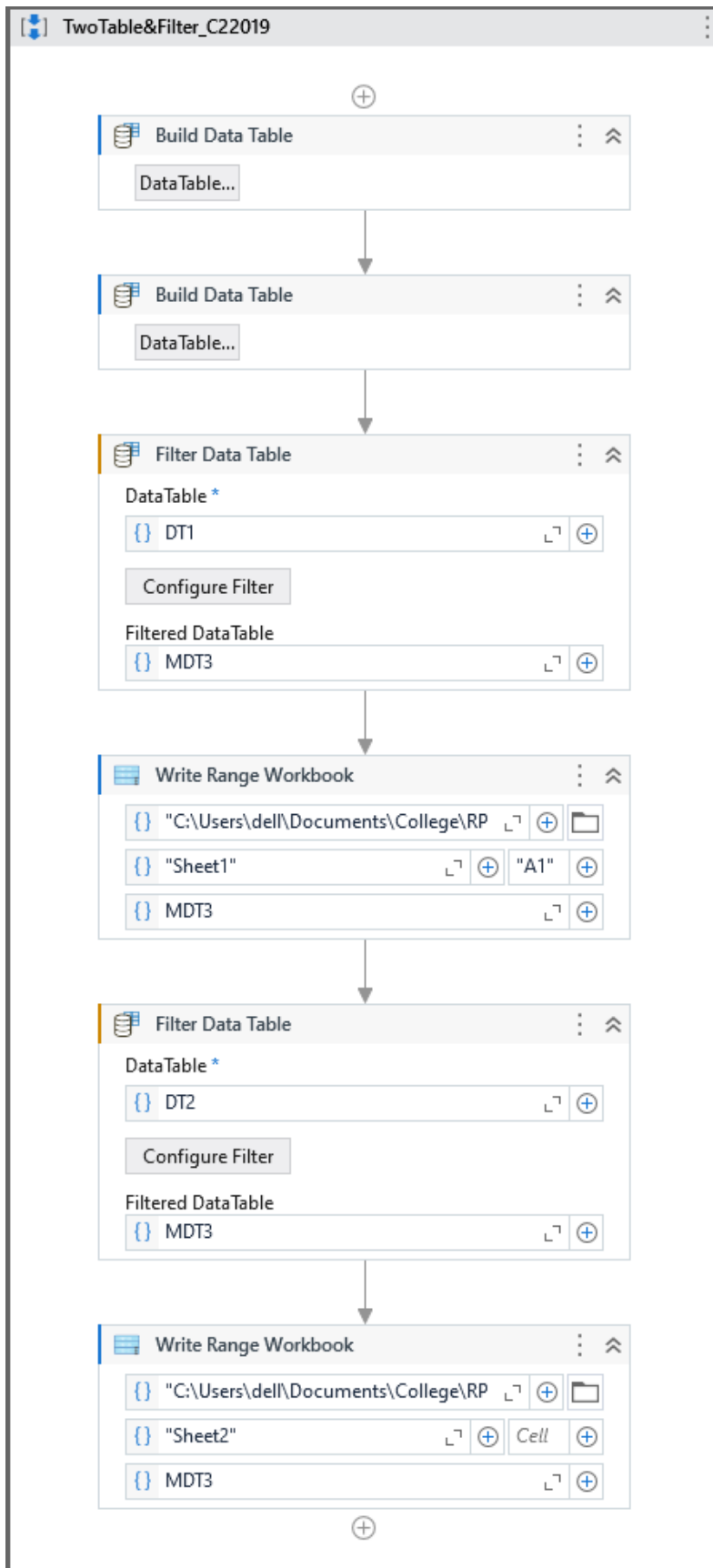
OK Cancel

We apply filter on the location where location is Mumbai.

Output:

	A	B	C	D	E	F
1	Name	Location	Company	ID		
2	Vikram	Mumbai	ABC	101		
3	Rushikesh	Mumbai	DEF	102		
4						
5						
6						

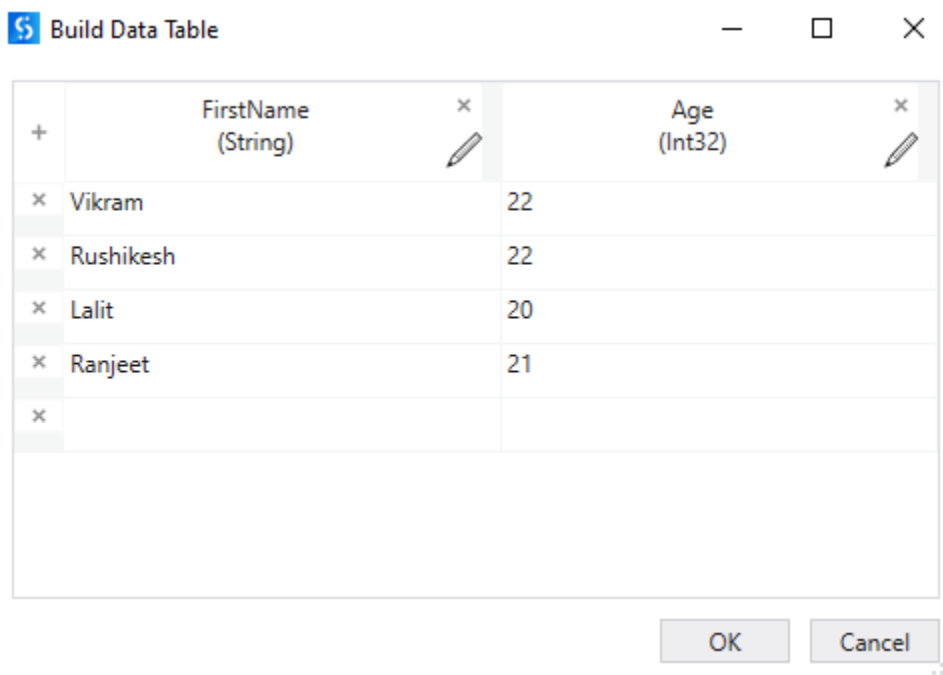
**Question5:** Write a bot to apply filter on two data tables





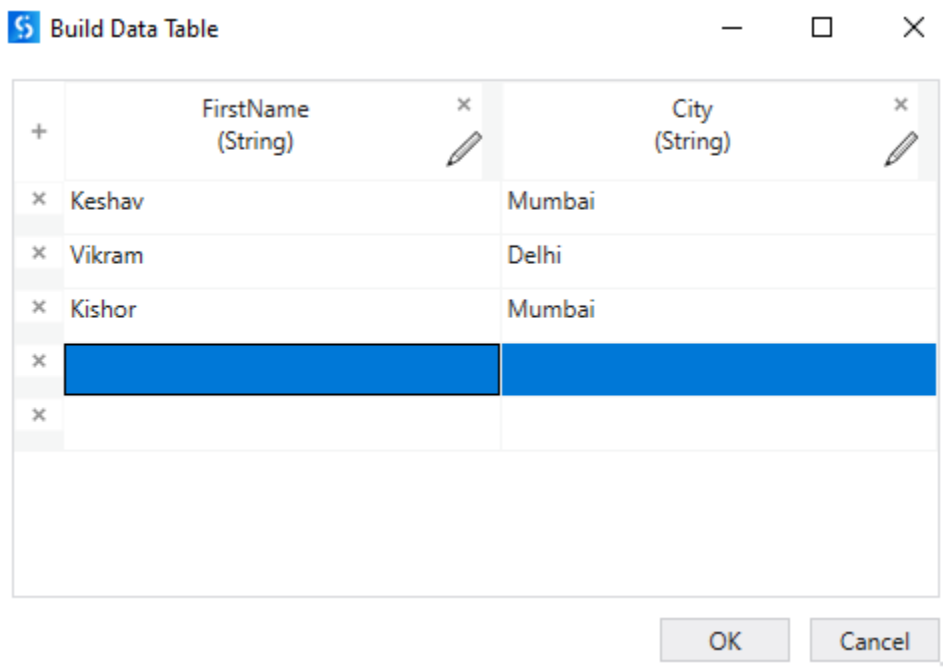
Two respective tables are

Table 1



	FirstName (String)	Age (Int32)
x	Vikram	22
x	Rushikesh	22
x	Lalit	20
x	Ranjeet	21
x		

Table 2:



	FirstName (String)	City (String)
x	Keshav	Mumbai
x	Vikram	Delhi
x	Kishor	Mumbai
x		

Filter data age is 22 and city is Mumbai

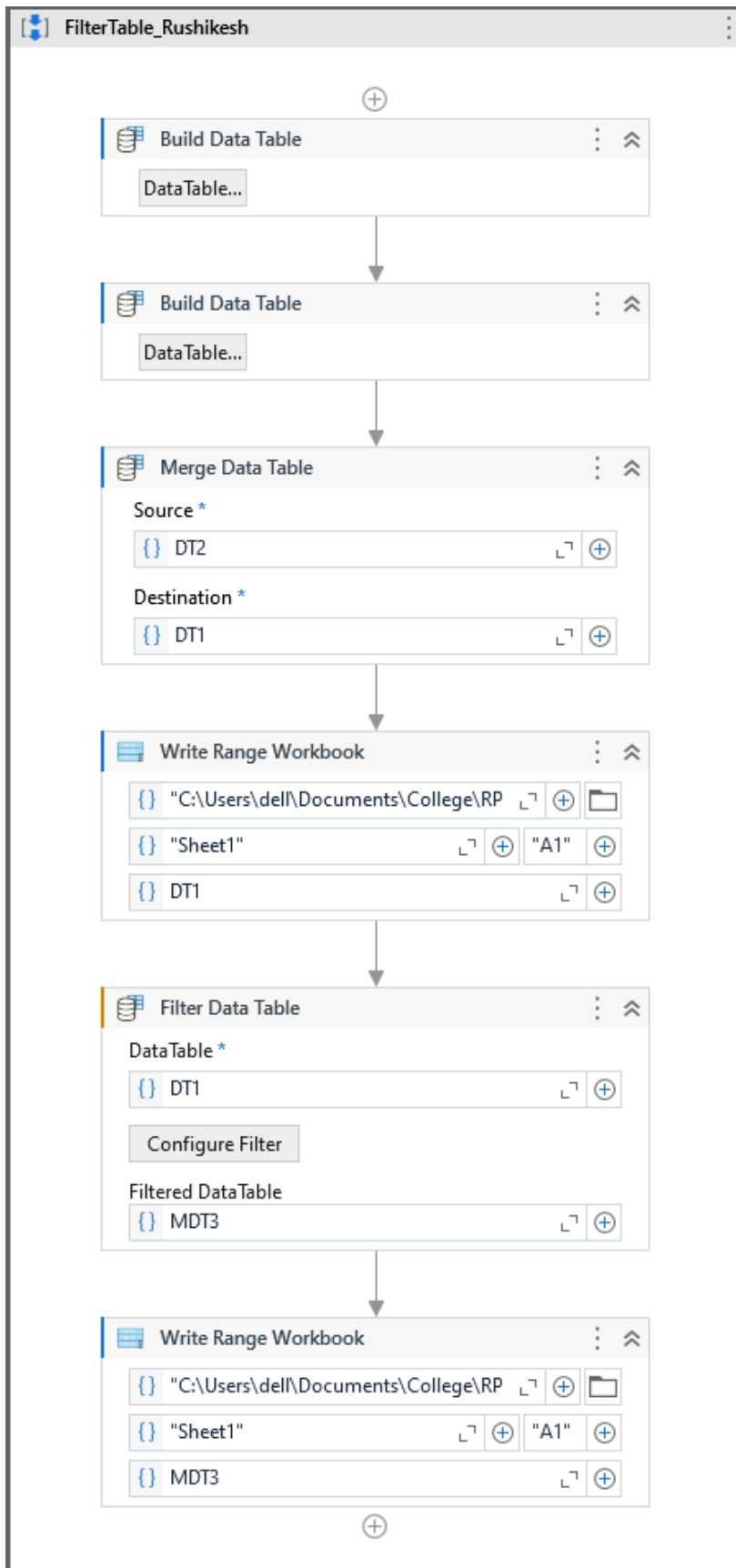
On the sheet"1"

On the sheet"2"

	A	B	C
1	Vikram	22	
2	Rushikesh	22	
3			
4			


	A	B	C
1	Keshav	Mumbai	
2	Kishor	Mumbai	
3			
4			

**Question6:** Write a bot to demonstrate use of data tables - creating two Data Table variables and merging their values together and filtering the unwanted columns out.



Data Tables ----


Table 1:

 Build Data Table — □ ×

+	FirstName (String)	×	Age (Int32)	×
×	Vikram		22	
×	Rushikesh		22	
×	Lalit		20	
×	Ranjeet		21	
×				

OK Cancel

Table 2:

 Build Data Table — □ ×

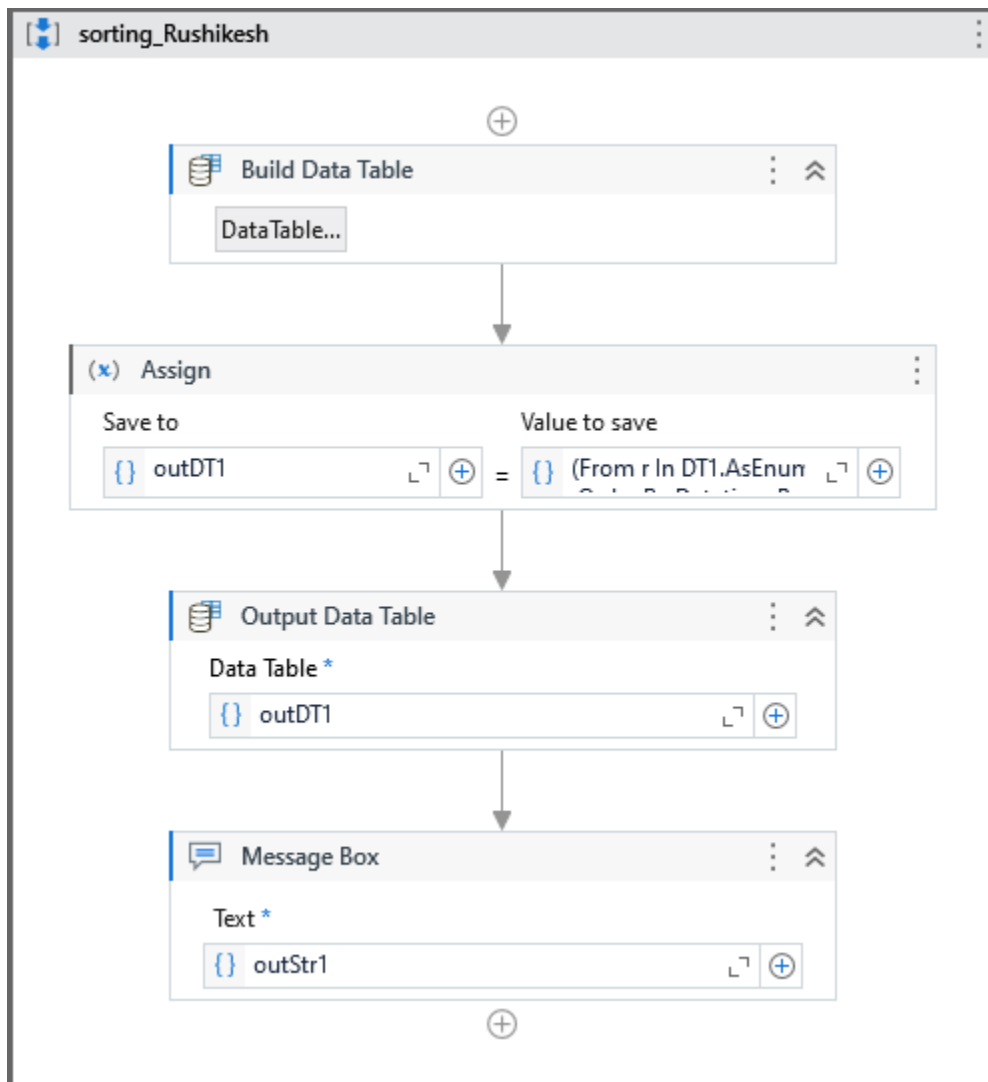
+	FirstName (String)	×	City (String)	×
×	Keshav		Mumbai	
×	Vikram		Delhi	
×	Kishor		Mumbai	
×				
×				

OK Cancel

Merge data and filter on age where age is 22 years

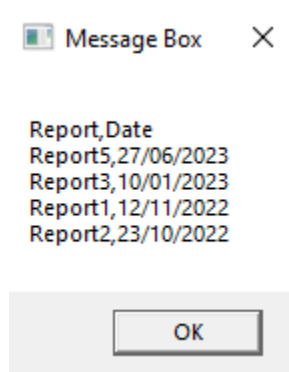
	A	B	C	D	E
1	Vikram	22			
2	Rushikesh	22			
3	Lalit	20			
4	Ranjeet	21			
5	Keshav		Mumbai		
6	Vikram		Delhi		
7	Kishor		Mumbai		
8					

**Question7:** Write a bot to sort data table

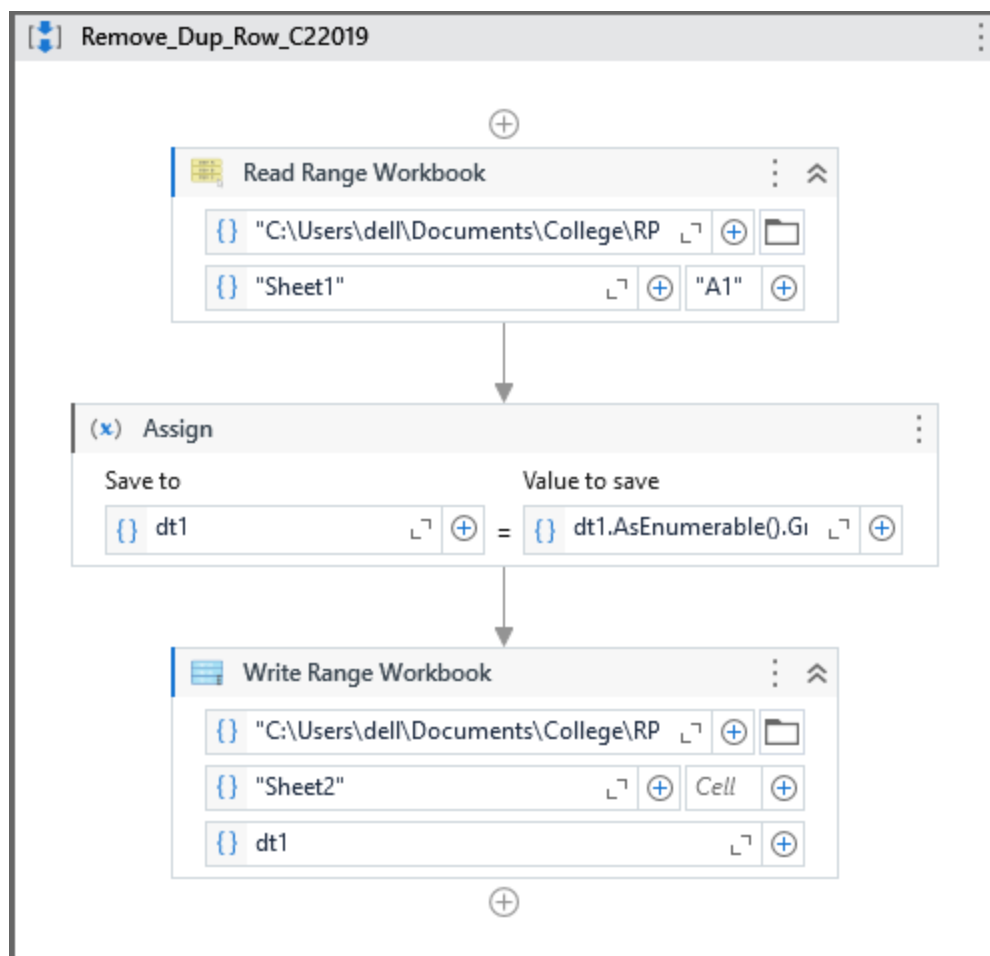


### Table data:

Build Data Table				
	Report (String)		Date (String)	
+				
×	Report1		12/11/2022	
×	Report2		23/10/2022	
×	Report3		10/01/2023	
×	Report5		27/06/2023	
×				

**Output:**

**Question8:** Write a bot to demonstrate following properties - Add data column, Add data row, Clear Data table, Generate Data table from text, Output data table, Remove Data Column, Remove Data row, Remove Duplicate Rows, Get row item, Update row item

**Duplicate rows removing**

Excel sheet before query execute

	A	B	C	D	E	F
1	Name	Class	Math	English	Science	
2	Lalit	10	98	92	87	
3	Ranjeet	10	99	92	99	
4	Vikram	10	87	99	100	
5	Rushikesh	10	90	91	100	
6	Vikram	10	87	99	100	
7						

Apply duplication on the row where name and maths number is same

	A	B	C	D	E	F
1	Lalit	10	98	92	87	
2	Ranjeet	10	99	92	99	
3	Vikram	10	87	99	100	
4	Rushikesh	10	90	91	100	
5						
6						

**Add column**



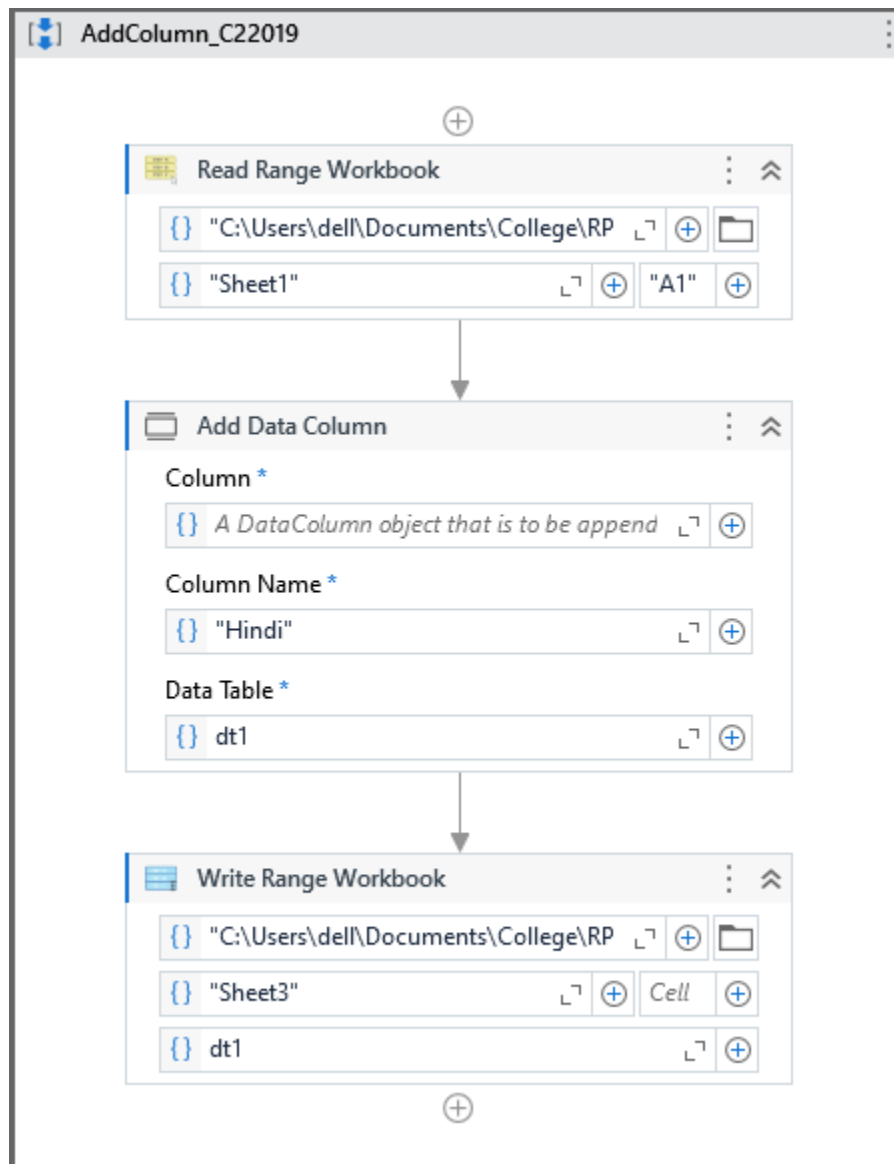


Table before query execute

	A	B	C	D	E
1	Name	Class	Math	English	Science
2	Lalit	10	98	92	87
3	Ranjeet	10	99	92	99
4	Vikram	10	87	99	100
5	Rushikesh	10	90	91	100
6	Vikram	10	87	99	100

Table after query execute

	A	B	C	D	E	F	
1	Name	Class	Math	English	Science	Hindi	
2	Lalit	10	98	92	87		
3	Ranjeet	10	99	92	99		
4	Vikram	10	87	99	100		
5	Rushikesh	10	90	91	100		
6	Vikram	10	87	99	100		
7							
8							

**Add Row**

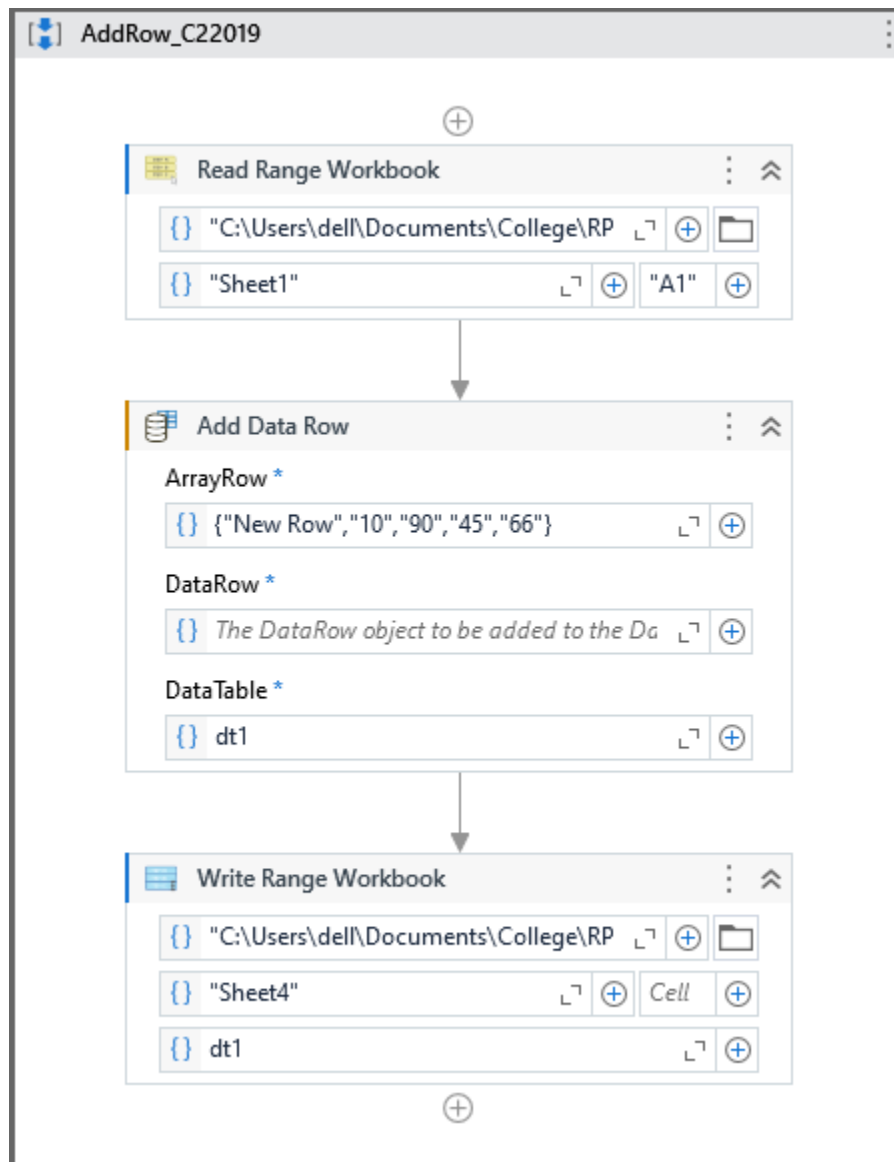


Table before execute bot

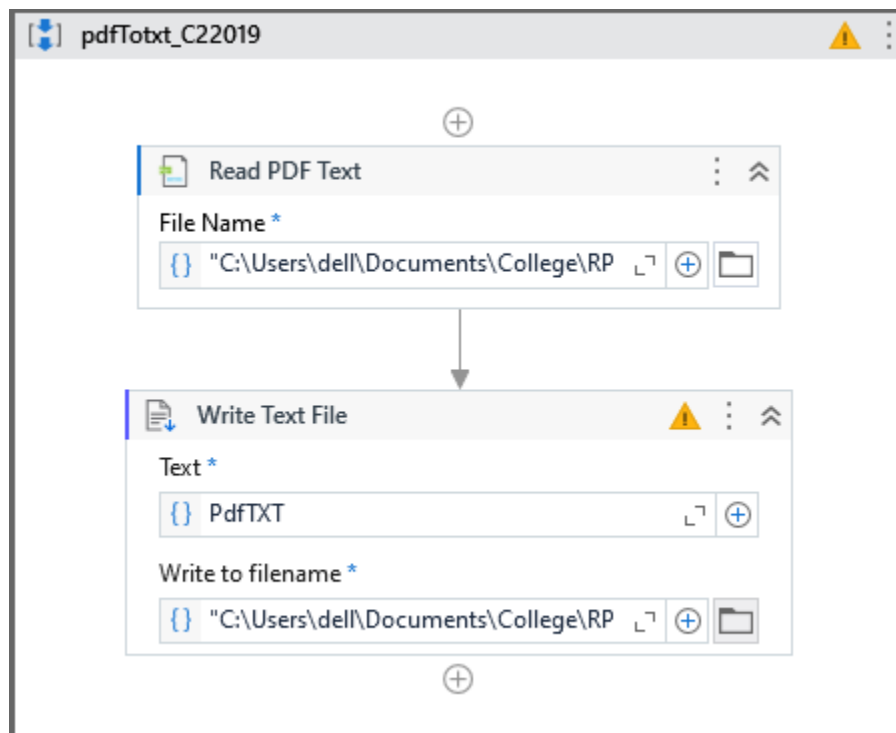
	A	B	C	D	E	F
1	Name	Class	Math	English	Science	
2	Lalit	10	98	92	87	
3	Ranjeet	10	99	92	99	
4	Vikram	10	87	99	100	
5	Rushikesh	10	90	91	100	
6	Vikram	10	87	99	100	
7						
8						

Table after execute bot

	A	B	C	D	E	F
1	Name	Class	Math	English	Science	
2	Lalit	10	98	92	87	
3	Ranjeet	10	99	92	99	
4	Vikram	10	87	99	100	
5	Rushikesh	10	90	91	100	
6	Vikram	10	87	99	100	
7	New Row	10	90	45	66	
8						





## Category 5

**Question1:** Write a bot to convert PDF file into TXT file








File before bot Execute

PC > Documents > College > RPA

Name	Date modified	Type	Size
 Book1	6/28/2023 4:36 PM	Microsoft Excel W...	9 KB
 dummy1	6/28/2023 4:57 PM	Microsoft Edge P...	13 KB
 rpa	6/27/2023 5:49 PM	Microsoft Excel C...	0 KB
 rpa	6/27/2023 5:48 PM	Text Document	1 KB

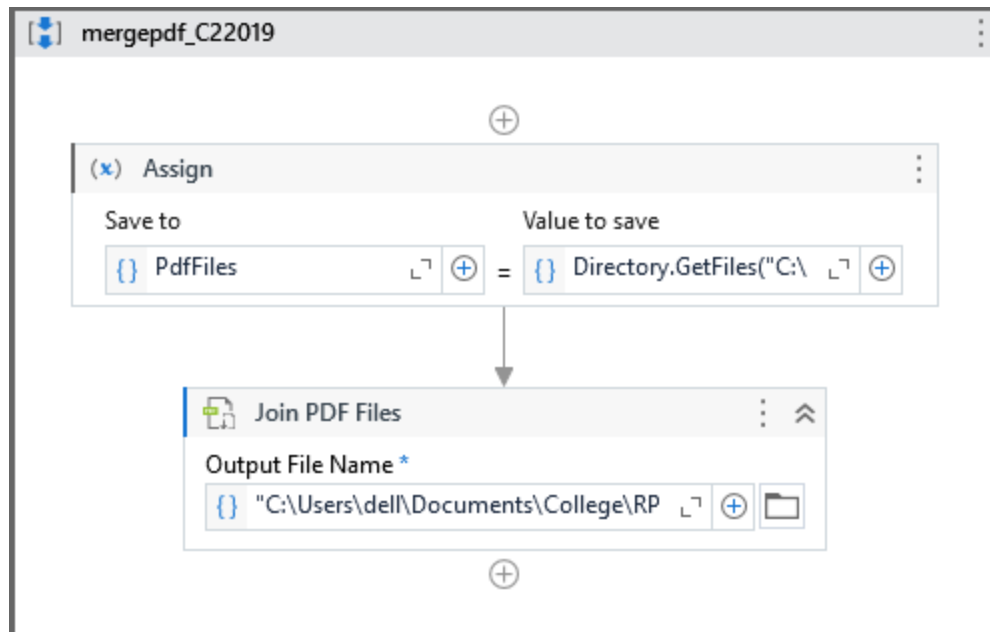
File after bot execute

is PC > Documents > College > RPA

Name	Date modified	Type	Size
 Book1	6/28/2023 4:36 PM	Microsoft Excel W...	9 KB
 converted	6/28/2023 5:54 PM	Text Document	0 KB
 dummy1	6/28/2023 4:57 PM	Microsoft Edge P...	13 KB
 rpa	6/27/2023 5:49 PM	Microsoft Excel C...	0 KB
 rpa	6/27/2023 5:48 PM	Text Document	1 KB

**Question2:** Write a bot to demonstrate PDF package with following actions: Export PDF page as image, join PDF files.

**Join pdf**



Files before merge

This PC > Documents > College > RPA

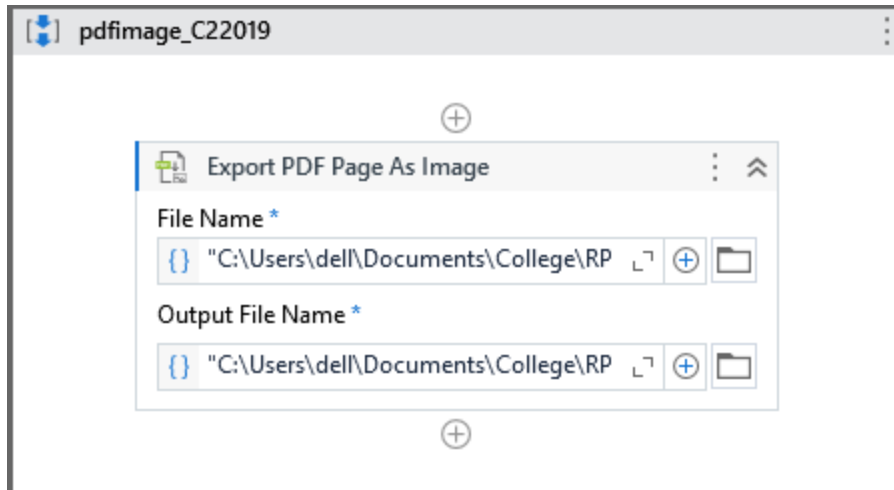
Name	Date modified	Type	Size
Book1	6/28/2023 4:36 PM	Microsoft Excel W...	9 KB
dummy1	6/28/2023 4:57 PM	Microsoft Edge P...	13 KB
dummy2	6/28/2023 4:57 PM	Microsoft Edge P...	8 KB
dummy3	6/28/2023 4:58 PM	Microsoft Edge P...	3 KB
rpa	6/27/2023 5:49 PM	Microsoft Excel C...	0 KB
rpa	6/27/2023 5:48 PM	Text Document	1 KB

After merging pdf:

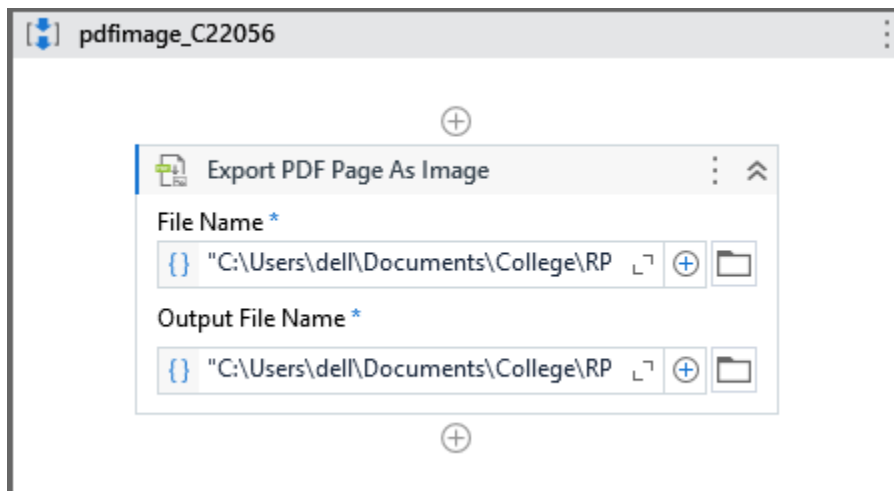
This PC > Documents > College > RPA

Name	Date modified	Type	Size
Book1	6/28/2023 4:36 PM	Microsoft Excel W...	9 KB
dummy1	6/28/2023 4:57 PM	Microsoft Edge P...	13 KB
dummy2	6/28/2023 4:57 PM	Microsoft Edge P...	8 KB
dummy3	6/28/2023 4:58 PM	Microsoft Edge P...	3 KB
Mergepdf	6/28/2023 5:31 PM	Microsoft Edge P...	16 KB
rpa	6/27/2023 5:49 PM	Microsoft Excel C...	0 KB
rpa	6/27/2023 5:48 PM	Text Document	1 KB

Pdf to image



Pdf to image








File before run the bot

This PC > Documents > College > RPA					
	Name	Date modified	Type	Size	
ts	Book1	6/28/2023 4:36 PM	Microsoft Excel W...	9 KB	
\pp	dummy1	6/28/2023 4:57 PM	Microsoft Edge P...	13 KB	
\vikram	rpa	6/27/2023 5:49 PM	Microsoft Excel C...	0 KB	
Office	rpa	6/27/2023 5:48 PM	Text Document	1 KB	

## File after bot run

📁 > This PC > Documents > College > RPA

	Name	Date modified	Type	Size
ts	 Book1	6/28/2023 4:36 PM	Microsoft Excel W...	9 KB
App	 dummy1	6/28/2023 4:57 PM	Microsoft Edge P...	13 KB
Vikram	 pdfimage	6/28/2023 5:39 PM	JPG File	38 KB
	 rpa	6/27/2023 5:49 PM	Microsoft Excel C...	0 KB
Office	 rpa	6/27/2023 5:48 PM	Text Document	1 KB
z_App				

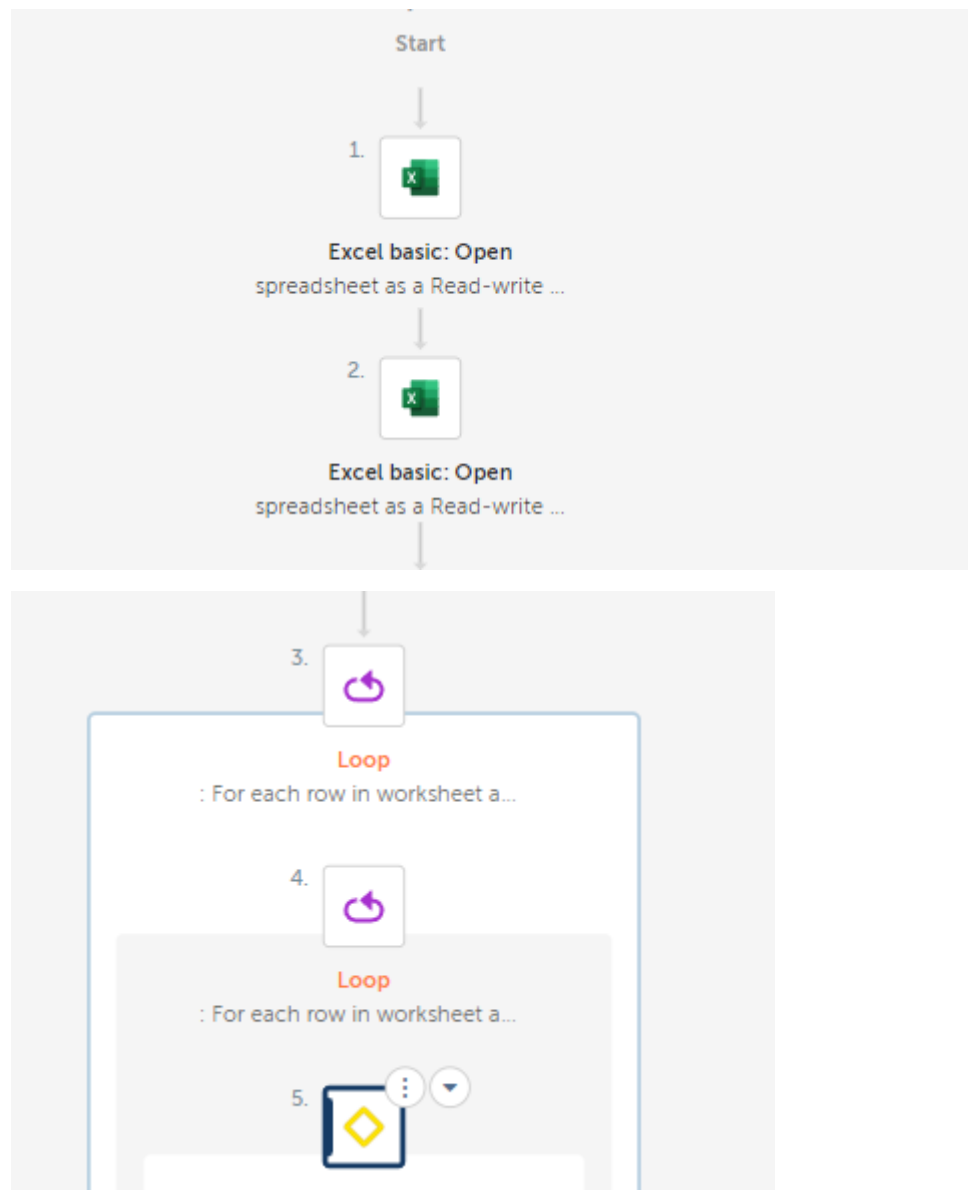


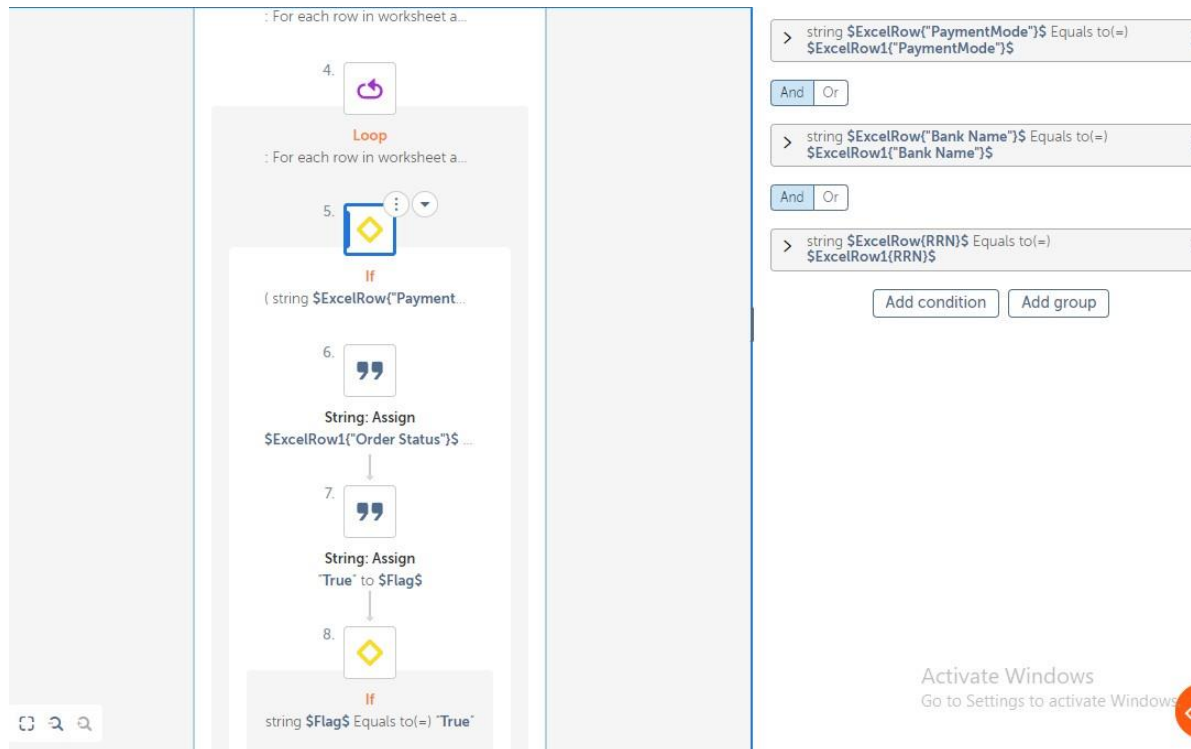
# AA all Bots

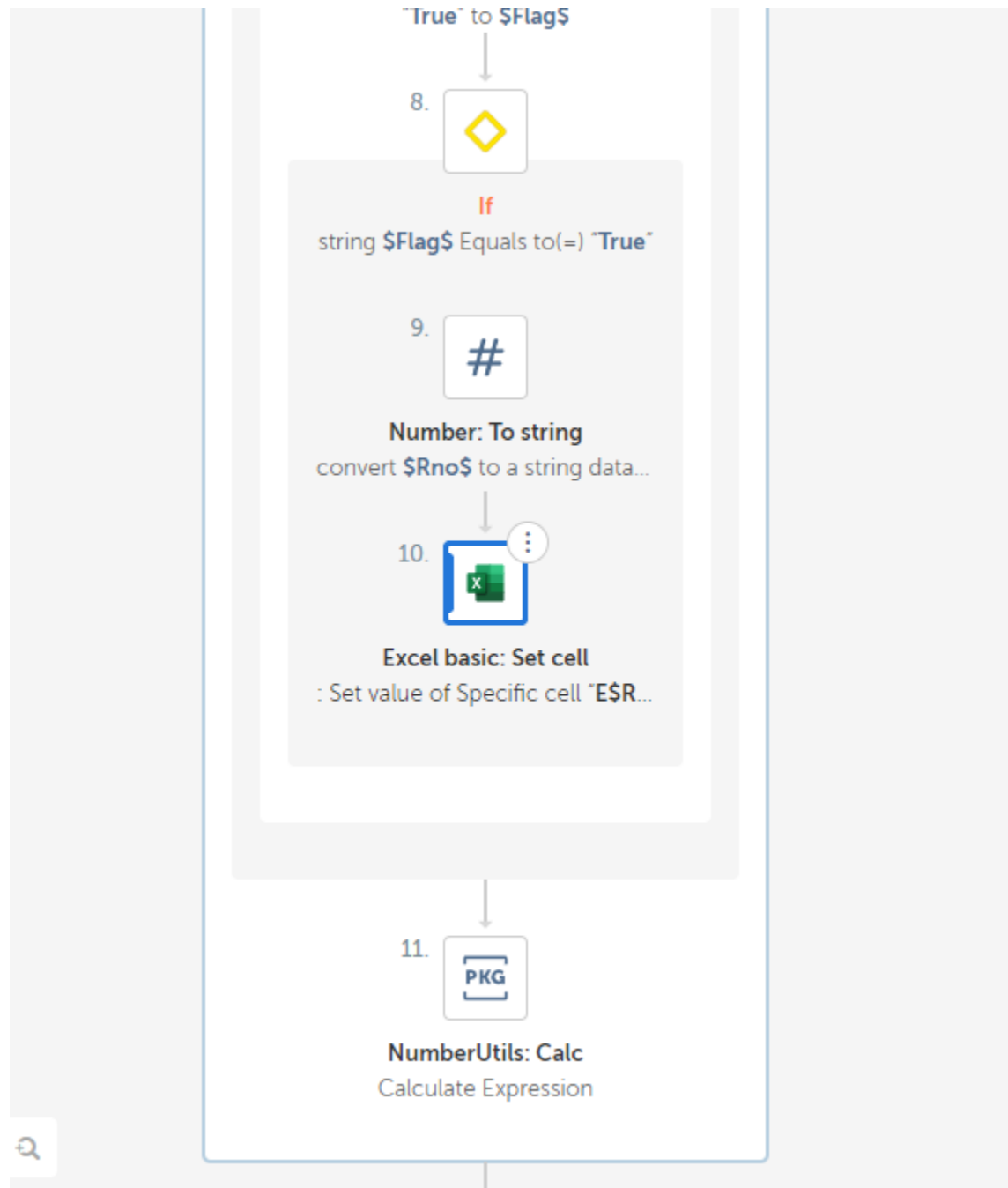
## Category 4

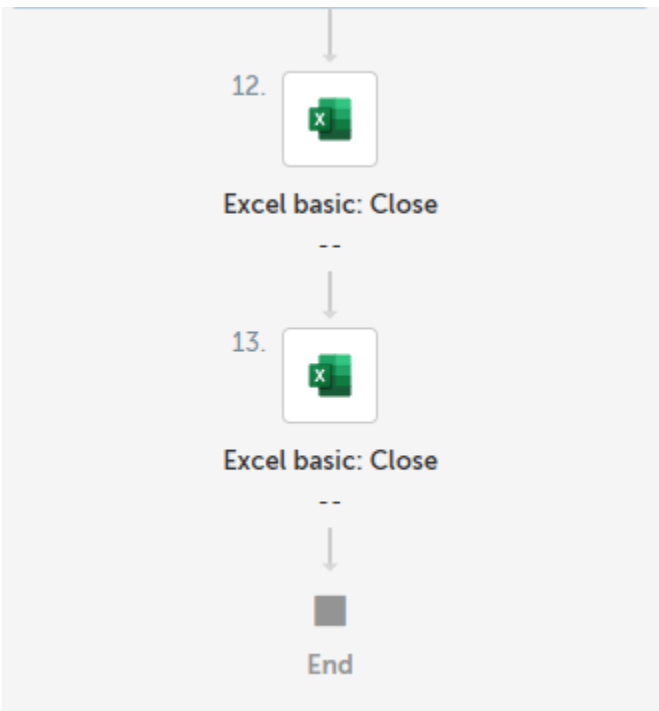
### 1. Bot for Excel operations : Compare and Update Excel Sheet

Screenshot :



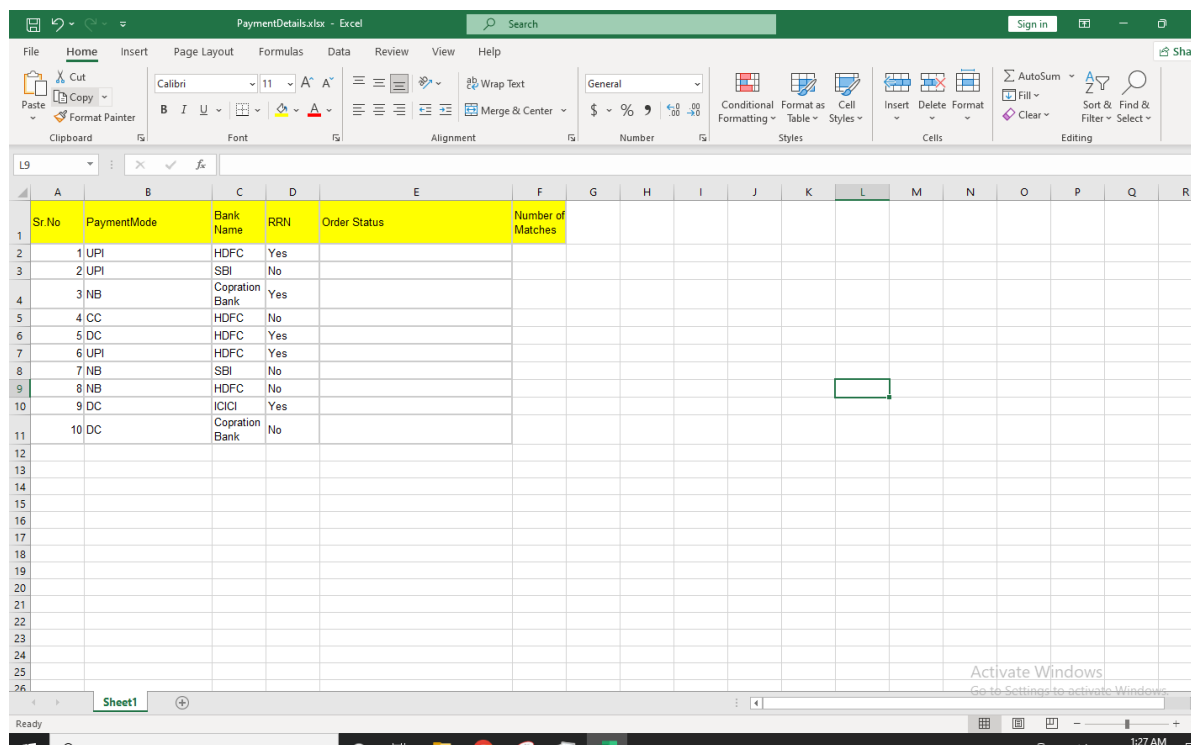






**Output :**

**Files Before**



The screenshot shows the Microsoft Excel interface with the file 'PaymentDetails.xlsx' open. The ribbon is set to 'Home'. The spreadsheet contains a table with the following data:

Sr.No	PaymentMode	Bank Name	RRN	Order Status	Number of Matches
1	UPI	HDFC	Yes		
2	UPI	SBI	No		
3	NB	Copration Bank	Yes		
4	CC	HDFC	No		
5	DC	HDFC	Yes		
6	UPI	HDFC	Yes		
7	NB	SBI	No		
8	NB	HDFC	No		
9	DC	ICICI	Yes		
10	DC	Copration Bank	No		

The status bar at the bottom indicates 'Ready' and 'Sheet1' is selected. A watermark 'Activate Windows' is visible in the bottom right corner.

PaymentStatus.xlsx - Excel

File Home Insert Page Layout Formulas Data Review View Help

Clipboard Font Alignment Number Styles Cells Editing

PaymentMode

Sr No	Payment Mode	Bank Name	Gate Way	RRN	Order Status
1	UPI	HSBC	HSBC	Yes	Order Conformed
2	UPI	HSBC	Paytm	Yes	Order Conformed
3	UPI	HSBC	PPBEX	Yes	Order Conformed
4	UPI	HSBC	HSBCC	Yes	Order Conformed
5	UPI	HSBC	HSBC	No	Order Conformed
6	UPI	HSBC	Paytm Bank	No	Order Pending - from bank side
7	UPI	HSBC	Paytm Payment Bank	No	Order Pending - from bank side
8	UPI	SBI	HSBC	Yes	Order Pending - from bank side
9	UPI	SBI	PPBEX	Yes	Order Pending - from bank side
10	UPI	SBI	HSBCC	No	Order Pending - from bank side
11	UPI	SBI	HSBC	Yes	Order Pending - from bank side
12	UPI	ICICI	Paytm Payment Bank	No	Order Pending - from bank side
13	UPI	Coproration Bank	Non HSBC	Yes	Order Pending - from bank side
14	UPI	Coproration Bank	Non HSBC	No	Order Pending - from ecommerce site
15	NB	ICICI	-	Yes	Order Pending - from ecommerce site
16	NB	HSBC	-	Yes	Order Pending - from ecommerce site
17	NB	SBI	-	No	Order Pending - from ecommerce site
18	DC	HSBC	-	Yes	Order Pending - from ecommerce site
19	DC	SBI	-	No	Order Pending - from ecommerce site
20	DC	HSBC	-	No	Order Pending - from

Activate Windows  
Go to Settings to activate Windows

Ready

Type here to search

1:27 AM  
7/1/2023

## After Automation Status is Updated

PaymentDetails.xlsx - Excel

File Home Insert Page Layout Formulas Data Review View Help

Clipboard Font Alignment Number Styles Cells Editing

RRN

Sr No	PaymentMode	Bank Name	RRN	Order Status	Number of Matches
1	UPI	HDFC	Yes		
2	UPI	SBI	No	Order Pending - from bank side	
3	NB	Coproration Bank	Yes	Order Pending - from bank side	
4	CC	HDFC	No	Order Pending - from bank side	
5	DC	HDFC	Yes	Order Pending - from bank side	
6	UPI	HDFC	Yes	Order Pending - from bank side	
7	NB	SBI	No	Order Pending - from ecommerce site	
8	NB	HDFC	No	Order Pending - from ecommerce site	
9	DC	ICICI	Yes	Order Pending - from ecommerce site	
10	DC	Coproration Bank	No	Order Pending - from ecommerce site	

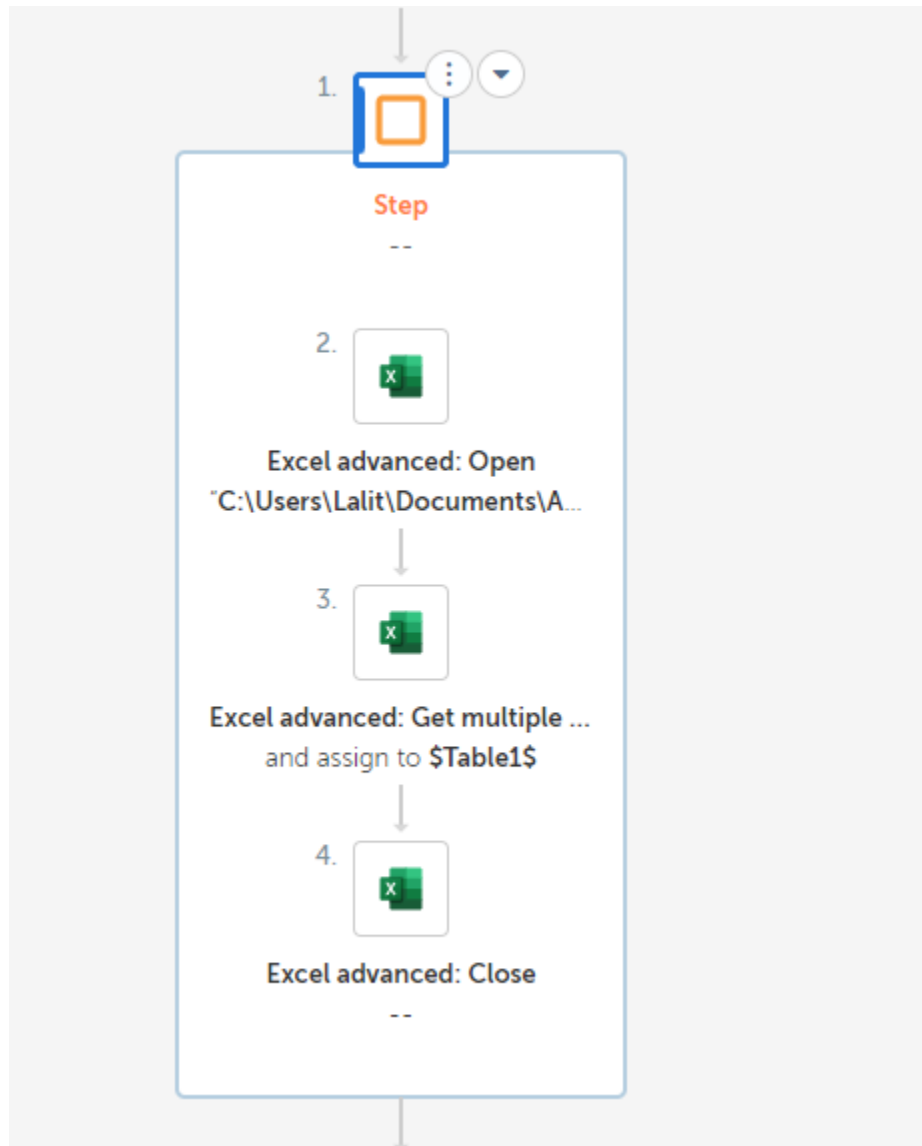
Activate Windows  
Go to Settings to activate Windows

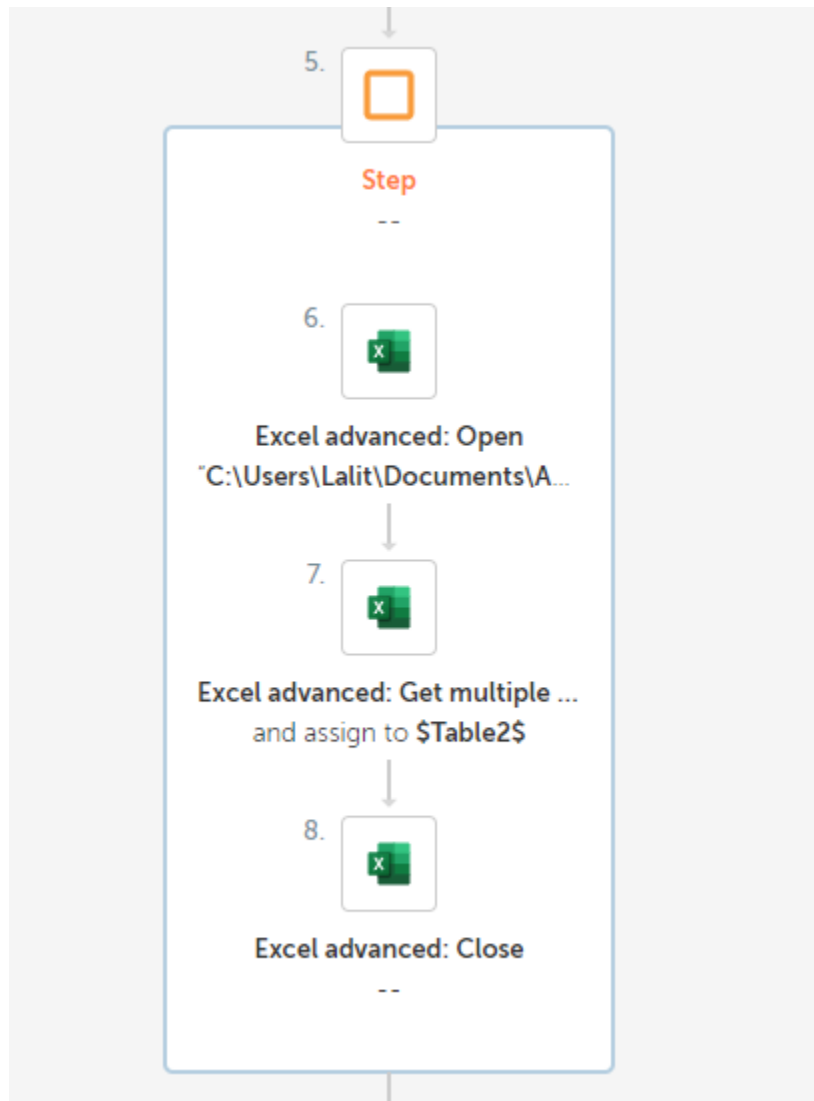
Ready

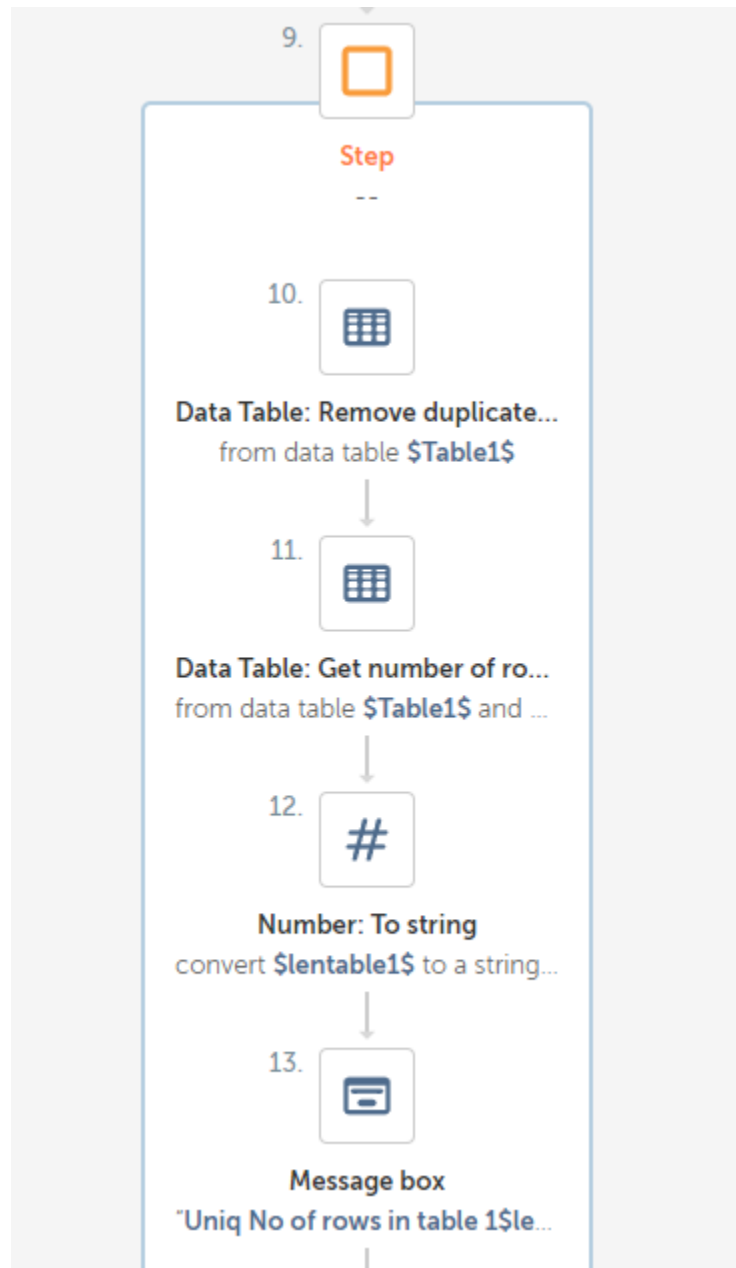
100%

2. Bot to demonstrate Data Table Package with Excel/ Advanced Excel package

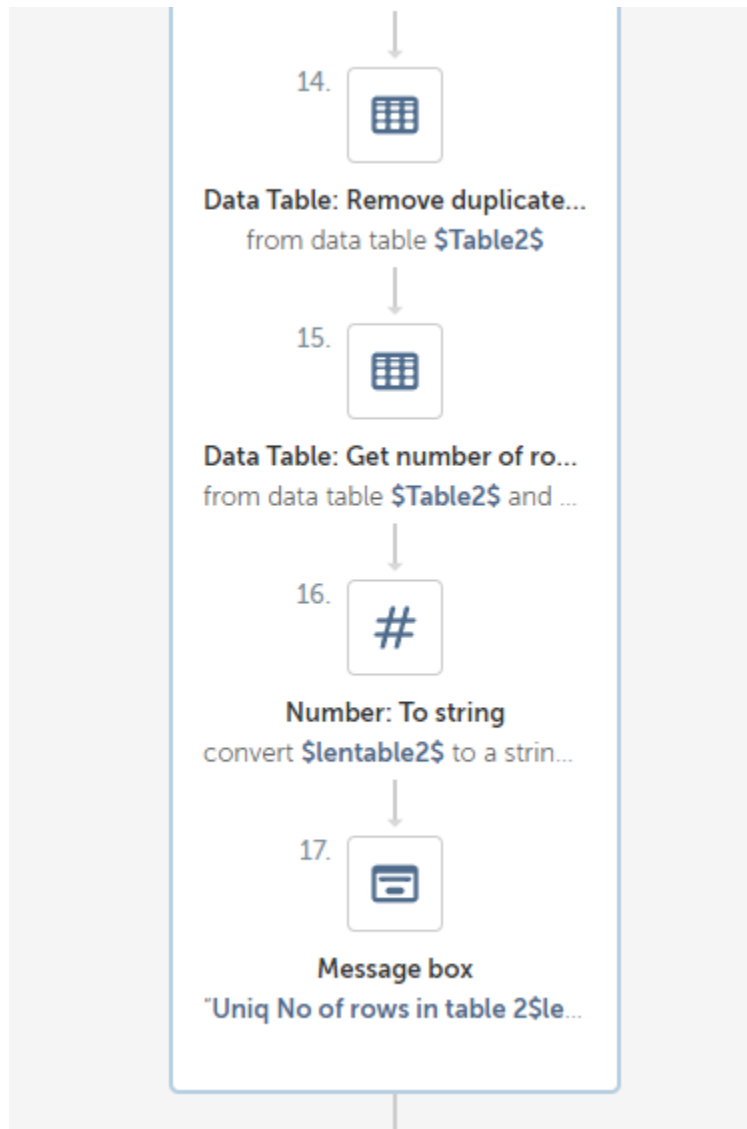
Screenshot :



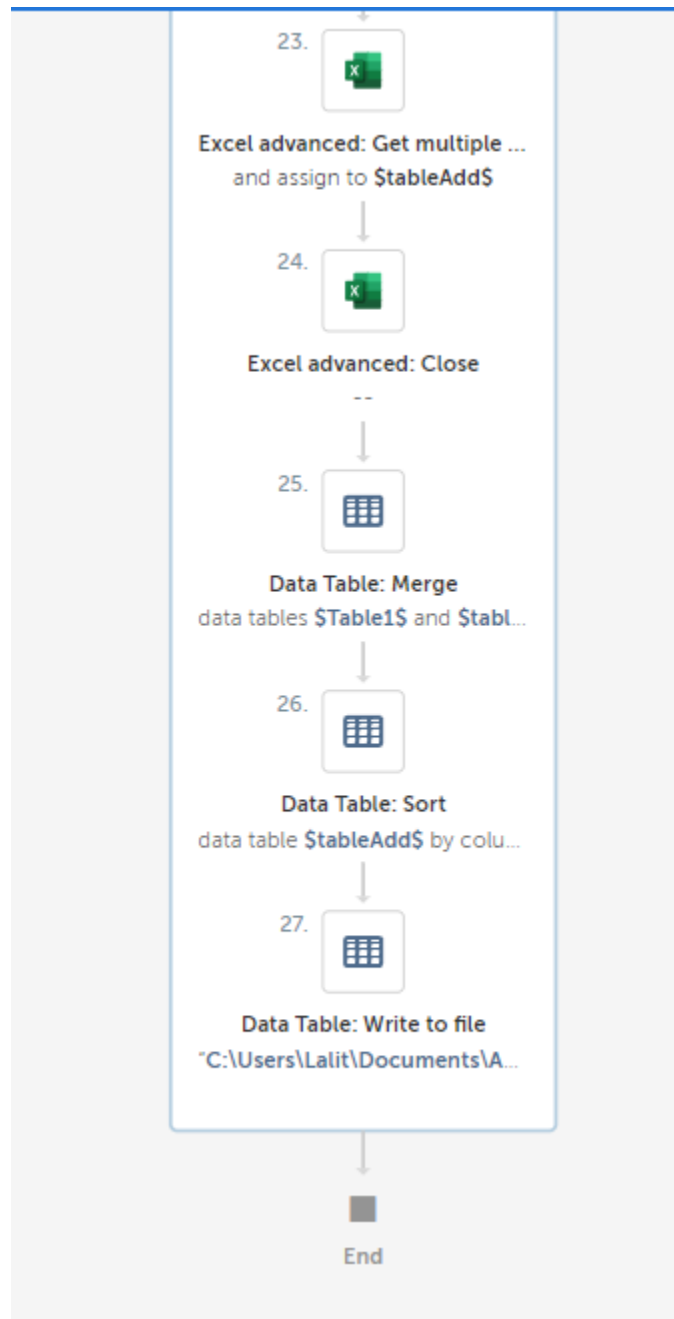




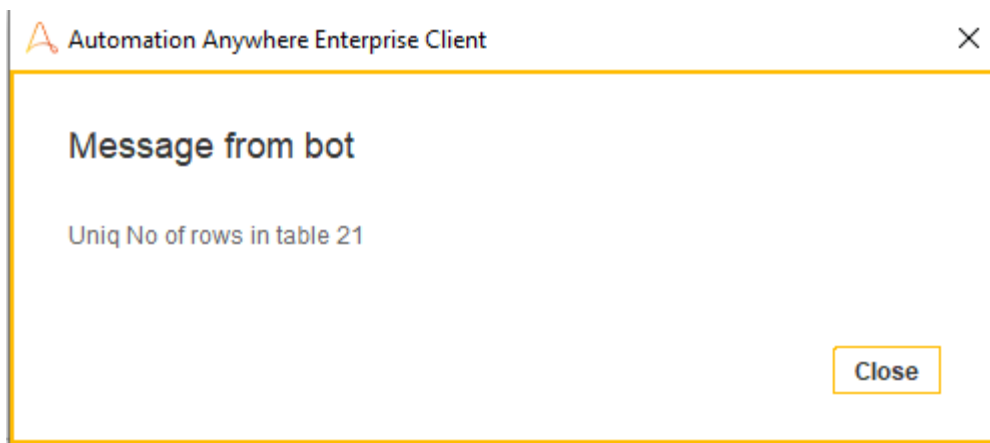
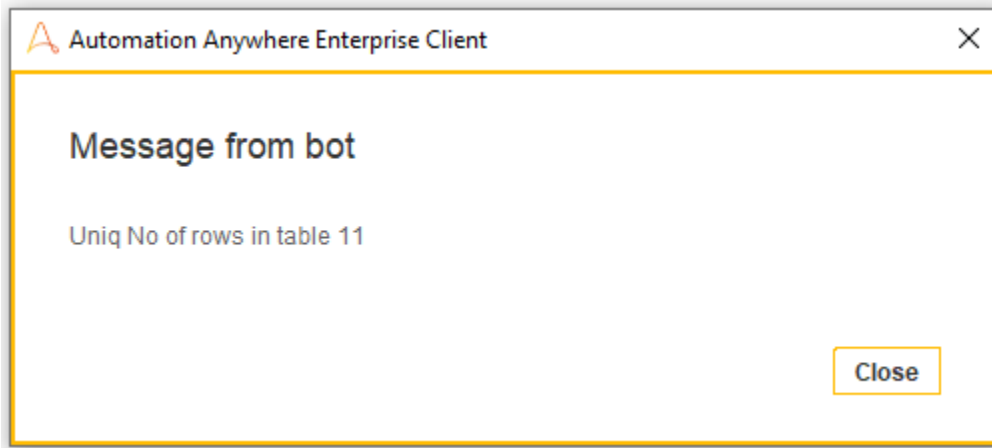








**Output :**



Studentinnerjoin.csv - Excel

File Home Insert Page Layout Formulas Data Review View Help

Clipboard Font Alignment Number Styles Cells Editing

Font: Calibri, 11, A<sup>+</sup>, A<sup>-</sup>, B, I, U, Color, Background Color, Text Color

Alignment: Wrap Text, Merge & Center, Text Alignment, Orientation, Indentation

Number: General, Currency, Percentage, Fraction, Decimals, Thousands Separator, Comma Separator

Styles: Conditional Formatting, Format as Table, Cell Styles

Cells: Insert, Delete, Format, Fill, Clear

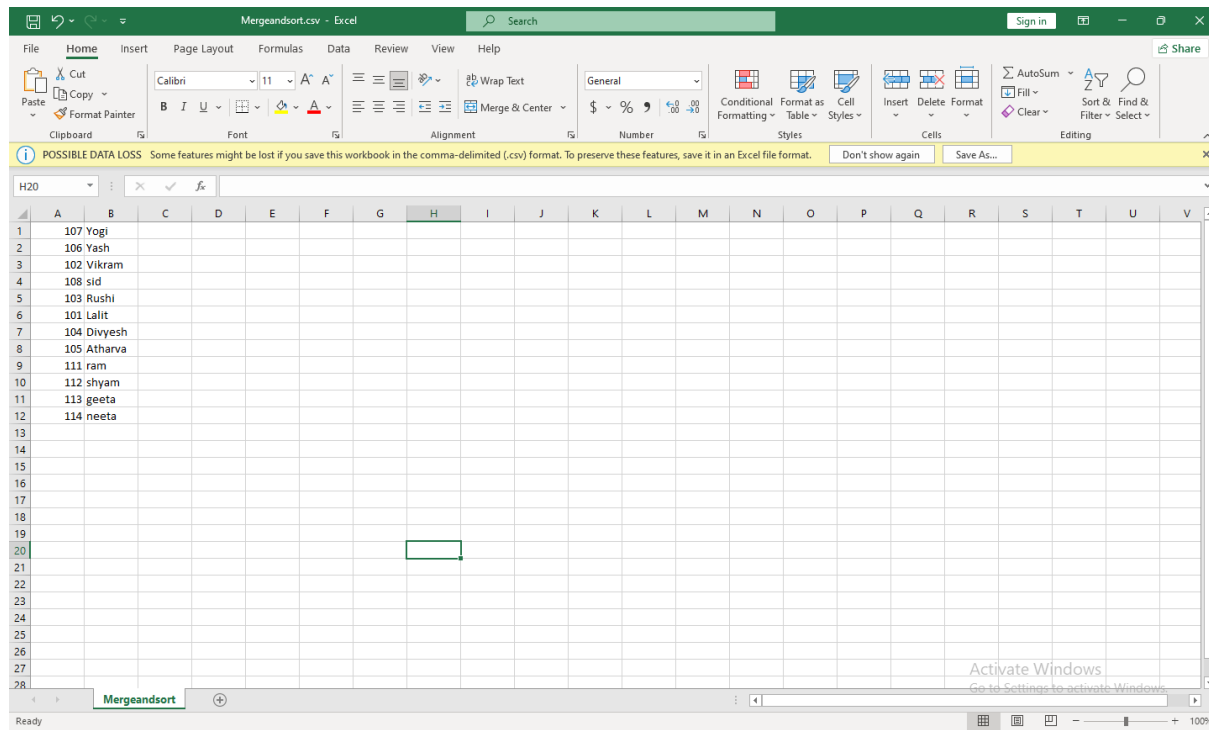
Editing: AutoSum, Fill, Sort & Filter, Find & Select

POSSIBLE DATA LOSS Some features might be lost if you save this workbook in the comma-delimited (.csv) format. To preserve these features, save it in an Excel file format. Don't show again Save As...

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1	RollNo	Name	Address																			
2	101	Lalit	Mira Road																			
3	102	Vikram	Malad																			
4	103	Rushi	Mahim																			
5	104	Divyesh	Andheri																			
6	105	Atharva	Marol																			
7	106	Yash	Khar																			
8	107	Yogi	Thane																			
9	108	sid	Dahisar																			

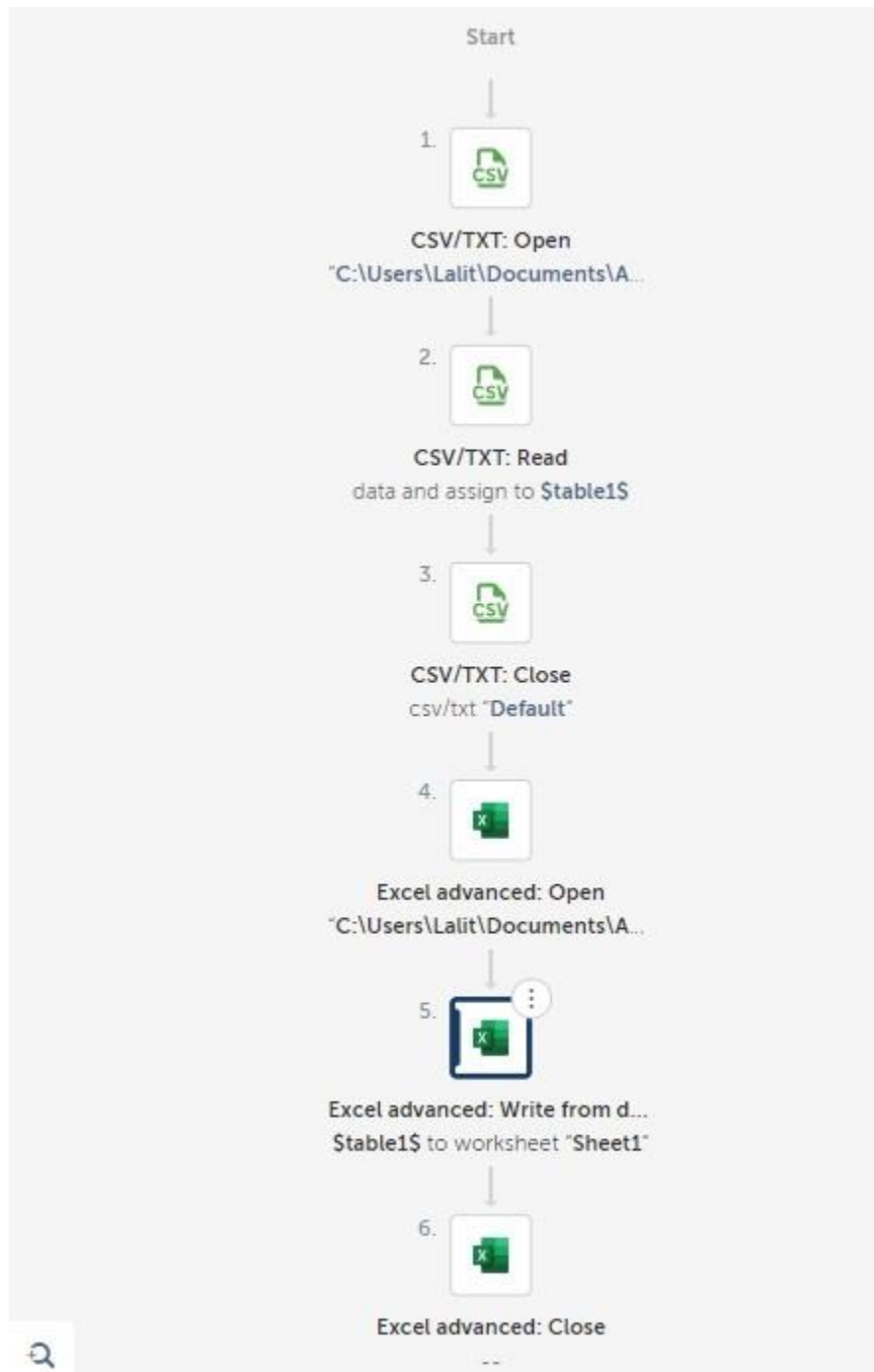
Studentinnerjoin

Activate Windows  
Go to Settings to activate Windows

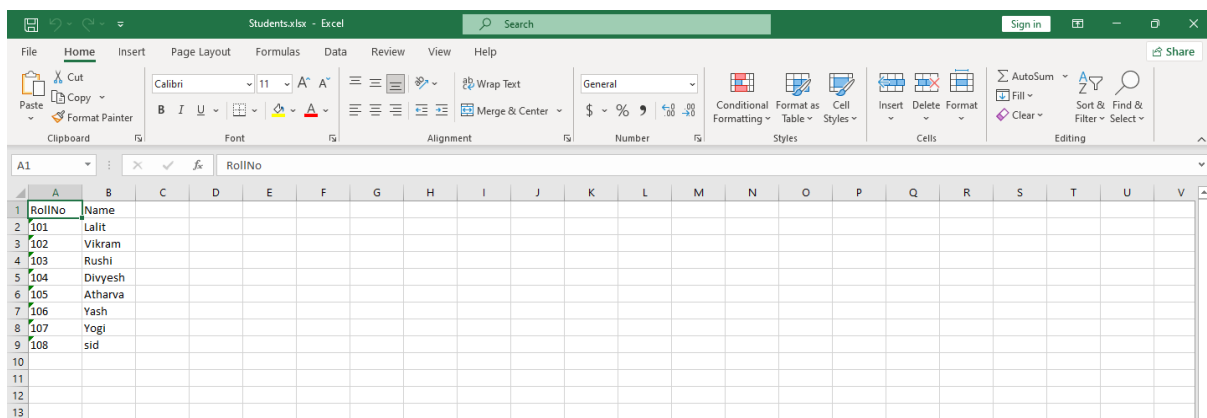
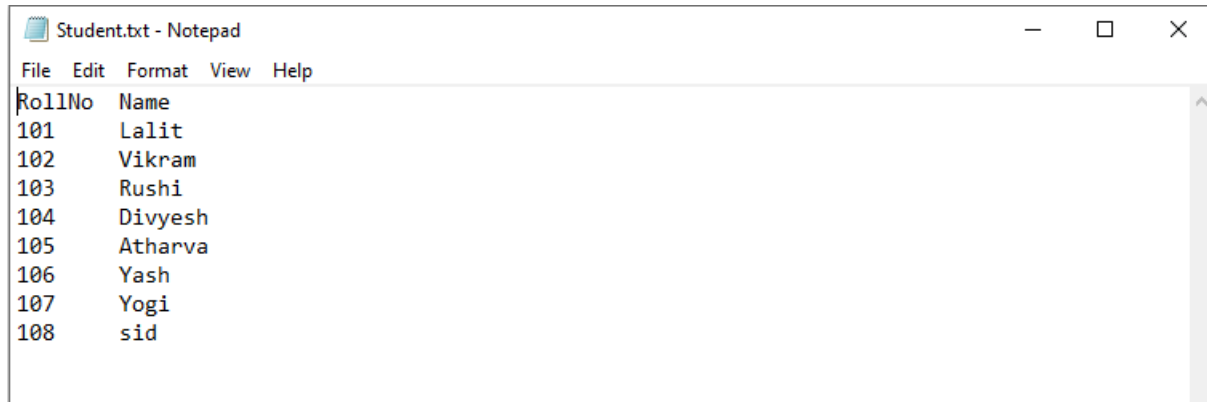


### 3. Bot To copy data from TXT file and write it into Excel

Screenshot :

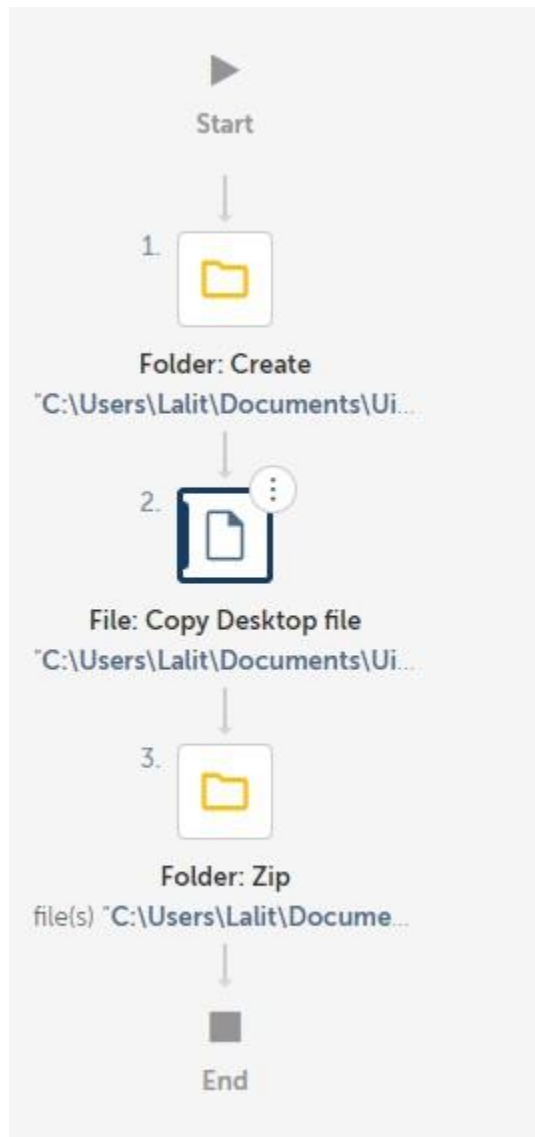


**Output :**

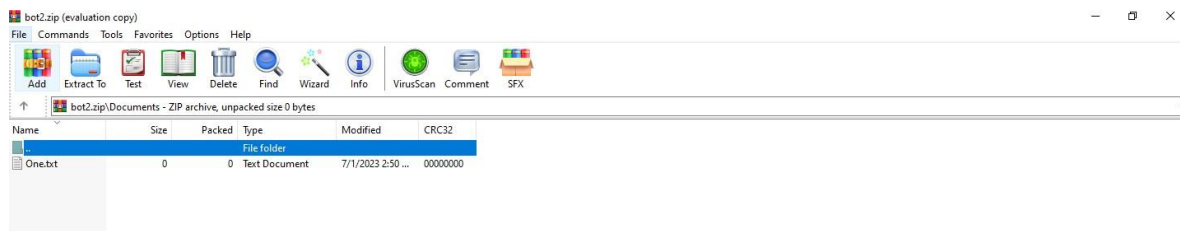


**4. Bot to copy files from one folder to another (Task:Select source folder to copy, Create destination folder, Copy files, Zip the copied files)**

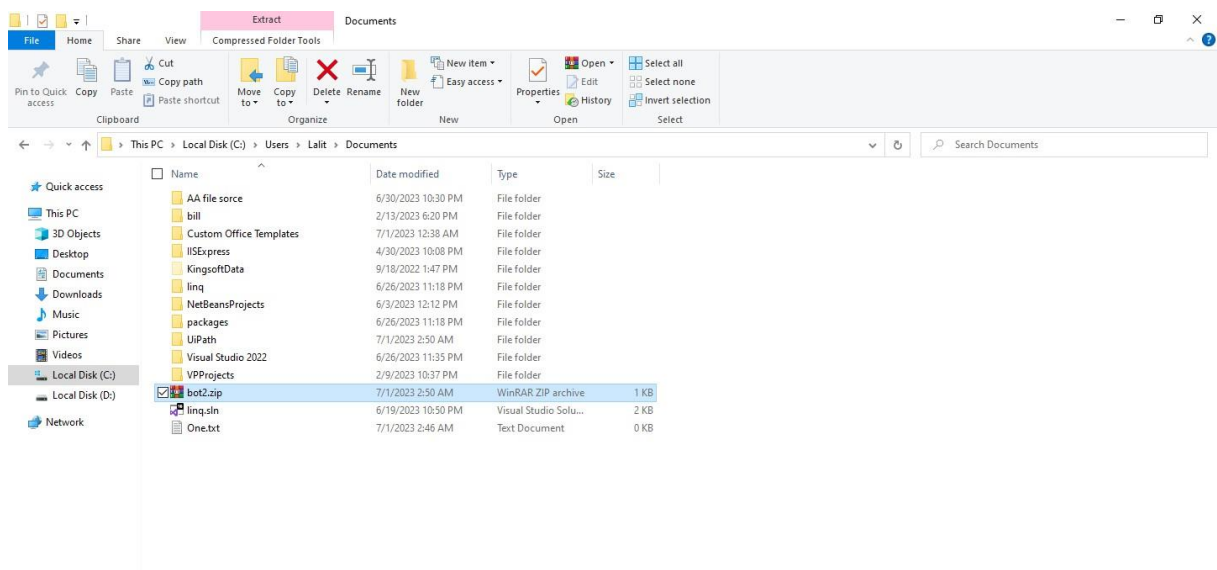
**Screenshot :**



## Output :

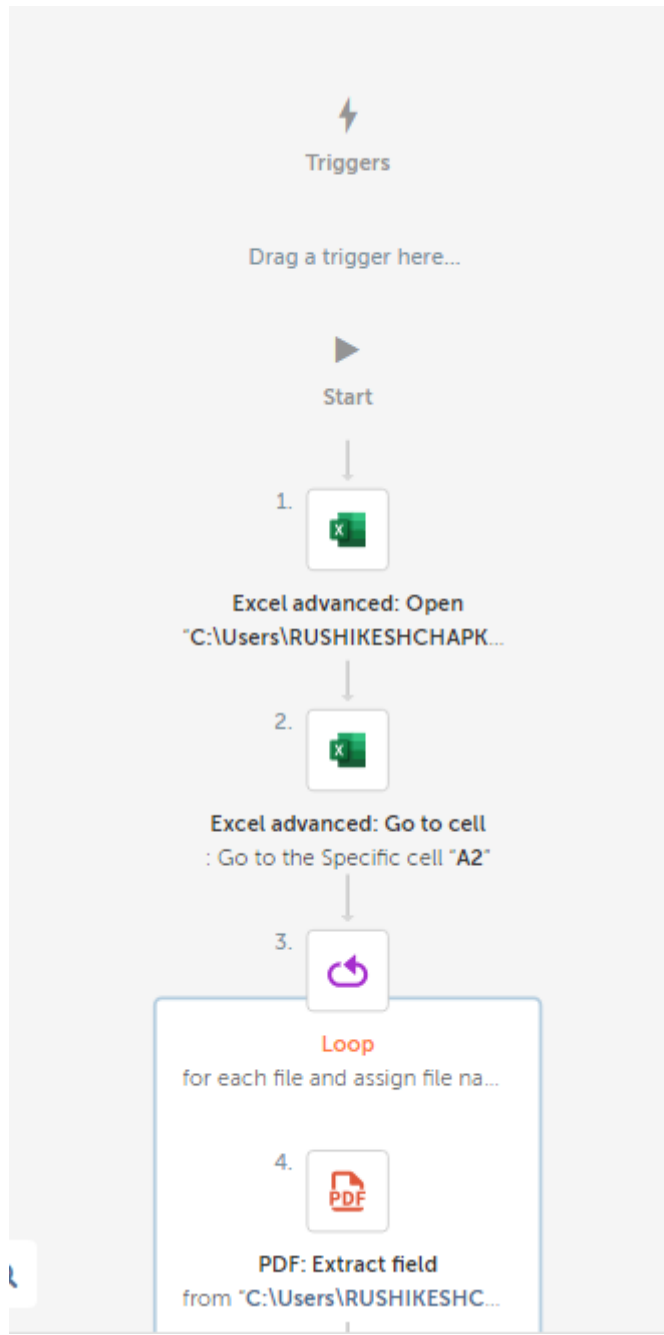


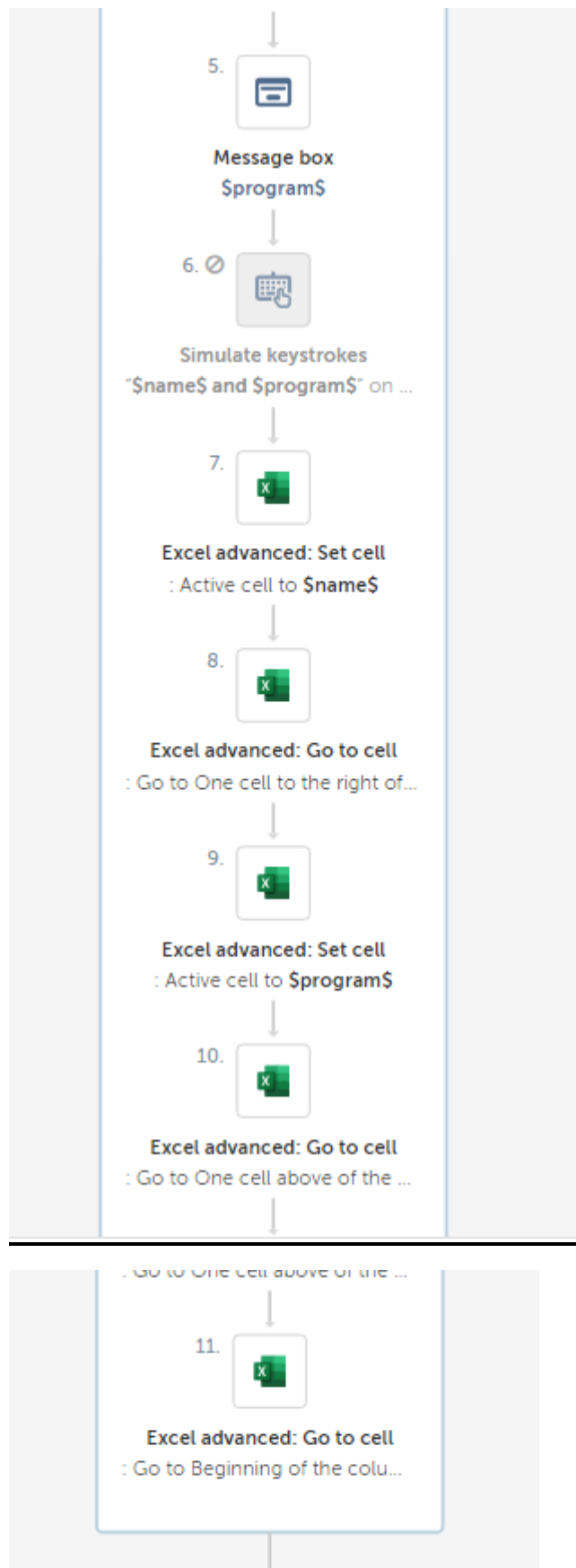




Category 5

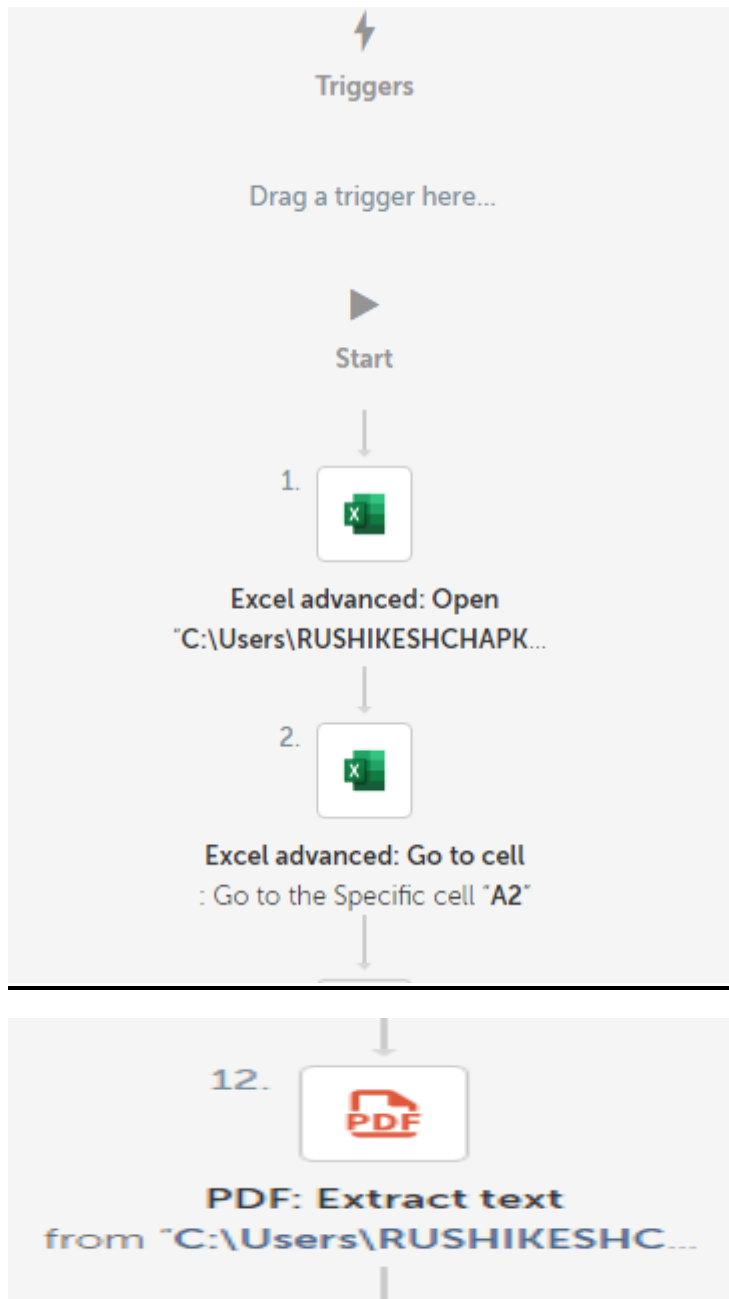
2) Write a bot to demonstrate screen scraping using extract field - The bot shall paste extracted strings into excel sheet



**OUTPUT**

D2    X    ✓    fx			
	A	B	C
1	Name of Student	Name of the program	
2	RUSHIKESH VIKRAM LALIT RANJEET HRITIK	Programming Foundations with JavaScript, HTML and CSS	
3			
4			
5			
6			
7			

3) Write a bot to demonstrate screen scraping using extract text



**OUTPUT**

\*pdf to text.txt - Notepad

File Edit Format View Help

A pr 28 , 2023

RUSHIKESH

Ranjeet

Vikram

Lalit

Hritik

Programming Foundations with JavaScript, HTML

and CSS

an online non-credit course authorized by Duke University and offered through Coursera  
has successfully completed

Susan H. Rodger, Professor of the Practice, Computer Science

Robert Duvall, Lecturer, Computer Science

Owen Astrachan, Professor of the Practice, Computer Science

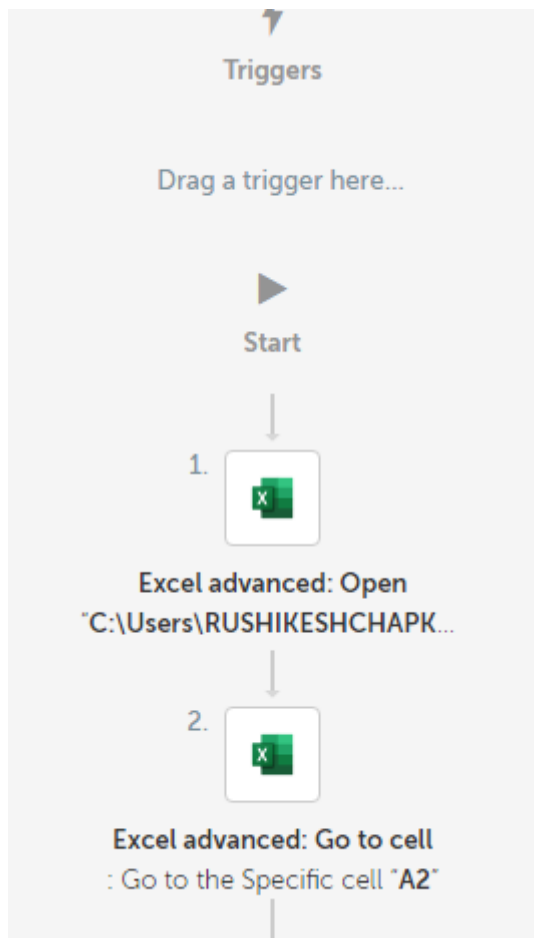
Andrew D. Hilton, Assistant Professor of the Practice, Electrical and Computer Engineering

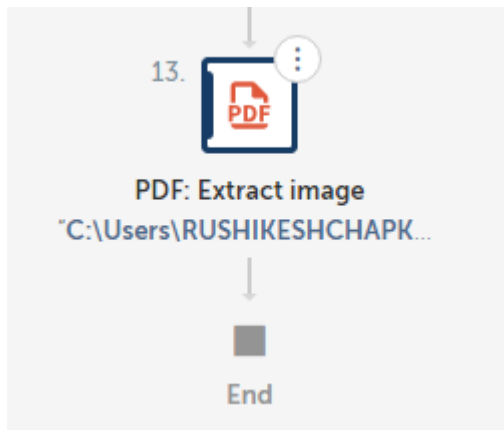
Verify at :

ht tps://coursera.org/veri fy/Y7LCG6UP7JJA

Cour ser a ha s conf ir med the identity of this individua l a nd the ir  
pa r t icipa tion in the cour se .

#### 4) Write a bot to demonstrate screen scraping using extract image

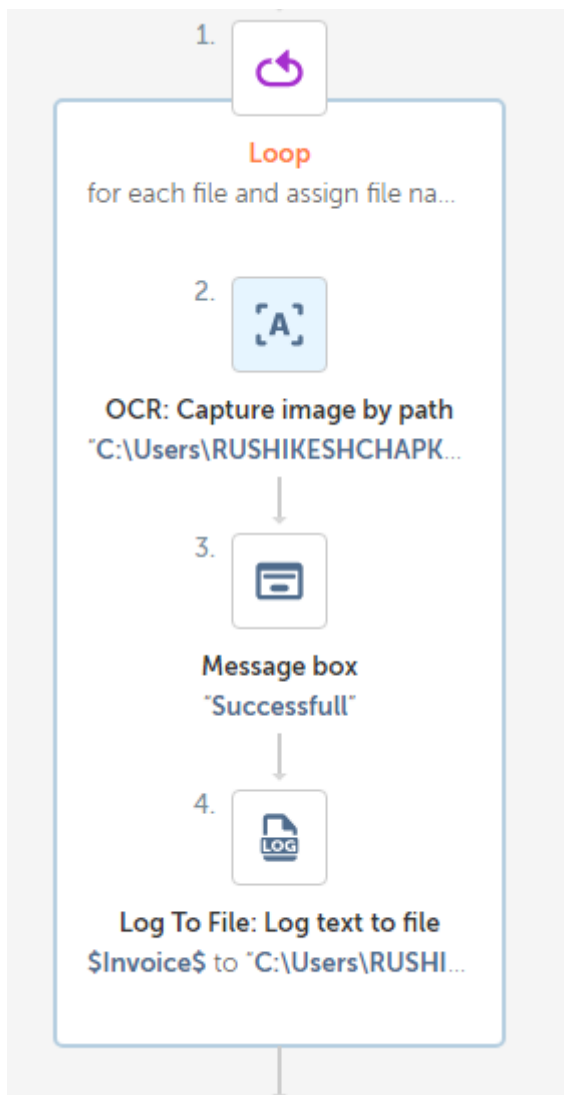




## OUTPUT



6) Write a bot to demonstrate screen scraping using OCR – Capture image by path



## OUTPUT

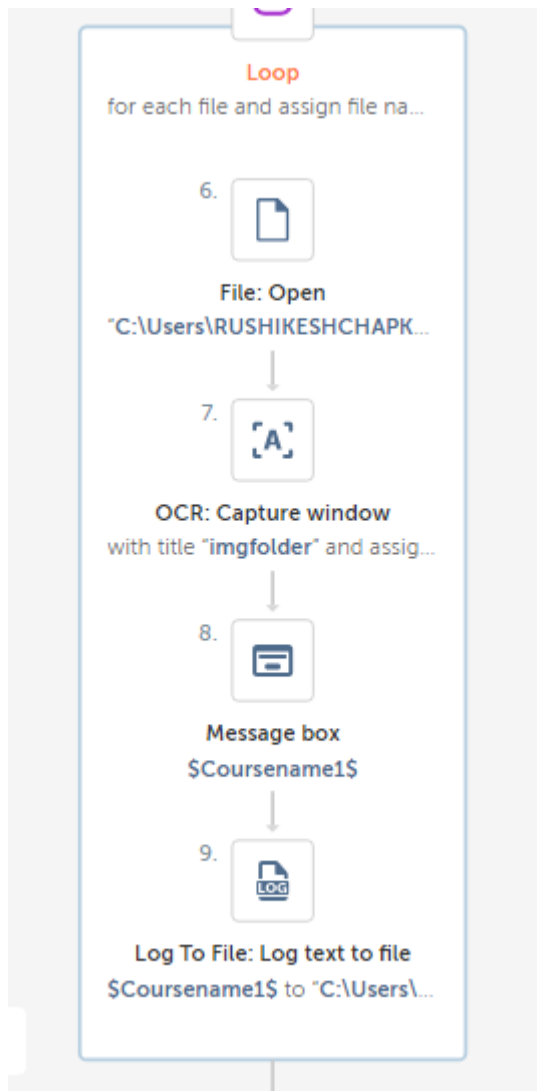
invoice data.txt - Notepad

File Edit Format View Help

Foundations with JavaScript, HTML  
and



7) Write a bot to demonstrate screen scraping using OCR – Capture window with filter and without filter



**OUTPUT**