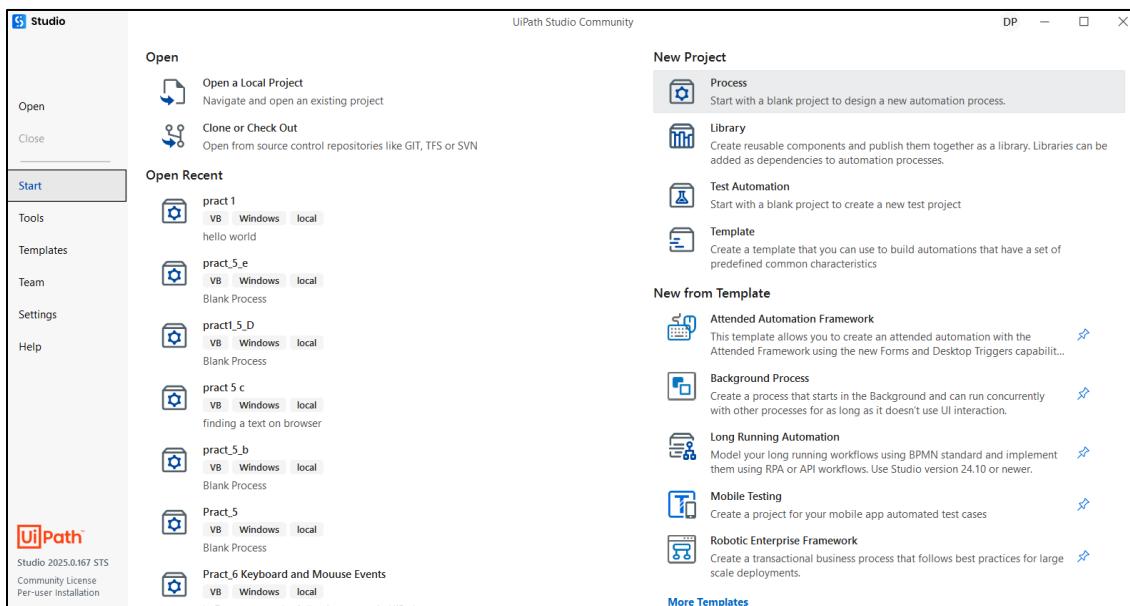


Practical – 1

Aim: RPA Basics: Sequences and Flowcharts

- Create a simple sequence-based project.

Open Ui path Go to process → New Blank process → Provide Name, Location and description → Click on Create



New Blank Process

Start with a blank project to design a new automation process.

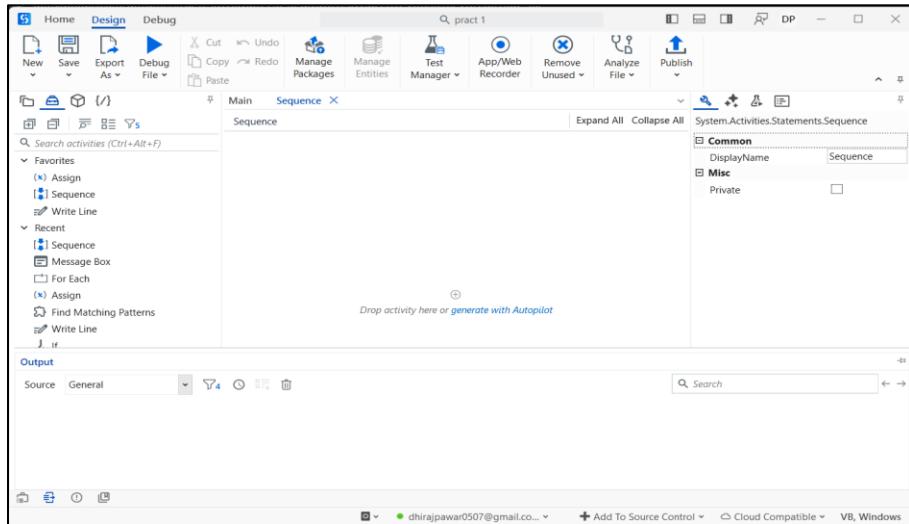
Name *

Description

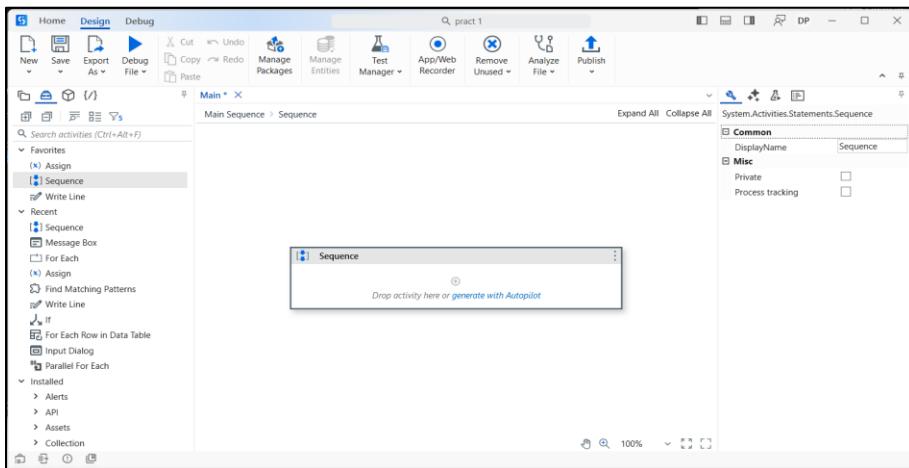
Show advanced options

Create

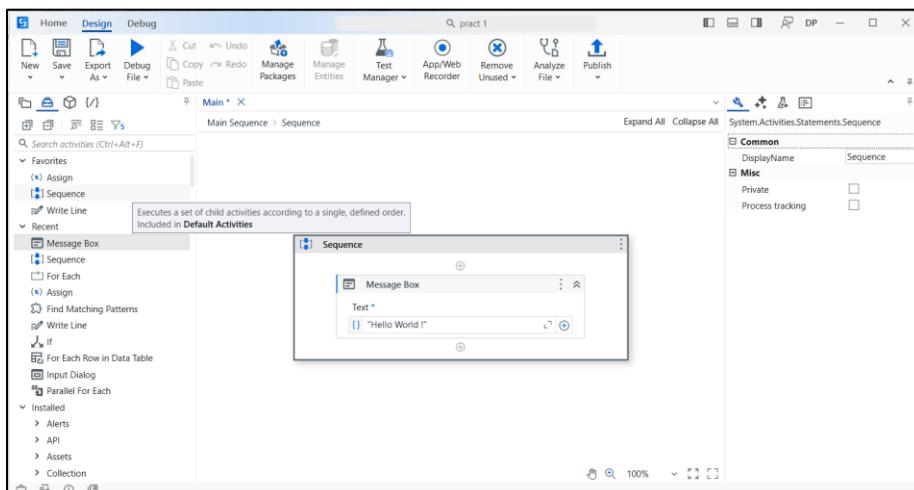
The screen is open click on open main flow

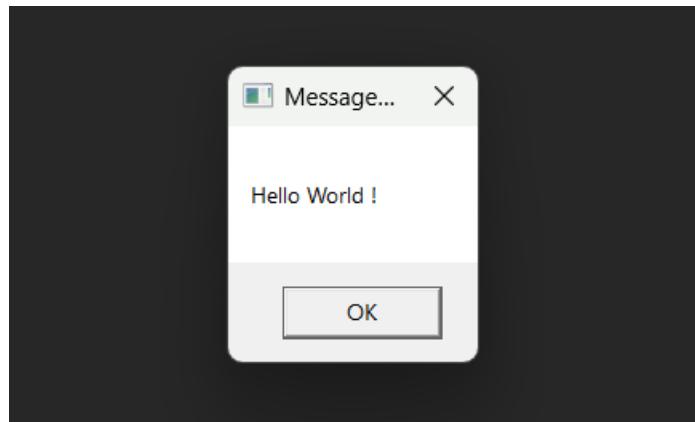


Search for sequence → drag and drop



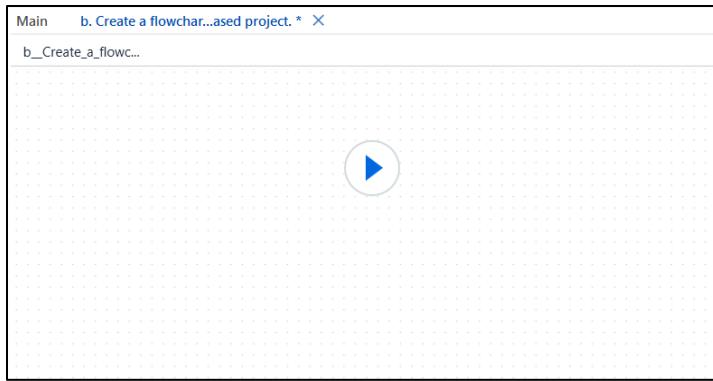
Search for Message Box → drag and drop → write Hello World ! in the message box in double inverted coma



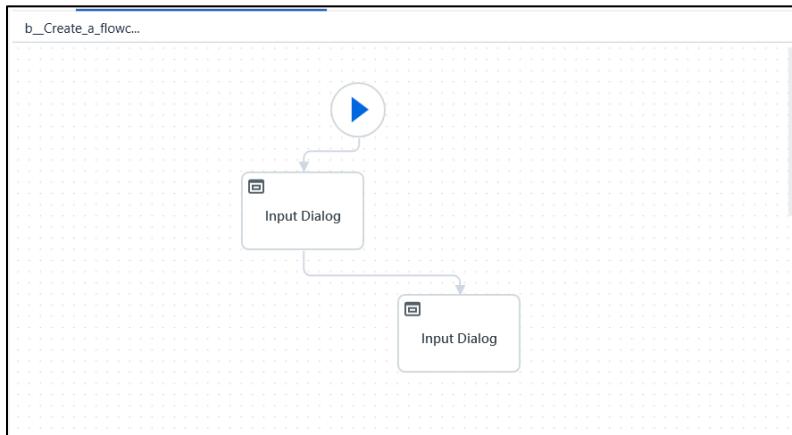
Output:

b. Create a flowchart-based project.

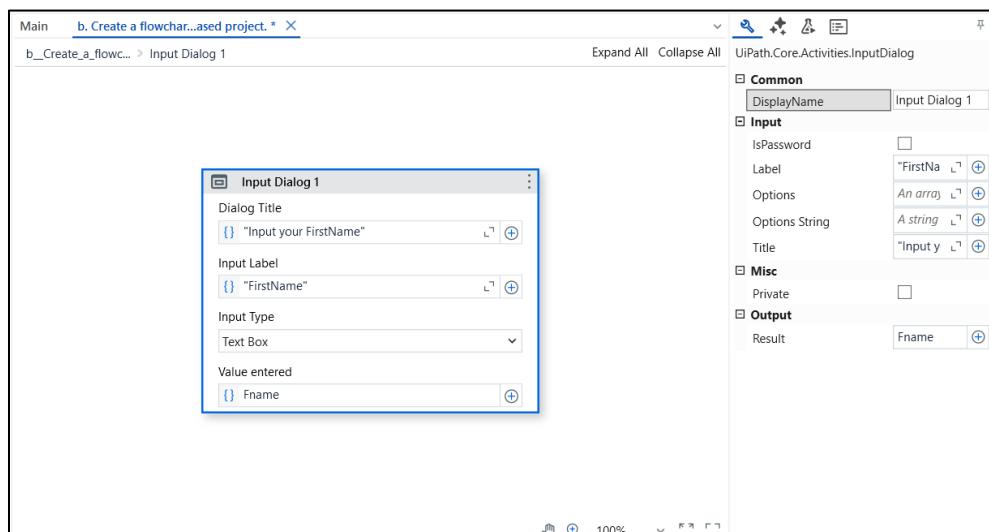
Drag and drop flowchart



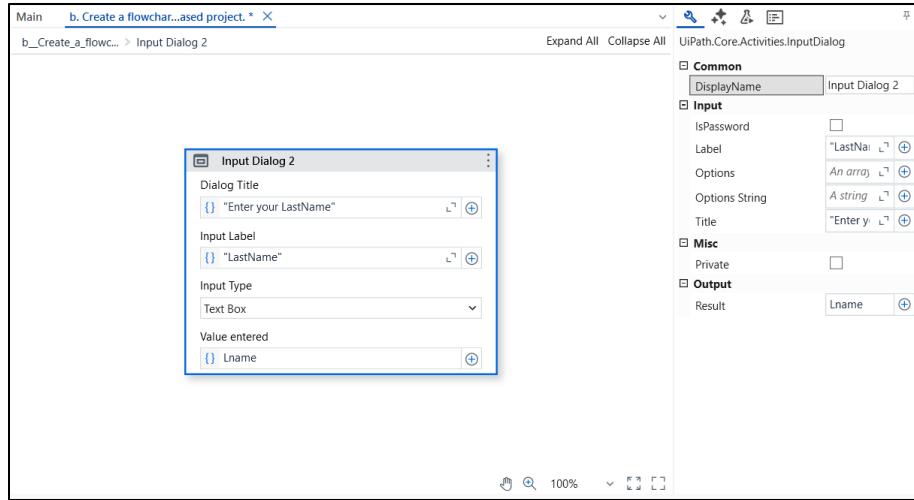
Take 2 input dialogue box → Place them one after another → connect them with flowchart



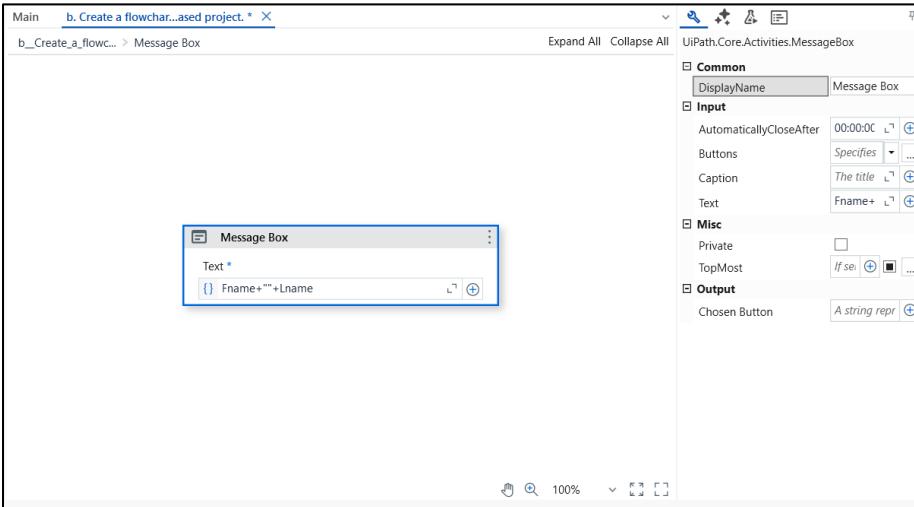
Enter the details in the dialogue box 1 as for First name → And create a Variable in properties output section



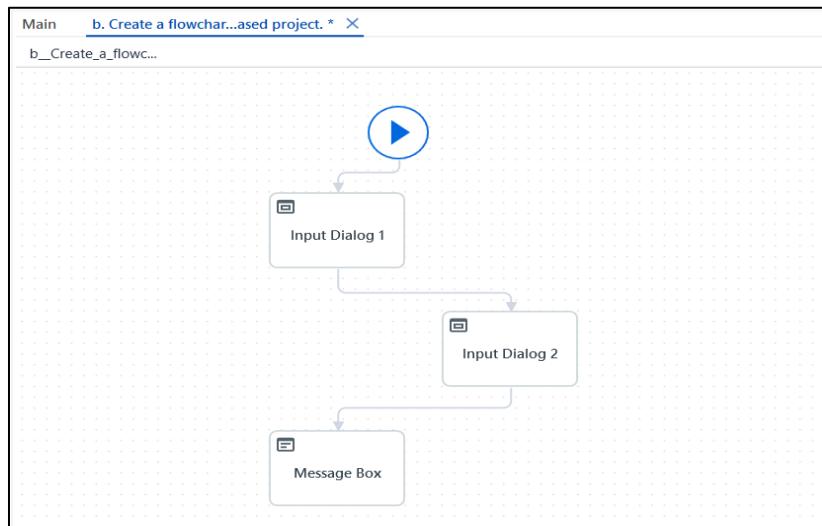
Enter the details in the dialogue box 2 as for Last name → And create a Variable in properties output section

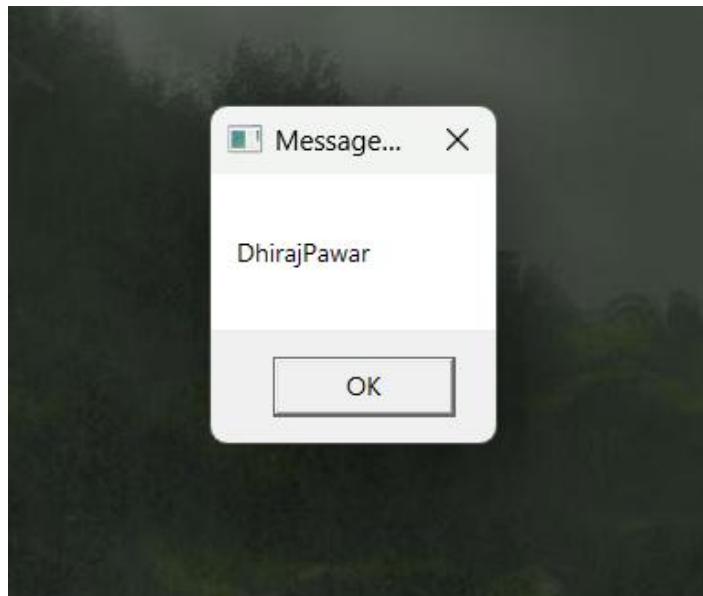
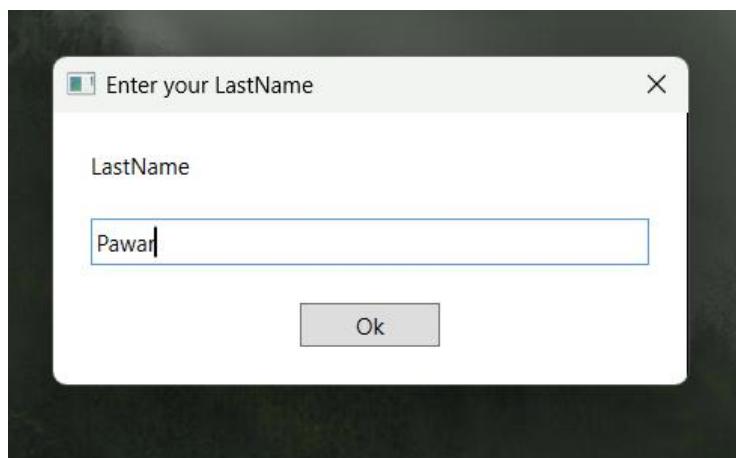
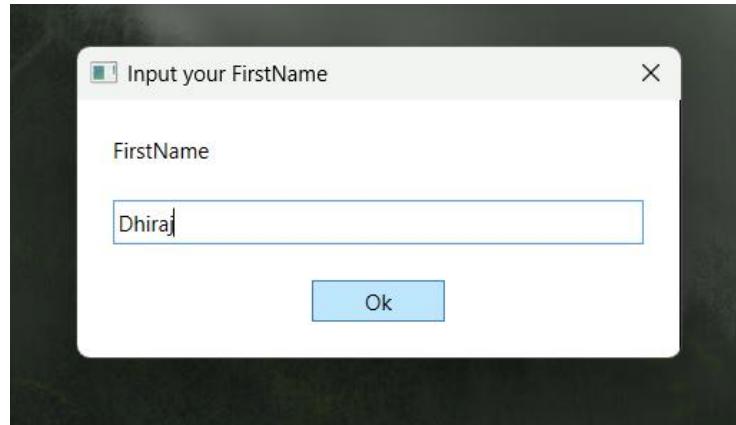


Drag message box after dialogue box → Enter details in the message box



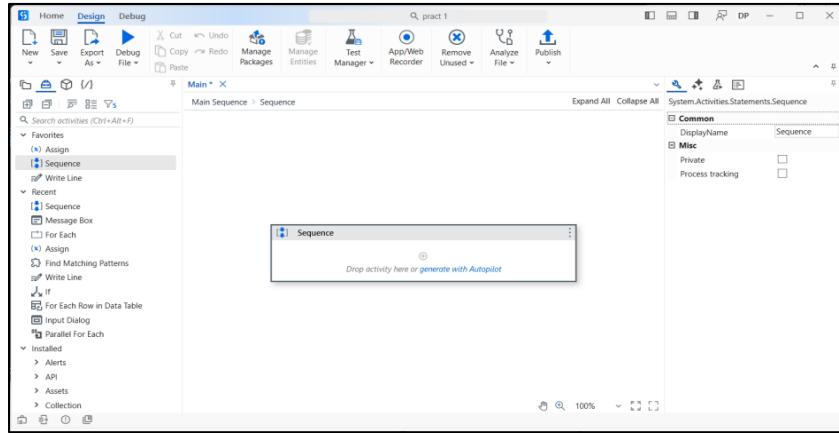
The complete Flow chart



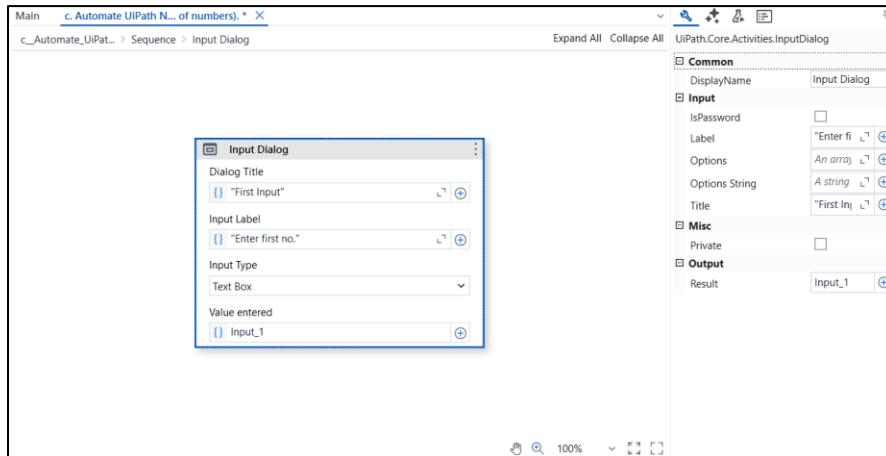
Output:

c. Automate UiPath Number Calculation (Subtraction, Multiplication, Division of numbers).

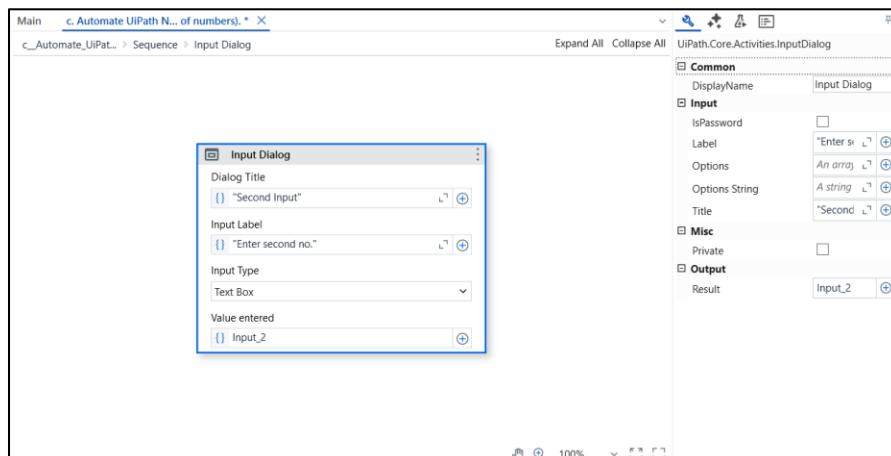
Search for sequence → drag and drop



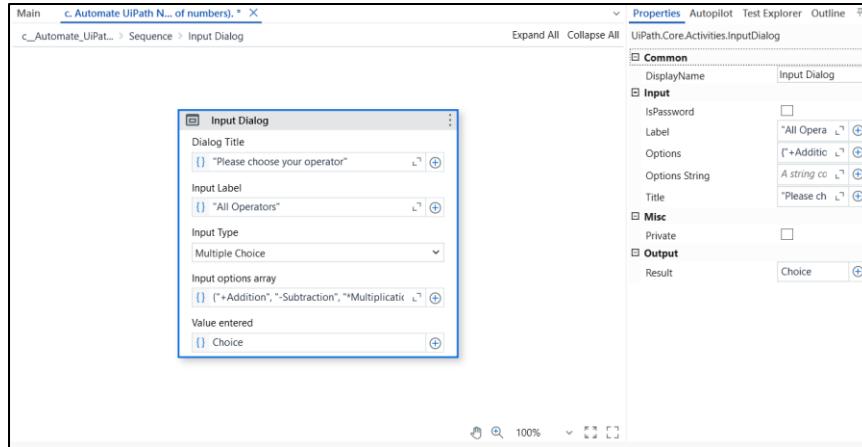
Enter the details in the dialogue box 1 as for First input → And create a Variable in properties output section



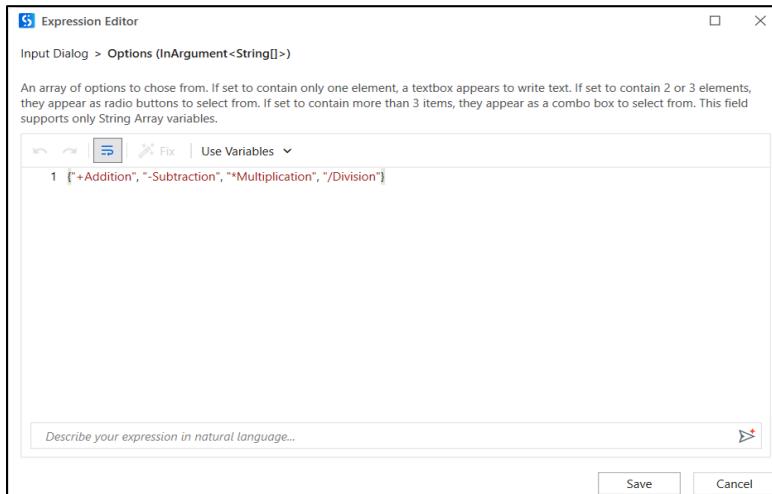
Enter the details in the dialogue box 2 as for Second input → And create a Variable in properties output section



Enter the details in the dialogue box 3 as for Operators → And create a Variable in properties output section



Also create an equation in input option as given below and click on save
({"+Addition", "-Subtraction", "*Multiplication", "/Division"})



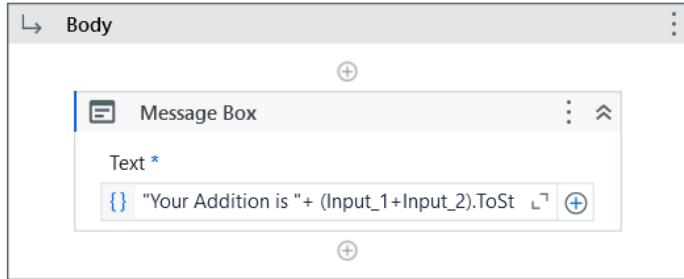
Drag and drop switch activity → In expression select the choice variable created in dialogue box 3



In switch activity create 4 Case activity for Addition, Subtraction, Multiplication, Division
→ Drag message box in each particular case operator and enter the particular operator equation in the message box as given below

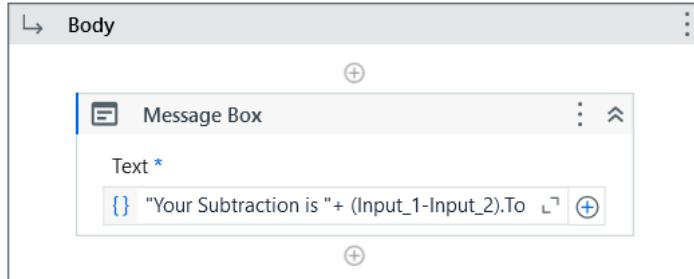
For Addition:

"Your Addition is "+ (Input_1+Input_2).ToString



For Subtraction:

"Your Subtraction is "+ (Input_1-Input_2).ToString



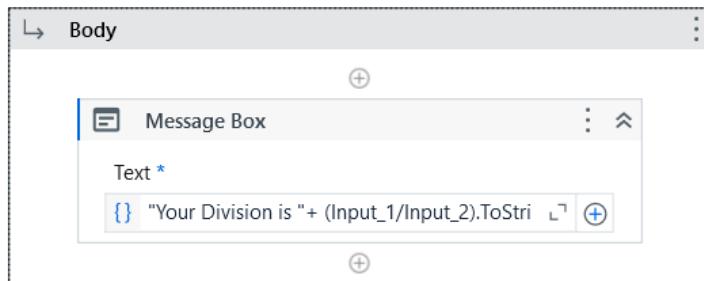
For Multiplication:

"Your Multiplication is "+ (Input_1*Input_2).ToString



For Division:

"Your Division is "+ (Input_1/Input_2).ToString



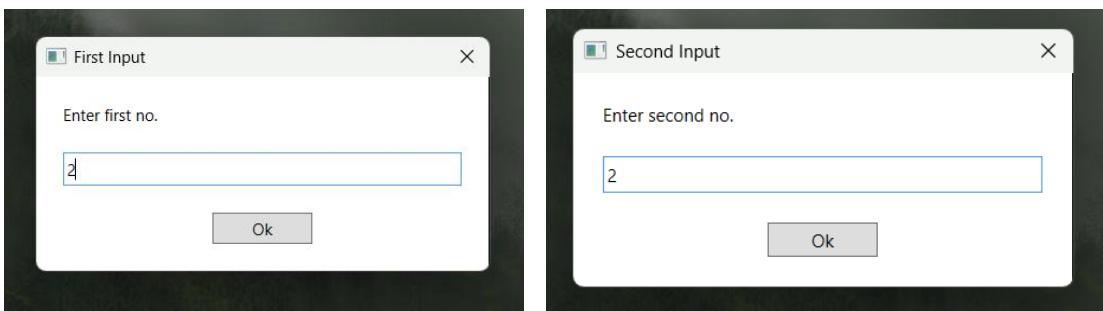
Complete Sequence

The screenshot shows a sequence of three input dialogs and a switch block:

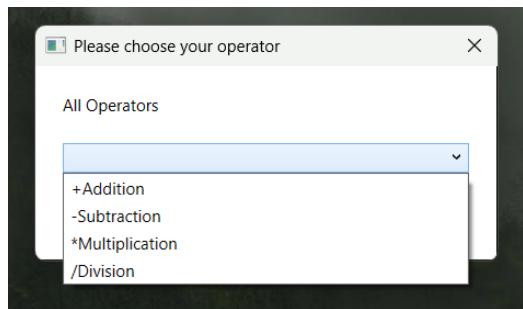
- Input Dialog 1:** Dialog Title: "First Input", Input Label: "Enter first no.", Input Type: Text Box, Value entered: Input_1.
- Input Dialog 2:** Dialog Title: "Second Input", Input Label: "Enter second no.", Input Type: Text Box, Value entered: Input_2.
- Input Dialog 3:** Dialog Title: "Please choose your operator", Input Label: "All Operators", Input Type: Multiple Choice, Input options array: ["+Addition", "-Subtraction", "*Multiplication", "/Division"], Value entered: Choice.
- Switch Block:** Expression: Choice. It branches into four cases:
 - Case +Addition:** Body contains a Message Box with Text: "Your Addition is " + (Input_1+Input_2).ToString()
 - Case -Subtraction:** Body contains a Message Box with Text: "Your Subtraction is " + (Input_1-Input_2).ToString()
 - Case *Multiplication:** Body contains a Message Box with Text: "Your Multiplication is " + (Input_1*Input_2).ToString()
 - Case /Division:** Body contains a Message Box with Text: "Your Division is " + (Input_1/Input_2).ToString()

Output:

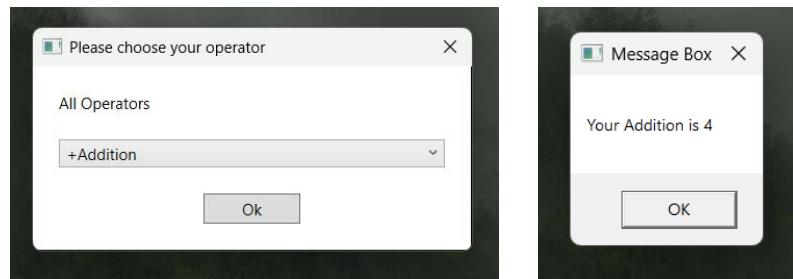
To enter no.



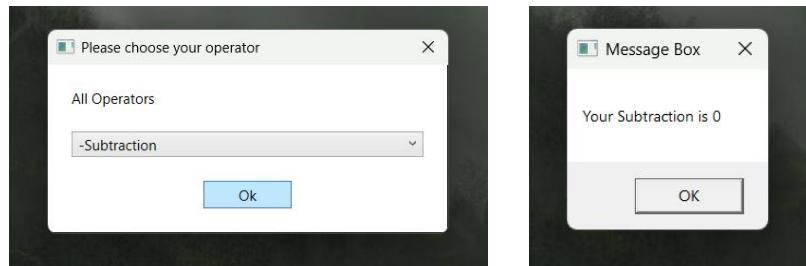
To select operators



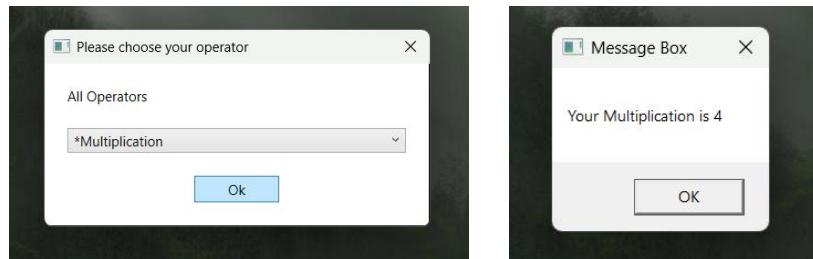
For Addition



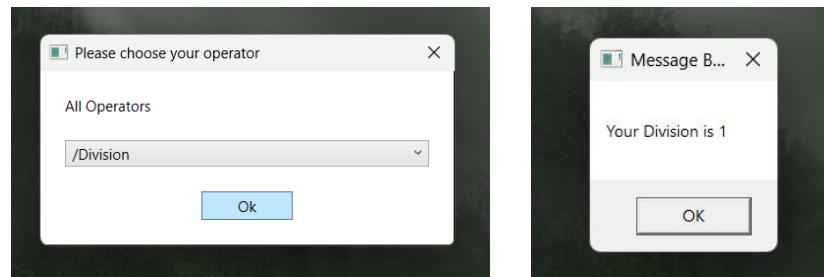
For Subtraction



For Multiplication

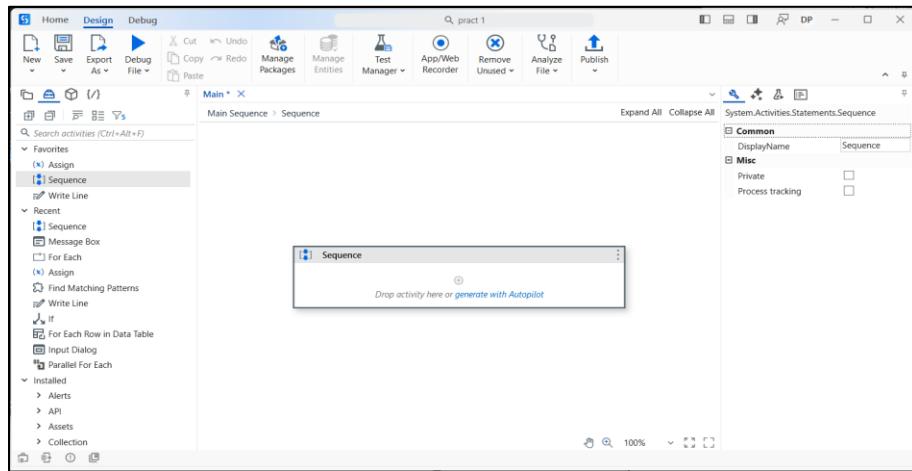


For Division



- d. Create an automation UiPath project using different types of variables (number, datetime, Boolean, generic, array, data table).

Search for sequence → drag and drop



First create 5 variables as shown

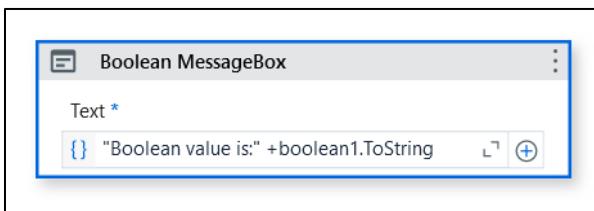
Name	Data Type	Scope	Default Value
<i>Create variable</i>			
(x) array1	String[]	Main	{ ("Dhiraj", "Pawar") }
(x) string1	String	Main	{ "Dhiraj" }
(x) datetime	DateTime	Main	{ Now }
(x) boolean1	Boolean	Main	{ True }
(x) num	Int32	Main	{ 1 }

Drag 4 message box inside sequence table to create different types of variables (number, datetime, Boolean, array, data table) and enter the details as shown

For Number



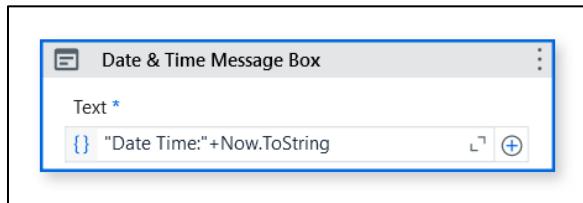
For Boolean value



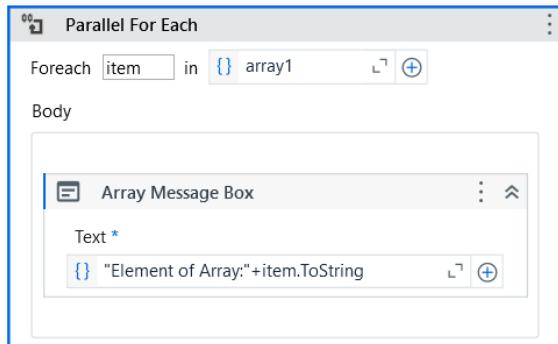
For String



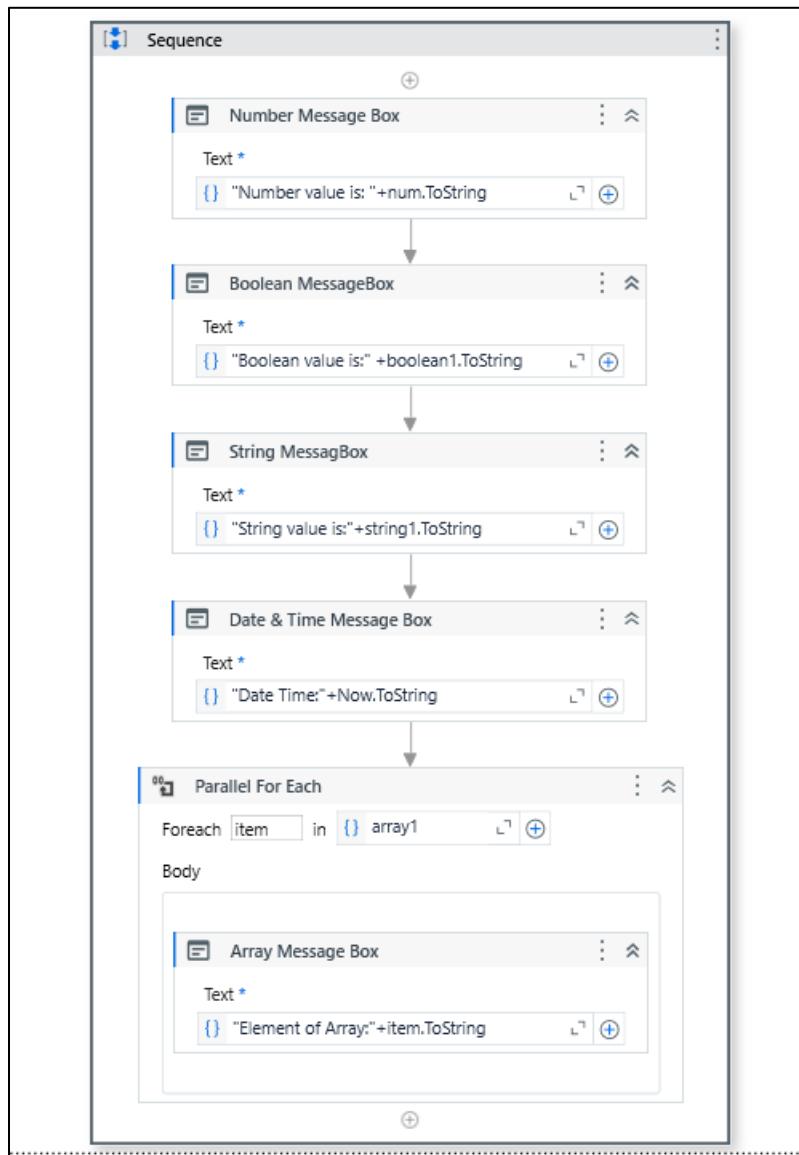
For Date & Time



Drag and drop Parallel For Each activity → Enter the details as shown

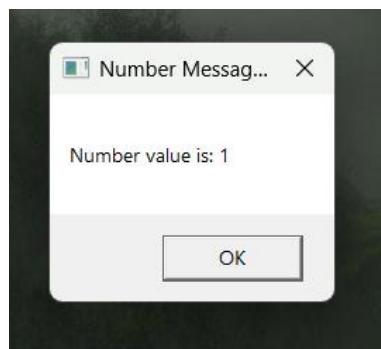


Complete Sequence

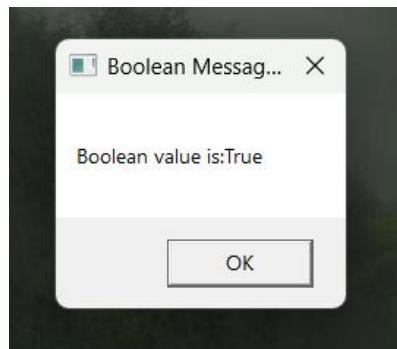


Output:

For Number



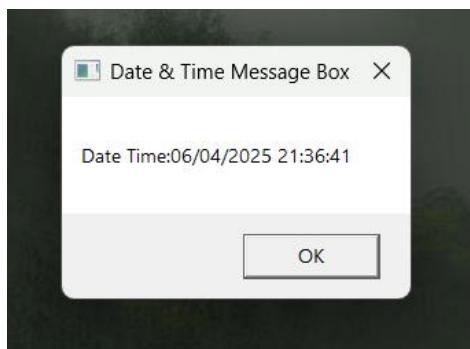
For Boolean value



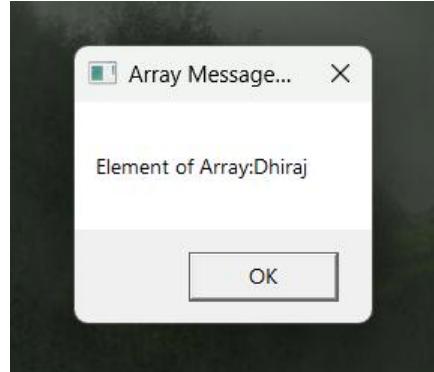
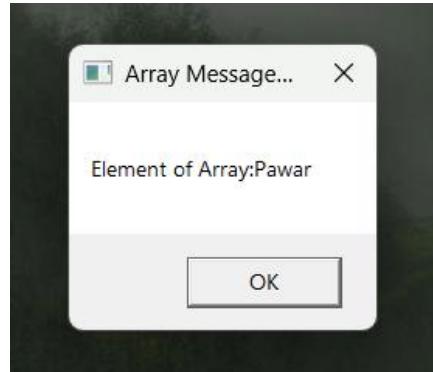
For String



For Date & Time



For Array



Practical – 2

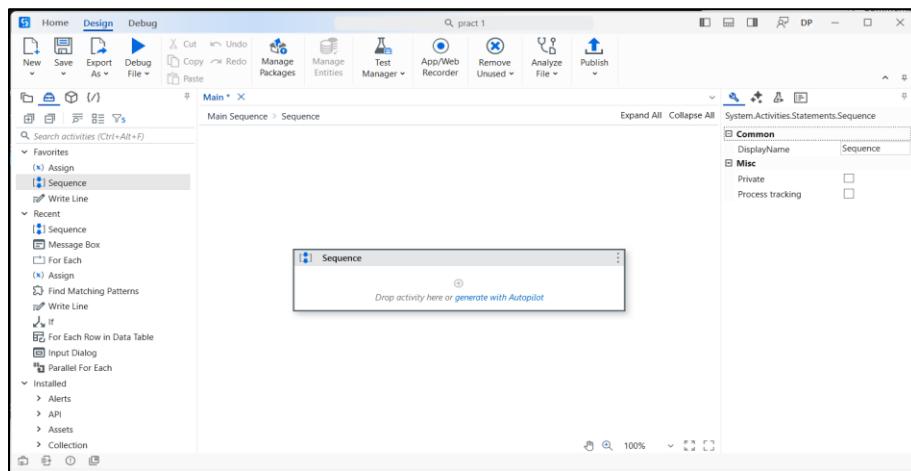
Aim: Decision making and looping

- Consider an array of names. We have to find out how many of them start with the letter "a". Create an automation where the number of names starting with "a" is counted and the result is displayed.

Variables to create

Name	Data Type	Scope	Default Value
<i>Create variable</i>			
(x) StringArray	String[]	Main	0
(x) first_letter_name	String	Main	0
(x) counter	Int32	Main	0

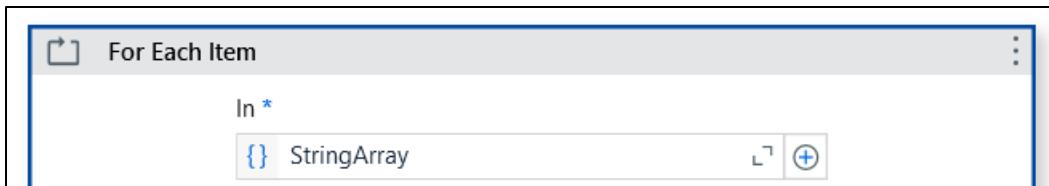
Search for sequence → drag and drop



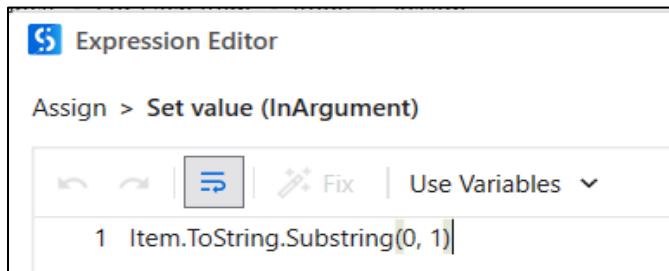
Drag and drop Assign Activity → Create a variable and mention the names in value section as shown

The top screenshot shows the 'Assign' activity configuration. It has 'Save to' set to '(x) StringArray' and 'Value to save' set to '{ {"Mohan", "Anand", "Rohan", "Ashish", "Ayush", "Keshav", "Dhiraj"} }'. The bottom screenshot shows the expanded expression editor with the value set to '1 {"Mohan", "Anand", "Rohan", "Ashish", "Ayush", "Keshav", "Dhiraj"}'.

Drag and drop For Each activity → In expression select the StringArray variable created in Assign Activity



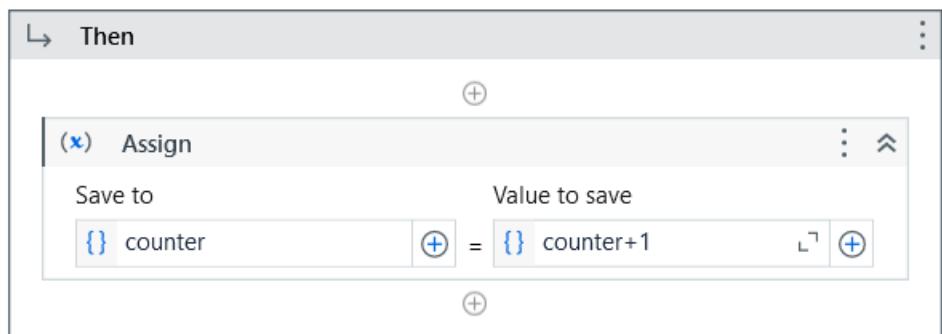
Inside Body Drag and drop Assign Activity → Create a variable and write equation in value section as shown



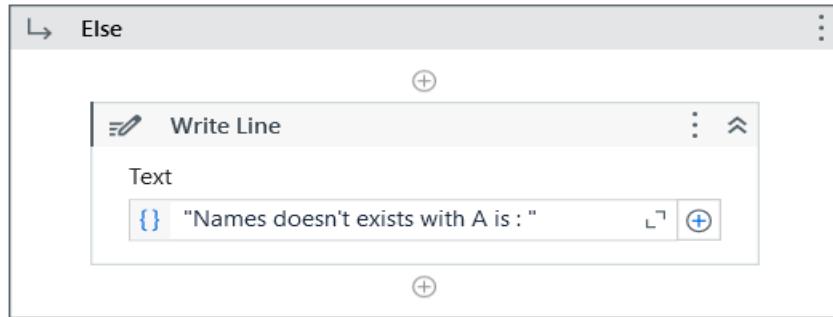
Drag and drop If Else sequence Activity → Inside If condition write the given equation as shown



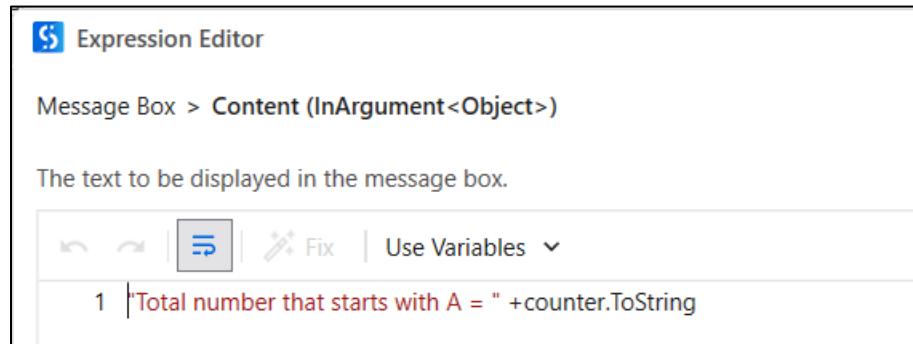
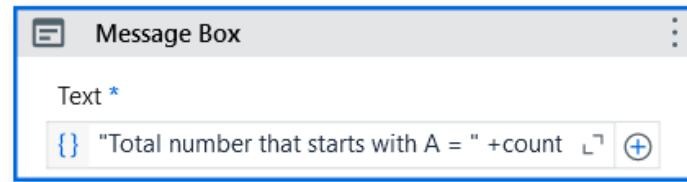
Inside Then sequence drag and drop Assign Activity → Create a variable and write equation in value section as shown



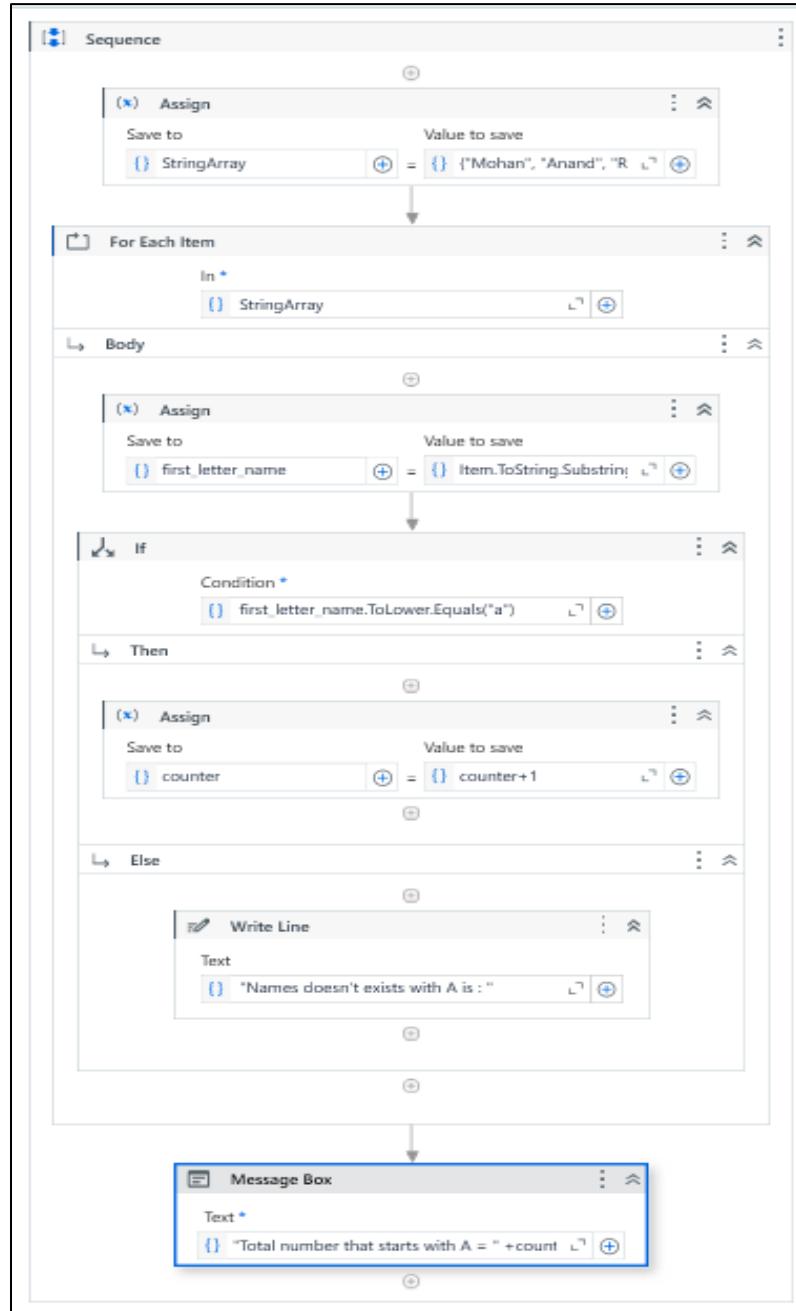
Inside Else sequence drag and drop Write Line Activity → Inside Write Line there is text option write the text as shown below



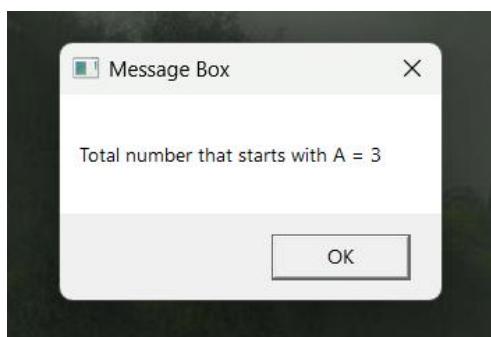
After For Each Item Activity drag and drop Message box → Write the mention expression in the message box as given below



Complete Sequence:

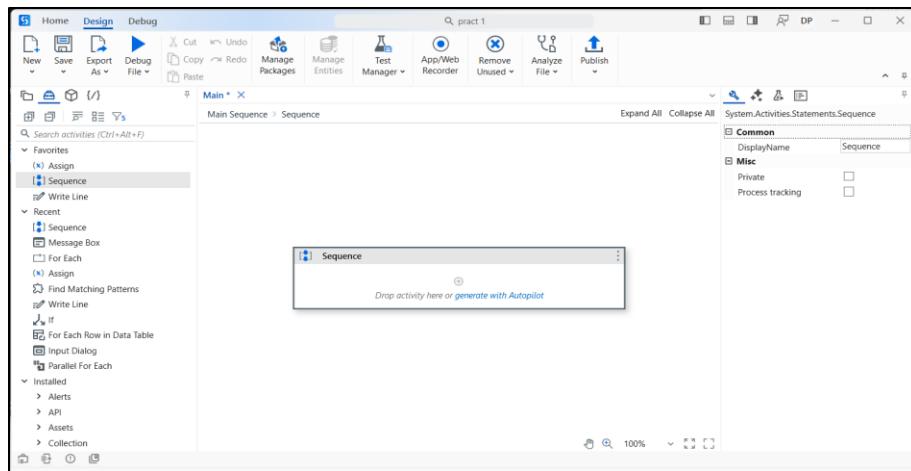


Output:

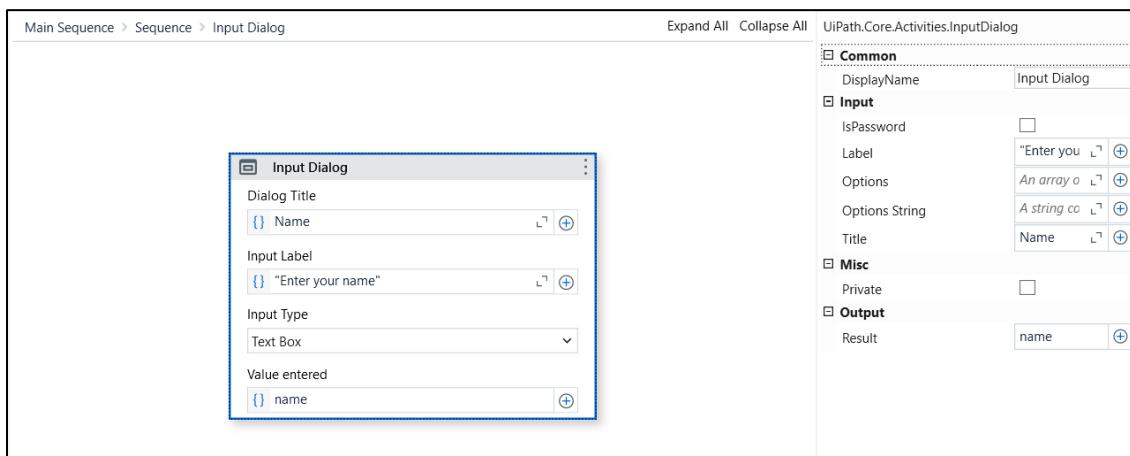


b. Demonstrate switch statements with an example.

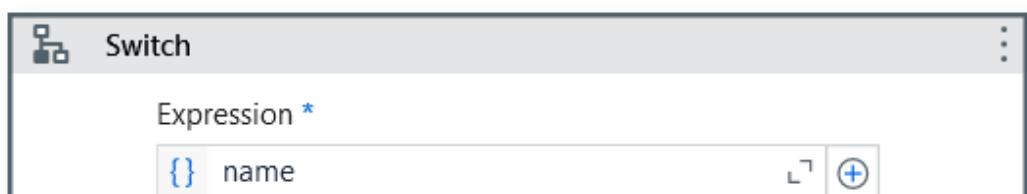
Search for sequence → drag and drop



Drag and drop Input dialogue box → Enter the details in the dialogue box → And create a Variable in properties output section

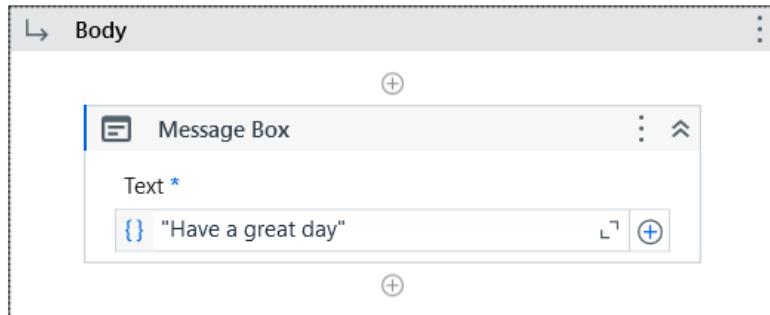


Drag and drop Switch Activity after dialogue box → In expression select the name variable created in dialogue box

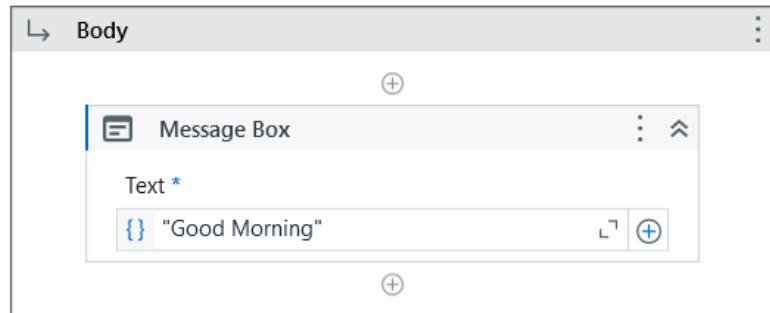


In switch activity create 2 Case activity for Dhiraj, Anand → Drag message box in each particular case operator and enter the particular details in the message box inside body as given below

For Dhiraj:



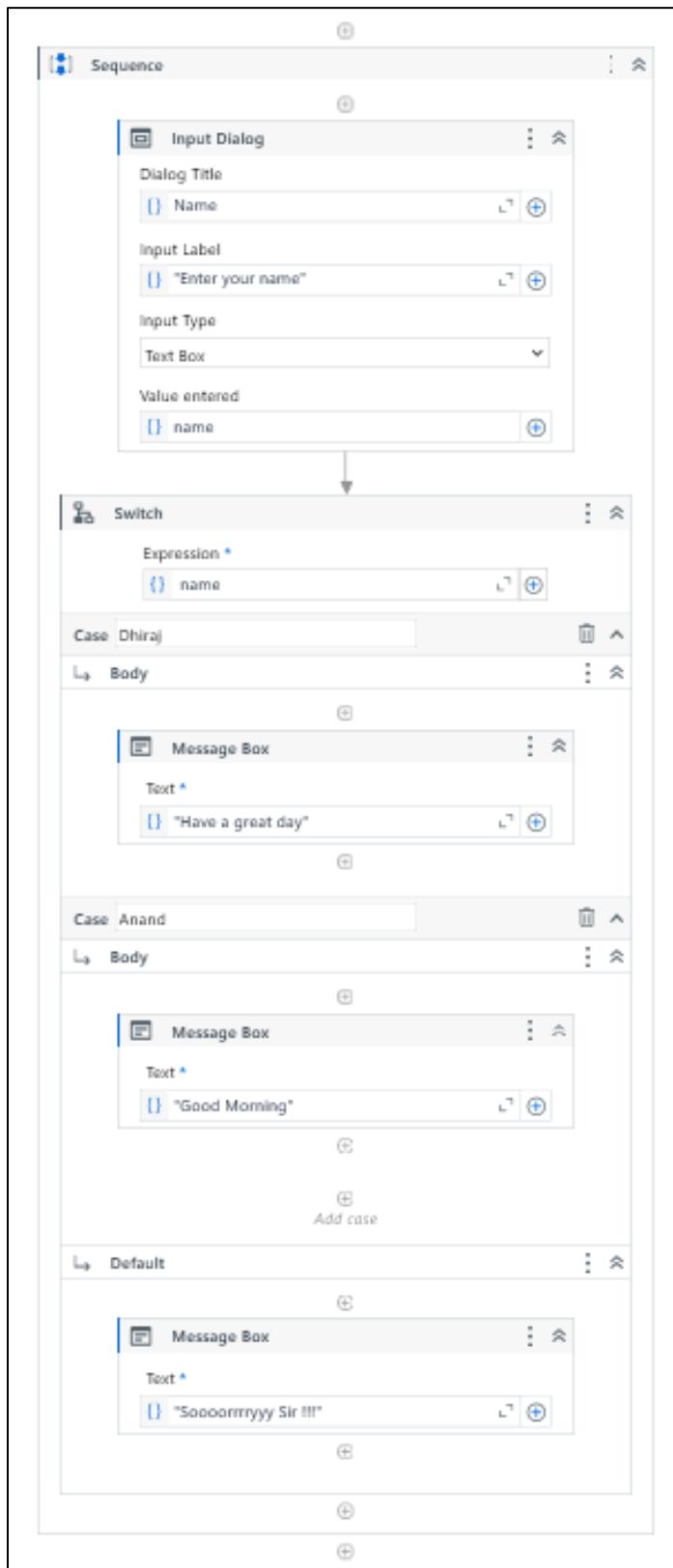
For Anand:



Inside default drag and drop a message box for another message for different name

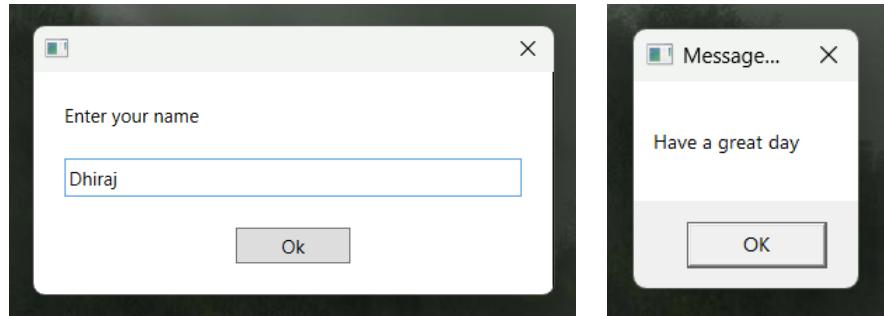


Complete Sequence:

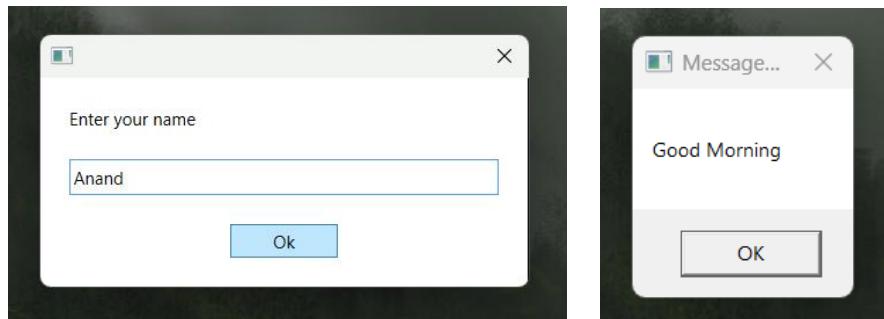


Output:

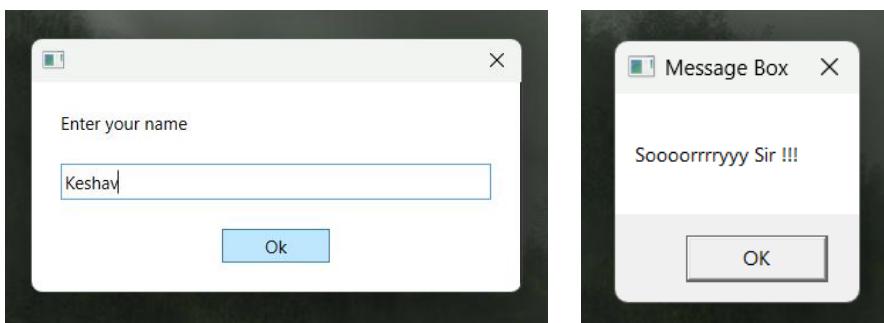
For Dhiraj



For Anand

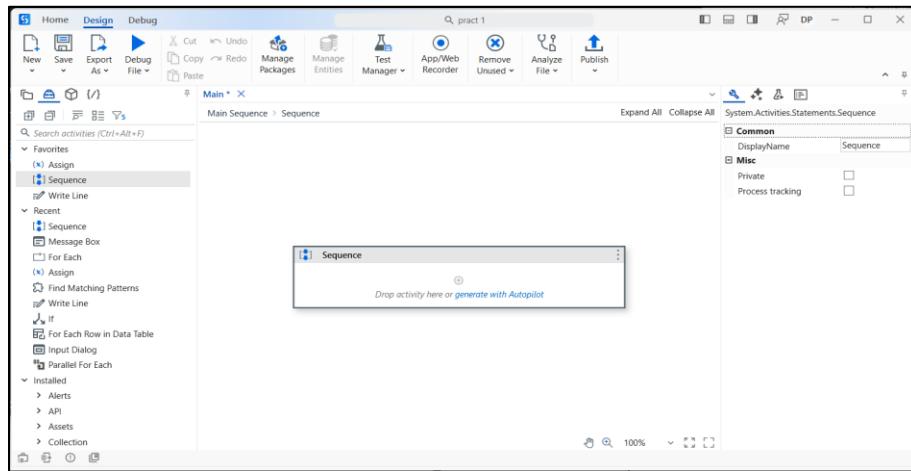


For another name like Keshav



- c. Create an automation To Print numbers from 1 to 10 with break after the WriteLine activity inside for each activity.

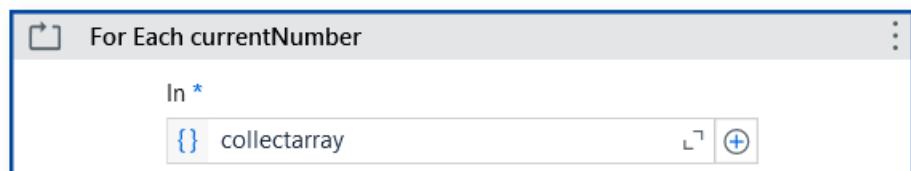
Search for sequence → drag and drop



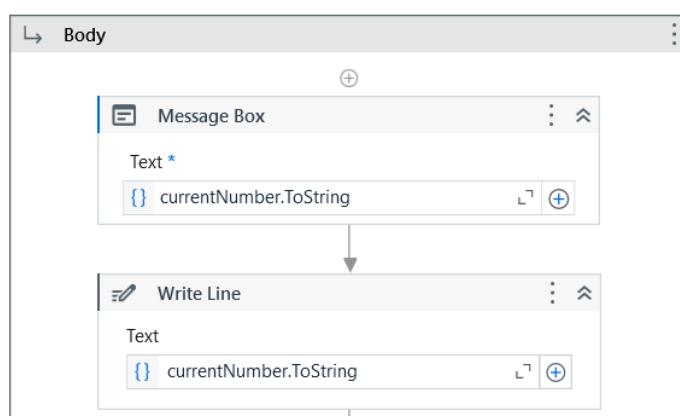
Create a Variable

Name	Data Type	Scope	Default Value
collectarray	Int32[]	Main	{1,2,3,4,5,6,7,8,9,10}

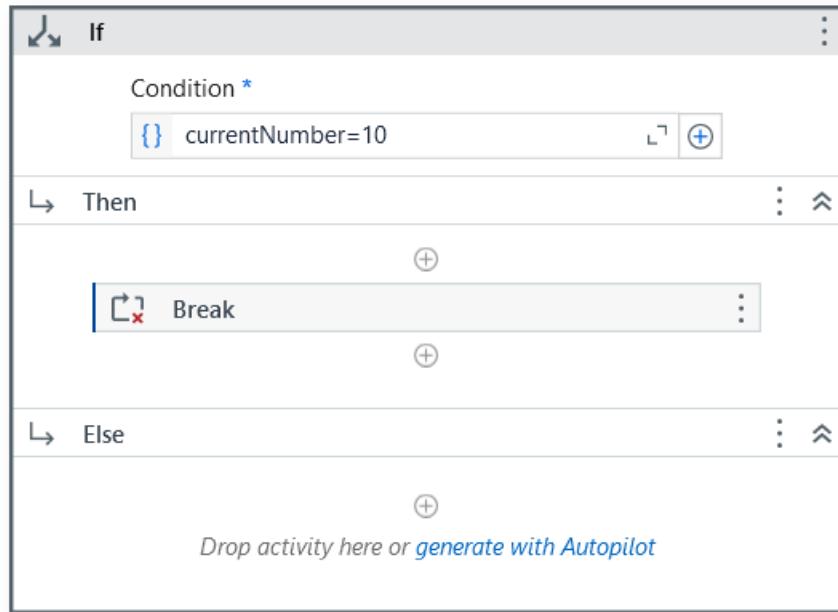
Drag and drop For Each Activity after inside sequence → In expression select the collectarray variable created in dialogue box



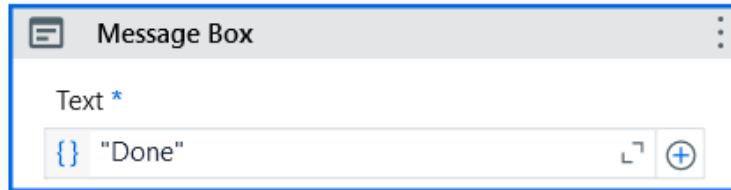
Inside Body drag and drop Message box and Write Line Activity and write the expression as given below



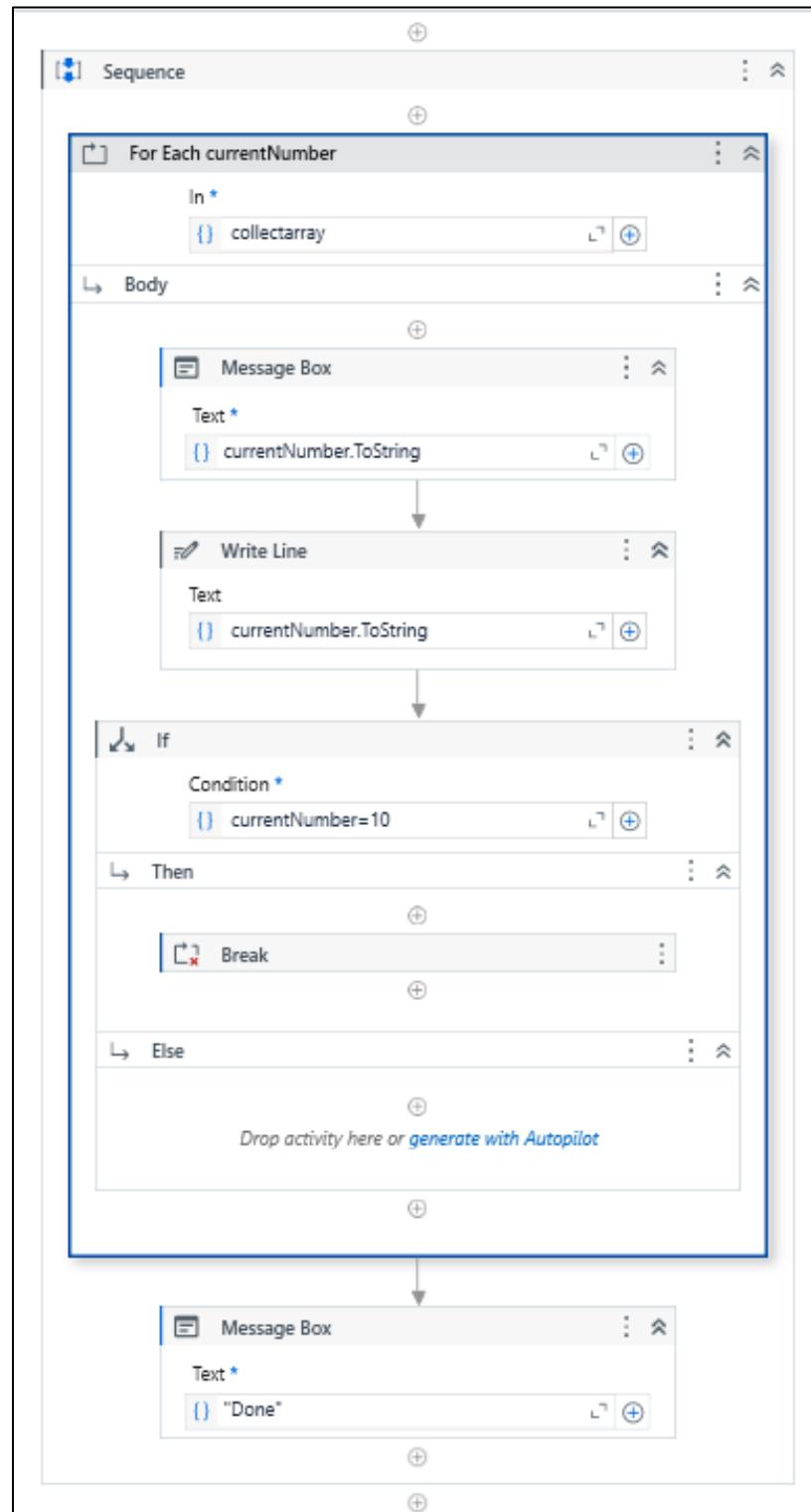
Inside Body after message box and write line activity drag and drop If Else Activity → In If condition write the expression as given in the diagram and in Then condition add a Break Activity as given below

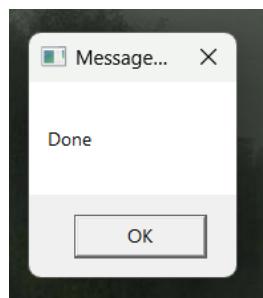
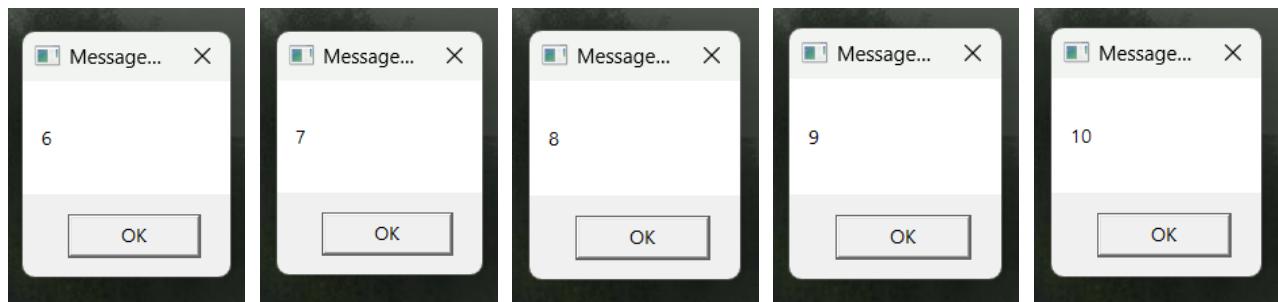
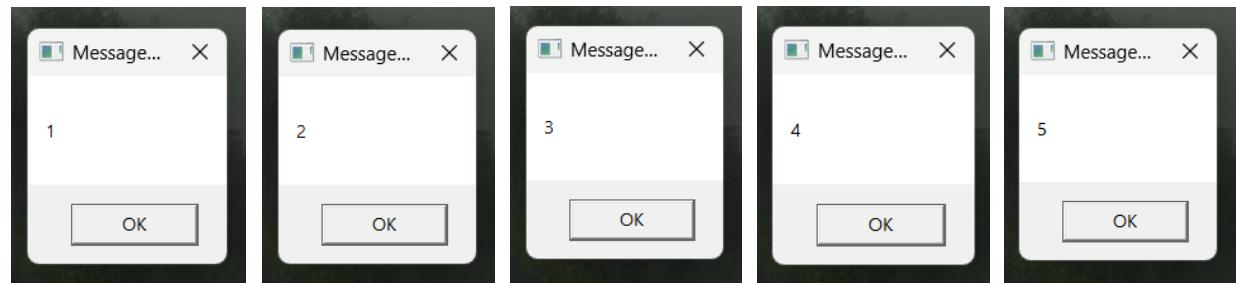


After For Each Activity drag and drop message box → Inside message box write “Done” as to end the sequence



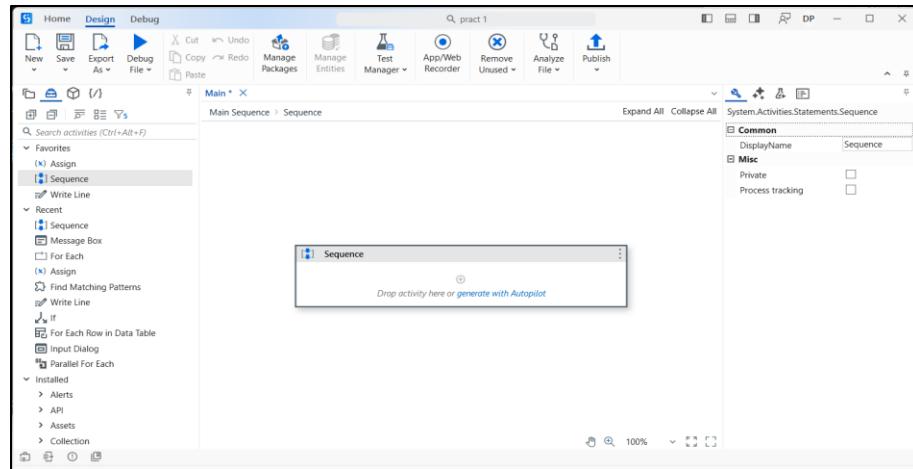
Complete Sequence:



Output:

d. Create an automation using Do While Activity to print numbers from 5 to 1.

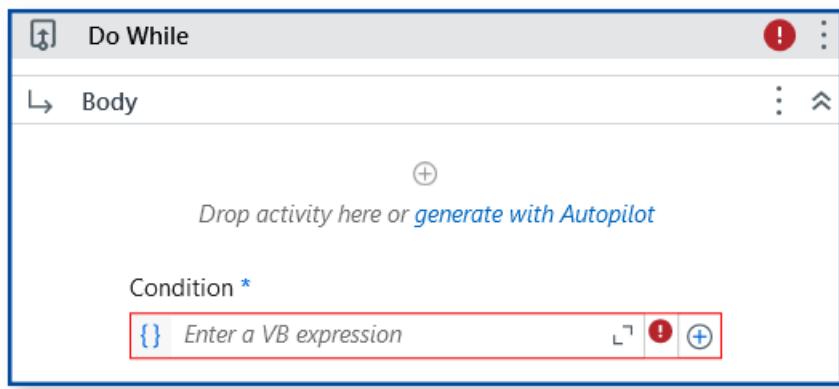
Search for sequence → drag and drop



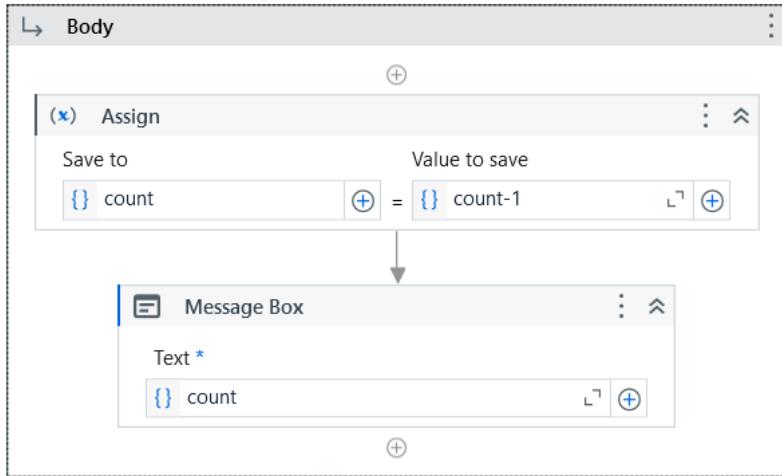
Create a Variable

Data Manager			
(x) Variables	(a) Arguments	Namespaces	Connections
Name	Q Data Type	Scope	Default Value
<i>Create variable</i>			
(x) count	Int32	Main	{ } 6

Drag and drop Do While Activity in sequence



Inside Body drag and drop Assign Activity → Create a variable count and write expression in value section as shown → Drag and drop message box and mention the variable count created



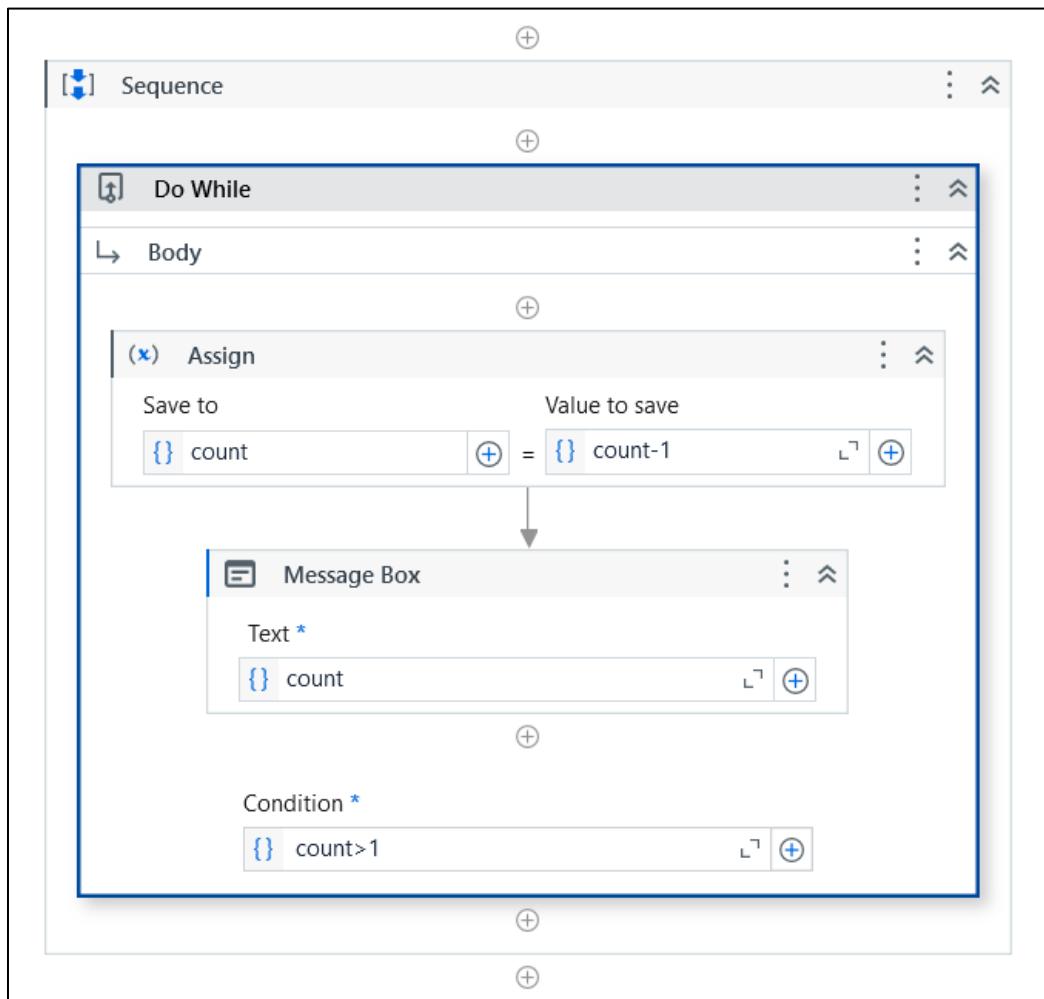
In condition write the given expression as given below

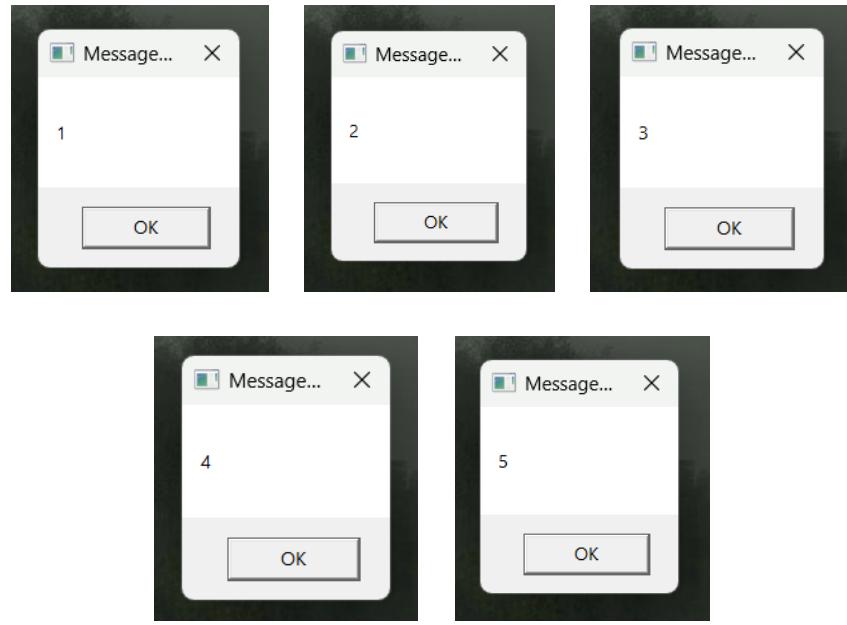
The screenshot shows a condition step:

Condition *

`{ } count>1`

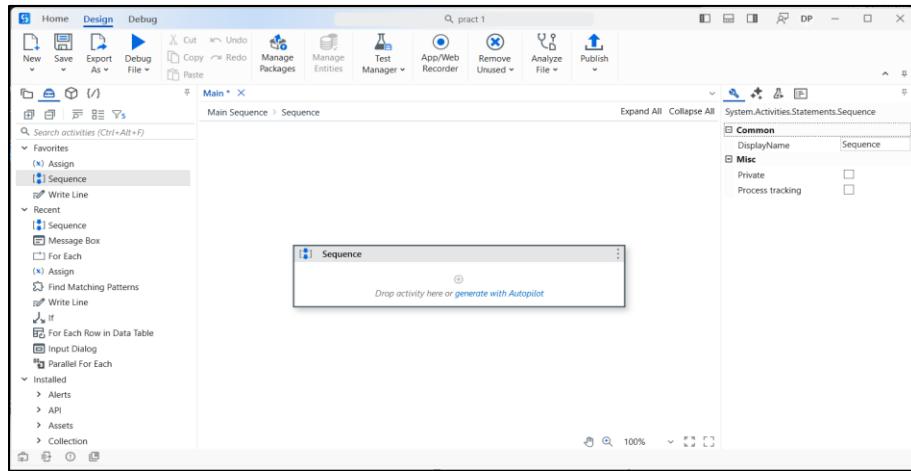
Complete Sequence:



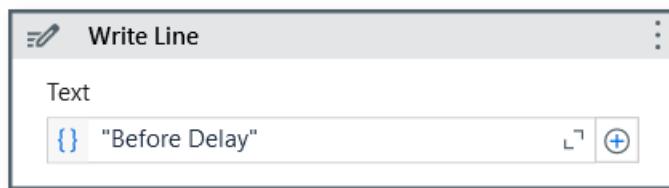
Output:

- e. Create an automation using Delay Activity between two WriteLine activities to separate their execution by 5 seconds.

Search for sequence → drag and drop



Inside Sequence drag and drop Write Line Activity → write the given text as shown below



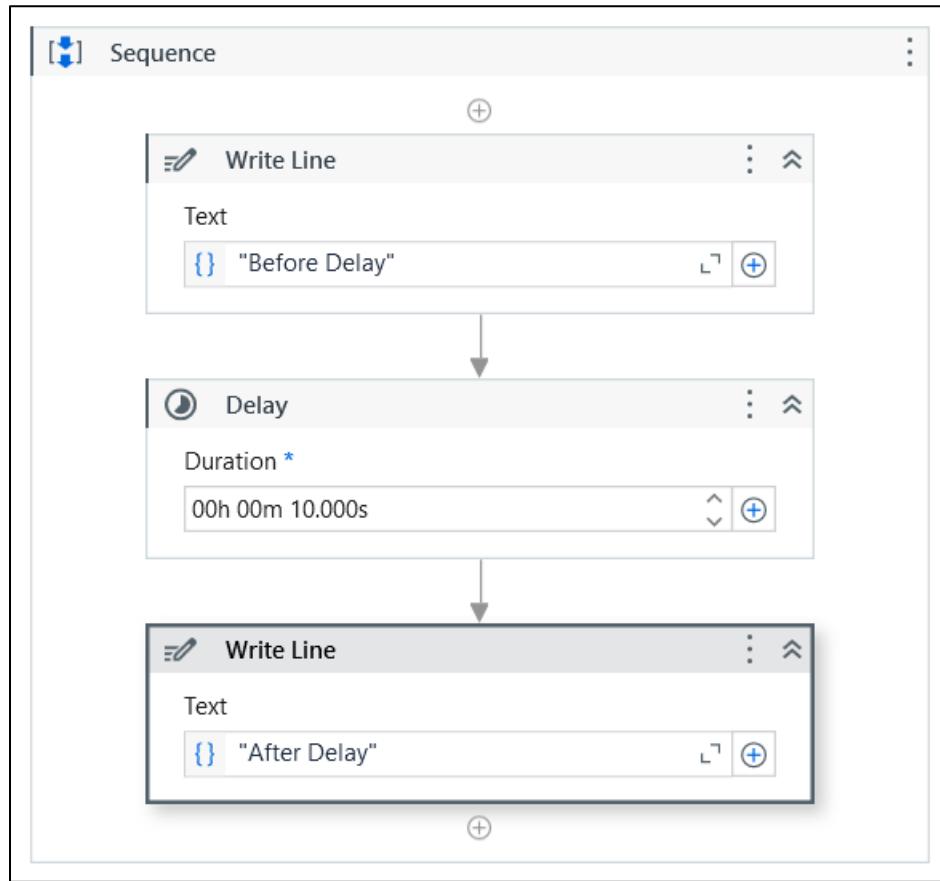
After Write Line drag and drop Delay Activity and mention the time to have the delay



After Delay again drag and drop Write Line Activity → write the given text as shown below



Complete Sequence:



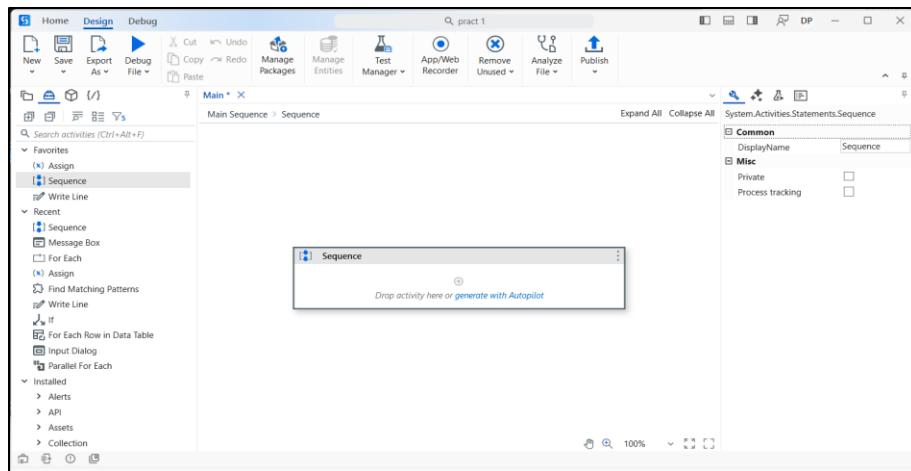
Output:

The screenshot shows the "Output" window with the following log entries:

- ① Execution started for file: Main
- ① pract 2e execution started
- ① Before Delay
- ① After Delay
- ① pract 2e execution ended in: 00:00:10

f. Create an automation to demonstrate use of decision statements (if)

Search for sequence → drag and drop



Create a Variable

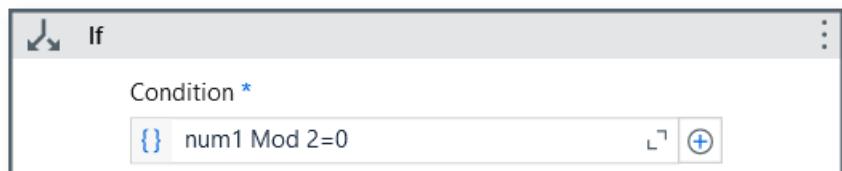
The screenshot shows the Data Manager window. It has tabs for Variables, Arguments, Namespaces, and Connections. The Variables tab is active. A table lists variables with columns for Name, Data Type, Scope, and Default Value. One row is shown: 'Create variable' (Name), 'Int32' (Data Type), 'Main' (Scope), and an empty Default Value field.

Name	Data Type	Scope	Default Value
(x) num1	Int32	Main	{}

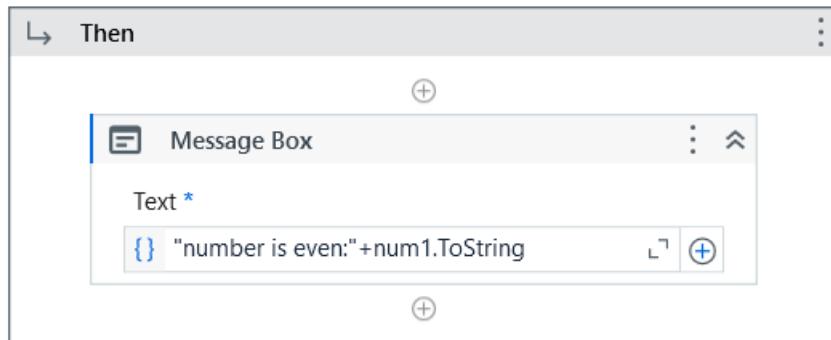
Drag and drop Input dialogue box → Enter the details in the dialogue box → And create a Variable in properties output section

The screenshot shows the Properties pane for the 'Input Dialog' activity. The 'Common' section includes fields for DisplayName ('Input Dialog'), IsPassword (unchecked), Label ('Enter a number'), Options ('An array o...'), Options String ('A string co...'), Title ('Enter num...'), and Result ('num1'). The 'Input' section contains fields for Input Title ('Enter number'), Input Label ('Enter a number to check Odd or Even : +r'), Input Type ('Text Box'), and Value entered ('num1').

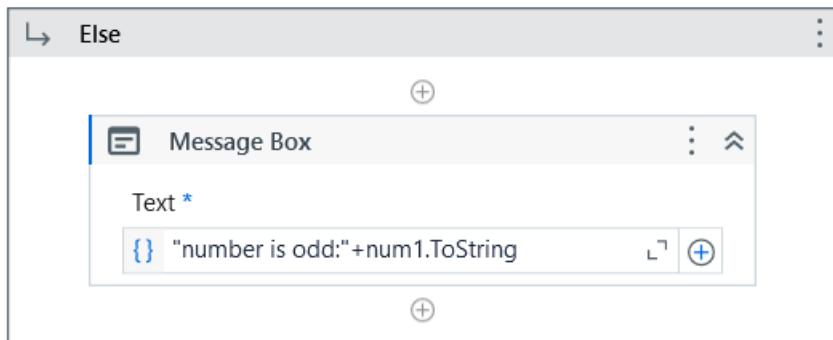
Drag and drop If Else Activity → In If condition write the expression as given in the diagram



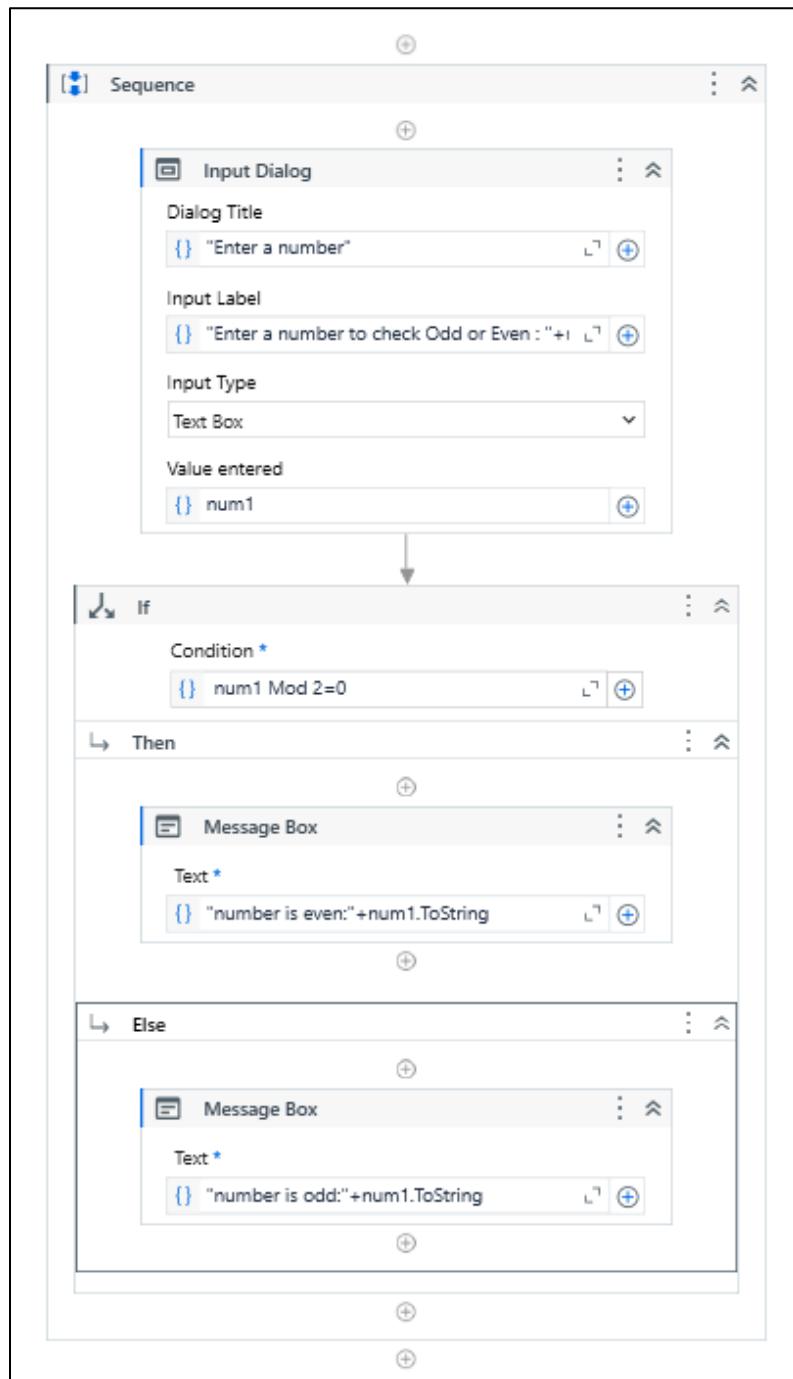
In Then condition add a Message box → write the expression as shown in the diagram



After that in Else condition add a Message box → write the expression as shown in the diagram

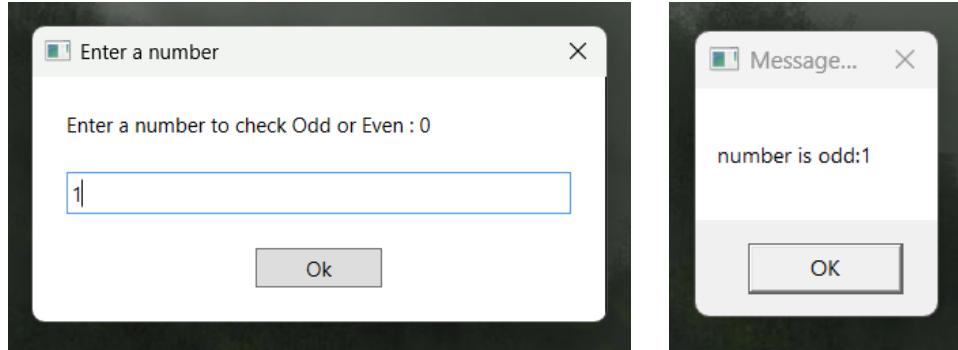


Complete Sequence:

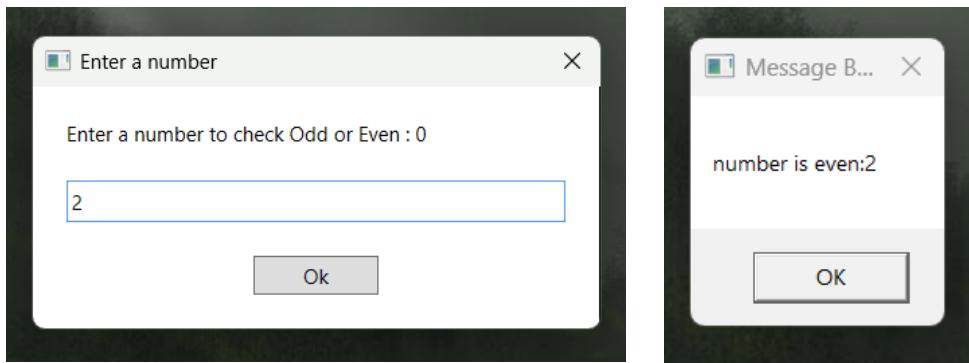


Output:

For Odd number



For Even number

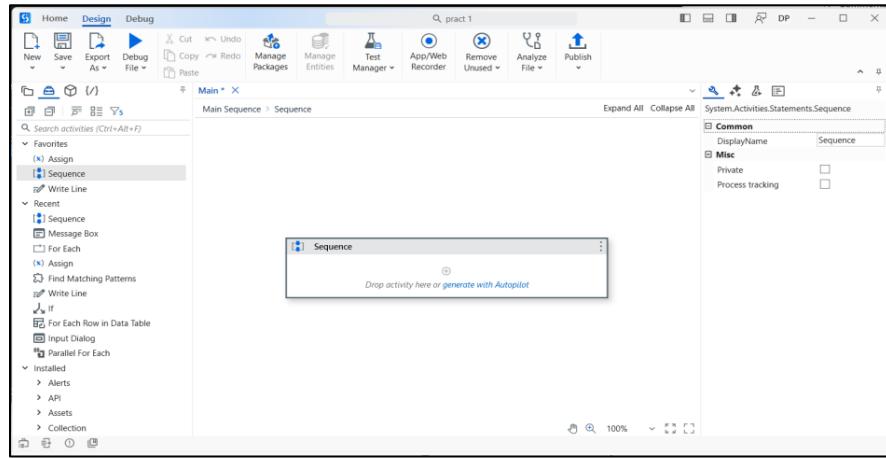


Practical – 3

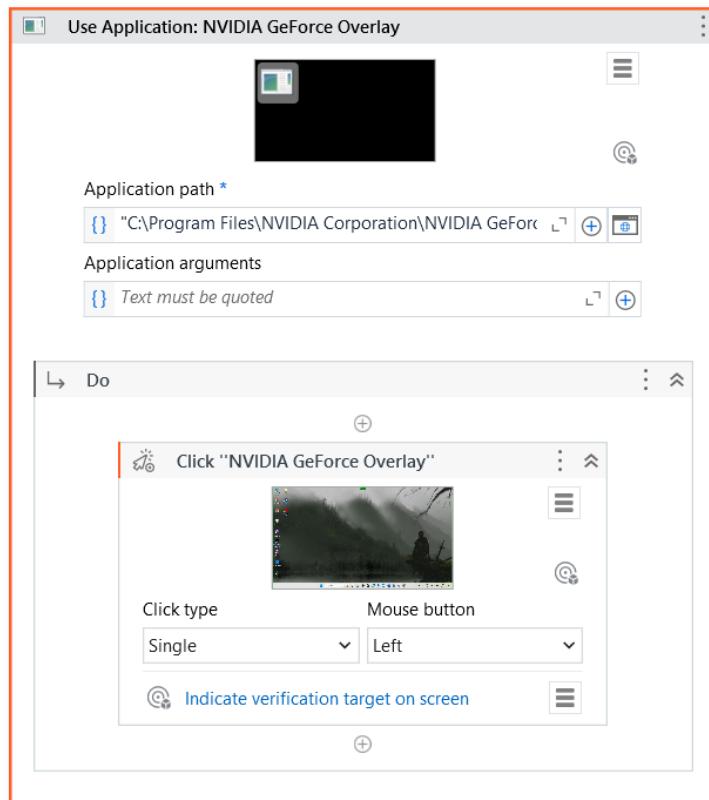
Aim: Recording

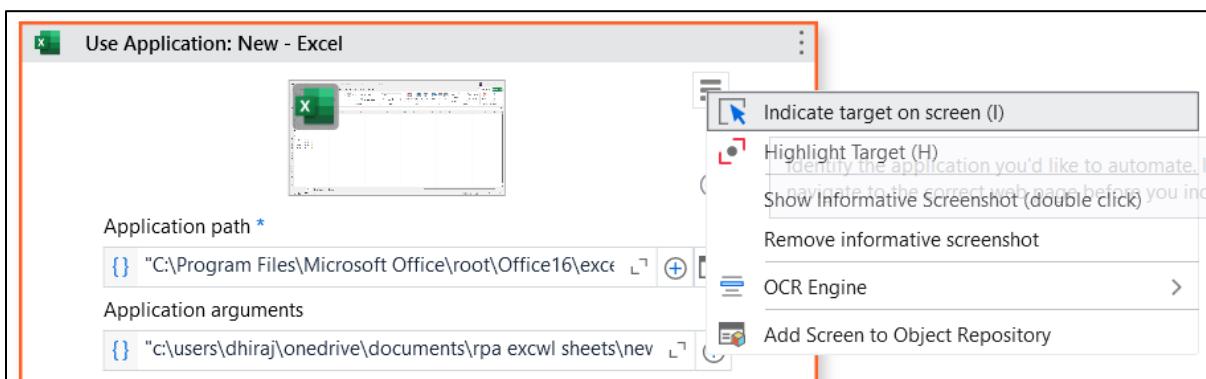
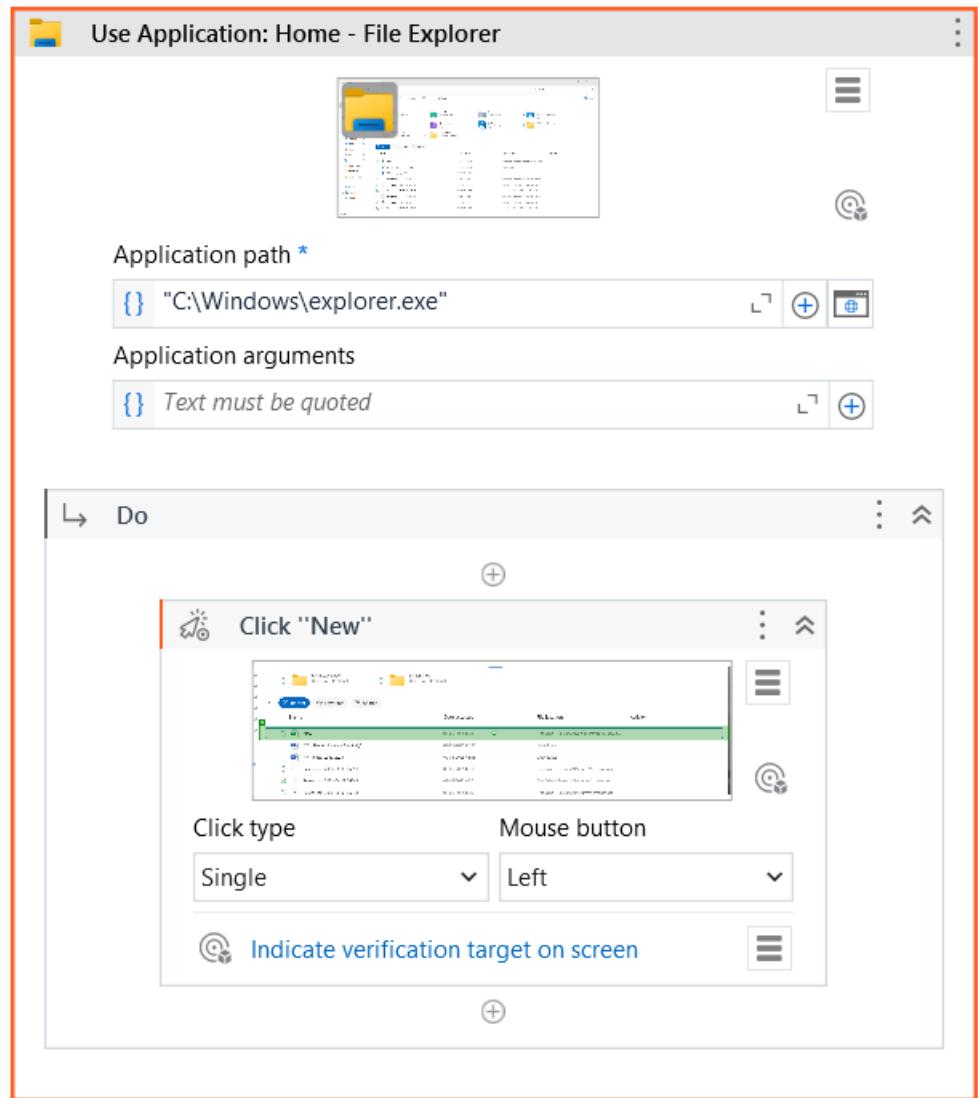
a. Basic Recording using Toolbar.

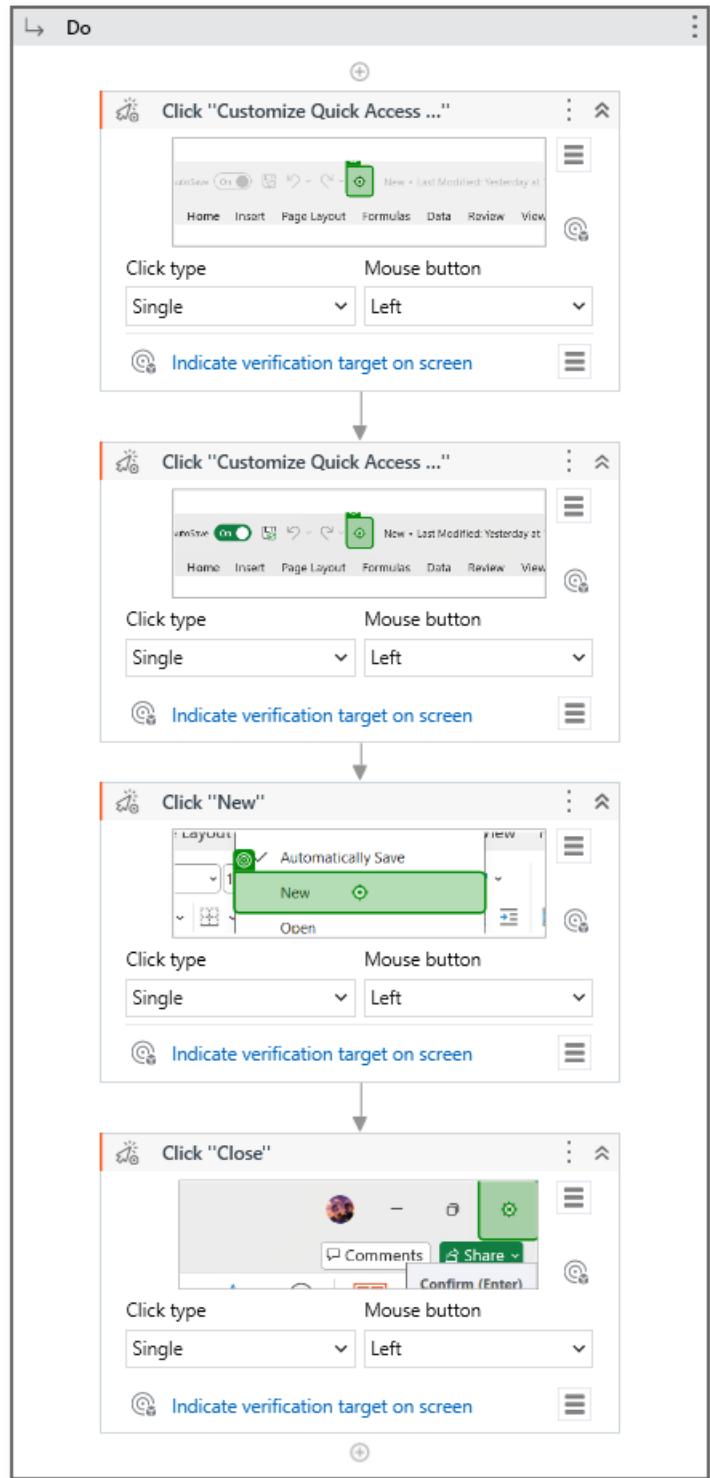
Search for sequence → drag and drop



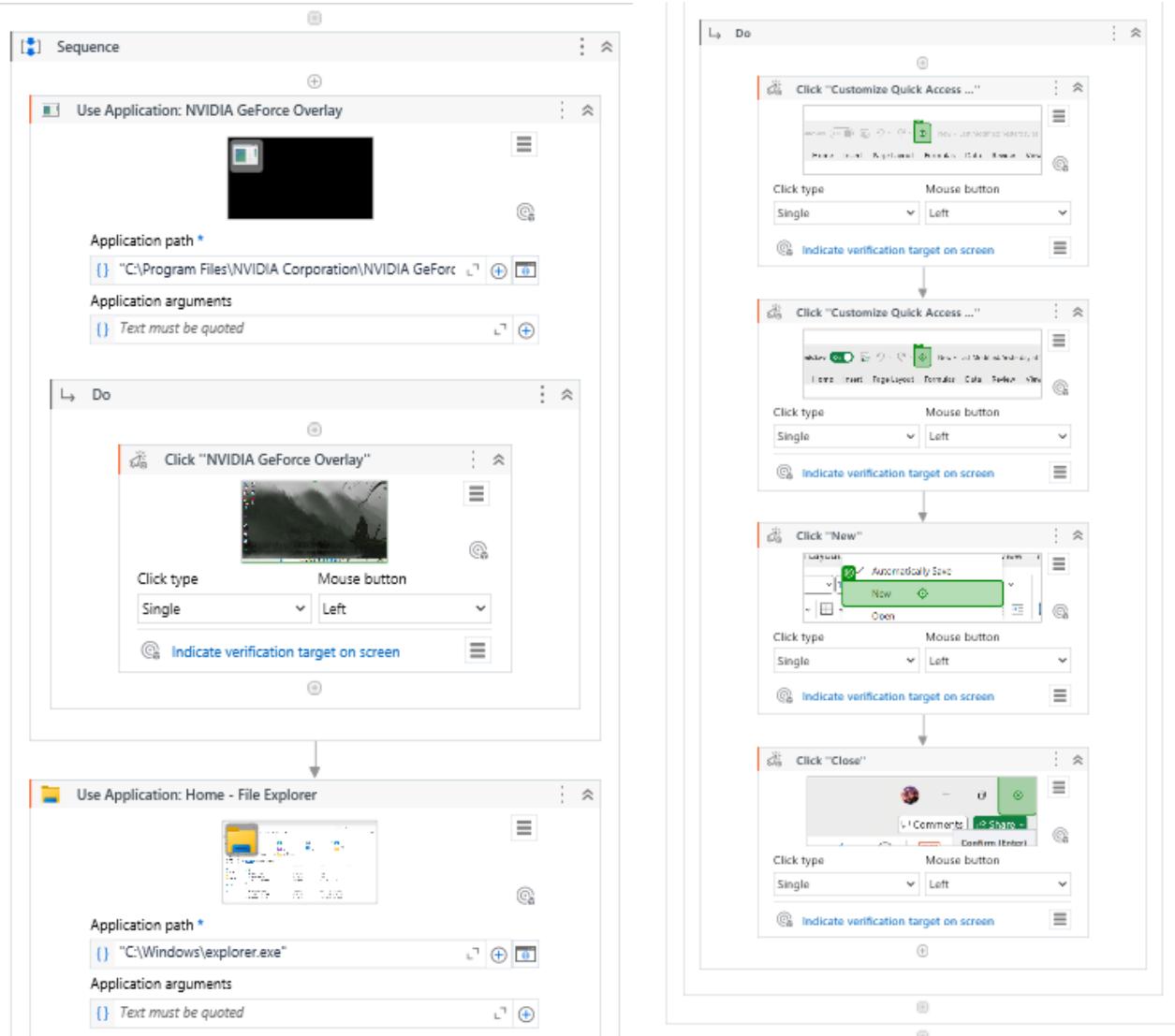
As you can see when recorder is its records every step and create a sequence chart following are the representation from start to output



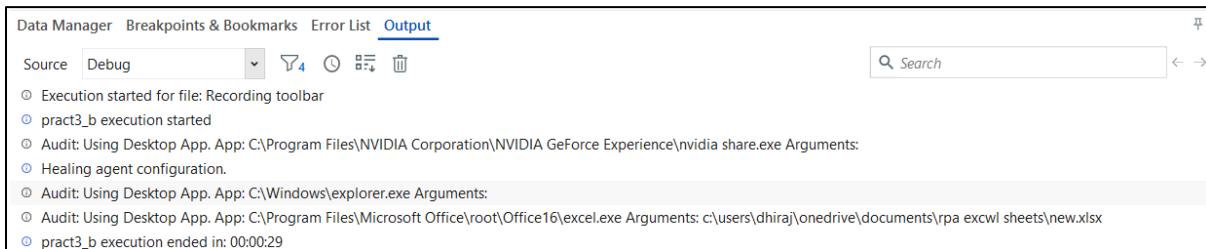




Complete Sequence:

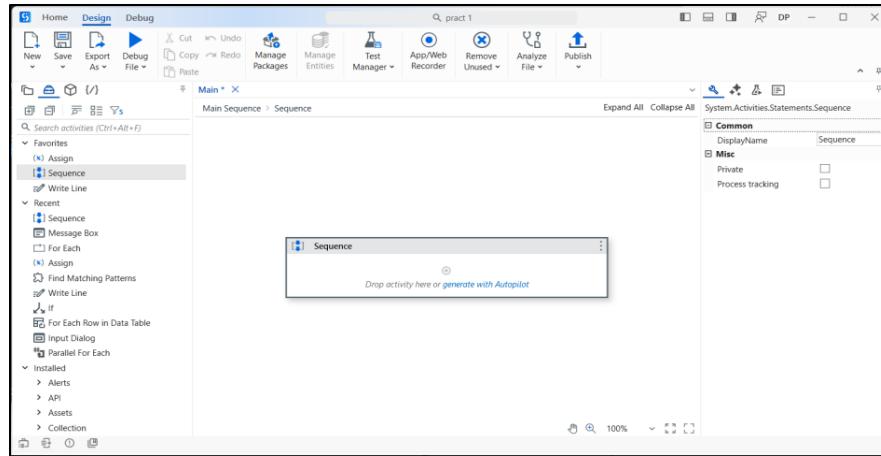


Output:

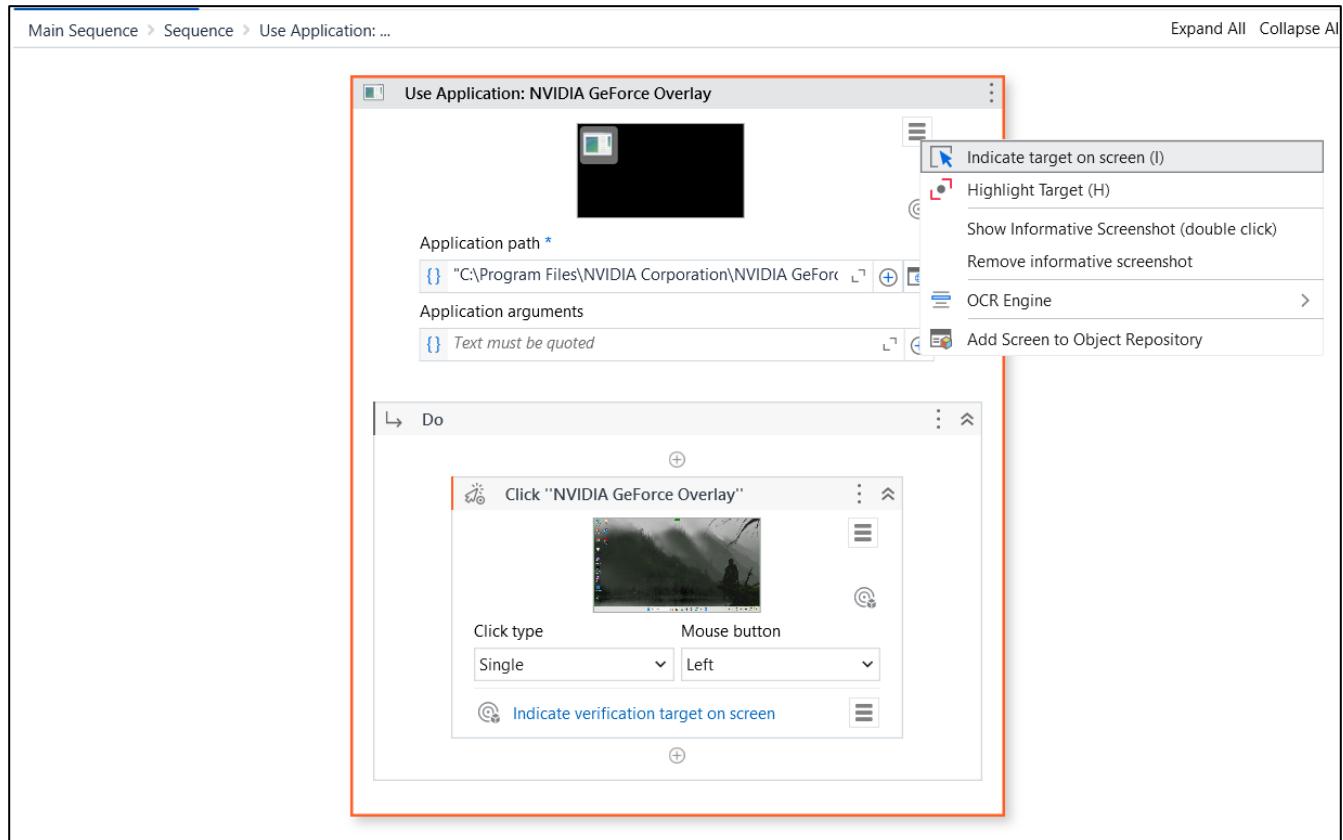


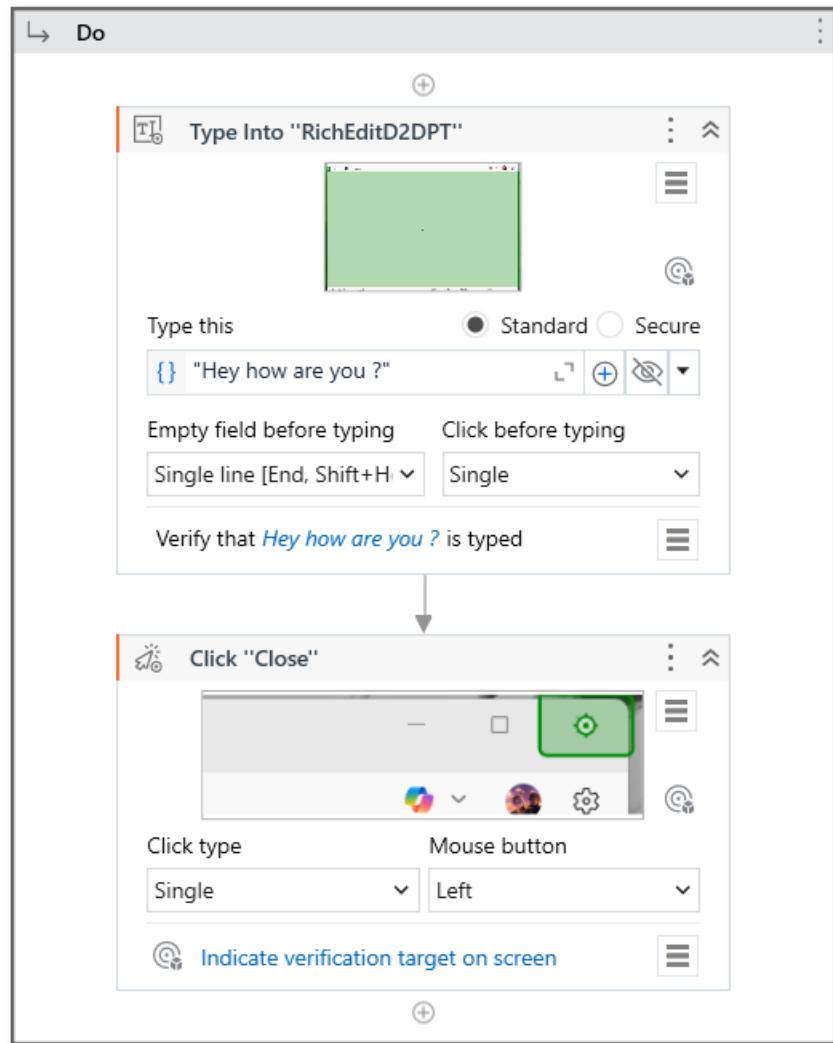
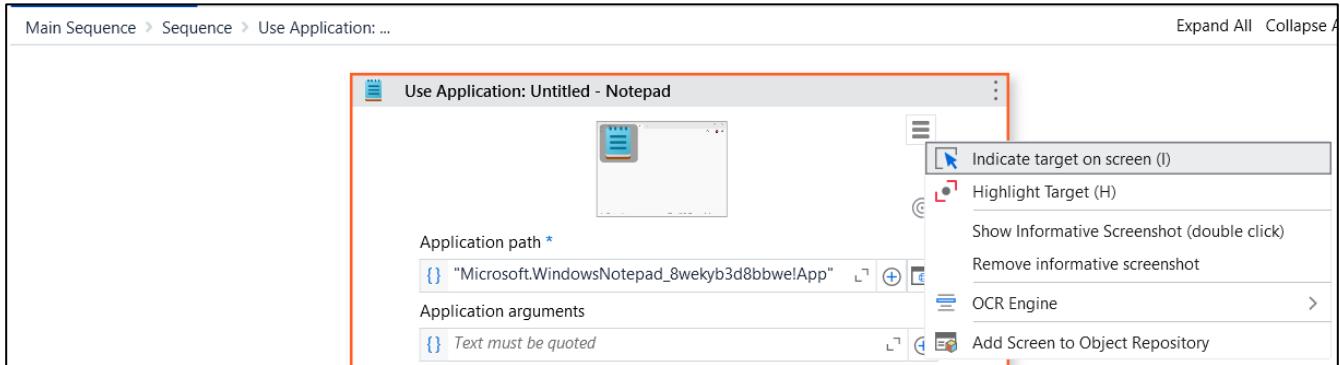
b. Basic Recording using Notepad.

Search for sequence → drag and drop

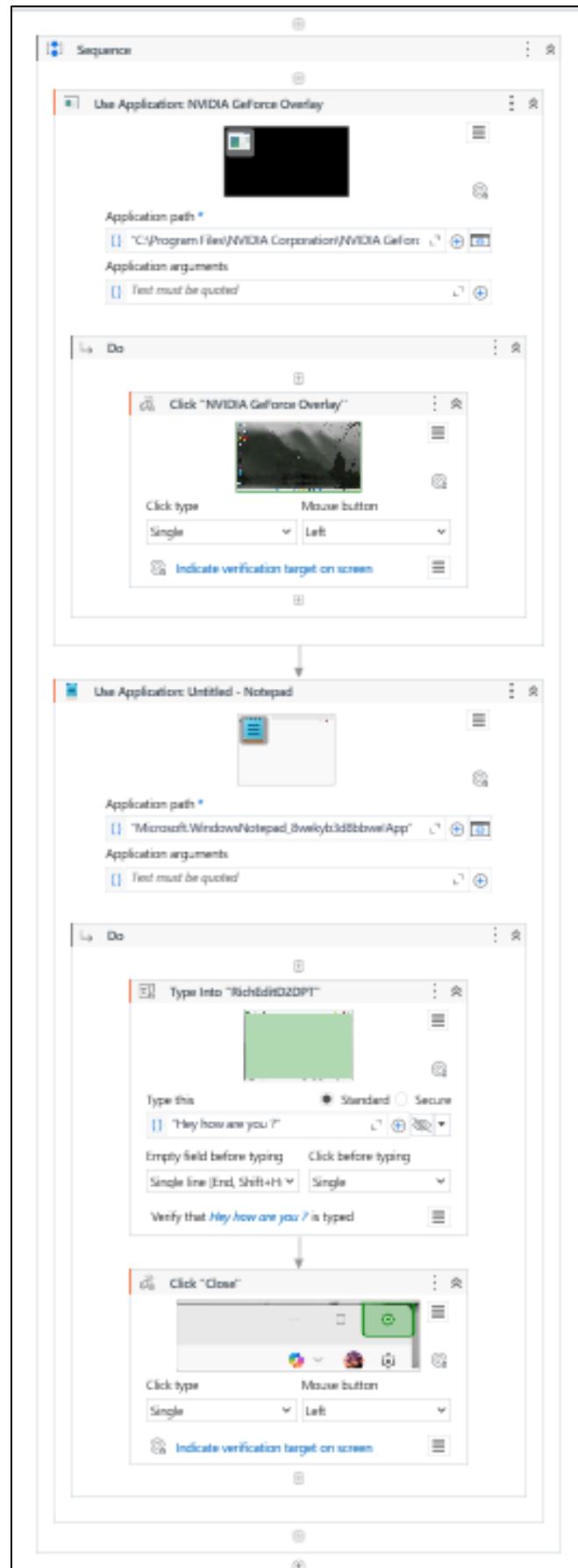


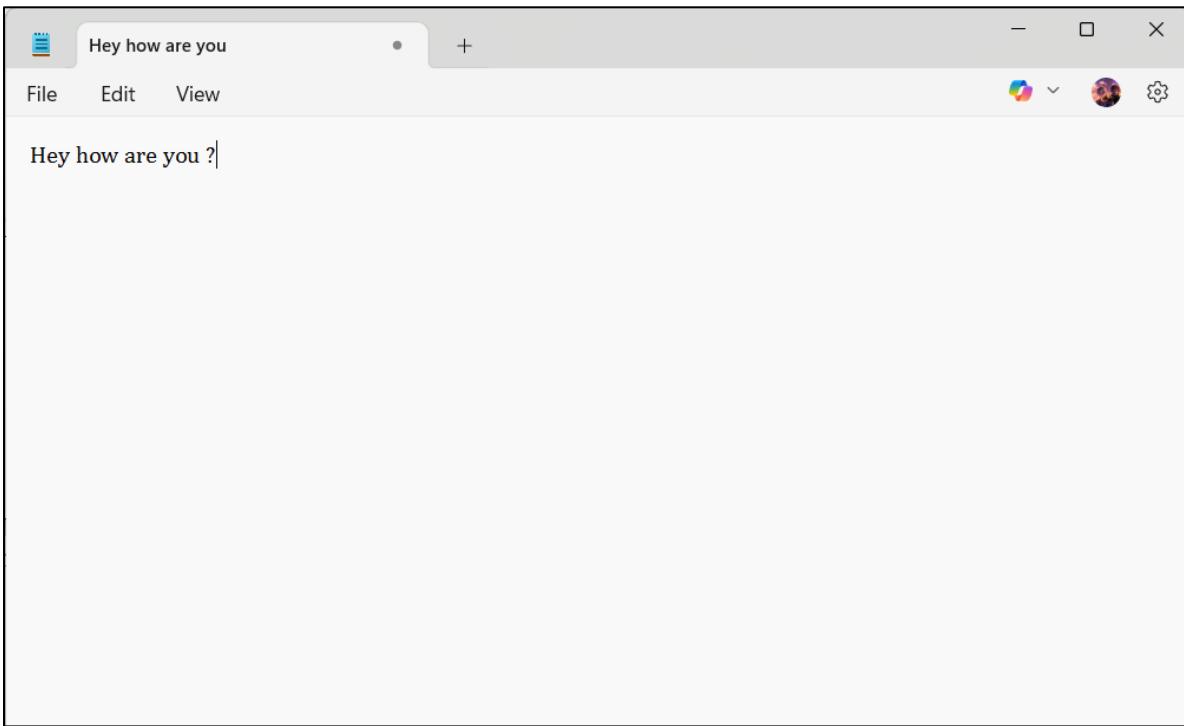
As you can see when recorder is its records the every step and create a sequence chart following are the representation from start to output





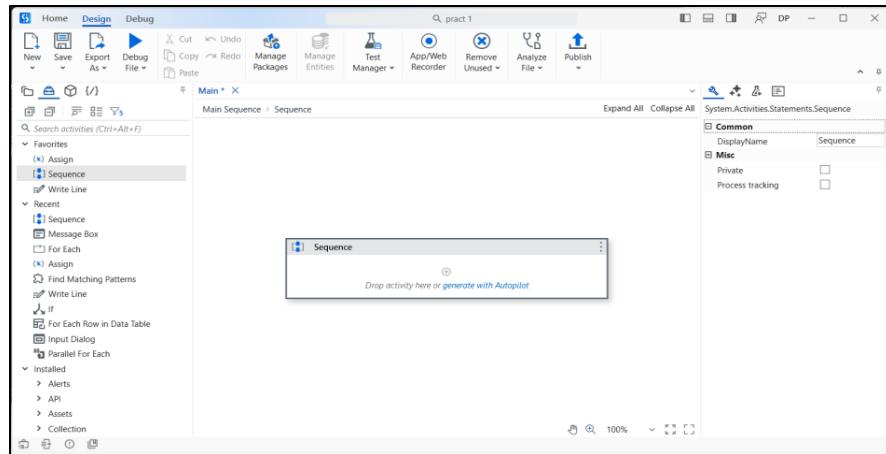
Complete Sequence:



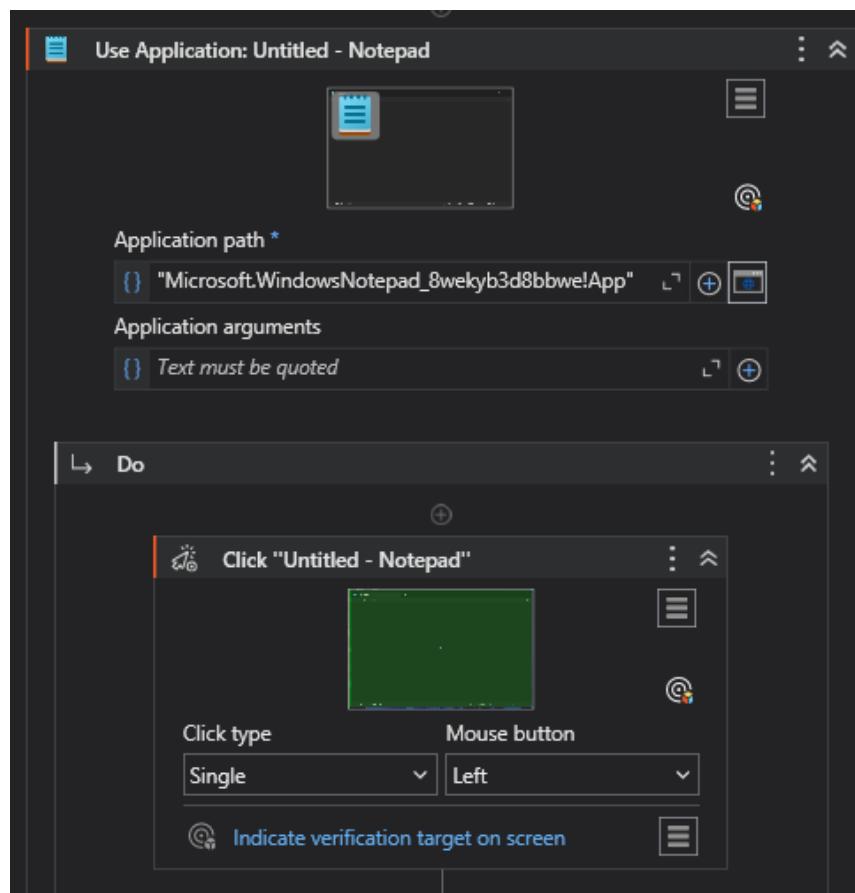
Output:

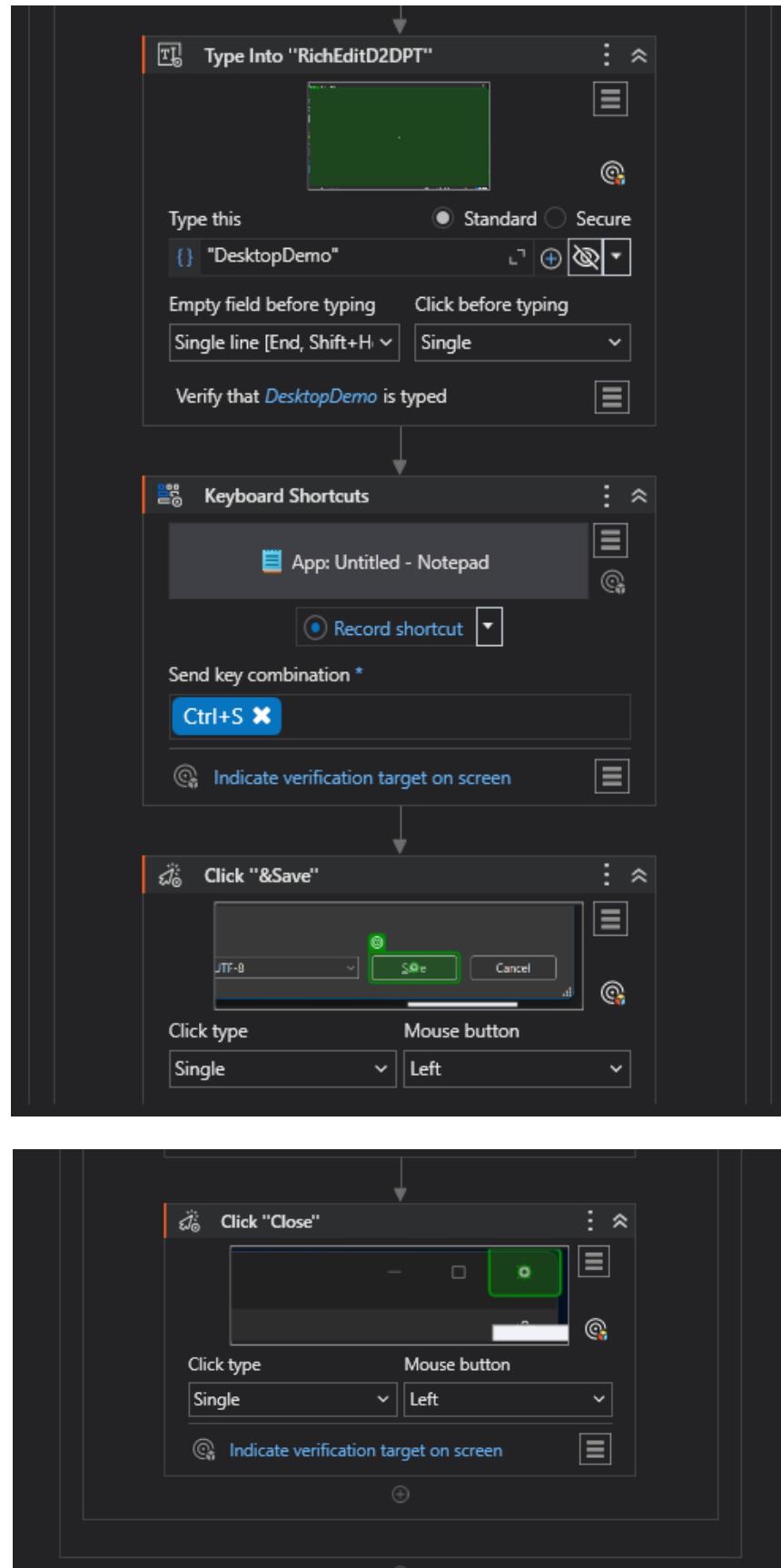
c. Desktop Recording by creating a workflow.

Search for sequence → drag and drop

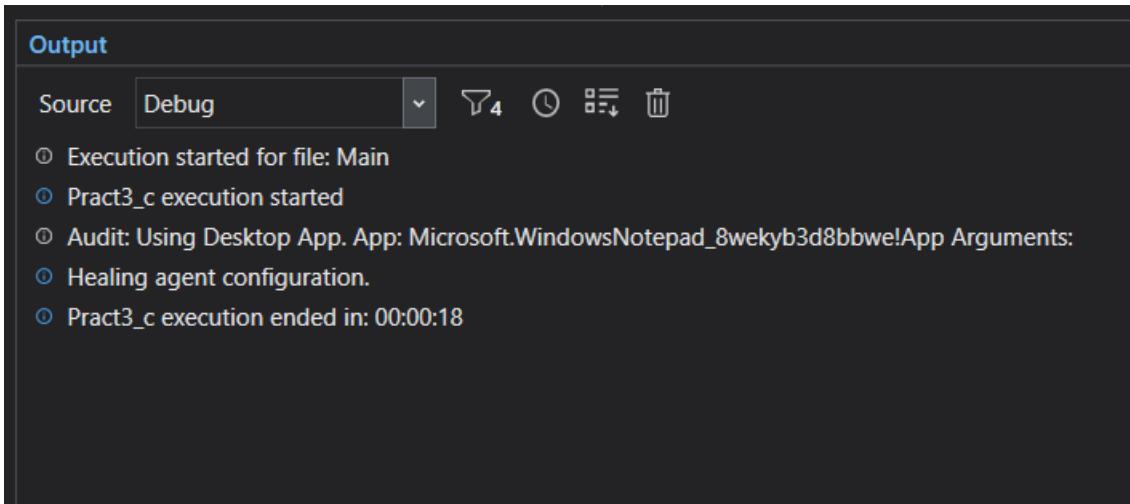


As you can see when recorder is its records every step and create a sequence chart following are the representation from start to output



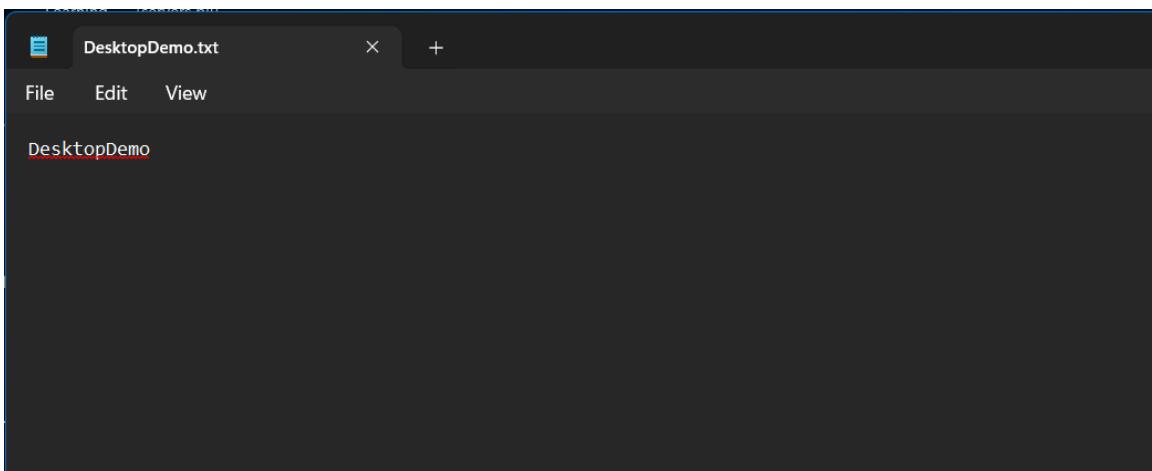


Output:



The screenshot shows the 'Output' window from a development environment. The 'Debug' tab is selected. The log output is as follows:

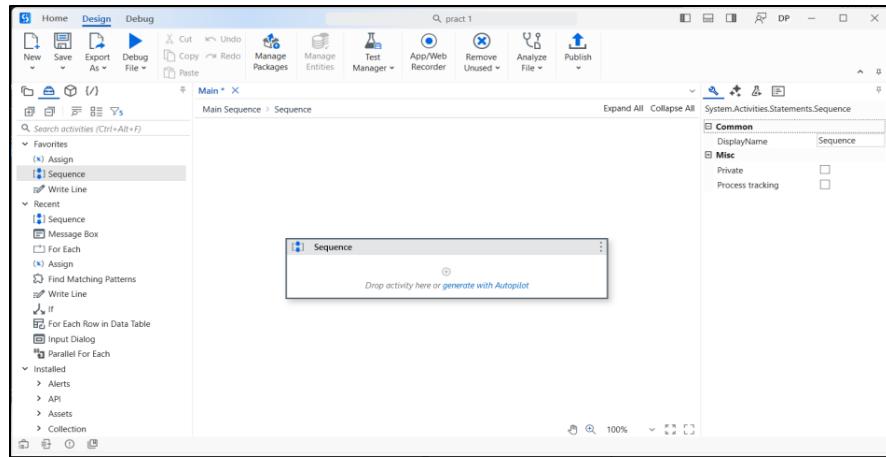
```
Execution started for file: Main
Pract3_c execution started
Audit: Using Desktop App. App: Microsoft.WindowsNotepad_8wekyb3d8bbwe!App Arguments:
Healing agent configuration.
Pract3_c execution ended in: 00:00:18
```



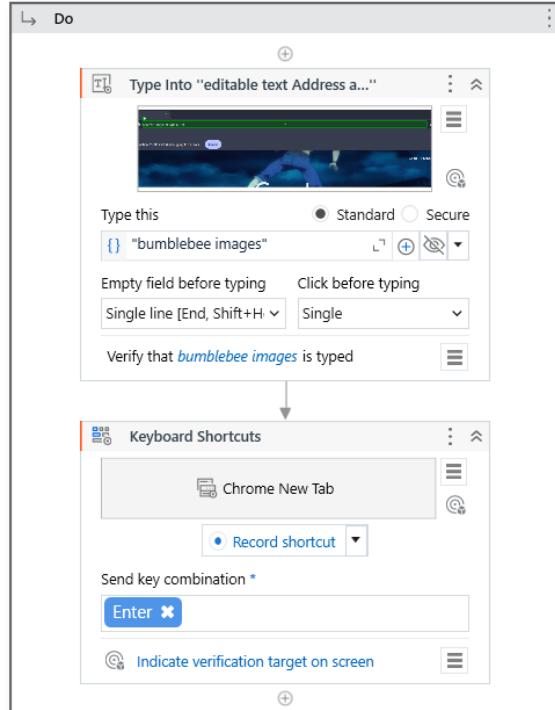
The screenshot shows a text editor window titled 'DesktopDemo.txt'. The file contains the text 'DesktopDemo'.

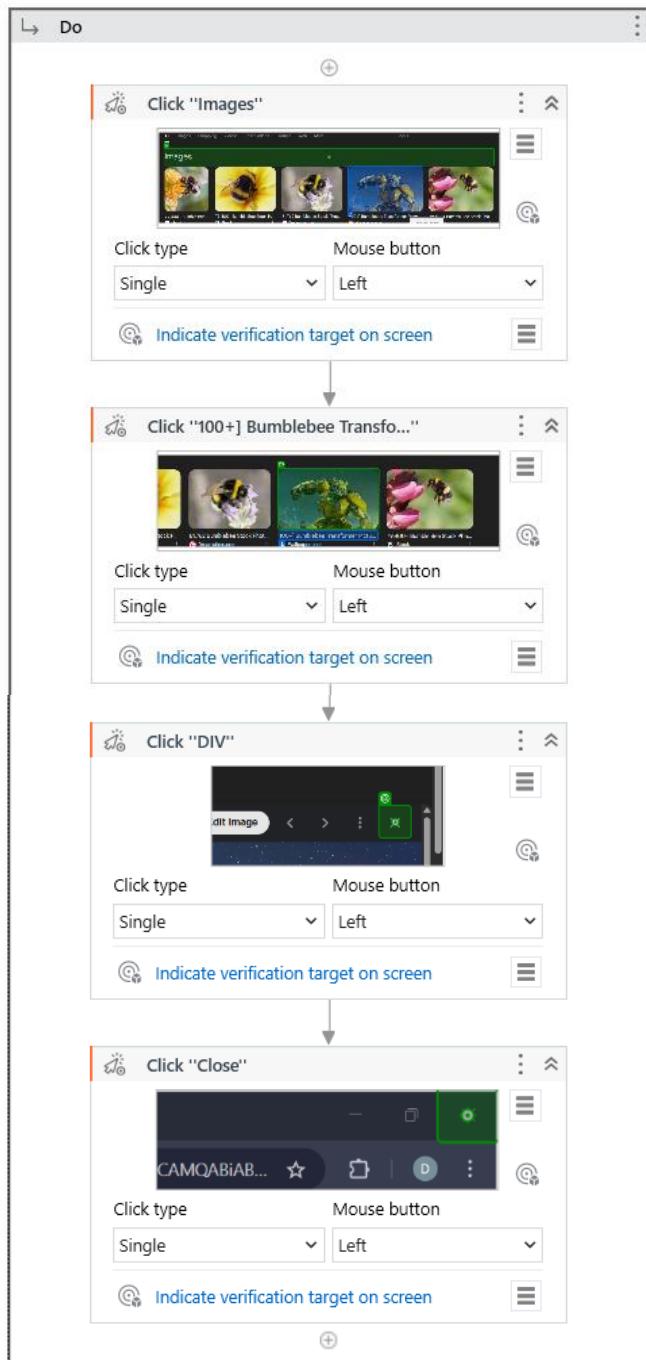
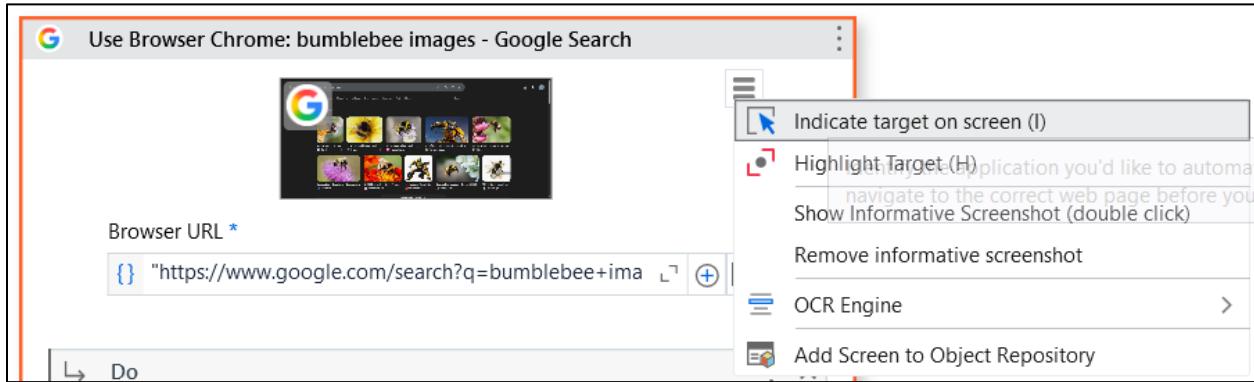
d. Web Recording.

Search for sequence → drag and drop

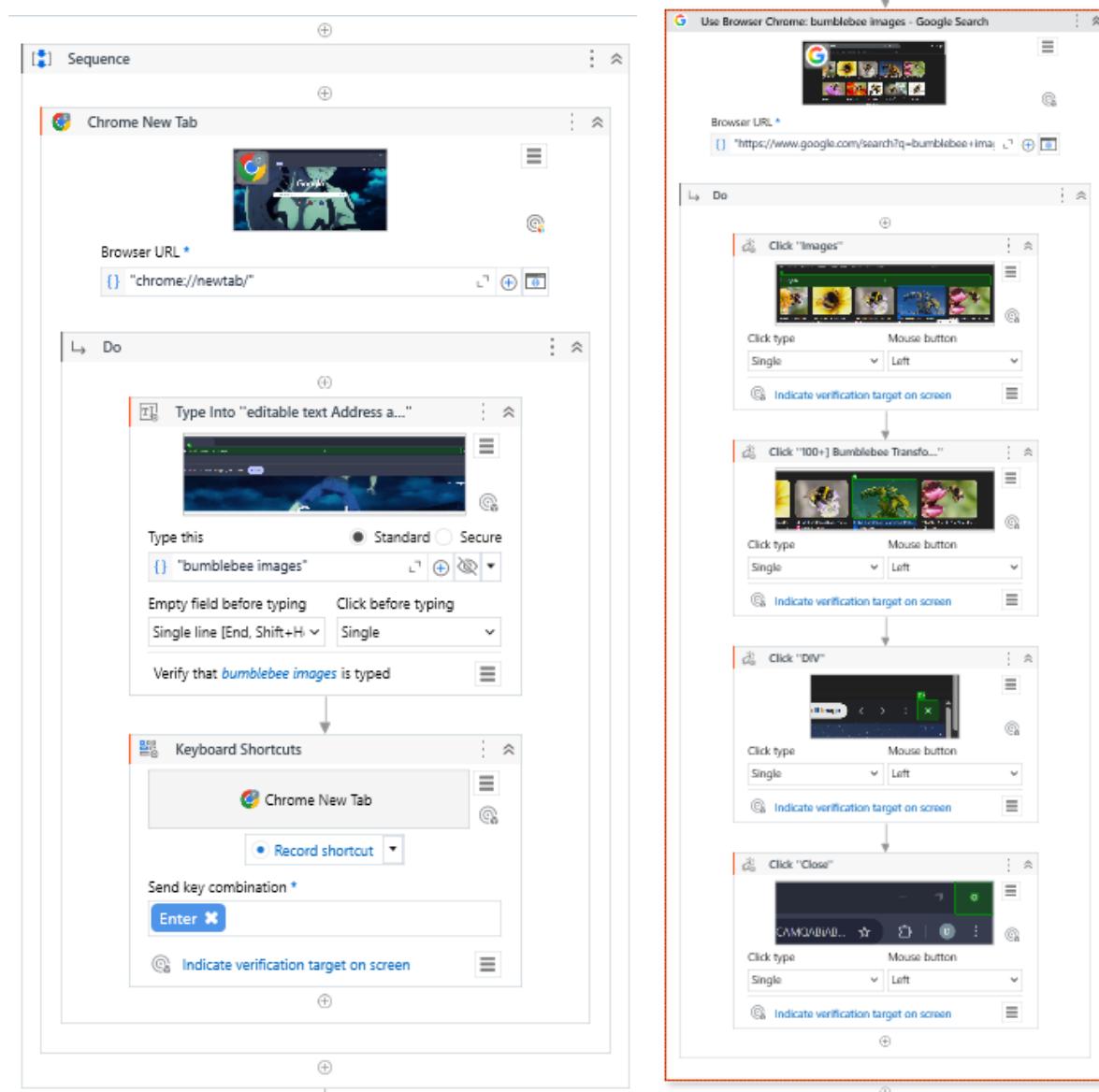


As you can see when recorder is its records the every step and create a sequence chart following are the representation from start to output





Complete Sequence:



Output:

```

Data Manager Breakpoints & Bookmarks Error List Output
Source Debug ⏪ 4 ⏳ ⏴ ⏵ ⏷
① Execution started for file: Recording Webpage
② pract3_b execution started
③ Audit: Using Web App. Browser: Chrome URL: chrome://newtab/
④ Healing agent configuration.
⑤ Audit: Using Web App. Browser: Chrome URL: https://www.google.com/search?q=bumblebee+images&rlz=1C1CHBF_enIN1142IN1142&oq=bumblebee+images&gs_lcrp=EgZjaH...
⑥ pract3_b execution ended in: 00:00:07

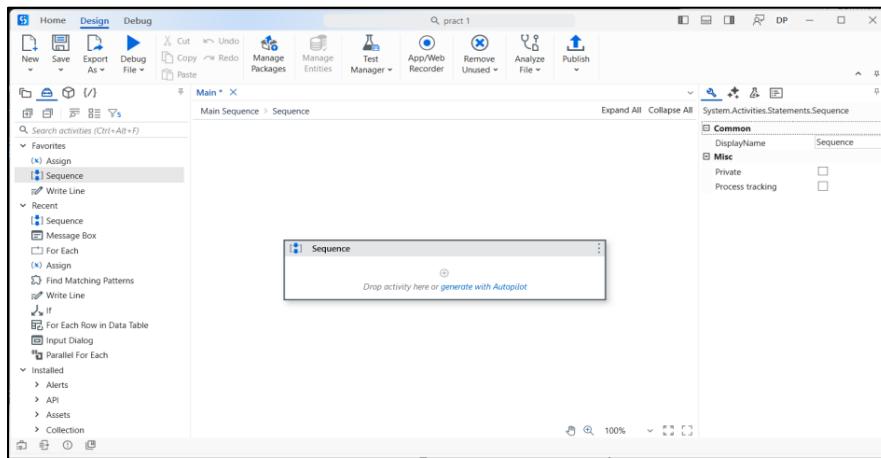
```

Practical – 4

Aim: Excel Automation

- Automate the process to extract data from an excel file into a data table and vice versa.

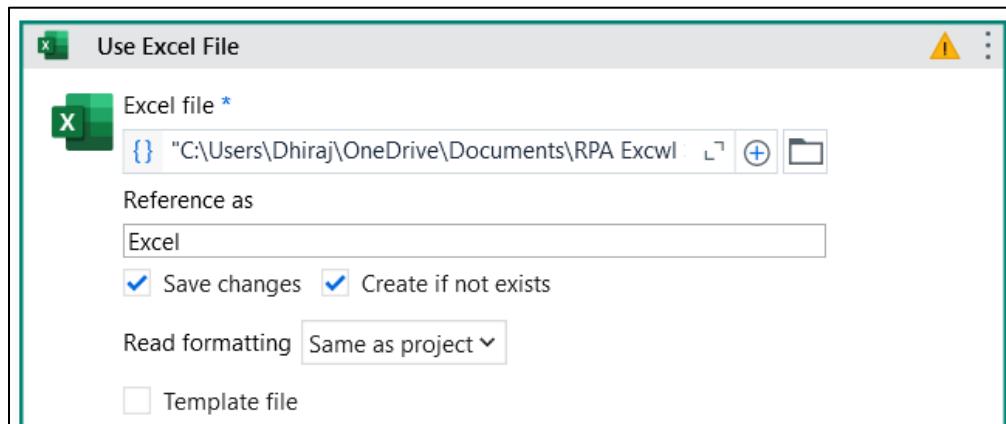
Search for sequence → drag and drop



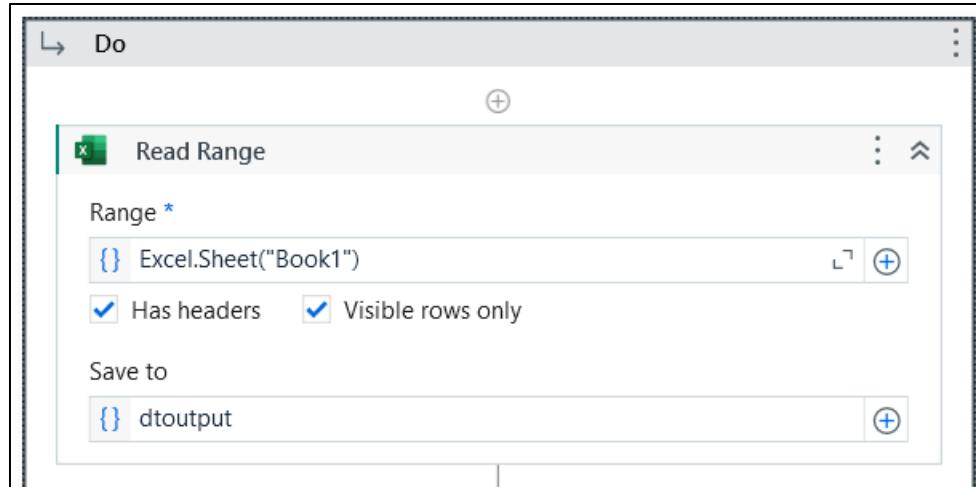
Create Variables

Data Manager Breakpoints & Bookmarks Error List Output				
(x) Variables	(a) Arguments	Namespaces	Connections	
Name	Q	Data Type	Scope	Default Value
<i>Create variable</i>				
(x) newoutput		DataTable	Main	{}
(x) dtoutput		DataTable	Use Excel File	{}

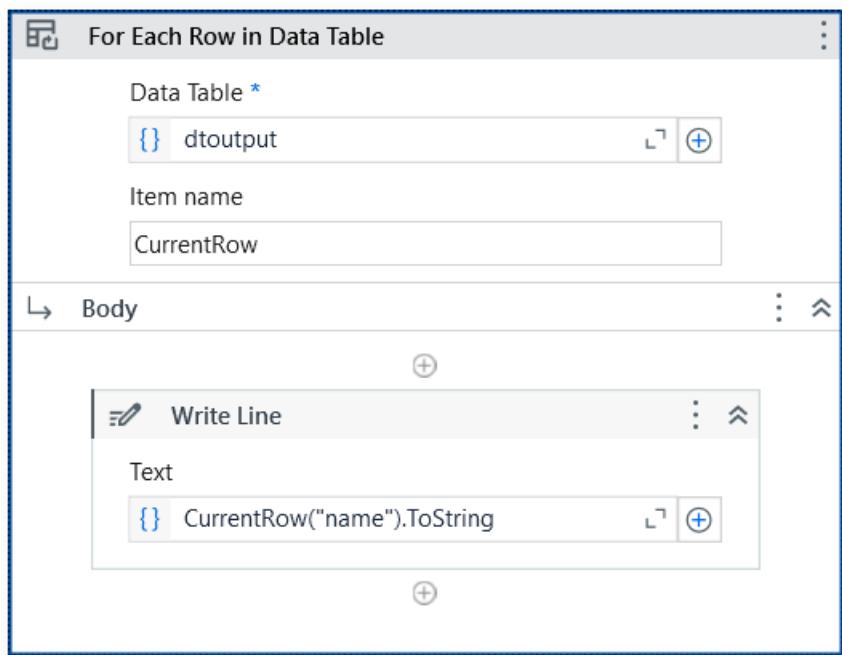
Inside Sequence drag and drop Use Excel File Activity → Mention the file path as shown



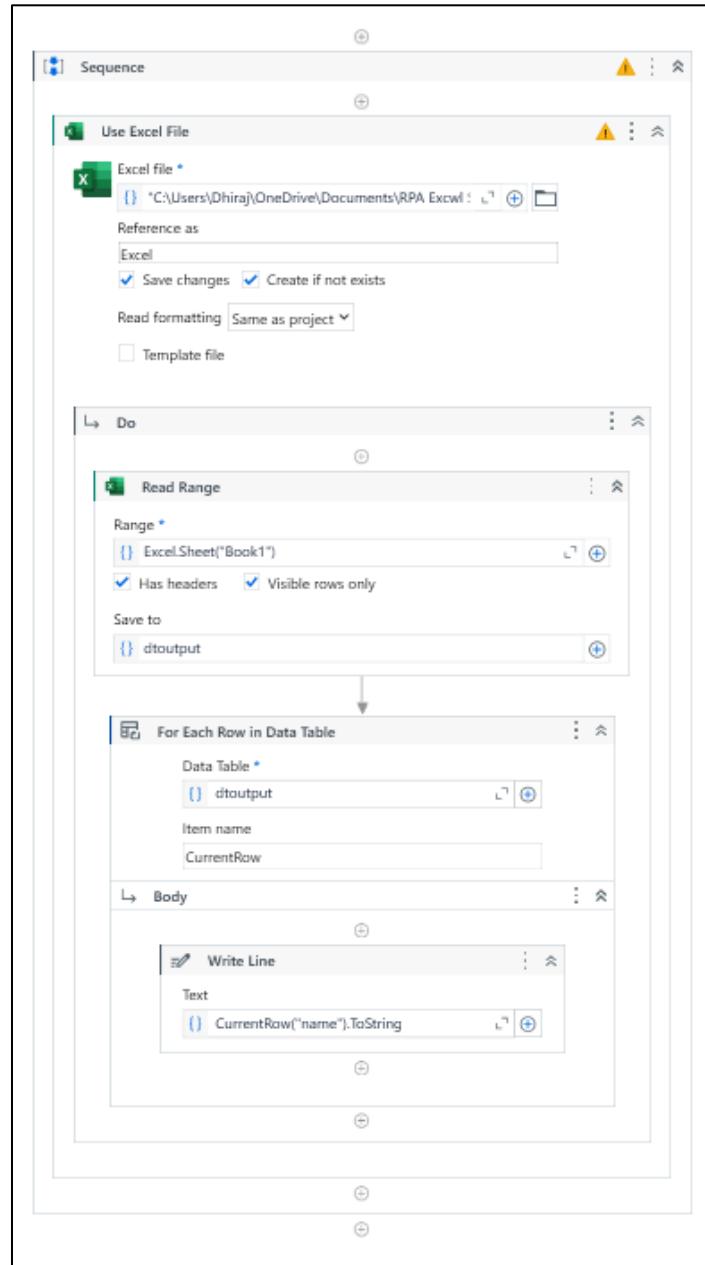
Inside Do condition add Read Range Activity and add the details as shown and also mention the variable



After Read Range Activity drag and drop For Each Row in Data Table → Mentioned the created variable → Inside Body add Write Line Activity and write the expression as shown



Complete Sequence:

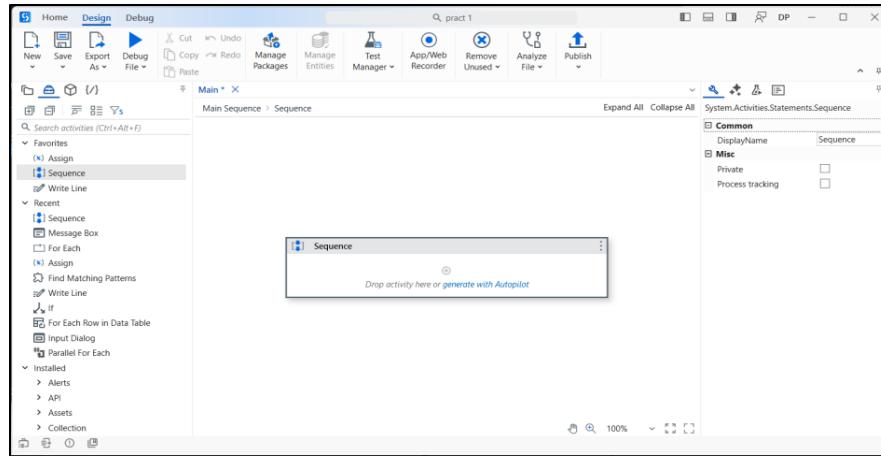


Output:

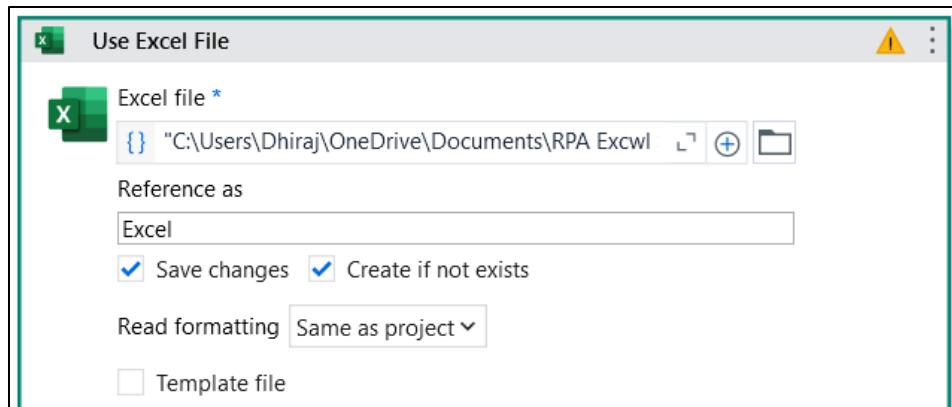
```
Execution started for file: Main
Excel execution started
Audit: Using Excel File: C:\Users\DHiraj\OneDrive\Documents\RPA Excel Sheets\Book1.csv
Om
Dhiraj
Mohan
Keshav
Omkar
Kunal
Siddhi
Excel execution ended in: 00:00:04
```

b. Create an automation to Write data to specific cell of an excel sheet.

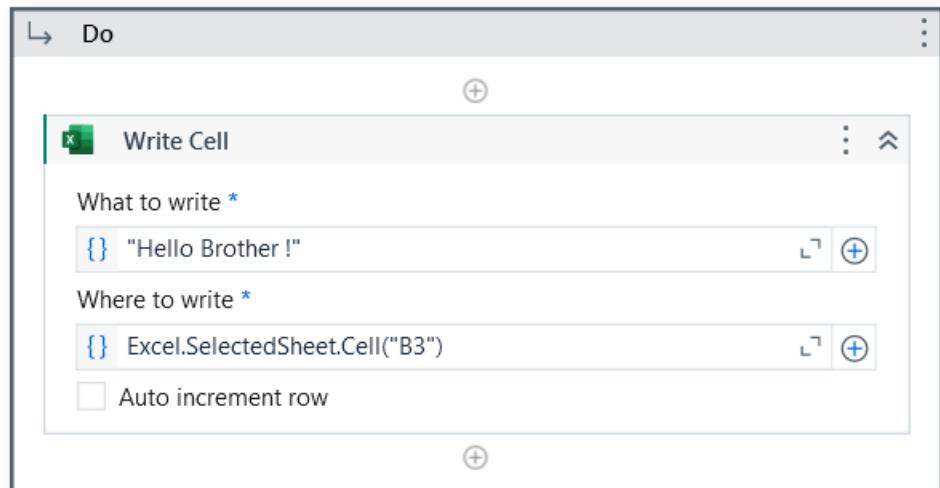
Search for sequence → drag and drop



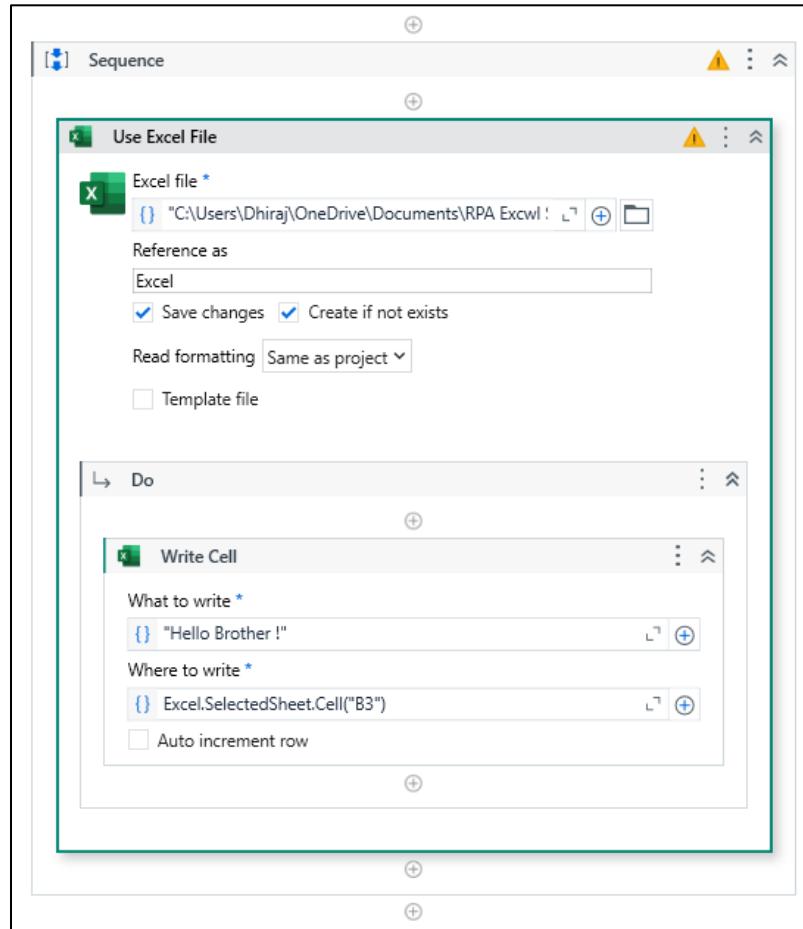
Inside Sequence drag and drop Use Excel File Activity → Mention the file path as shown



Inside Do condition drag and drop Write cell Activity → Mention what to write in the cell and also mention the cell location



Complete Sequence:



Output:

Before

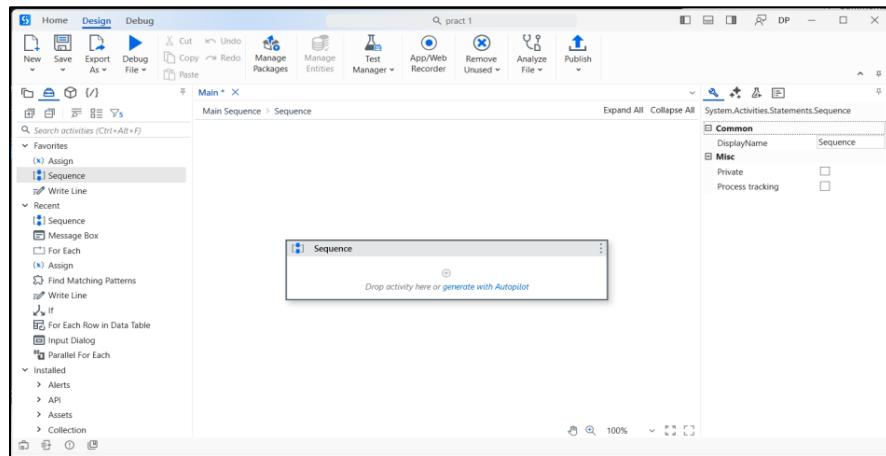
	A	B	C	D	E
1	id	departmer	salary		
2	1	baf	15000		
3	2	Bms	8000		
4	3	it	5000		
5	4	baf	7500		
6	5	it	9000		
7					

After

	A	B	C	D
1	id	department	salary	
2	1	baf	15000	
3	2	Hello Brother !	8000	
4	3	it	5000	
5	4	baf	7500	
6	5	it	9000	
7				

c. Create an automation to Read data to specific cell of an excel sheet.

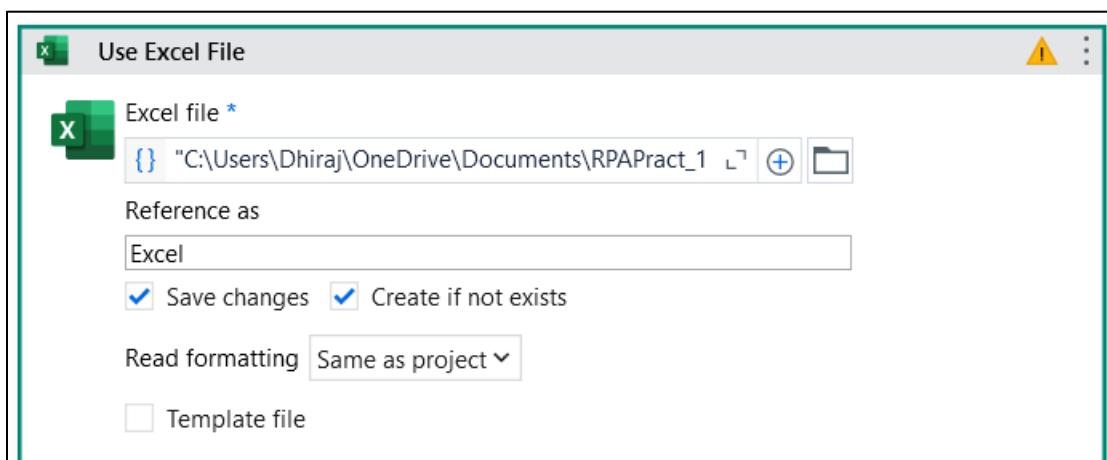
Search for sequence → drag and drop



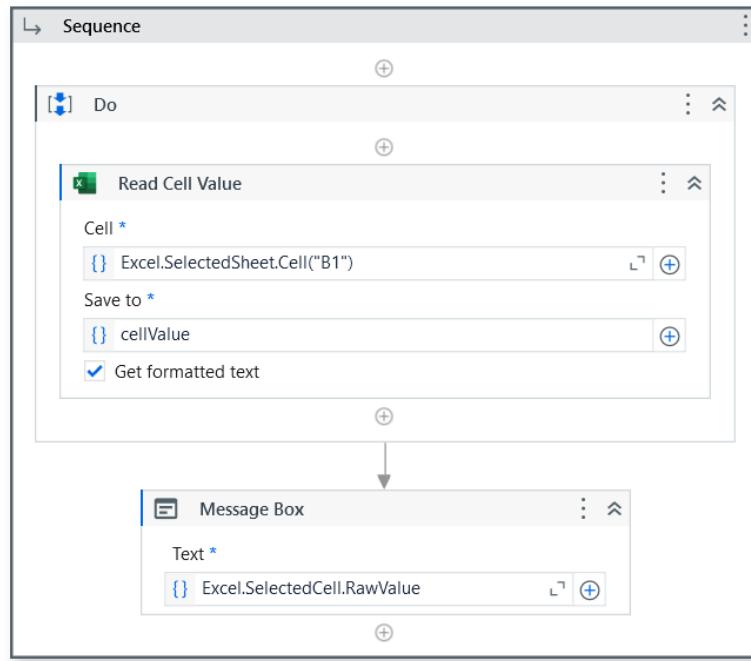
Create Variables

Data Manager Breakpoints & Bookmarks Error List Output				
(x) Variables	(a) Arguments	Namespaces	Connections	
Name		Data Type	Scope	Default Value
<i>Create variable</i>				
(x) cellValue		String	Do	{}
(x) cellvalue		String	Do	{}

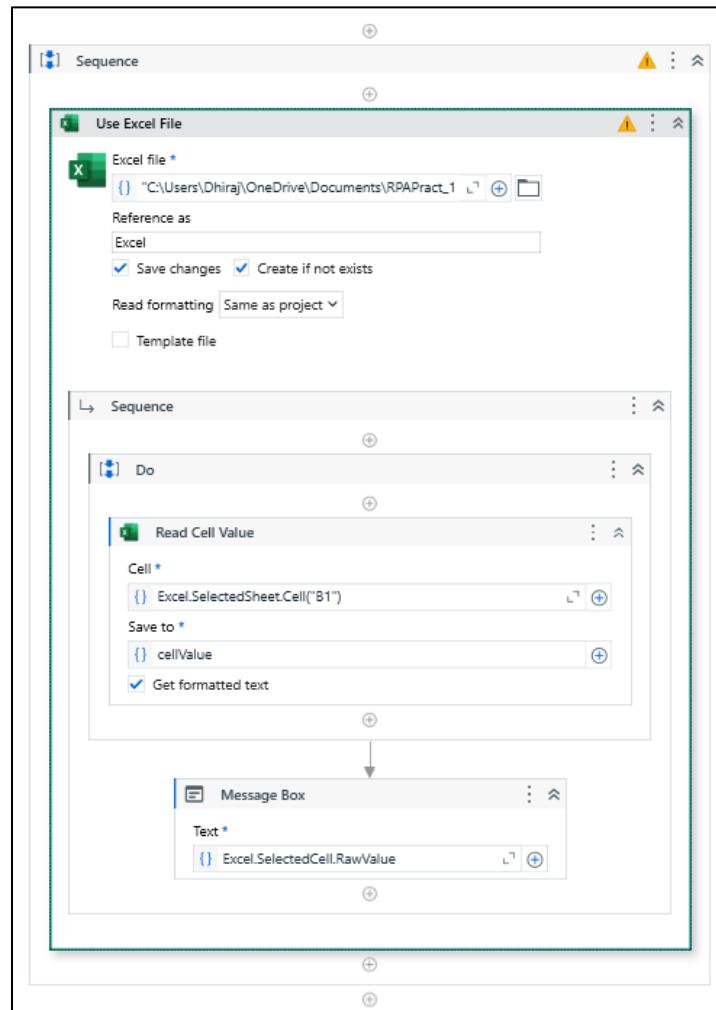
Inside Sequence drag and drop Use Excel File Activity → Mention the file which wanted to be Read as shown



In do drag and drop Read Cell Value Activity → Mention the cell you wanted to read as shown →
Next add Message Box to display the output



Complete Sequence:



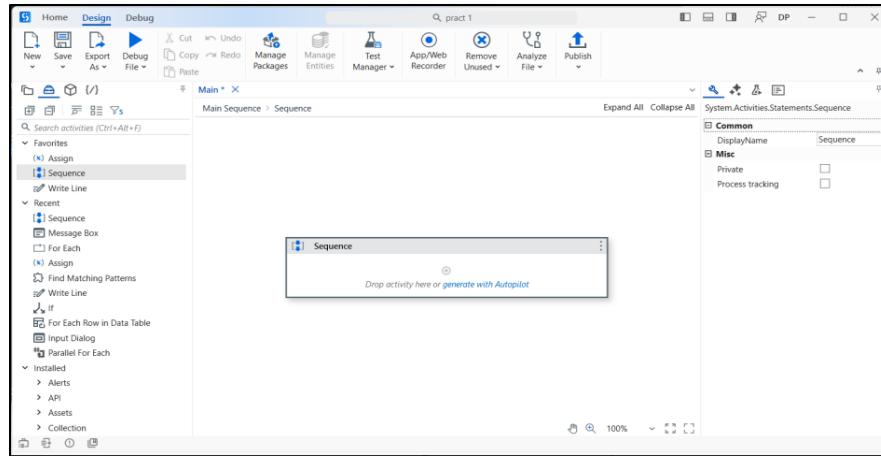
Output:

A screenshot of Microsoft Excel showing a table of height and weight data. The table has columns for Height(ft), Height(in), and Weight. A message box titled "Message..." is overlaid on the screen, displaying the word "Weight" and an "OK" button.

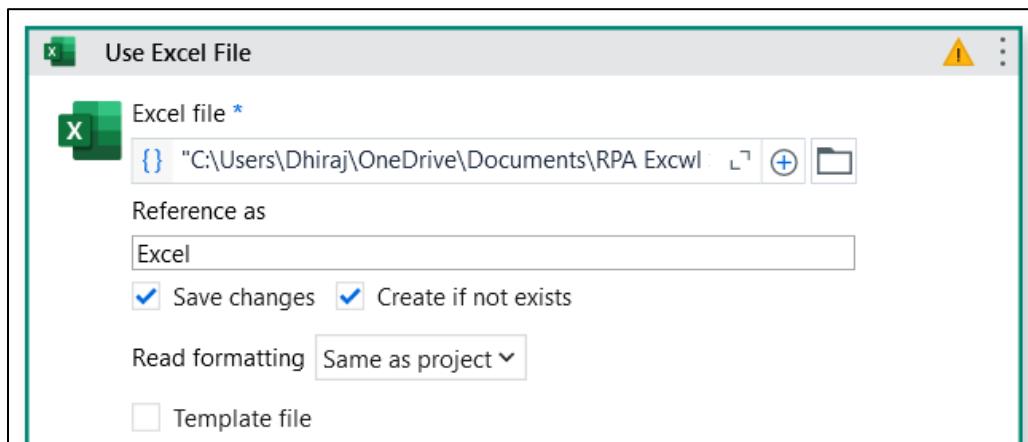
	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Height(ft)	Height(in)	Weight										
2	5	2	147										
3	6	4	150										
4	4	3	170										
5	5	9	110										
6													
7													
8													
9													
10													
11													
12													
13													

d. Create an automation to append data to specific cell of an excel sheet.

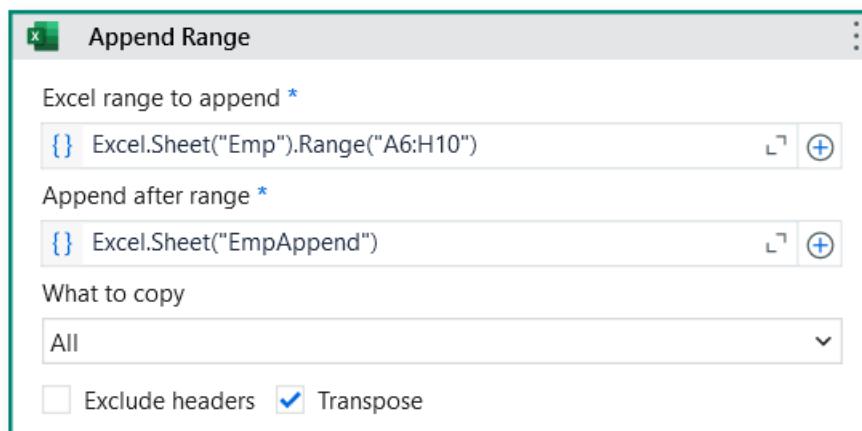
Search for sequence → drag and drop



Inside Sequence drag and drop Use Excel File Activity → Mention the file which wanted to be filtered as shown



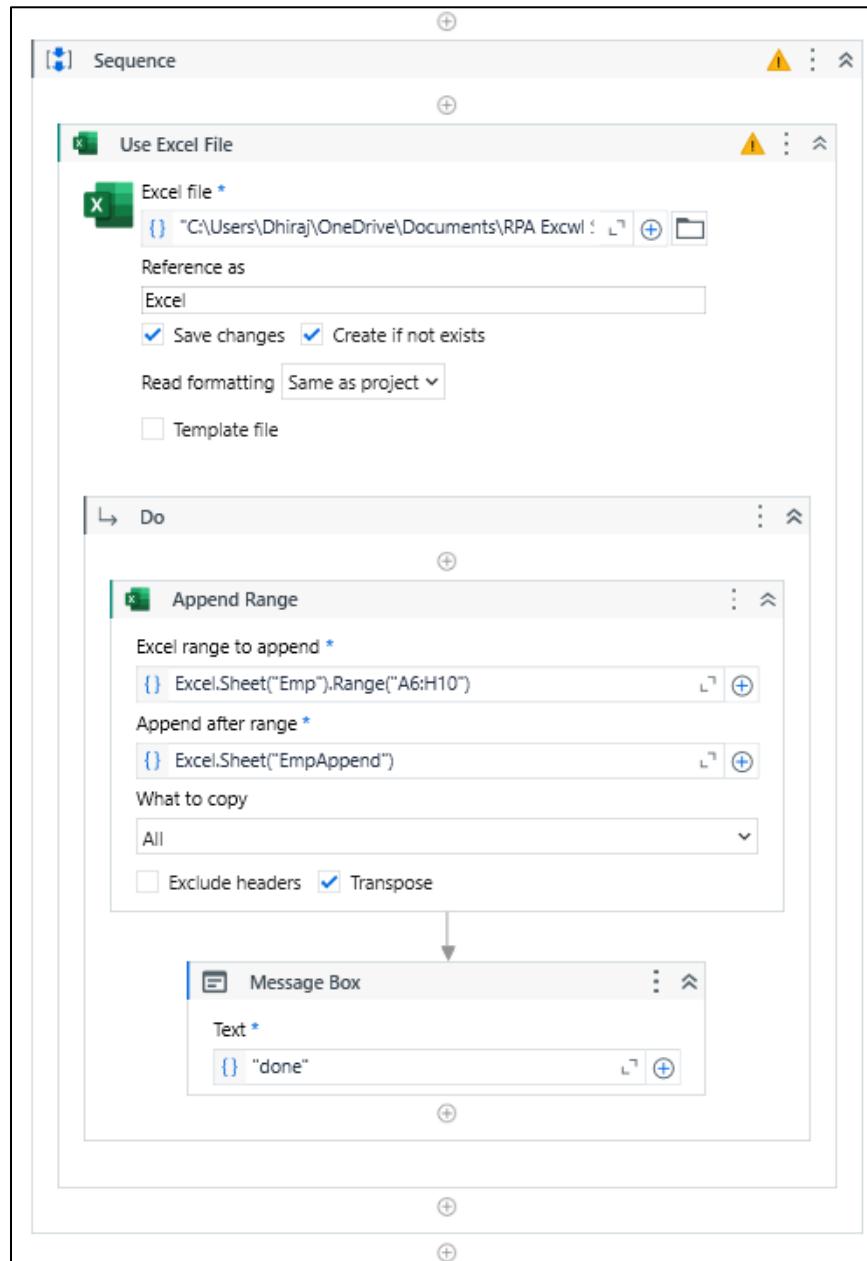
Inside do drag and drop Append Range Activity enter the details as shown



After Append Range Activity drag and drop Message box to display output after Append Range Activity



Complete Sequence:



Output:

The screenshot shows a Microsoft Excel spreadsheet titled "Emp". The table has columns labeled "ITEM", "STORE", and "UNIT". The data includes various fruits and vegetables from different stores like Costco and Market.

	ITEM	STORE	UNIT
2	Apples	Costco	1 lbs
3	Bananas	Costco	1 lbs
4	Cabbage	Market	1 head
5	Carrots	Costco	1 lbs
6	Celery	Market	1 bunch
7	Cucumber	Market	each
8	Lettuce	Market	1 head
9	Onions	Market	1 lbs
10	Oranges	Costco	1 lbs
11	Pears	Costco	1 lbs
12	Potatoes	Costco	1 lbs
13	Tomatoes	Market	1 lbs
14			

The screenshot shows a Microsoft Excel spreadsheet with a table containing five rows of data. A message dialog box titled "Message..." is displayed, showing the word "Done" and an "OK" button.

	A	B	C	D	E
1	Celery	Cucumber	Lettuce	Onions	Oranges
2	Market	Market	Market	Market	Costco
3	1 bunch	each	1 head	1 lbs	1 lbs
4					

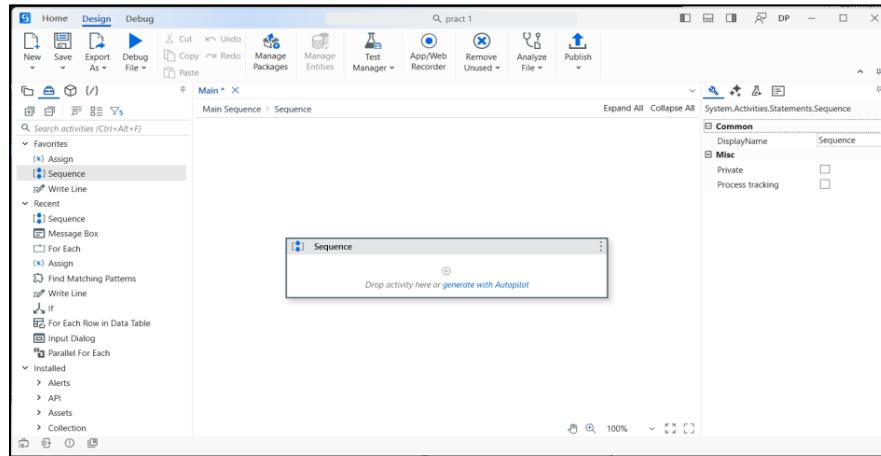
Message...

Done

OK

- e. Choose a repetitive manual task from your workplace or daily life. Design and implement an RPA bot to automate this task using your preferred RPA tool.

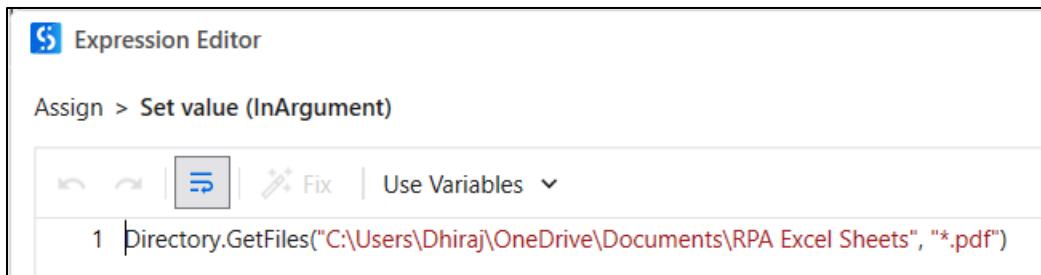
Search for sequence → drag and drop



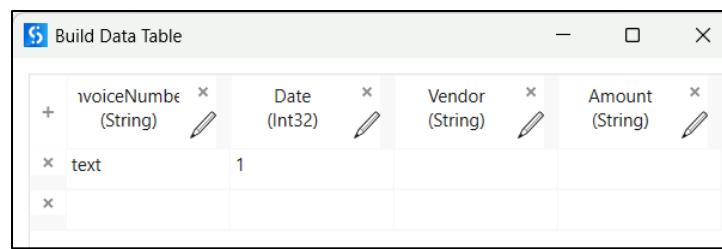
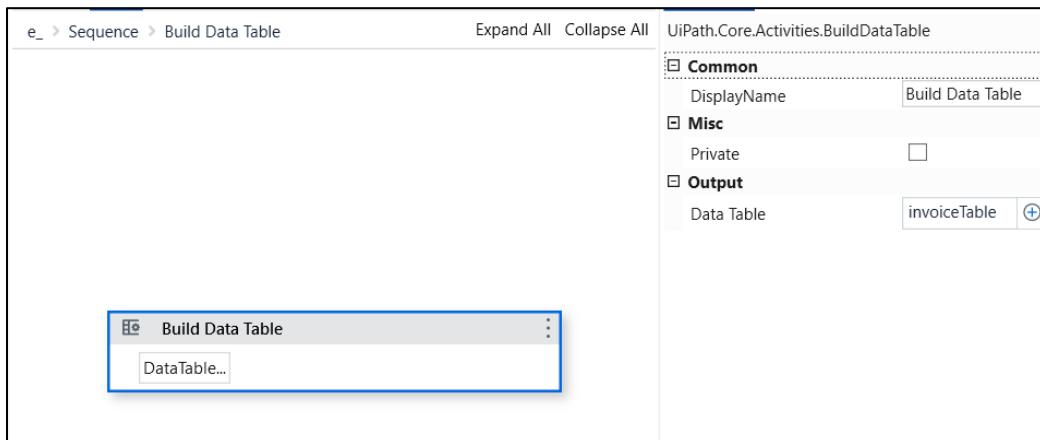
Create Variables

Data Manager Breakpoints & Bookmarks Error List Output				
(x) Variables	(a) Arguments	Namespaces	Connections	
Name	Q	Data Type	Scope	Default Value
<i>Create variable</i>				
(x) dataArray		Object[]	e.	{}
(x) invoiceTable		DataTable	e.	{}
(x) pdfFiles		String[]	Sequence	{}
(x) pdfText		String	For Each currentText	{}
(x) invoiceNumber		String	For Each currentText	{ } "INV001"
(x) invoiceDate		String	For Each currentText	{ } "01/06/2025"
(x) AssignedValue		OutArgument	For Each currentText	{}
(x) vendorName		String	For Each currentText	{ } "ABC Pvt Ltd"
(x) amount		String	For Each currentText	{ } "1200.00"

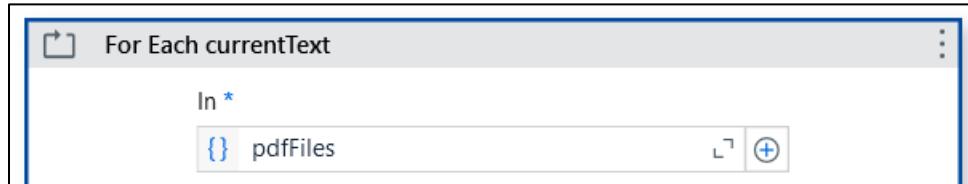
Drag drop Assign Activity → Create Variable and write the expression as shown



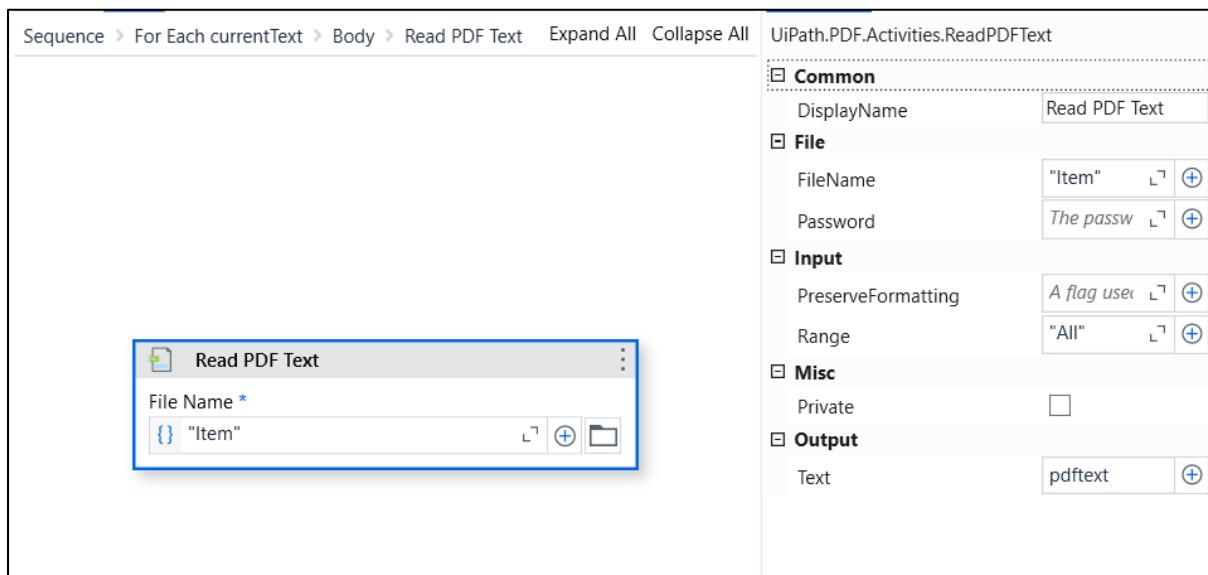
After Assign drag and drop Build Data Table → Mention the variable as shown and create columns



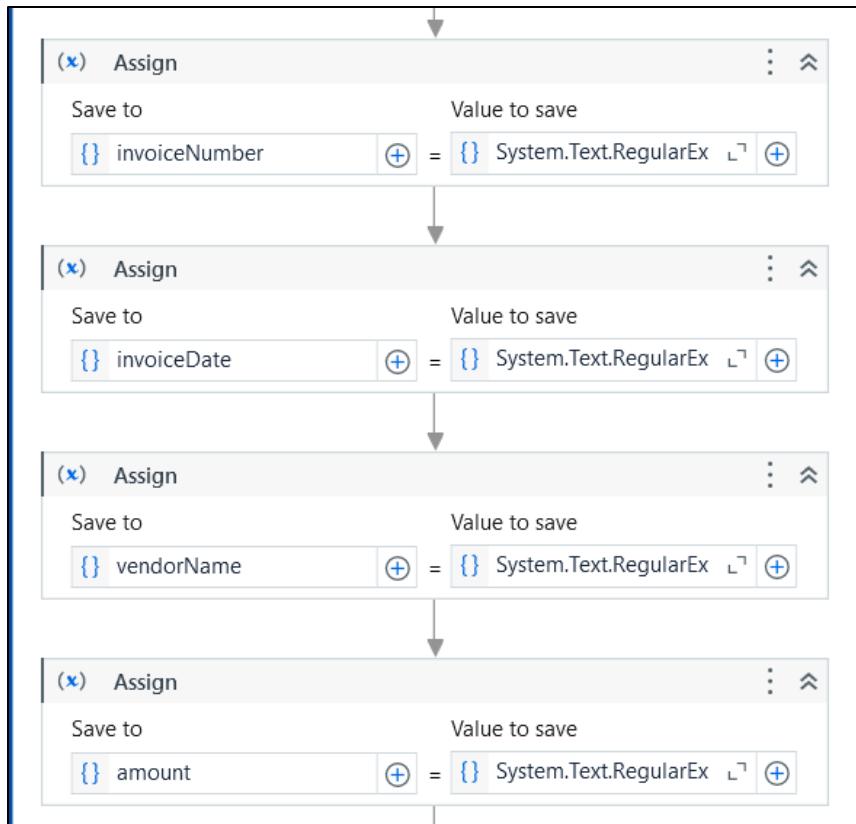
Drag and drop For Each and mention the created variable



In Body add Read PDF add details and create a variable as shown



After Read PDF add 4 Assign activity → Create 4 different variable and add regex and create 4 expression as shown



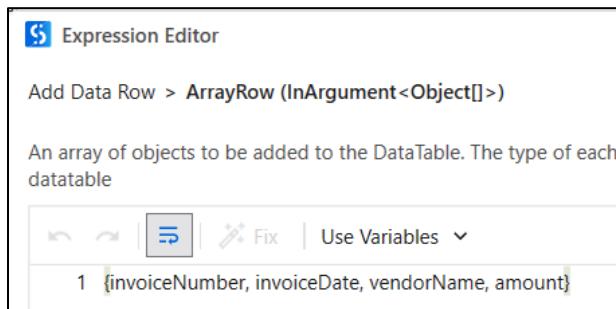
Expressions

```

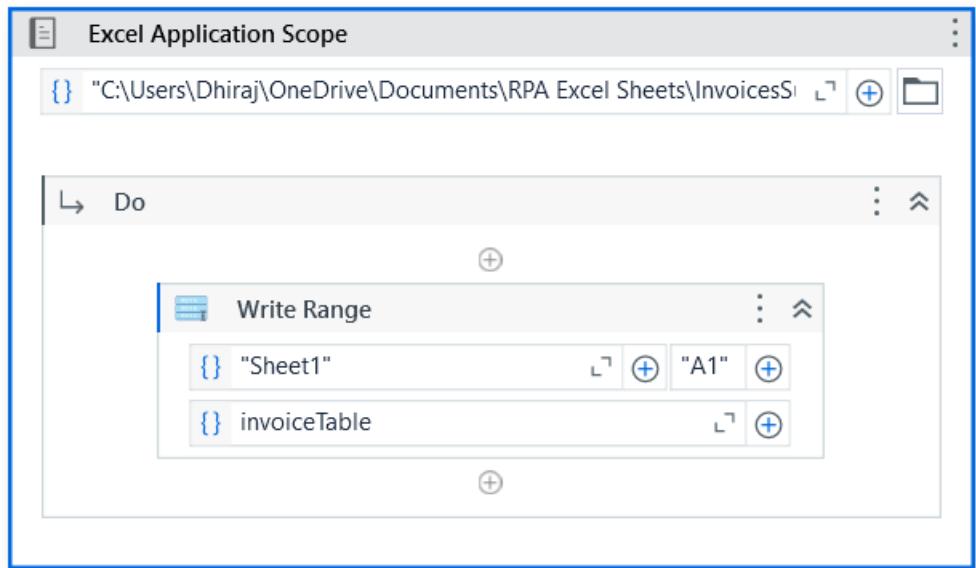
invoiceNumber = Regex.Match(pdfText, "Invoice Number:\s*(\w+)").Groups(1).Value
invoiceDate = Regex.Match(pdfText, "Date:\s*(\d{2}/\d{2}/\d{4})").Groups(1).Value
vendorName = Regex.Match(pdfText, "Vendor:\s*(.+)").Groups(1).Value
amount = Regex.Match(pdfText, "Amount:\s*\$((\d+\.\d{2}))").Groups(1).Value
    
```

After Assign Operator drag and drop Add Data Row → write the expression → Mention the variable

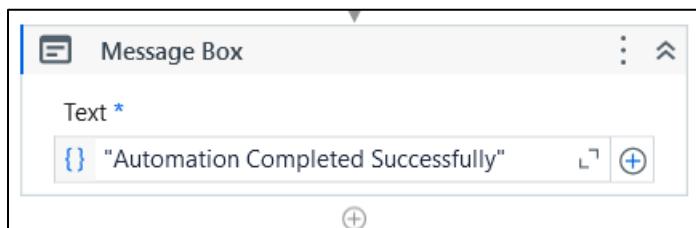
Expression



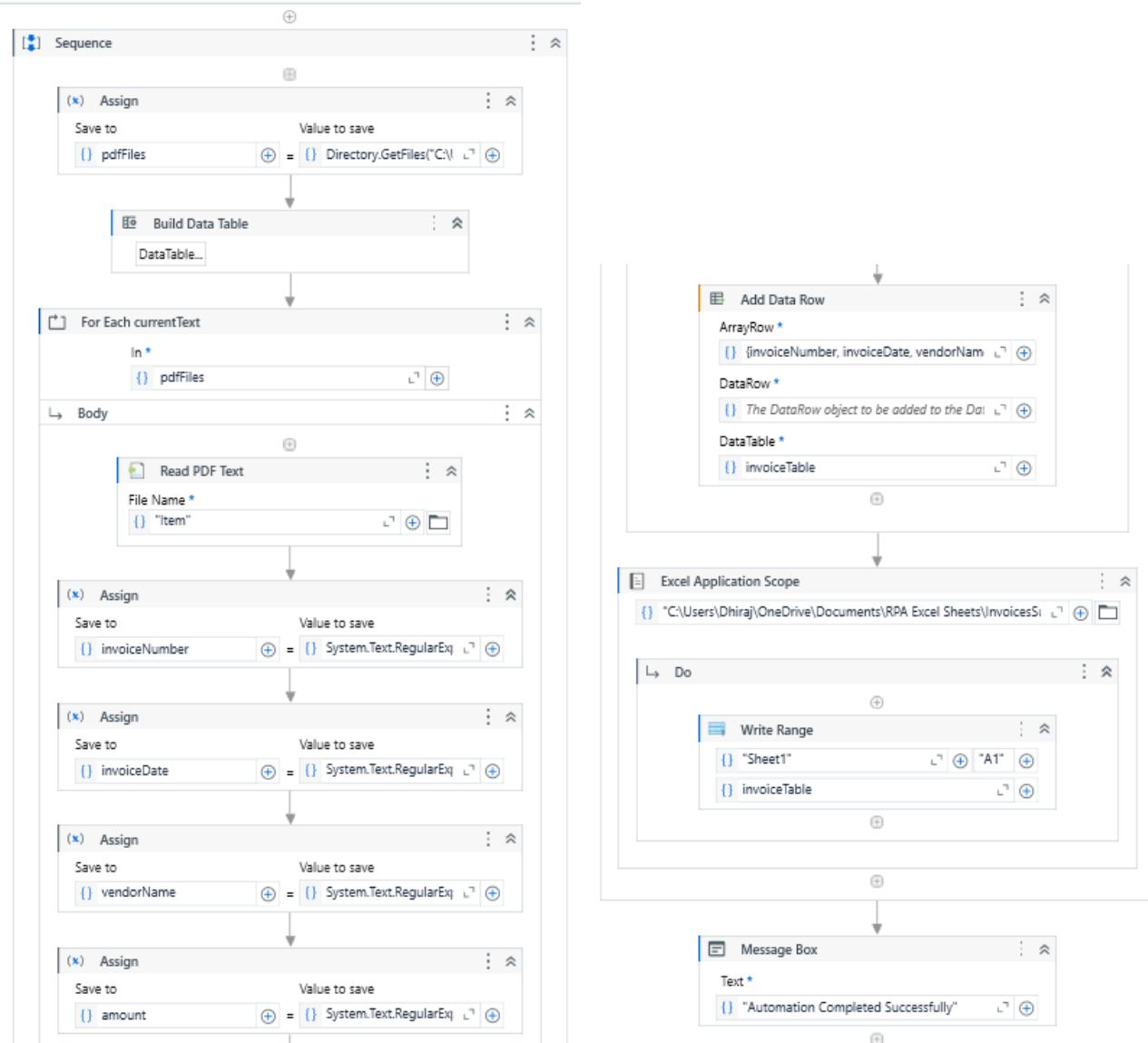
After For Each Activity drag and drop Excel Application Scope → Mention the excel file with path → In Do Condition add Write Range Activity → Add details and mentioned the created variable



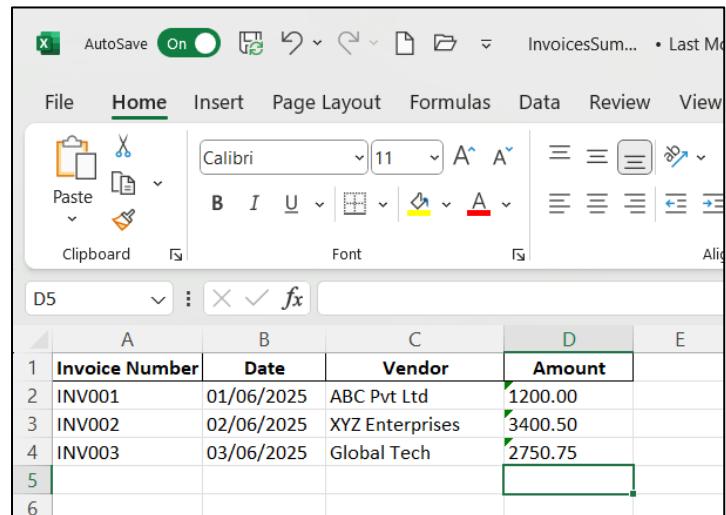
At last add Message Box to display the output



Complete Sequence:

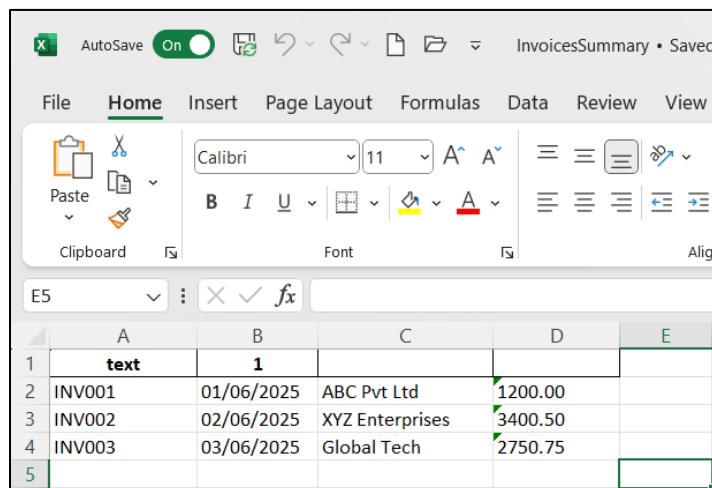
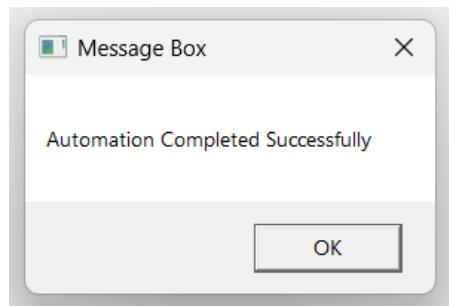


Output:



A screenshot of Microsoft Excel showing a table of invoice data. The table has columns for Invoice Number, Date, Vendor, and Amount. The data is as follows:

	A	B	C	D	E
1	Invoice Number	Date	Vendor	Amount	
2	INV001	01/06/2025	ABC Pvt Ltd	1200.00	
3	INV002	02/06/2025	XYZ Enterprises	3400.50	
4	INV003	03/06/2025	Global Tech	2750.75	
5					
6					

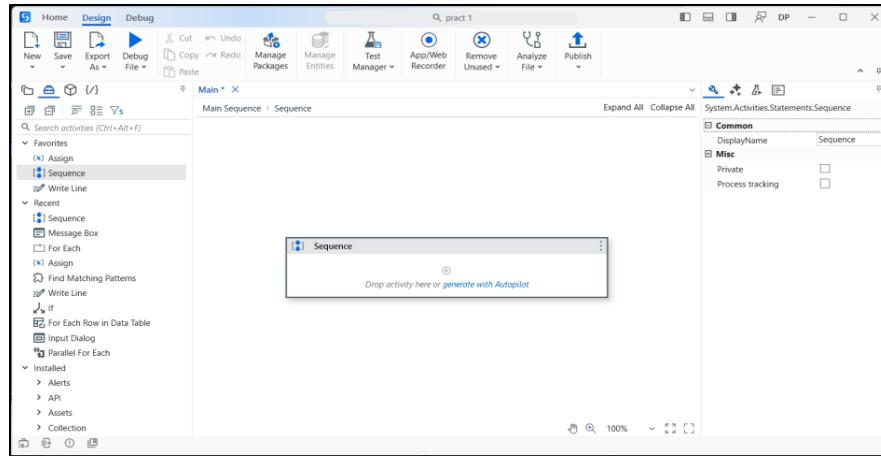


A screenshot of Microsoft Excel showing the same invoice data as the first screenshot, but with an additional header row at the top. The new header row contains "text" in column A and "1" in column B. The data is as follows:

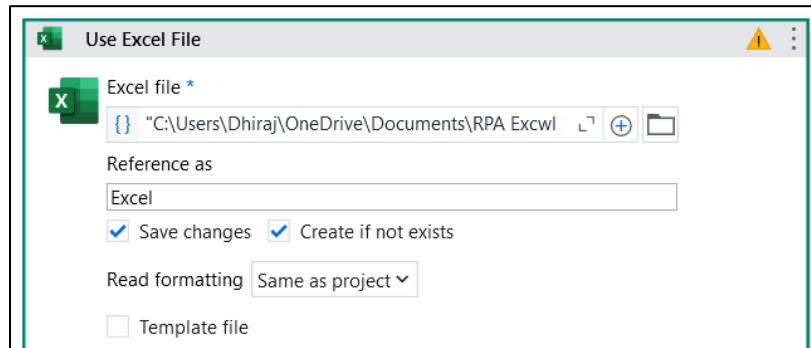
	A	B	C	D	E
1	text	1			
2	INV001	01/06/2025	ABC Pvt Ltd	1200.00	
3	INV002	02/06/2025	XYZ Enterprises	3400.50	
4	INV003	03/06/2025	Global Tech	2750.75	
5					

f. Create an automation to filter a table of an excel sheet.

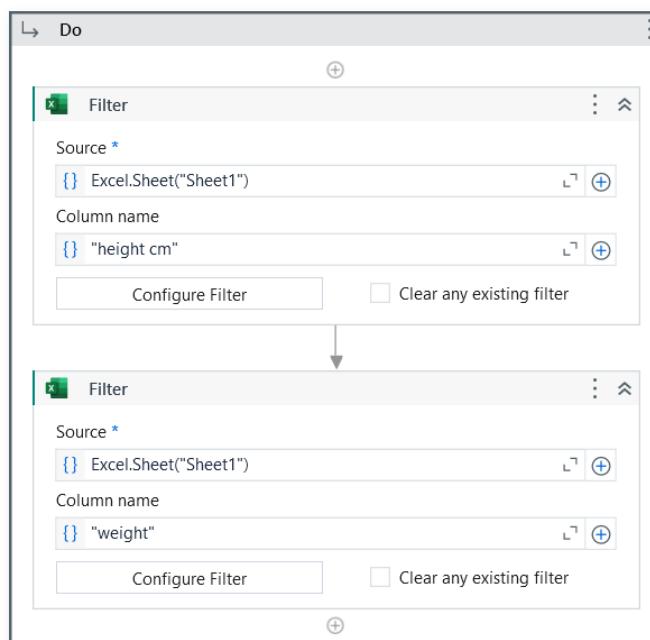
Search for sequence → drag and drop



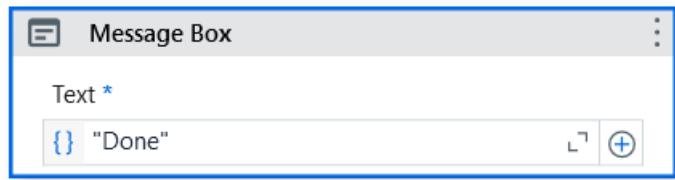
Inside Sequence drag and drop Use Excel File Activity → Mention the file which wanted to be filtered as shown



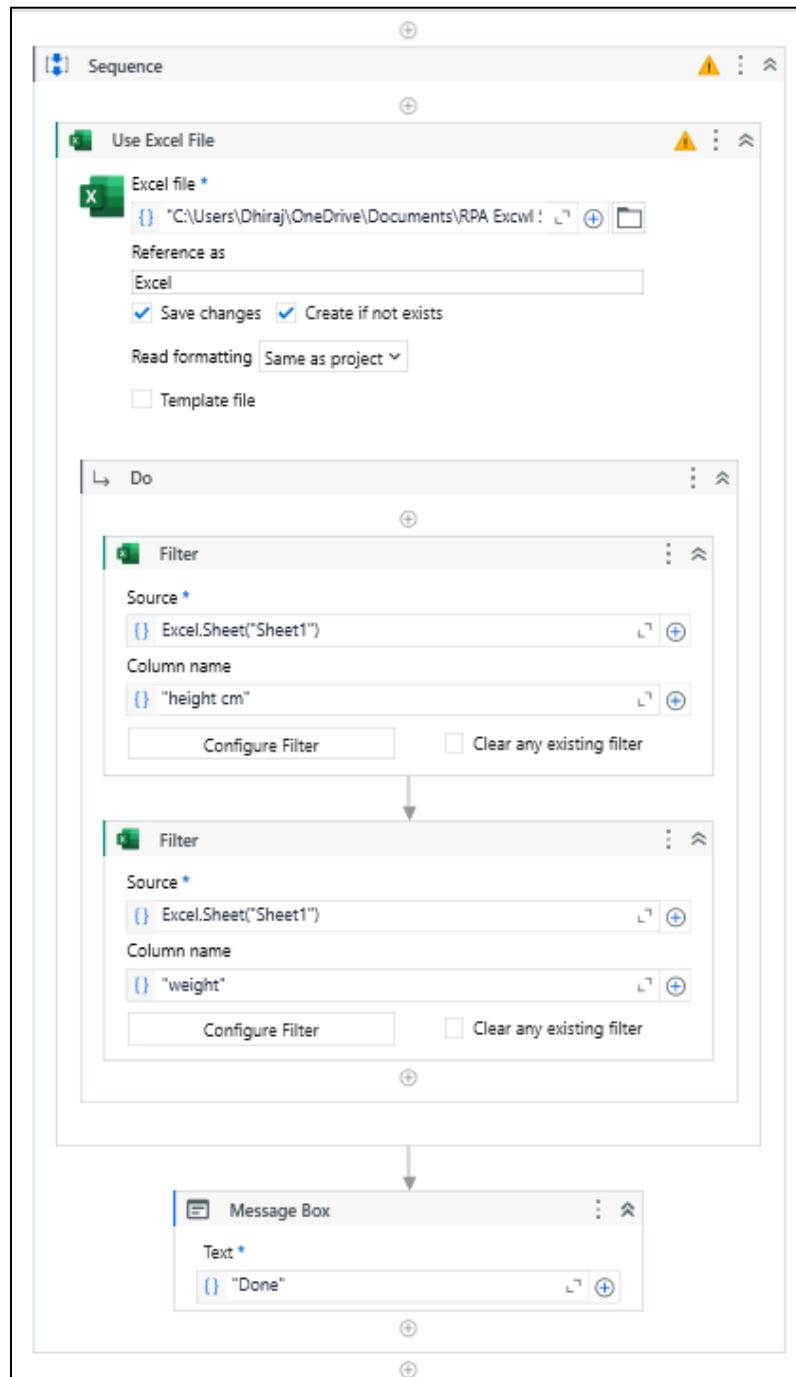
Inside Do condition drag and drop Filter Activity and mentioned the sheet no. and column name wanted to filtered



After Use Excel Activity drag and drop Message box to display output after filtering is done



Complete Sequence:



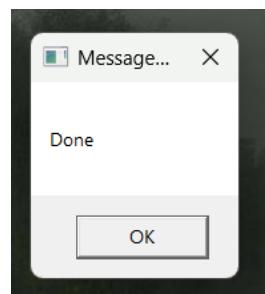
Output:

A screenshot of Microsoft Excel showing a table with four rows of data. The columns are labeled A, B, C, and D. Row 1 contains the headers "height Inch", "height cm", and "weight". Rows 2, 3, and 4 contain data: (165, 115, 50), (170, 115, 65), and (130, 120, 60) respectively. The cell at D5 is selected.

	A	B	C	D	E	F	G
1	height Inch	height cm	weight				
2	165	115	50				
3	170	115	65				
4	130	120	60				
5							

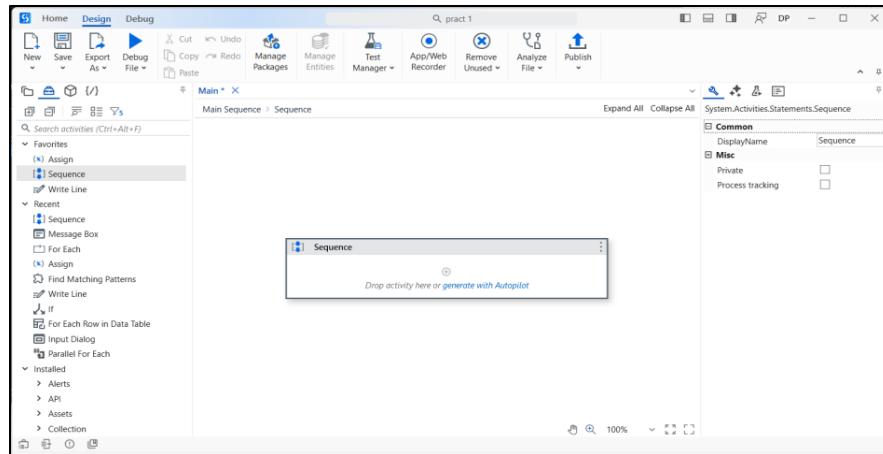
A screenshot of Microsoft Excel showing a table with three rows of data. The columns are labeled A, B, and C. Row 1 contains the headers "height Inch", "height cm", and "weight". Rows 2, 3, and 4 are empty. The cell at P12 is selected.

	A	B	C	D	E	F
1	height Inch	height cm	weight			
2						
3						
4						
5						
6						
7						
8						

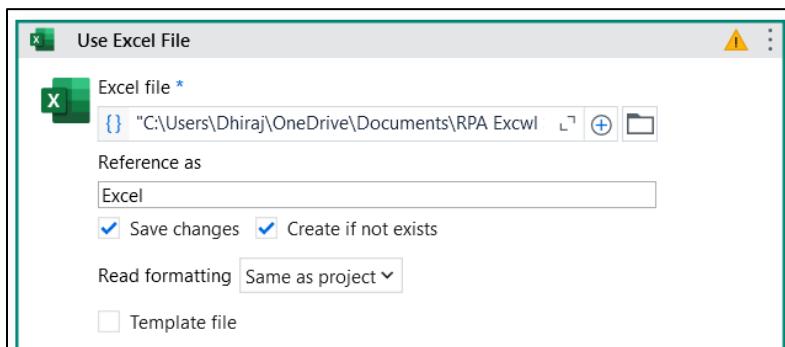


g. Create an automation to sort a table of an excel sheet.

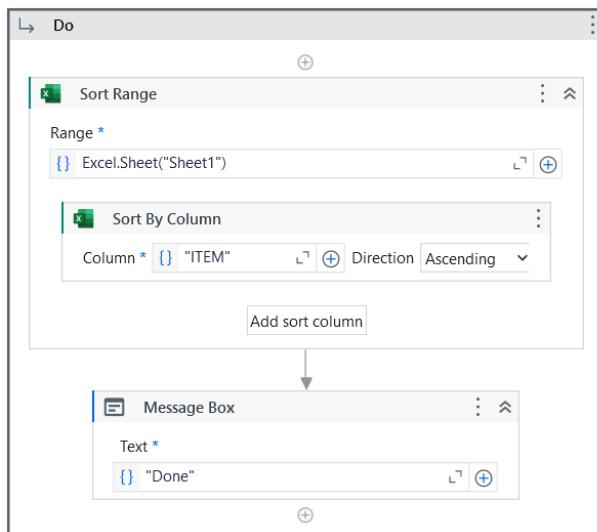
Search for sequence → drag and drop



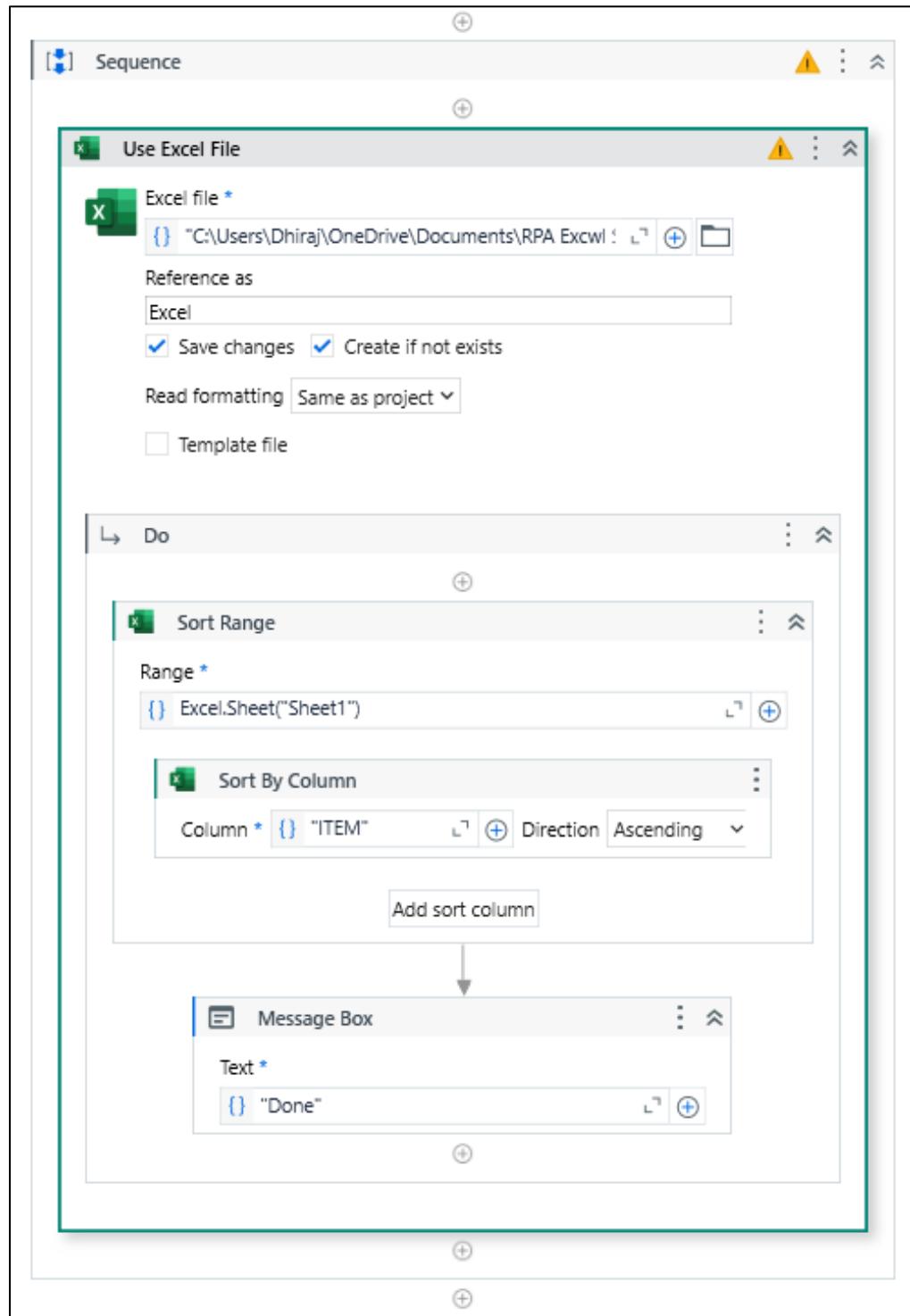
Inside Sequence drag and drop Use Excel File Activity → Mention the file which wanted to be filtered as shown



Inside Do condition drag and drop Sort Range Activity and mentioned the sheet no. → Next drag and drop Sort By Column Activity and mention the column name and select the direction wanted to Sort as shown → Next drag and drop Message Box to output after sorting



Complete Sequence:



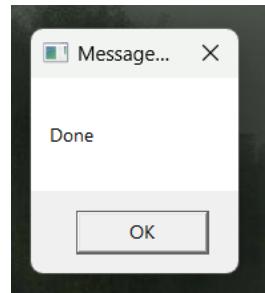
Output:

Before

	A	B	C	D	E	F
1	ITEM	STORE	UNIT	UNIT PRICE		
2	Apples	Costco	1 lbs	\$	3.51	
3	Bananas	Costco	1 lbs	\$	3.51	
4	Carrots	Costco	1 lbs	\$	3.51	
5	Celery	Market	1 bunch	\$	3.51	
6	Cucumber	Market	each	\$	3.51	
7	Lettuce	Market	1 head	\$	3.51	
8	Pears	Costco	1 lbs	\$	3.51	
9	Oranges	Costco	1 lbs	\$	3.51	
10	Potatoes	Costco	1 lbs	\$	3.51	
11	Onions	Market	1 lbs	\$	3.51	
12	Tomatoes	Market	1 lbs	\$	3.51	
13	Cabbage	Market	1 head	\$	3.51	

After

	A	B	C	D	E	F
1	ITEM	STORE	UNIT	UNIT PRICE		
2	Apples	Costco	1 lbs	\$	3.51	
3	Bananas	Costco	1 lbs	\$	3.51	
4	Cabbage	Market	1 head	\$	3.51	
5	Carrots	Costco	1 lbs	\$	3.51	
6	Celery	Market	1 bunch	\$	3.51	
7	Cucumber	Market	each	\$	3.51	
8	Lettuce	Market	1 head	\$	3.51	
9	Onions	Market	1 lbs	\$	3.51	
10	Oranges	Costco	1 lbs	\$	3.51	
11	Pears	Costco	1 lbs	\$	3.51	
12	Potatoes	Costco	1 lbs	\$	3.51	
13	Tomatoes	Market	1 lbs	\$	3.51	
14						

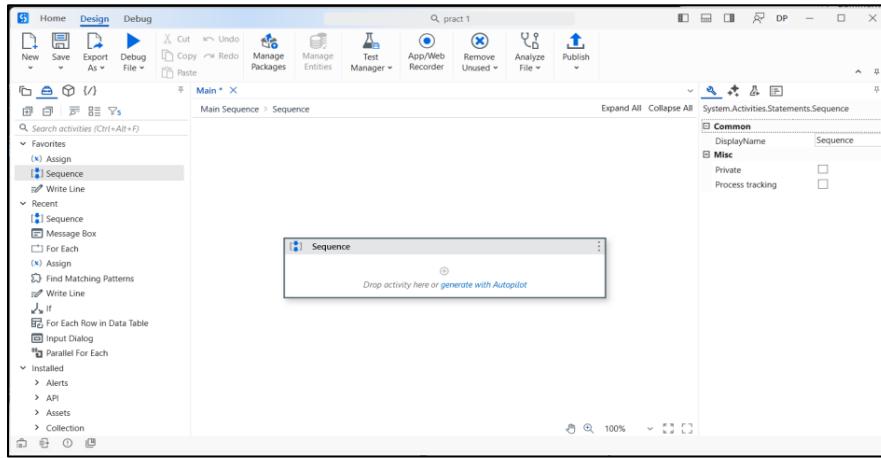


Practical – 5

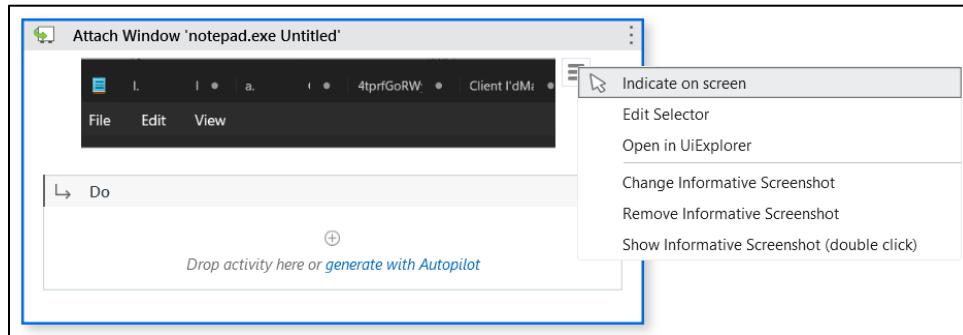
Aim: Different controls in UiPath

- Implement the attach window activity.

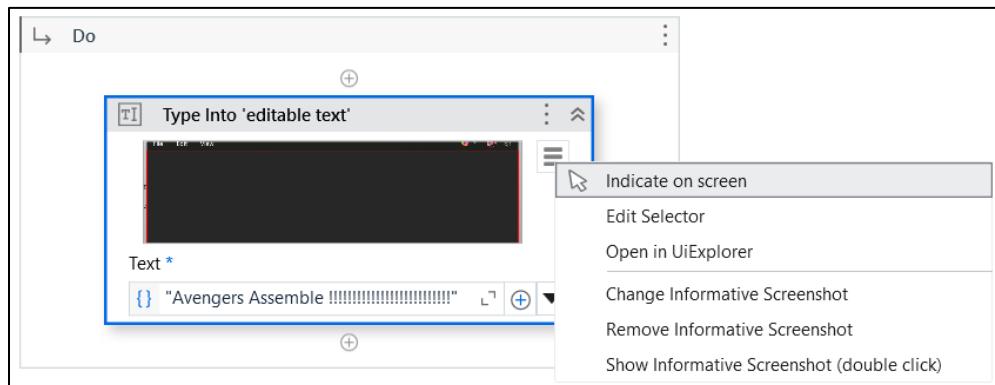
Search for sequence → drag and drop



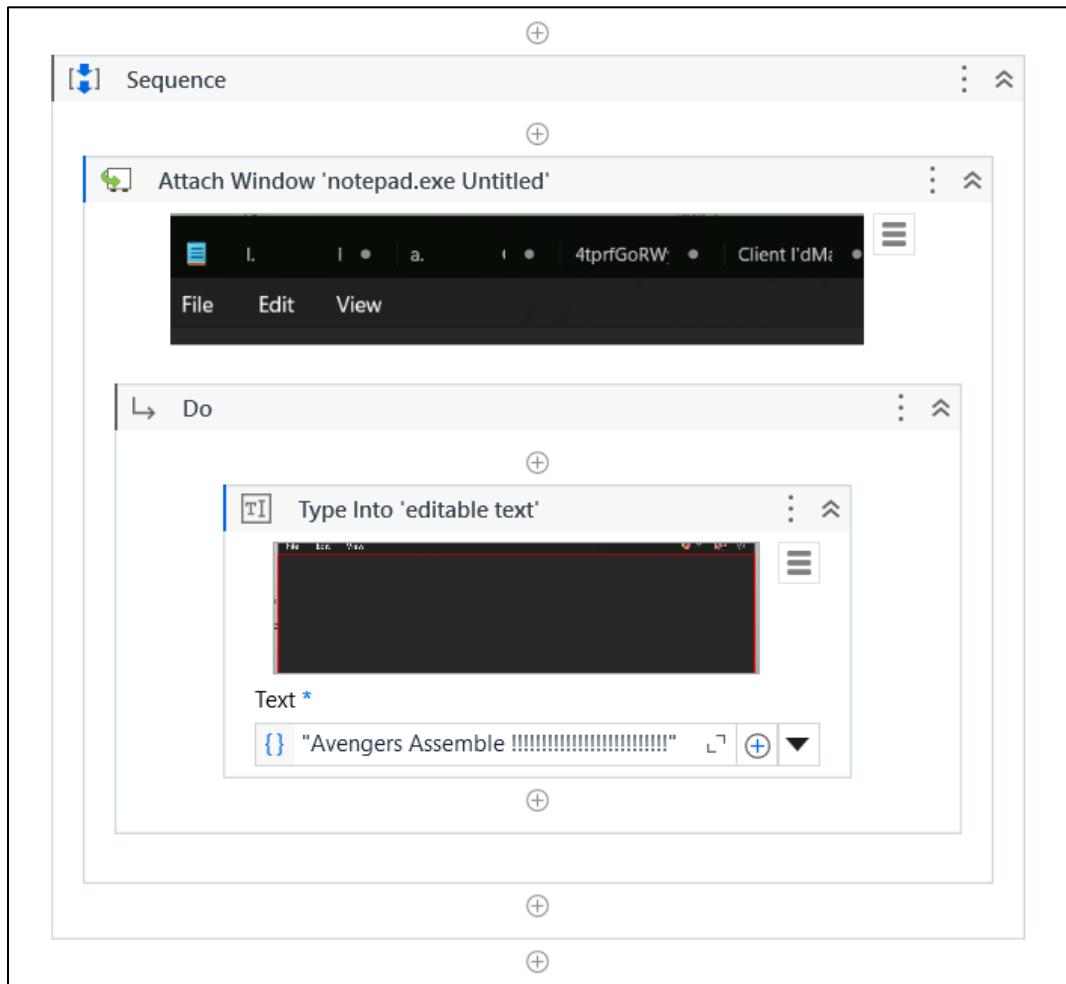
Inside sequence drag and drop Attach Window Activity → Indicate notepad on screen as given below



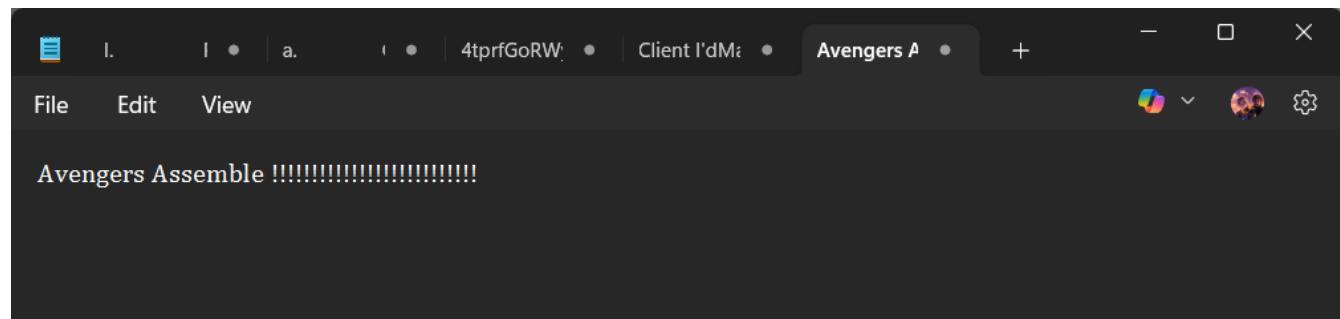
Then inside Do condition drag and drop Type Into Activity → Again indicate notepad on screen as given below to get the required text to written on notepad → Enter the text you wanted as given



Complete Sequence:

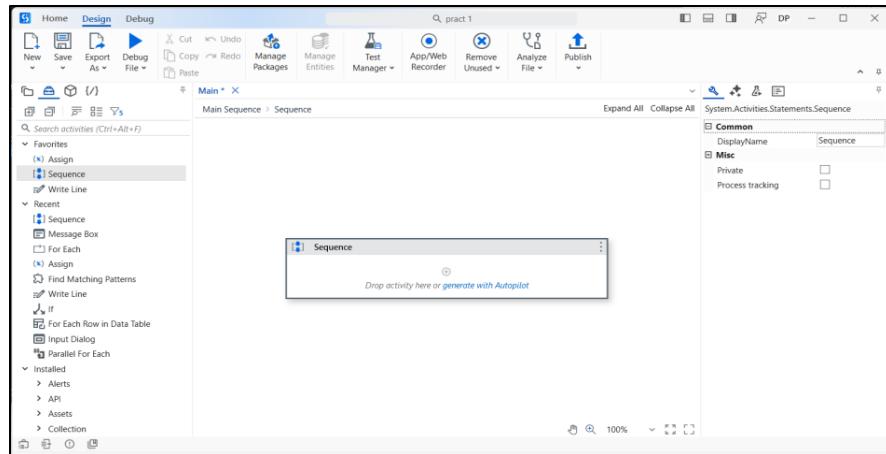


Output:

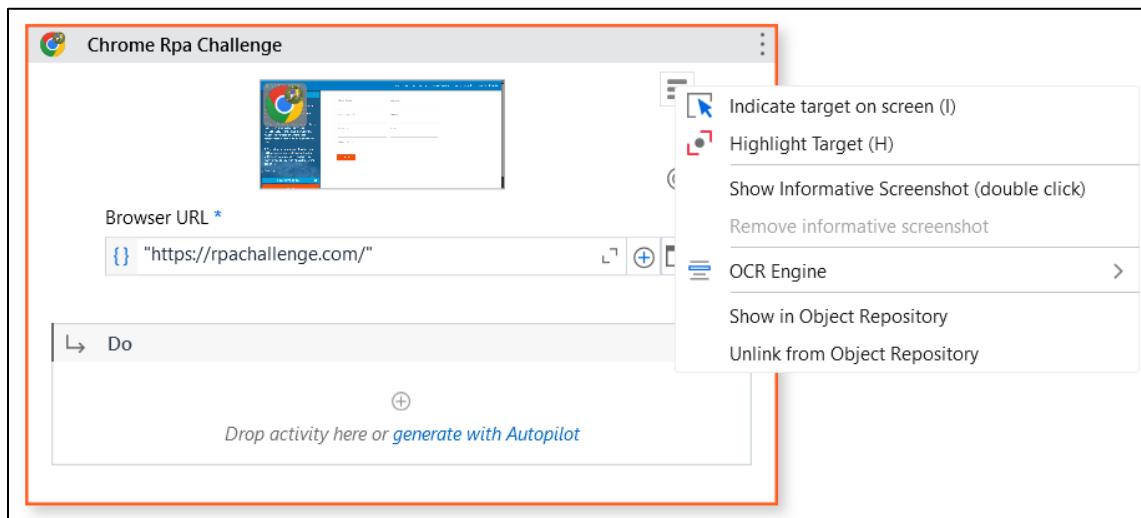


b. Automate using Anchor Base.

Search for sequence → drag and drop

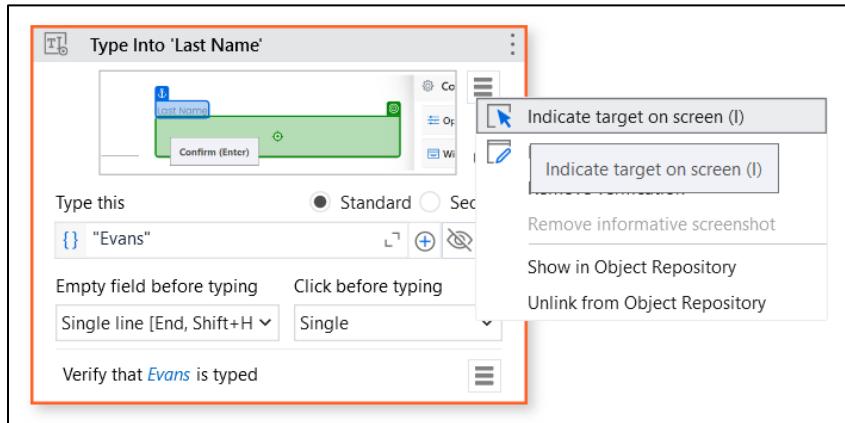


Inside sequence drag and drop Use Application/Browser Activity → Indicate the website you wanted on screen as given below (Here its rpa challenge is selected so the in URL the site will automatically mentioned)

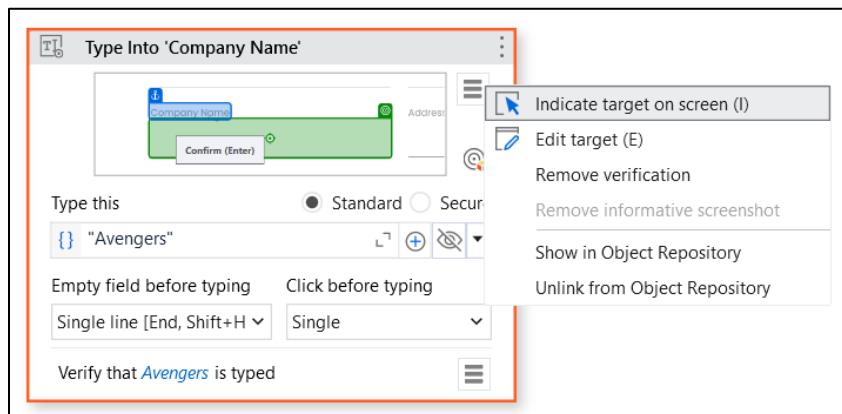


In Use Application/Browser activity create 3 Type Into activity for Lastname, Company Name, First Name → Indicate the area and placed the Anchor to fill the details you wanted as shown → Enter the text you wanted as shown below

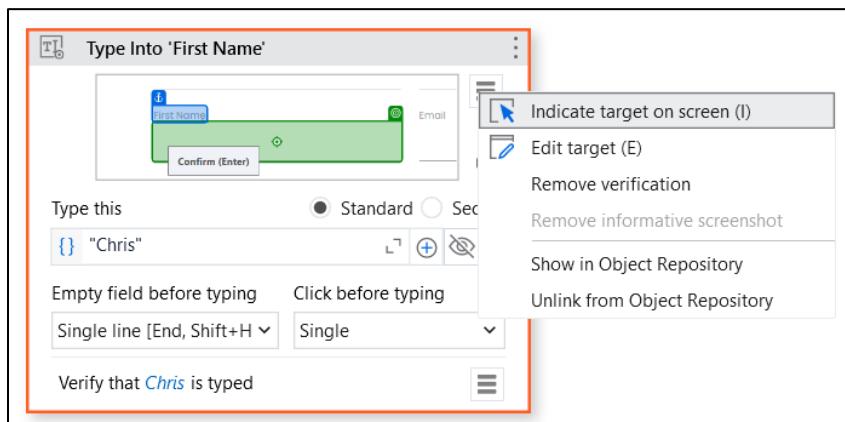
For Last Name



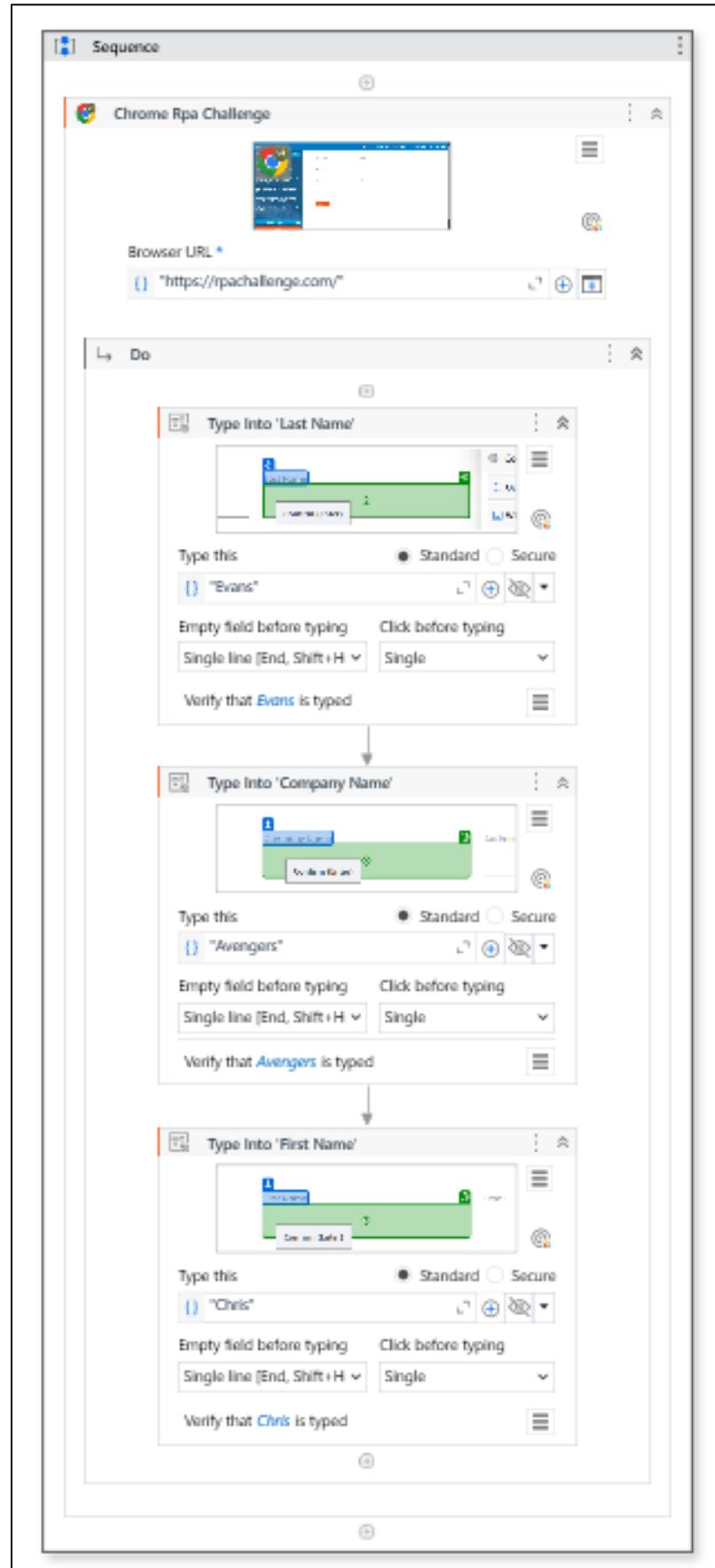
For Company Name



For First Name



Complete Sequence:



Output:

The screenshot shows a web browser window titled "Rpa Challenge" from the URL "rpachallenge.com". The page has a blue header bar with the title "RPA Challenge" and several menu items: "Input Forms", "Shortest Path", "Movie Search", "Invoice Extraction", and "RPA Stock Market". On the left side, there is a sidebar titled "Instructions" with the language "EN" selected. The instructions provide three points: 1. The goal is to create a workflow that inputs data from a spreadsheet into form fields. 2. Fields will change position after each submission. 3. A countdown begins once the Start button is clicked. Below the instructions are two buttons: "DOWNLOAD EXCEL" and a large orange "START" button. The main area contains five form fields: "Email" (empty), "Last Name" (filled with "Evans"), "Company Name" (filled with "Avengers"), "Phone Number" (empty), "Role in Company" (empty), "First Name" (filled with "Chris"), and "Address" (empty). A red "SUBMIT" button is located below these fields.

Email: _____

Last Name: Evans

Company Name: Avengers

Phone Number: _____

Role in Company: _____

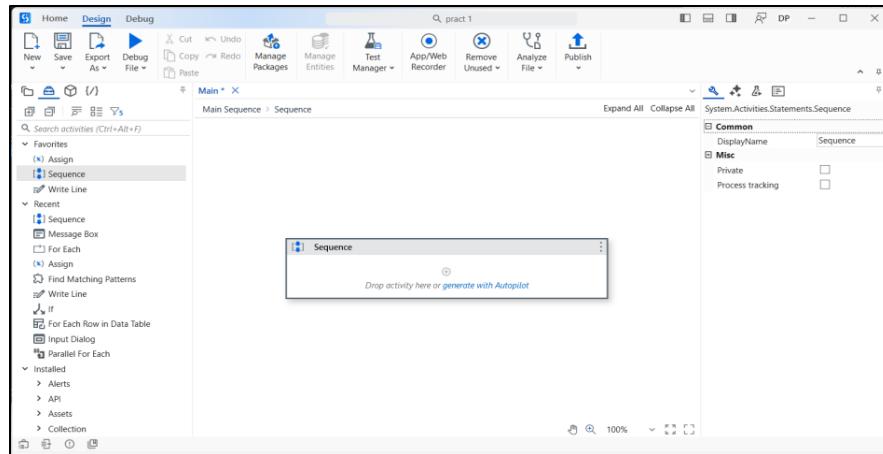
First Name: Chris

Address: _____

SUBMIT

c. Automate using Element Exists.

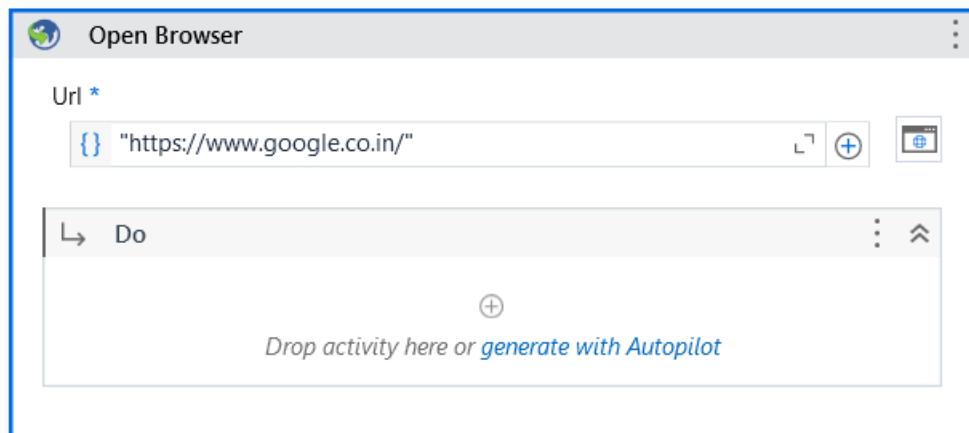
Search for sequence → drag and drop



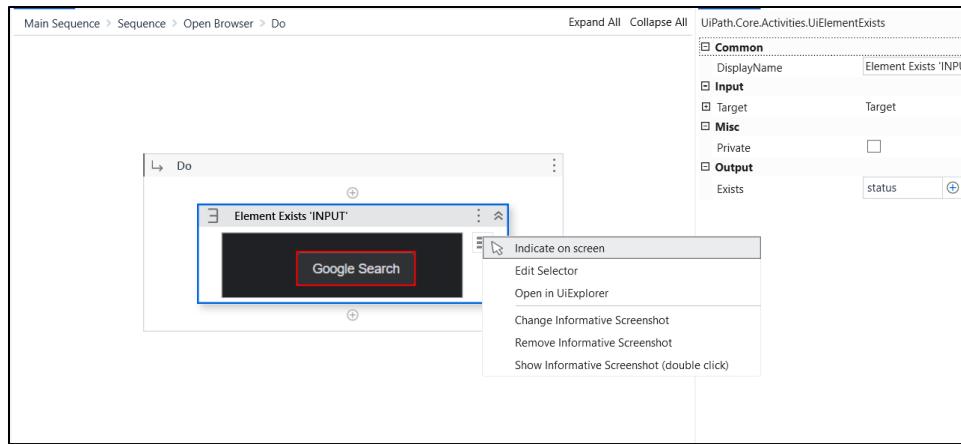
Create Variables to find the status

Data Manager			
(x) Variables	(a) Arguments	Namespaces	Connections
Name	Data Type	Scope	Default Value
<i>Create variable</i>			
(x) status	Boolean	Main	{}
(x) status	Boolean	Open Browser	{}

Drag and drop Open Browser Activity → Write the website in the URL* that is to be open



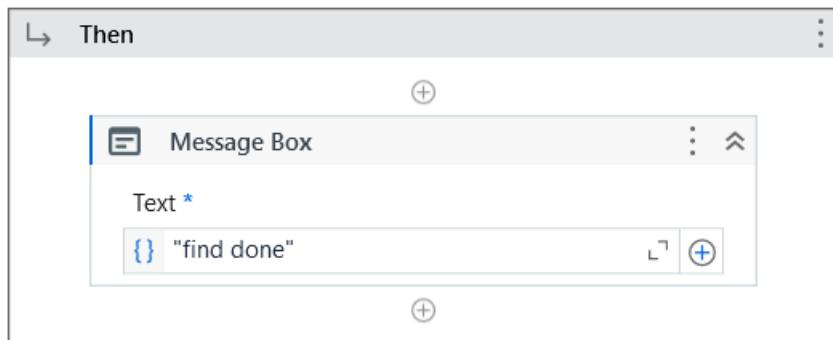
Inside Do condition drag and drop Element Exist Activity → Indicate the area on screen to find the status → And create a Variable in properties output section



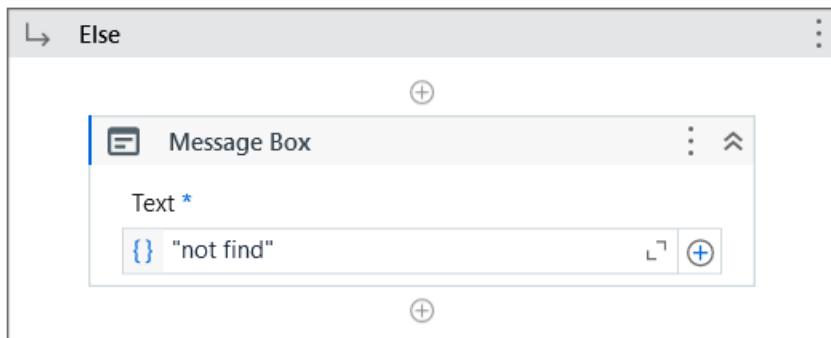
Drag and drop If Else Activity → In If condition write the expression as given in the diagram



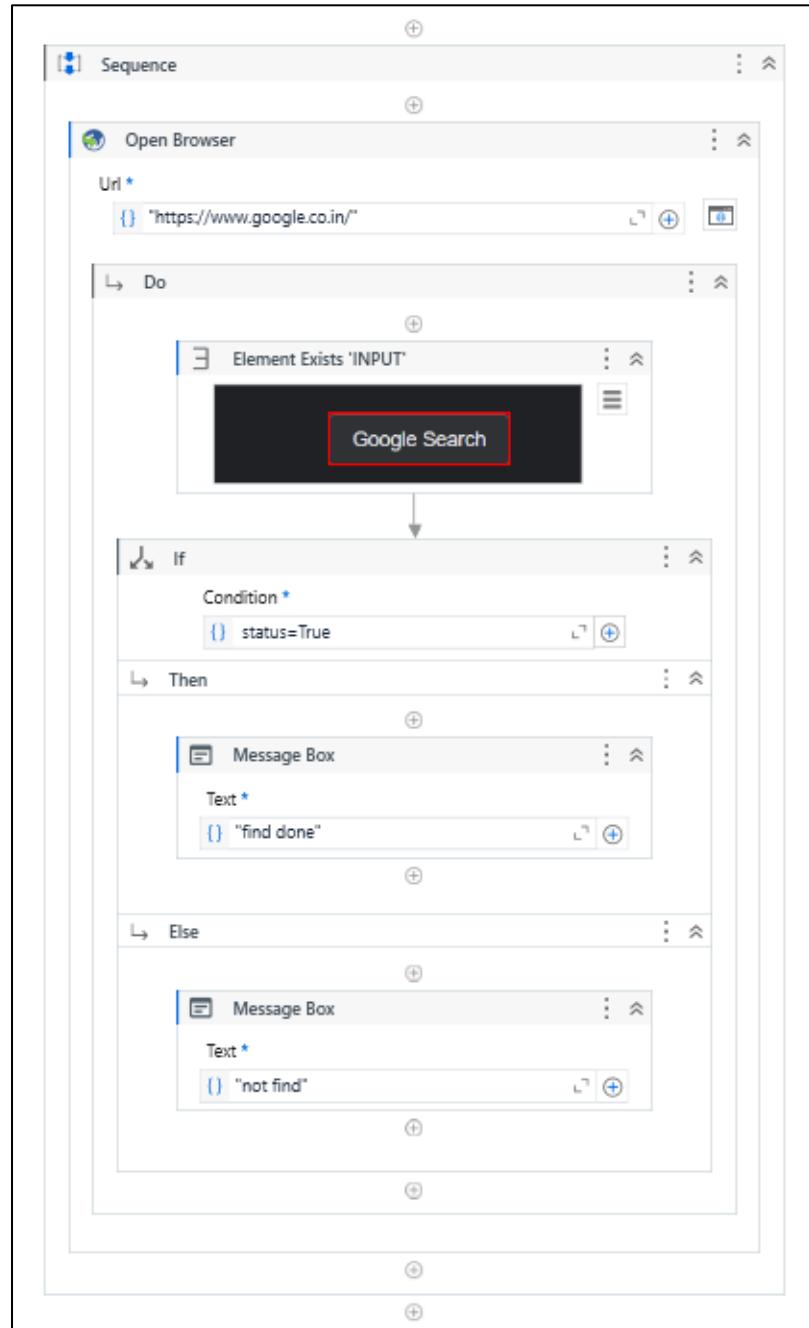
In Then condition add a Message box → write the expression as shown in the diagram



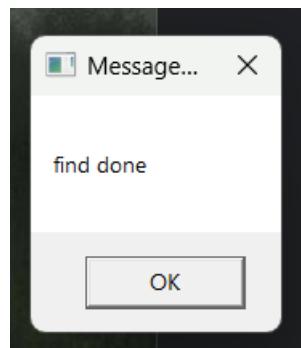
After that in Else condition add a Message box → write the expression as shown in the diagram



Complete Sequence:

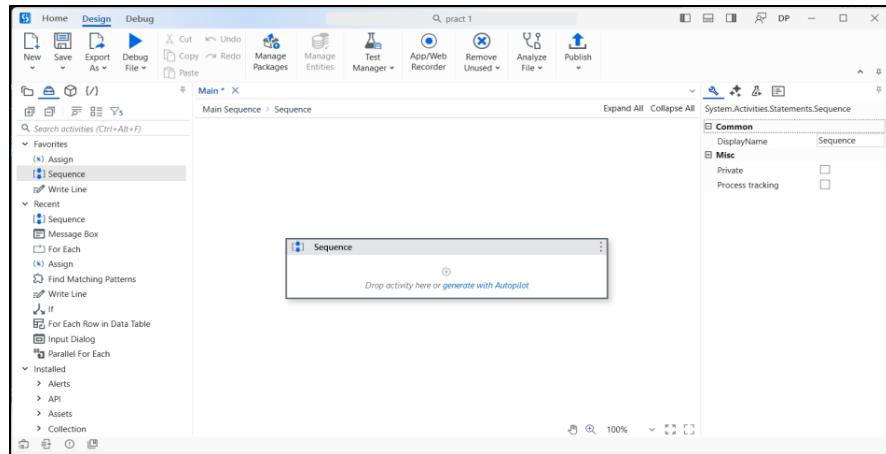


Output:



d. Automate using Find Children control.

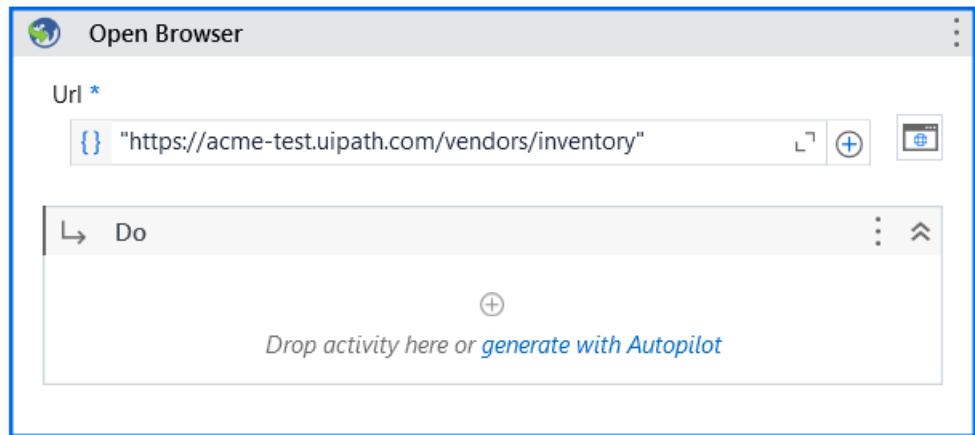
Search for sequence → drag and drop



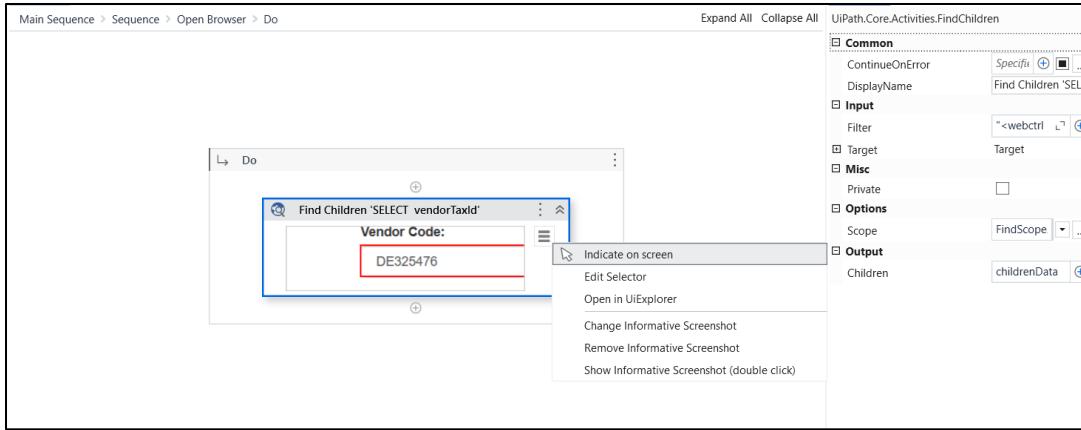
Create Variables to find data

Data Manager				
(x) Variables	(a) Arguments	Namespaces	Connections	
Name	Q	Data Type	Scope	Default Value
<i>Create variable</i>				
(x) childrenData		IEnumerable<UiElement>	Main	{}
(x) resultData		String	Open Browser	{}

Drag and drop Open Browser Activity → Write the website in the URL* that is to be open



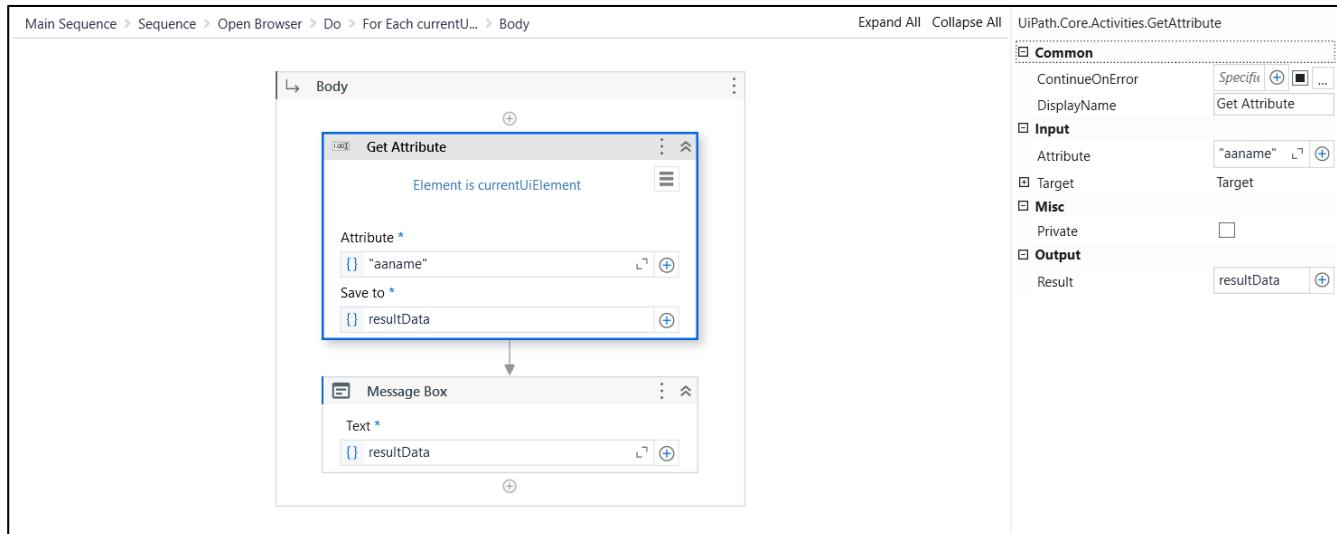
Inside Do condition drag and drop Find Children Activity → Indicate the area on screen to find the data
 → And create a Variable in properties output section



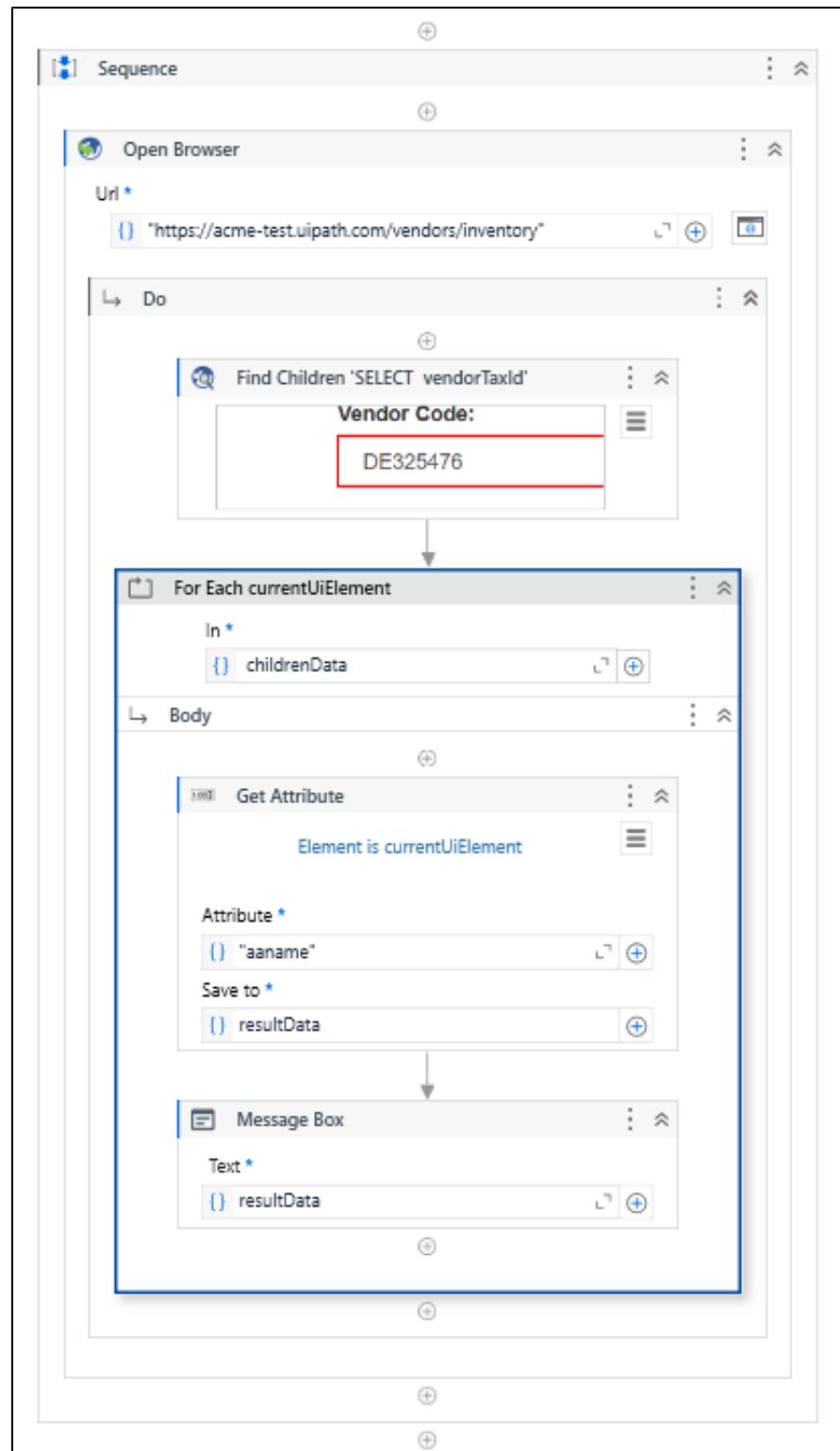
Drag and drop For Each Activity → In condition write the variable created in Find Children Activity as given in the diagram



Inside Do condition drag and drop Get Attribute Activity → Write the details as shown → And create a Variable in properties output section → After Get Attribute Activity drag and drop Message Box → Write the variable created in Attribute Activity



Complete Sequence:



Output:

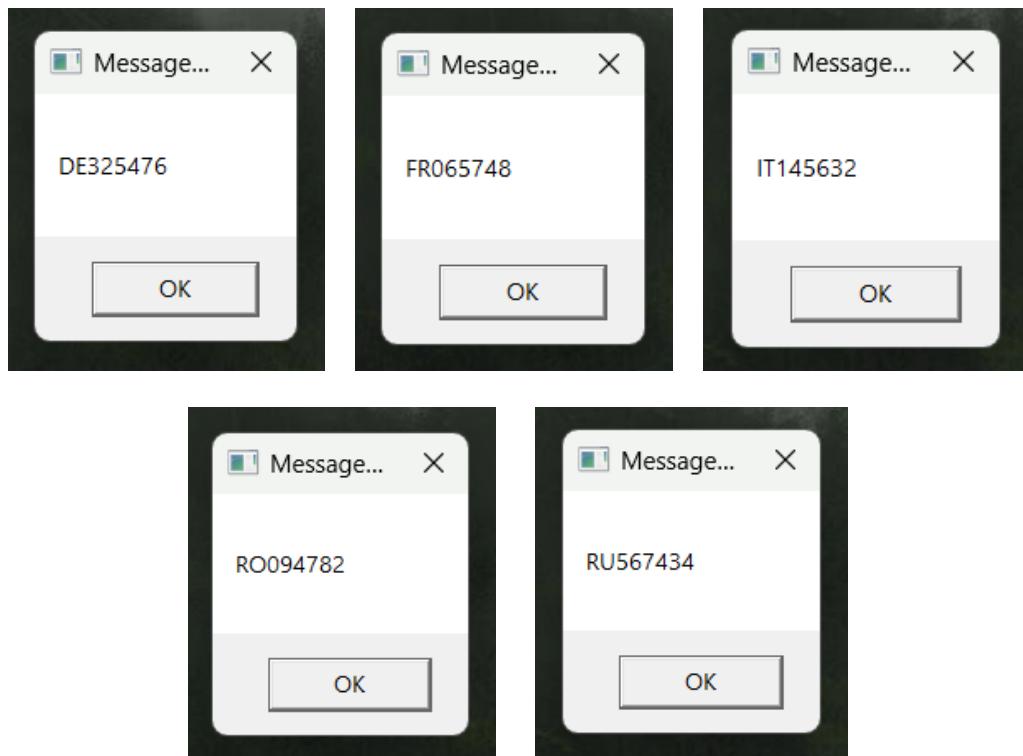
Vendors - Vendor Inventory

Please enter the details of the vendor you wish to check, by subsequently filling the following form.

Vendor Code:

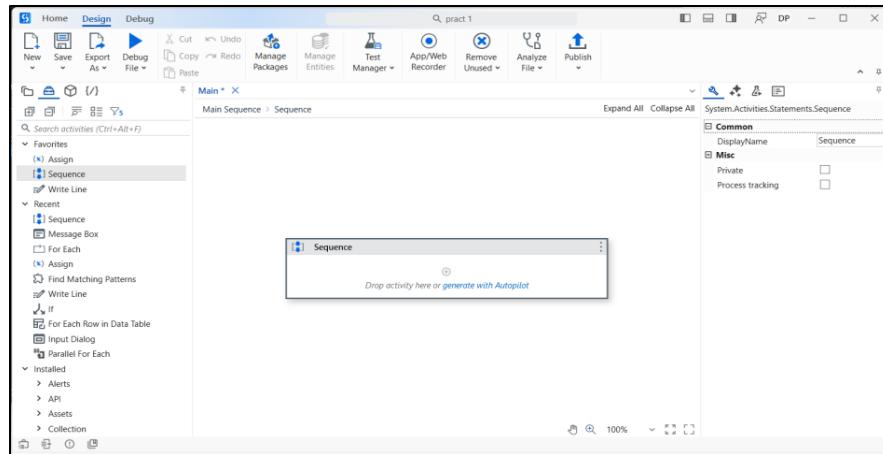
- DE325476
- DE325476**
- FR065748
- IT145632
- RO094782
- RU567434

Copyright © 2025 ACME Systems



e. Use Get Ancestor control

Search for sequence → drag and drop



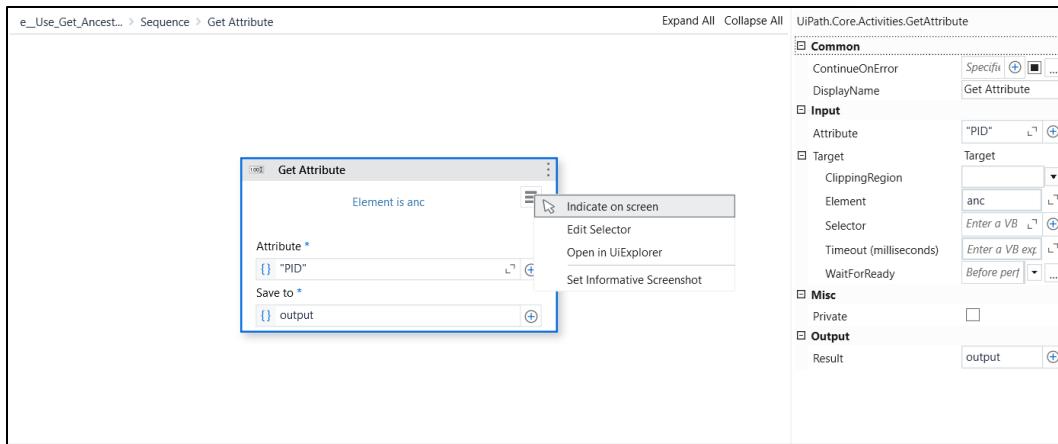
Create Variables

Name	Data Type	Scope	Default Value
(x) anc	UiElement	Sequence	{}
(x) output	Int32	Sequence	{}

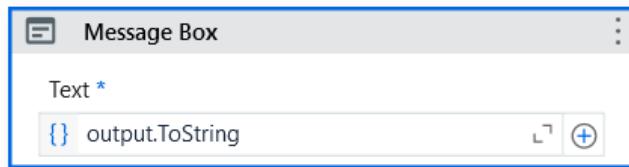
Drag and drop Get Ancestor Activity inside sequence → Indicate the area on screen as shown below → Create variable in properties output section

The screenshot shows the 'Get Ancestor' activity selected within the 'Sequence' activity. A context menu is open over the 'Get Ancestor' activity, with the 'Indicate on screen' option highlighted. The properties pane on the right shows the 'Get Ancestor' activity with its DisplayName set to 'INPUT'. The 'Output' section is expanded, showing the 'Ancestor' variable set to 'anc'.

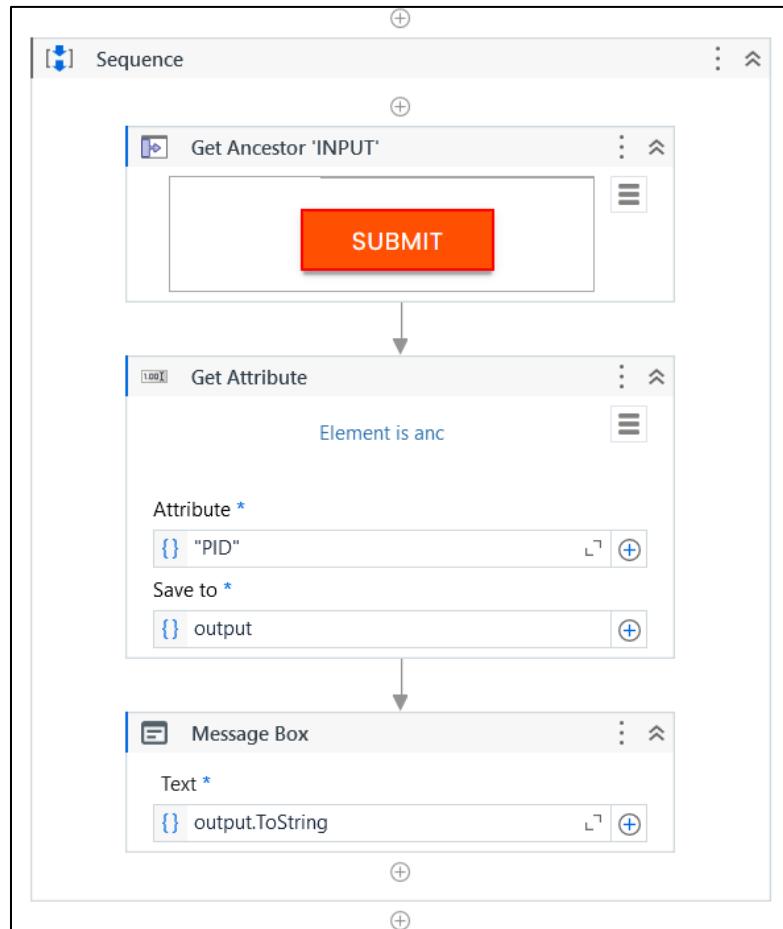
Drag and drop Get Attribute Activity after Ancestor → In properties in Element section write ‘anc’ as show → Create variable in properties output section

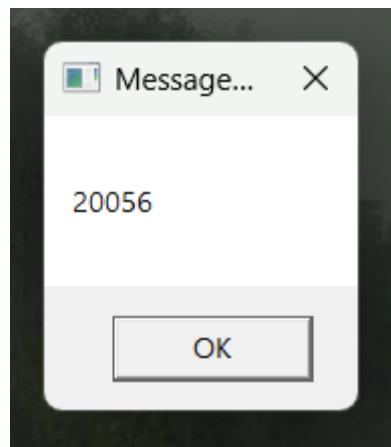


After Get Attribute activity drag and drop Message Box → write the expression as shown in the diagram



Complete Sequence:



Output:

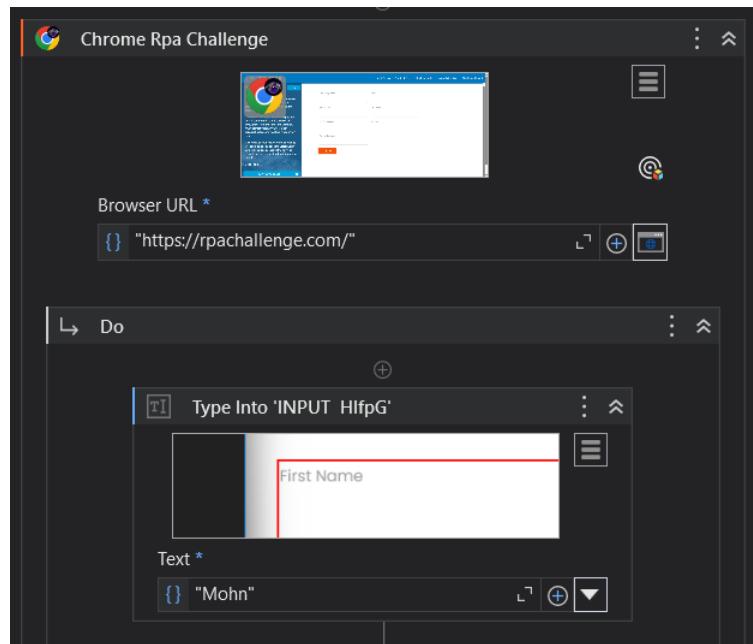
Practical – 6

Aim: Keyboard and Mouse Events

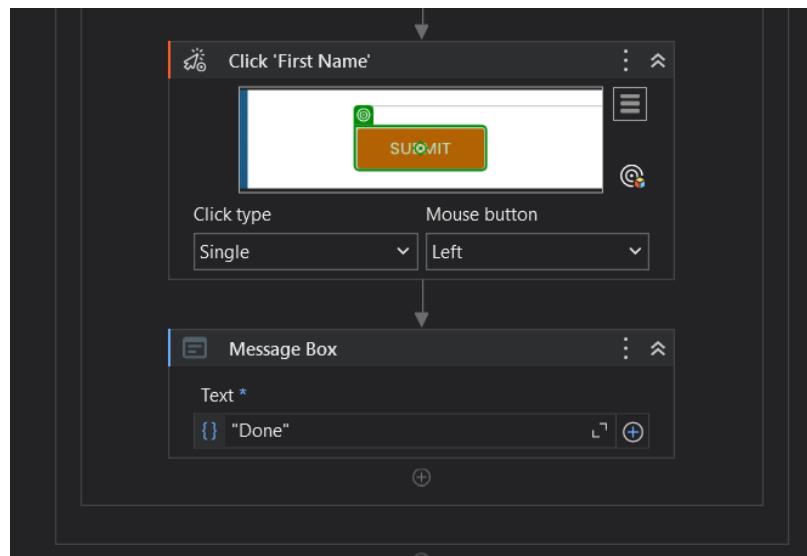
- a. Demonstrate the following activities in UiPath:

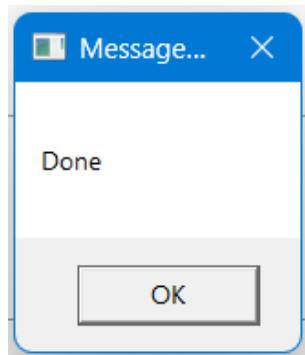
1. Mouse (click, double click and hover)

In Sequence drag and drop Open Browser Activity → Indicate the area on screen as shown below → Drag Type Into in Do condition indicate the area as shown



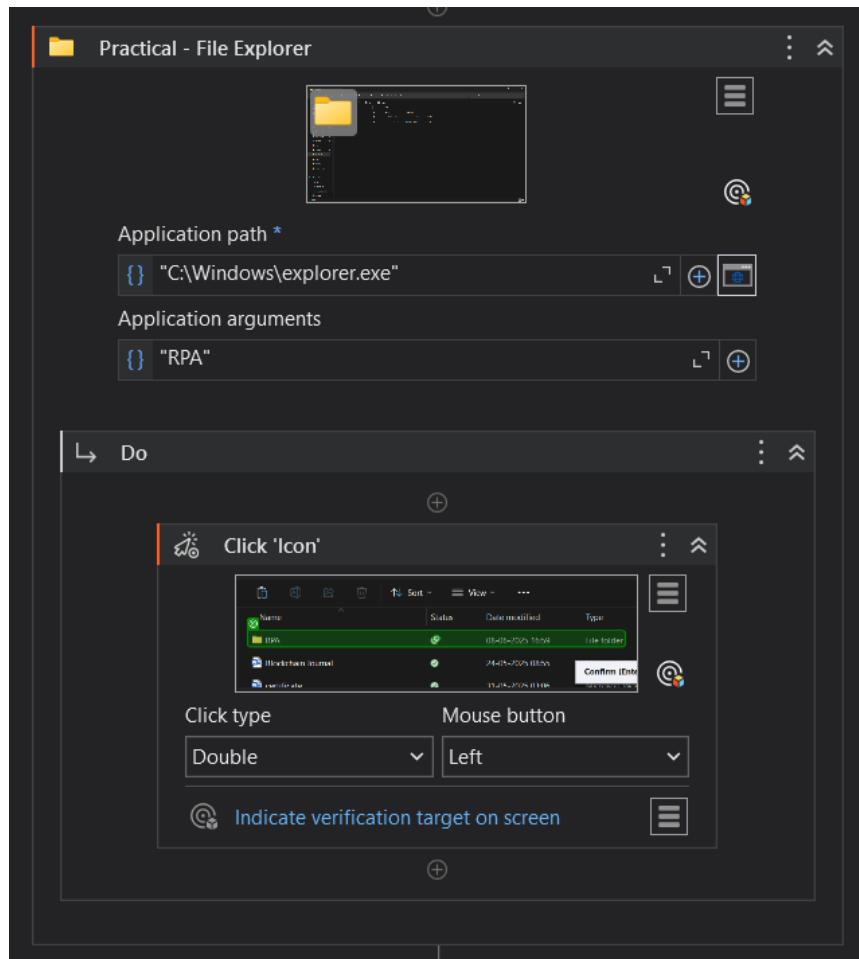
Next drag and drop Click indicate the area → Add Message Box



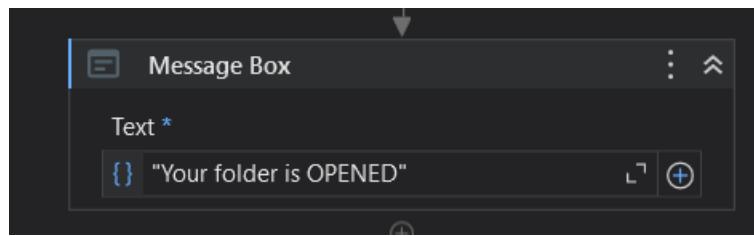
Output:

Double Click

Drag and drop Use Application/Browser Activity → Indicate on screen to open the application as shown → In Do condition drag and drop Click Activity again indicate on screen as shown



Add Message Box and add details as shown in message box



Output:

The screenshot shows a Windows File Explorer window with the following details:

- Path:** OneDrive > Mohan - Personal > Desktop > Practical > RPA > RPA
- Left Sidebar:** Home, Gallery, Mohan - Personal (selected), Desktop, Downloads.
- Table Headers:** Name, Status, Date modified, Type, Size
- Table Data:**

Name	Status	Date modified	Type	Size
Saved Attachment	🕒	08-06-2025 17:59	File folder	
Saved Attachment29	🕒	08-06-2025 17:59	File folder	

A separate message box is displayed in the foreground:

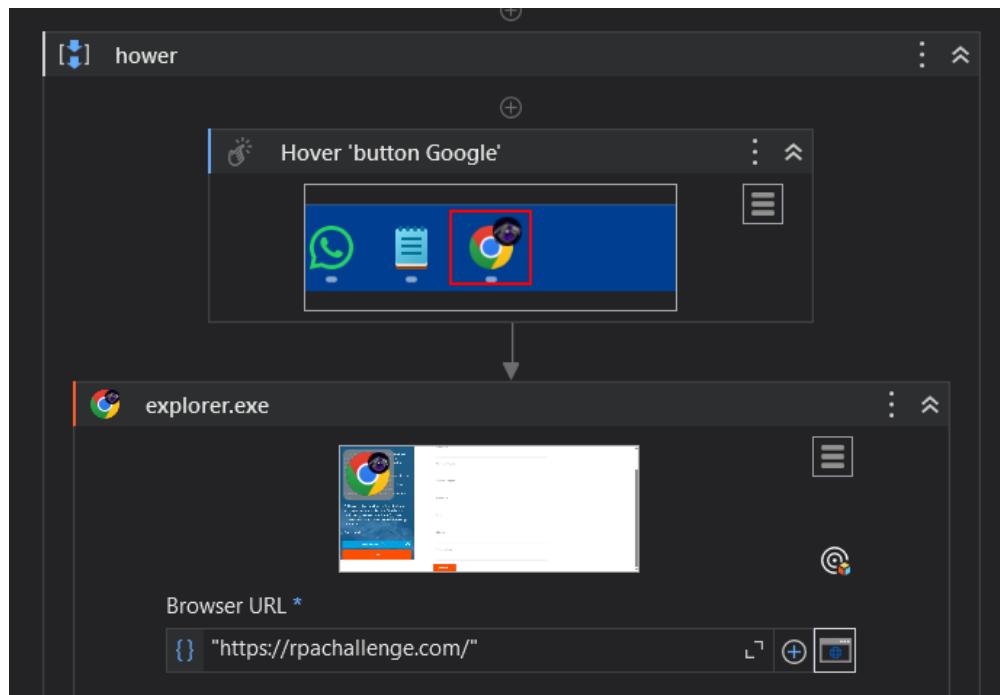
Message Box

Your folder is OPENED

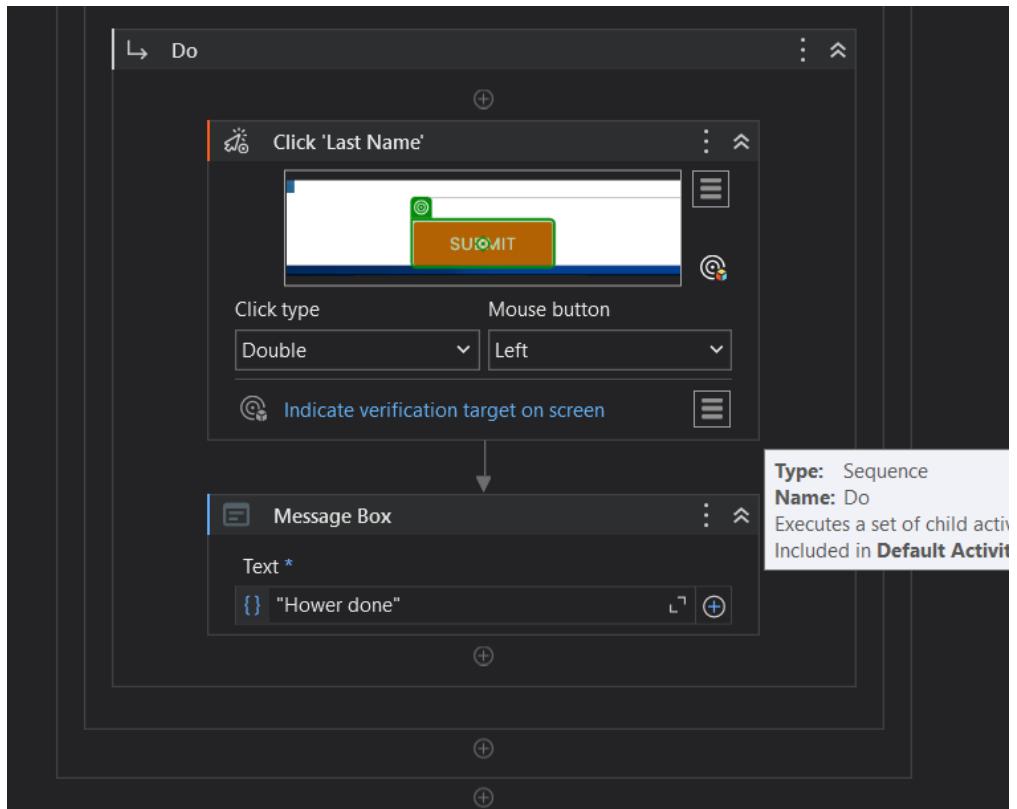
OK

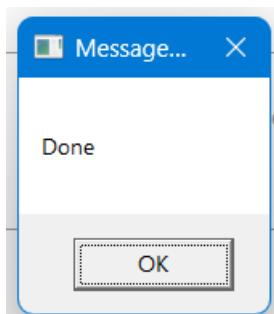
Hower

Drag and drop Hower Activity → Indicated Hower on screen as shown



In Do condition drag and drop Click Activity again indicate on screen as shown → Add Message Box to display the output when executed



Output:

2. Type Into

Drag and drop Open Browser activity → In Do condition add Type Into and indicate on screen as shown to get the output

The screenshot displays a robotic process automation interface. At the top, there is a preview window titled "Document1 - Word" showing a browser window with a login form. Below this, a "Browser URL" field contains the URL "https://rpachallenge.com/". The main workspace shows a sequence of "Type Into" actions:

- The first "Type Into" action is labeled "Type Into 'DIV'". It has a "Text" field containing "GOPI".
- The second "Type Into" action is labeled "Type Into 'INPUT FuSrS'". It has a "Text" field containing "Arya".
- The third "Type Into" action is labeled "Type Into 'INPUT FuSrS'". It has a "Text" field containing "7775554442".
- The fourth "Type Into" action is labeled "Type Into 'DIV'". It has a "Text" field containing "Phone Number".

The "Type Into" actions are connected by arrows, indicating a sequential flow from one step to the next.

Output:

The screenshot shows a web browser window with multiple tabs open. The active tab is titled "rpachallenge.com". The page content is a form titled "Instructions" with a "EN" button. The form fields include "Role in Company" (Email), "Company Name" (GOPI), "Last Name" (Arya), "First Name" (Address), "Phone Number" (7775554442), and an "Address" field which is currently empty. A large orange "SUBMIT" button is at the bottom. A message at the top of the form area says, "UiPath Browser Automation 24.10" started debugging this browser. There is also a "Cancel" button.

Instructions

EN

Role in Company

Email

Company Name

GOPI

Last Name

Arya

First Name

Address

Phone Number

7775554442

Address

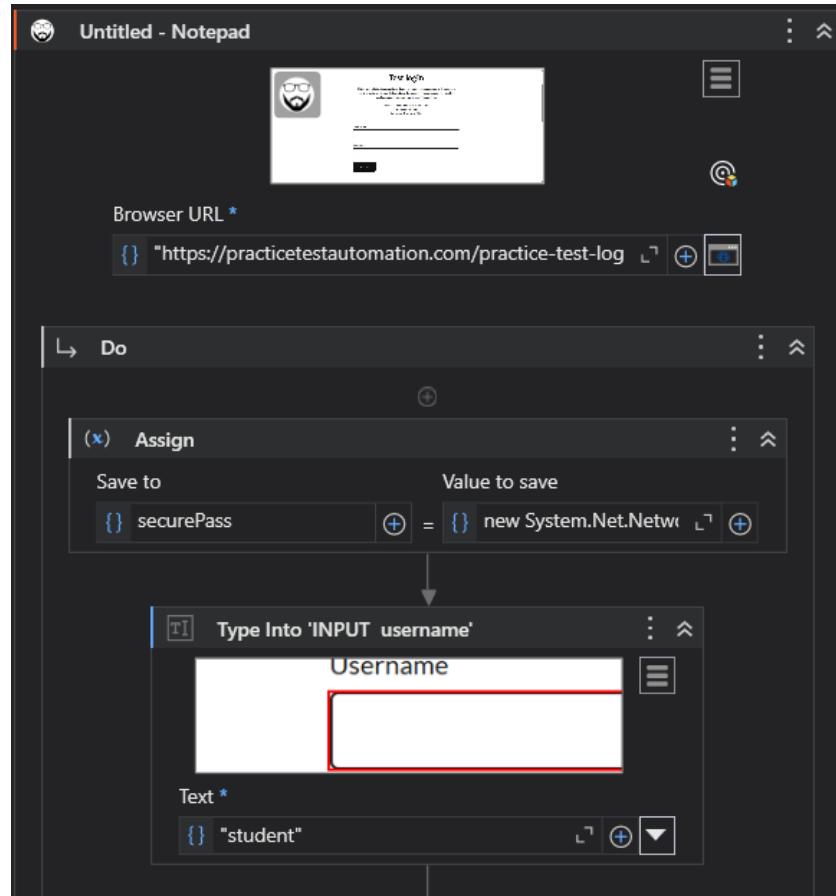
SUBMIT

"UiPath Browser Automation 24.10" started debugging this browser

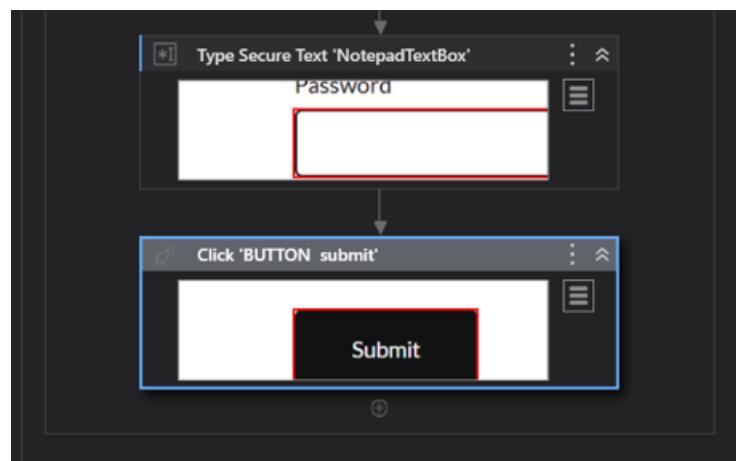
Cancel

3. Type Secure

Drag and drop Open Browser activity and indicate on screen → In Do condition add Assign Activity create a variable and write the equation as shown → Add Type Into and indicate on screen as shown and write the details



Drag and drop Type Secure and indicate on screen → Add Click Button and indicate on screen as shown



Output:

Test login

This is a simple Login page. Students can use this page to practice writing simple positive and negative Login tests. Login functionality is something that most of the test automation engineers need to automate.

Use next credentials to execute Login:

Username: **student**
Password: **Password123**

Username

Password

Submit



Practice
Test Automation

HOME PRACTICE COURSES BLOG CONTACT

Logged In Successfully

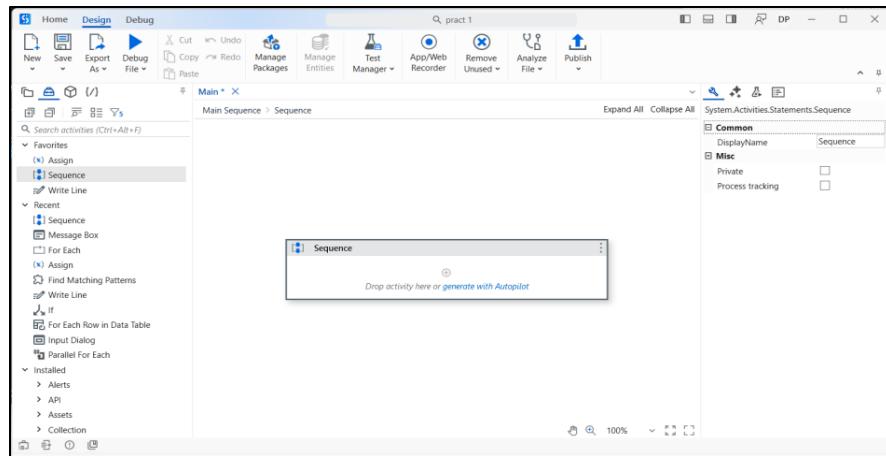
Congratulations student. You successfully logged in!

Log out

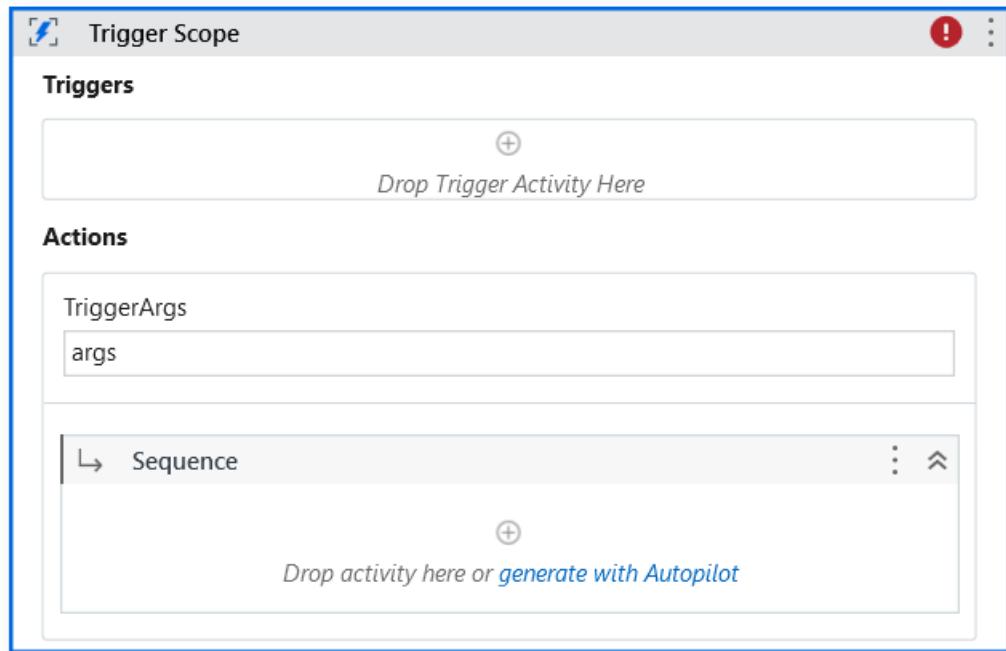
b. Demonstrate the following events in UiPath:

1. Element triggering event
 - a. Click Trigger

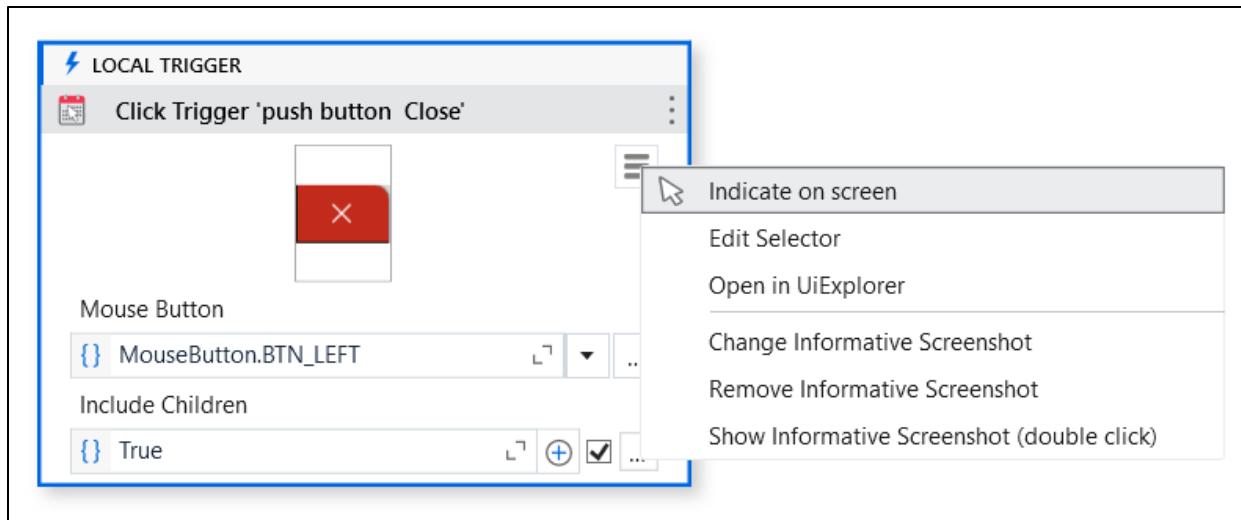
Search for sequence → drag and drop



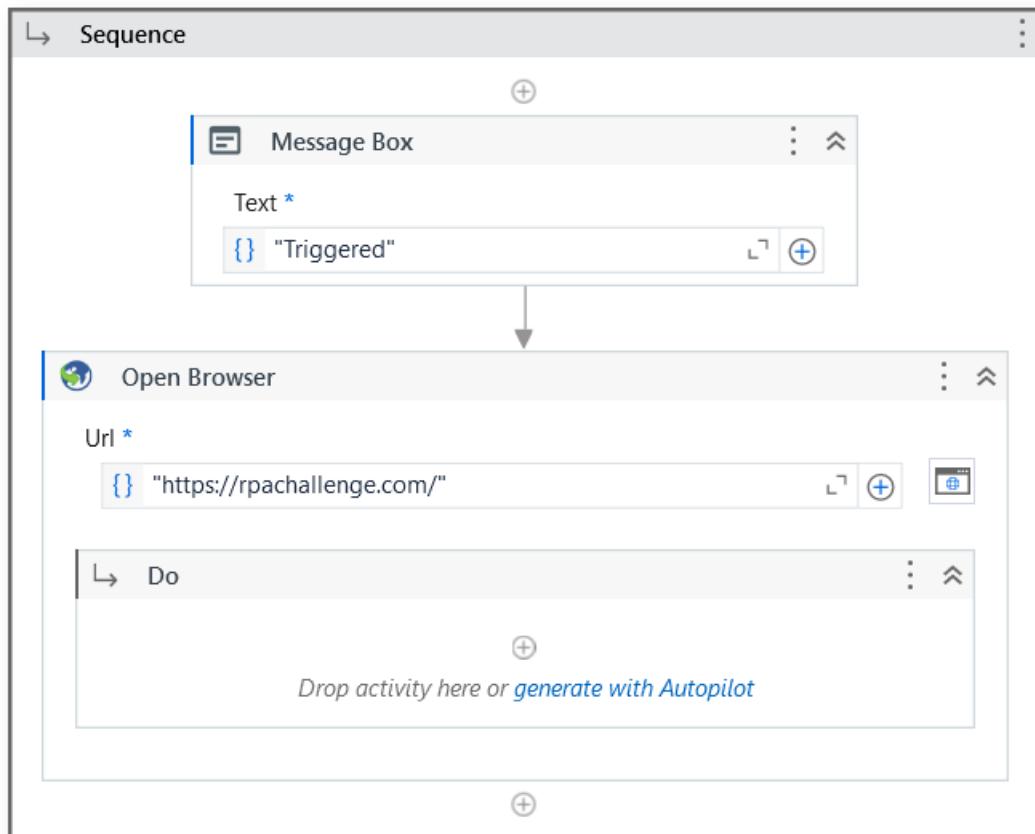
Inside Sequence drag and drop Trigger Scope Activity



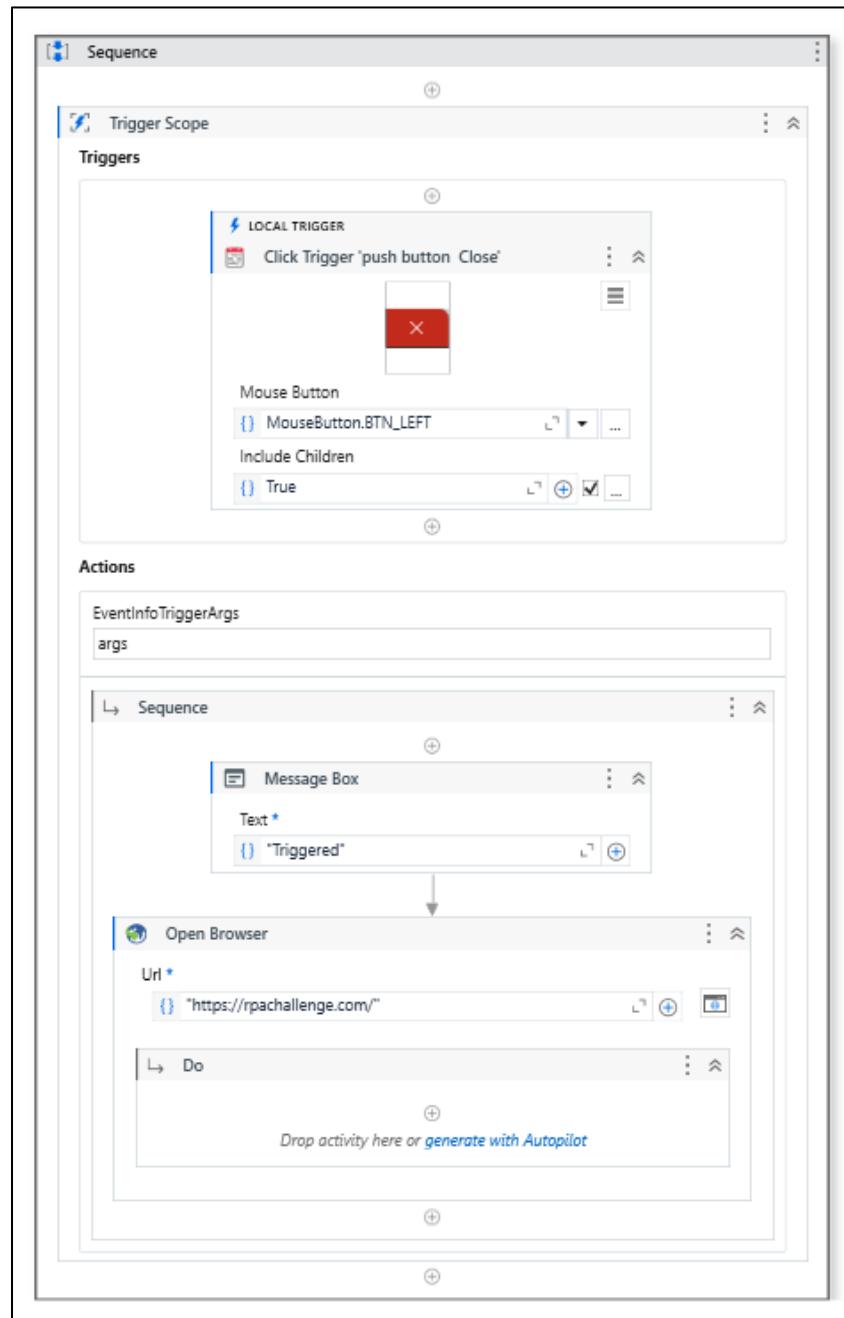
Inside Trigger drag and drop Click Trigger Activity → Indicate the area on screen so if that particular part has been clicked it get triggered as shown below



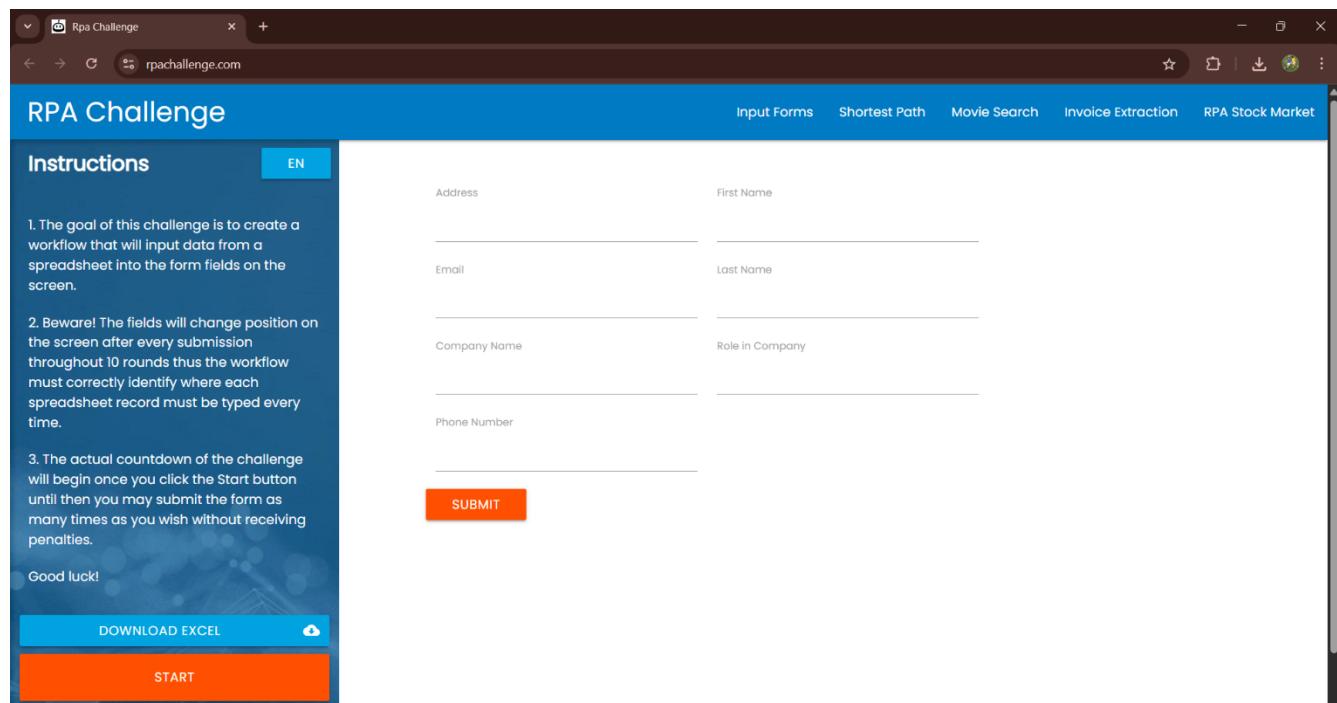
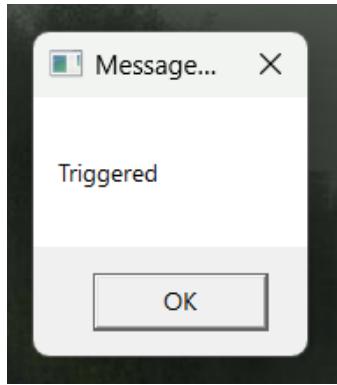
After Click Trigger inside sequence drag and drop Message Box → Write the comment in the message box so when the selected part is clicked it will show trigger → After message box drag and drop Open Browser Activity and in Url mention the website to be open when triggered



Complete Sequence:



Output:



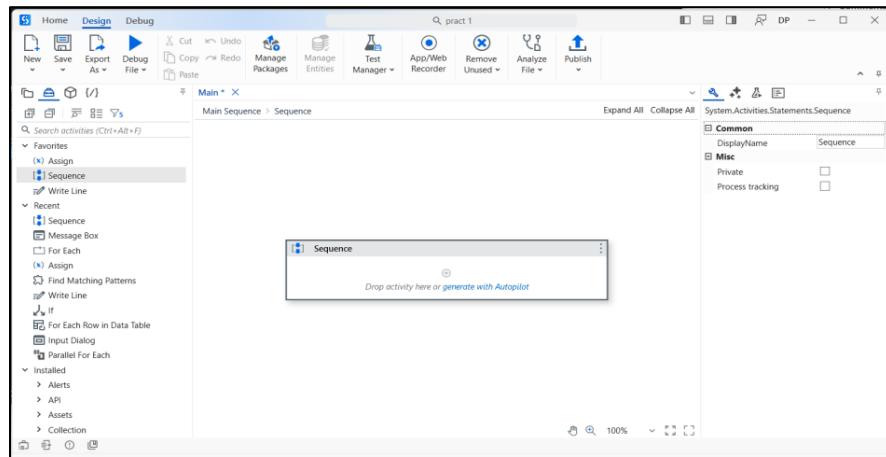
The screenshot shows a web browser window for 'Rpa Challenge' at 'rpachallenge.com'. The page has a blue header with navigation links: Input Forms, Shortest Path, Movie Search, Invoice Extraction, and RPA Stock Market. On the left, there's a sidebar with 'Instructions' and a language switch to 'EN'. The main content area contains three numbered steps:

- The goal of this challenge is to create a workflow that will input data from a spreadsheet into the form fields on the screen.
- Beware! The fields will change position on the screen after every submission throughout 10 rounds thus the workflow must correctly identify where each spreadsheet record must be typed every time.
- The actual countdown of the challenge will begin once you click the Start button until then you may submit the form as many times as you wish without receiving penalties.

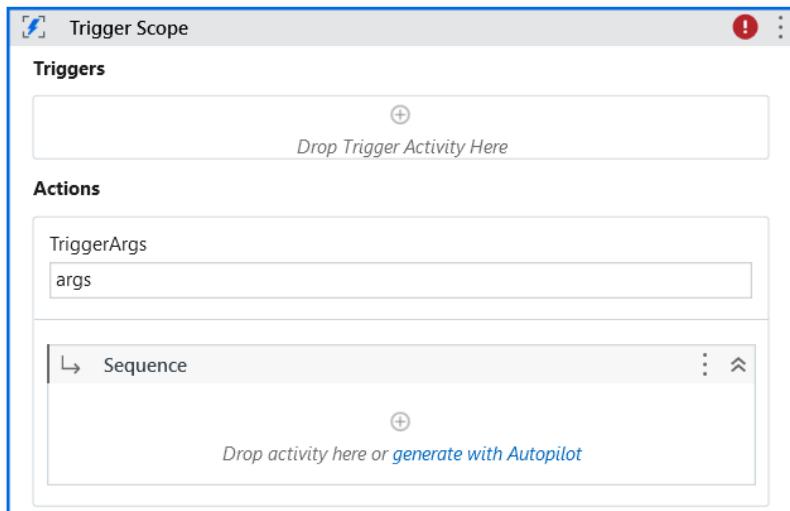
Below the instructions is a message: 'Good luck!' and two buttons: 'DOWNLOAD EXCEL' and 'START' (highlighted in orange). The main form area has fields for Address, First Name, Email, Last Name, Company Name, Role in Company, and Phone Number, all currently empty. A large 'SUBMIT' button is centered below these fields.

b. Key Press Trigger

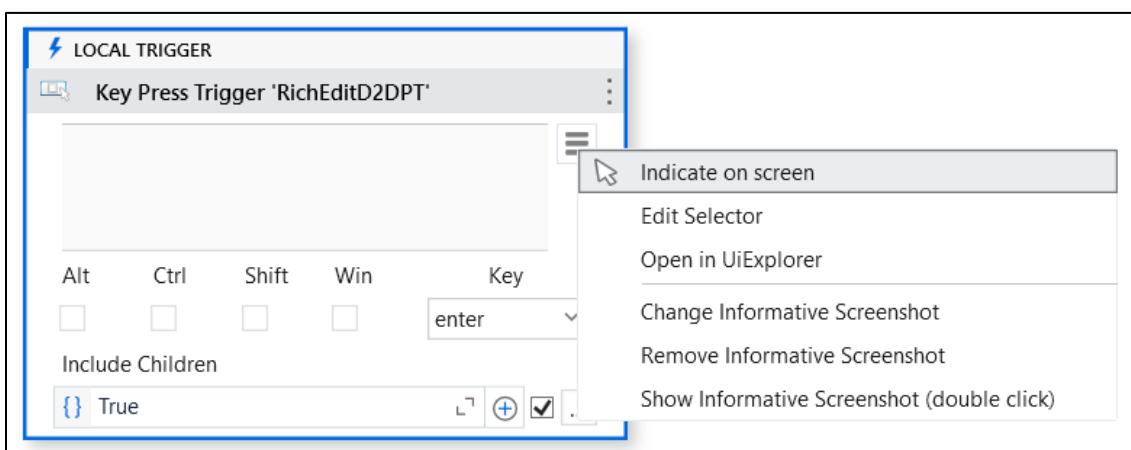
Search for sequence → drag and drop



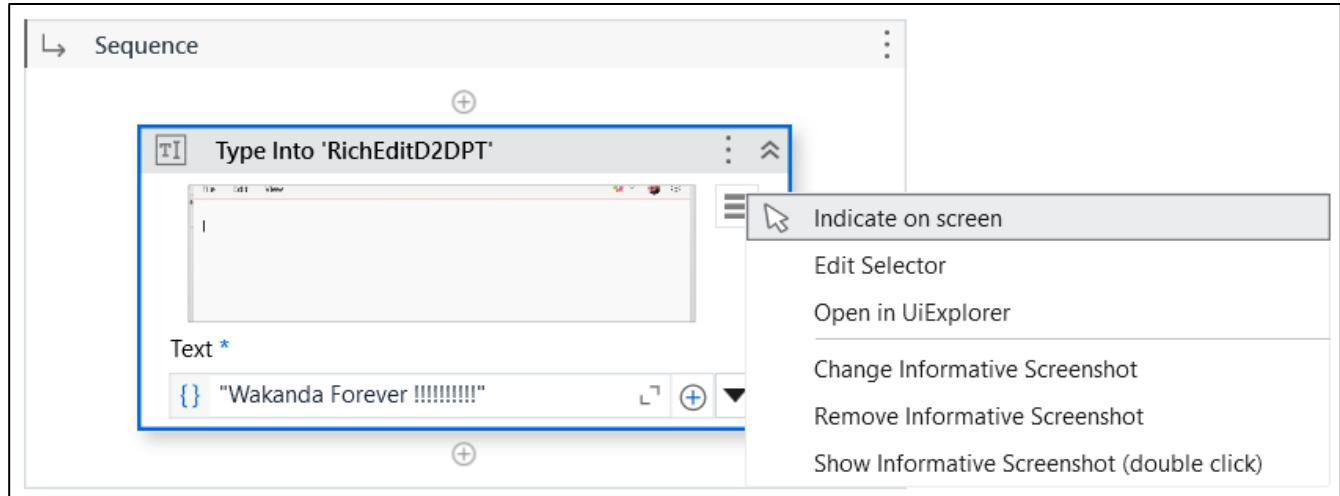
Inside Sequence drag and drop Trigger Scope Activity



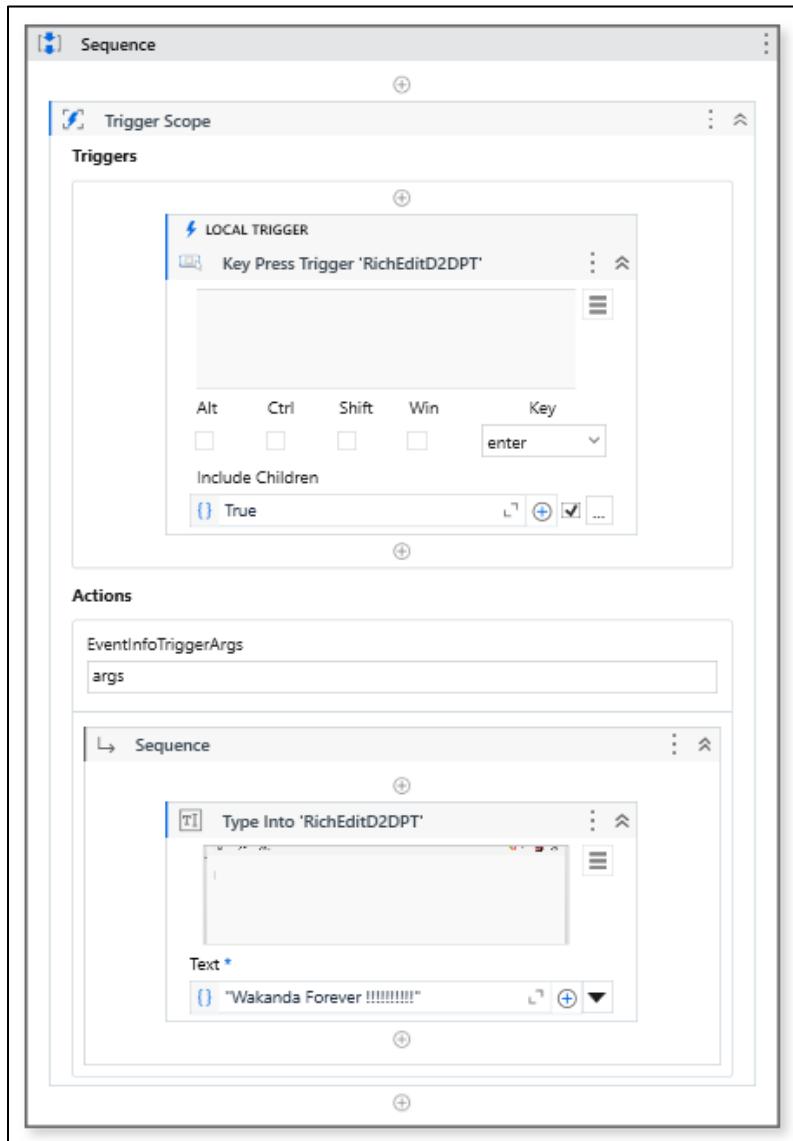
Inside Trigger drag and drop Key Press Trigger Activity → Indicate the area on screen so if that particular part has been clicked it get triggered as shown below

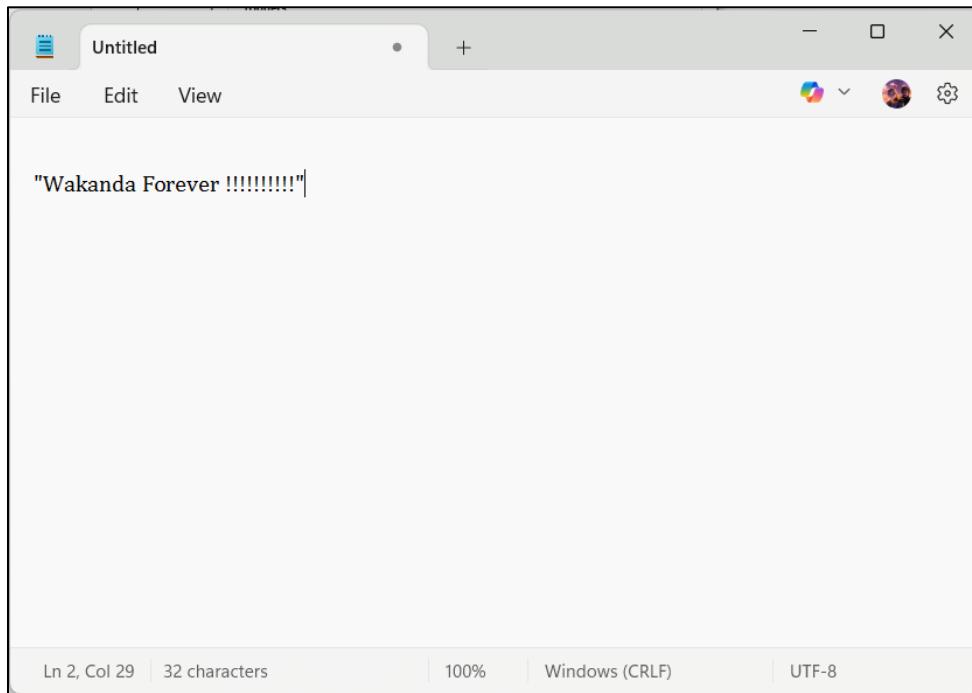


Inside sequence drag and drop Type Into Activity → Indicate the area on screen on which you wanted to get the text written and in text mention the text you wanted as shown below



Complete Sequence:

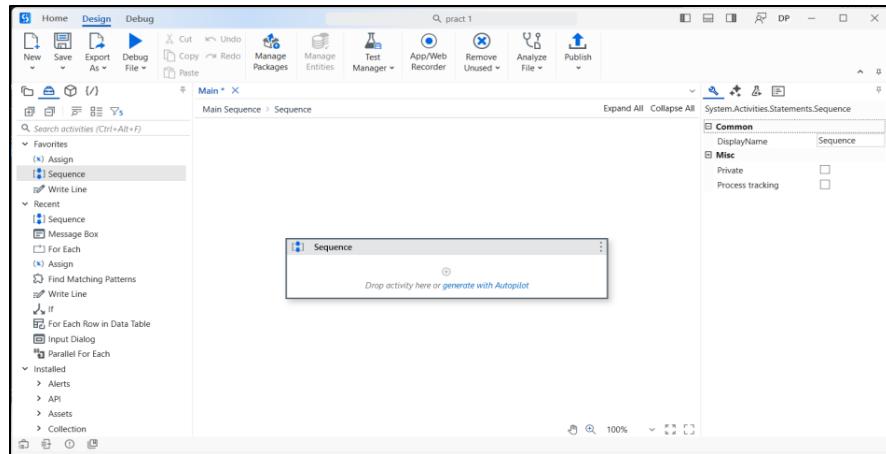


Output:

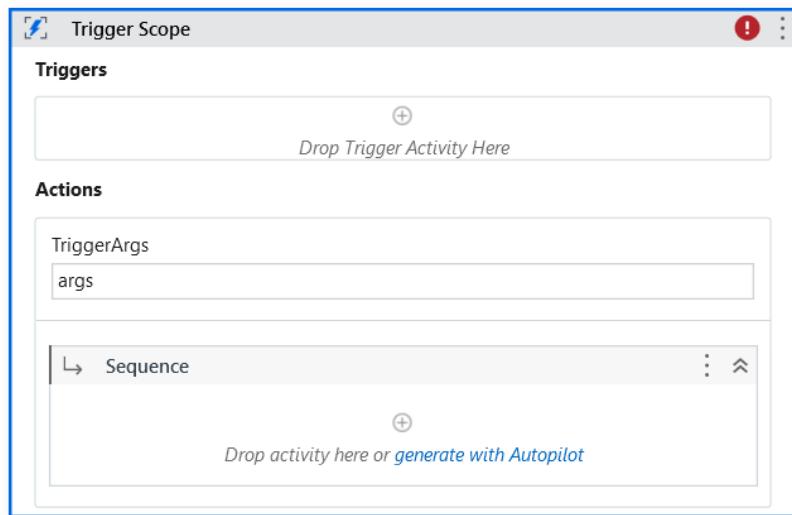
A screenshot of a code editor window titled "Untitled". The editor displays the text "`"Wakanda Forever !!!!!!!"`". The interface includes a toolbar with icons for file operations, a menu bar with "File", "Edit", and "View", and a status bar at the bottom showing "Ln 2, Col 29 | 32 characters", "100%", "Windows (CRLF)", and "UTF-8".

2. Image triggering event

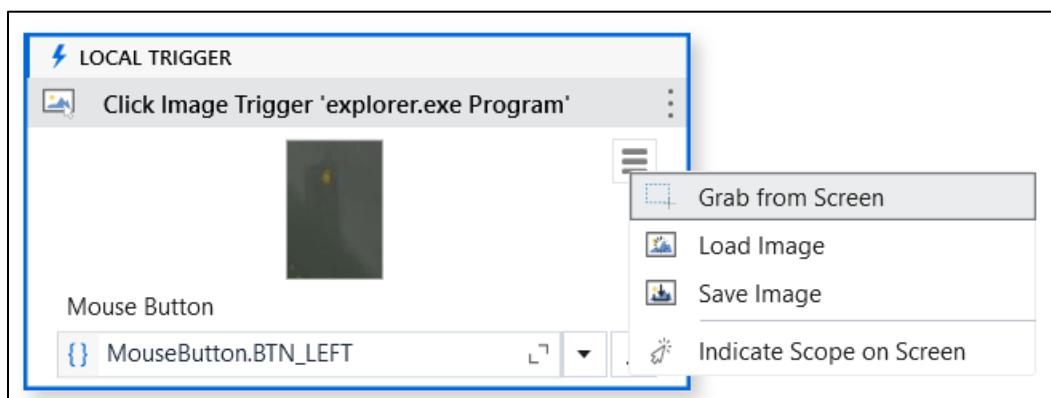
Search for sequence → drag and drop



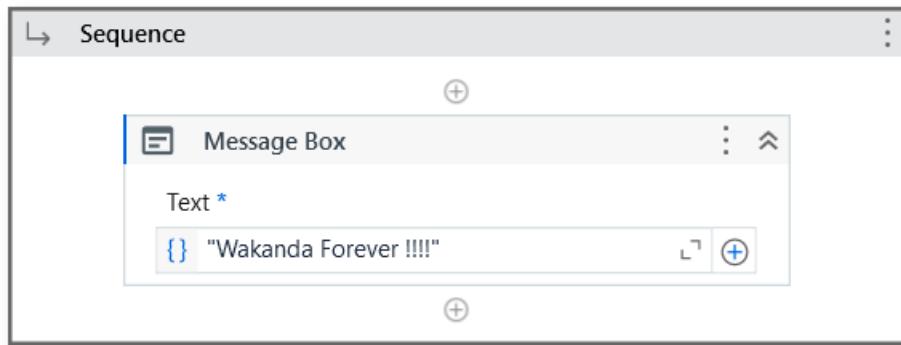
Inside Sequence drag and drop Trigger Scope Activity



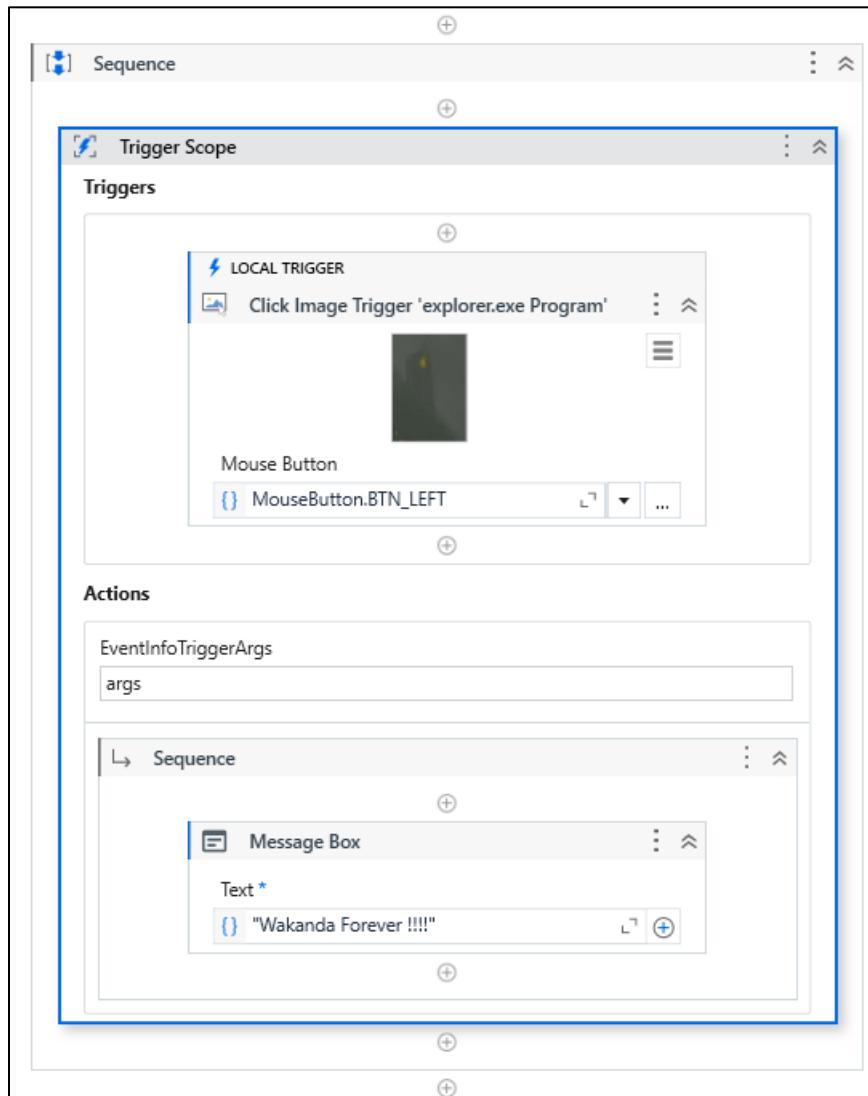
Inside Trigger drag and drop Click Image Trigger Activity → Indicate the area on screen so if that particular part has been clicked it get triggered as shown below

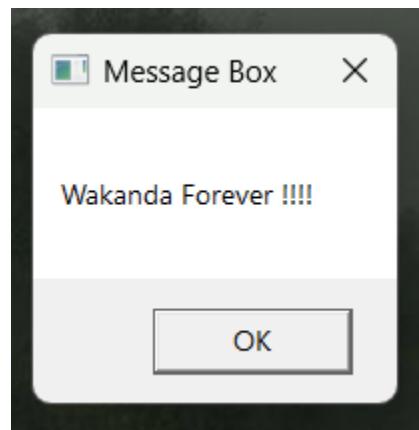


After Click Image Trigger Activity inside sequence drag and drop Message Box → In text write the text to display after the particular part of the image is triggered



Complete Sequence:

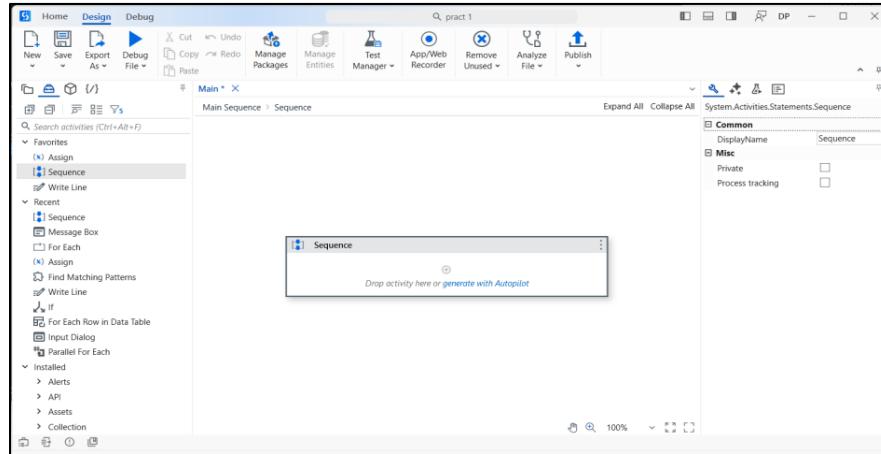


Output:

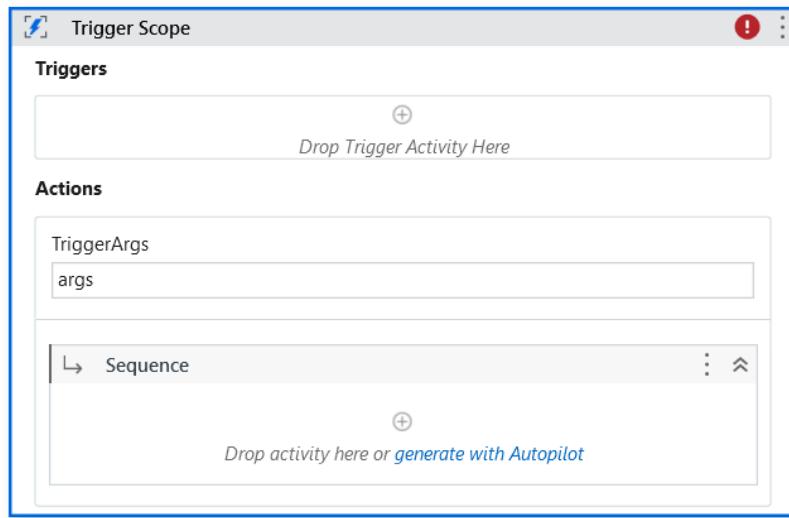
3. System Triggering Event

a. For Hotkey Trigger

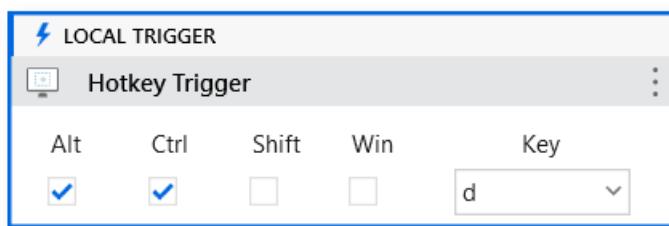
Search for sequence → drag and drop



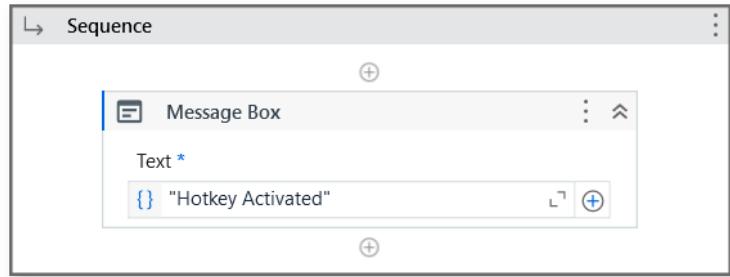
Inside Sequence drag and drop Trigger Scope Activity



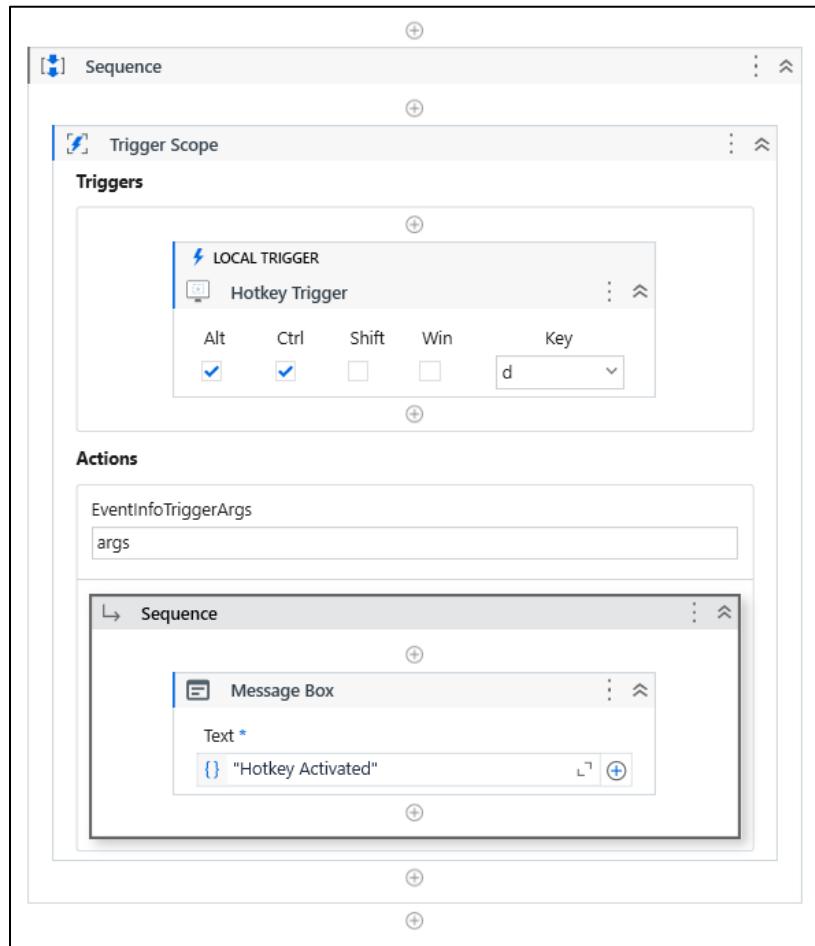
Inside Triggers drag and drop Hotkey Trigger → Mention the keys to get trigger



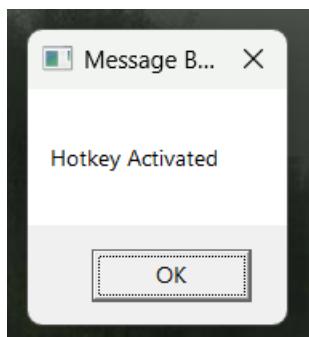
Inside sequence drag and drop Message Box → Write the text to display after Hotkey Triggered



Complete Sequence:

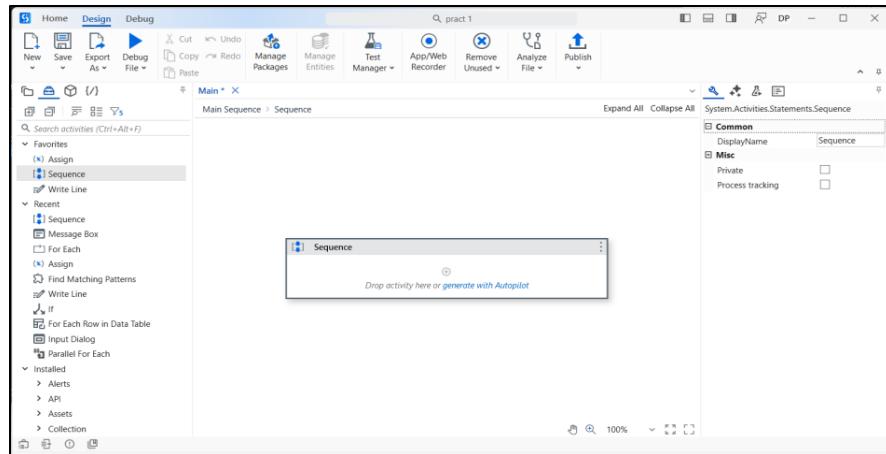


Output:

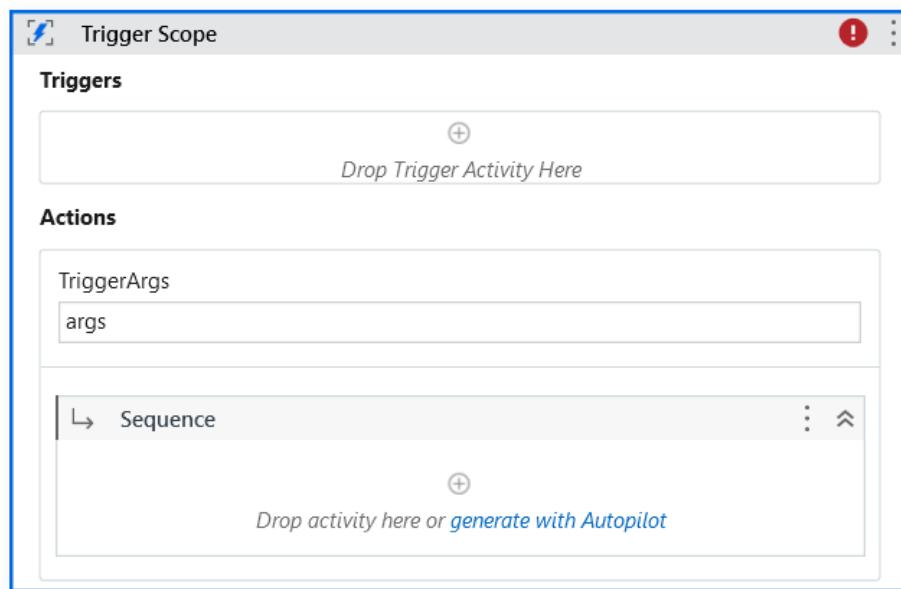


b. For Mouse Trigger

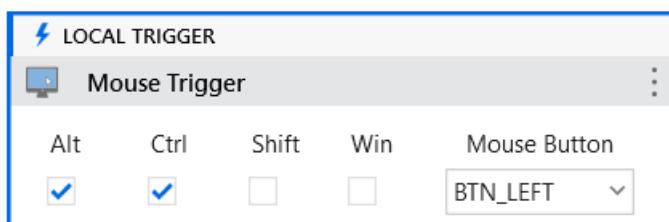
Search for sequence → drag and drop



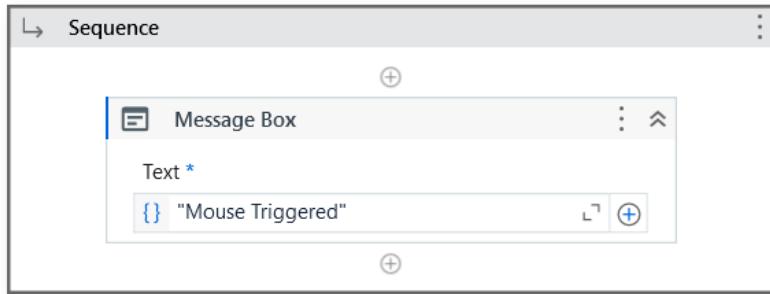
Inside Sequence drag and drop Trigger Scope Activity



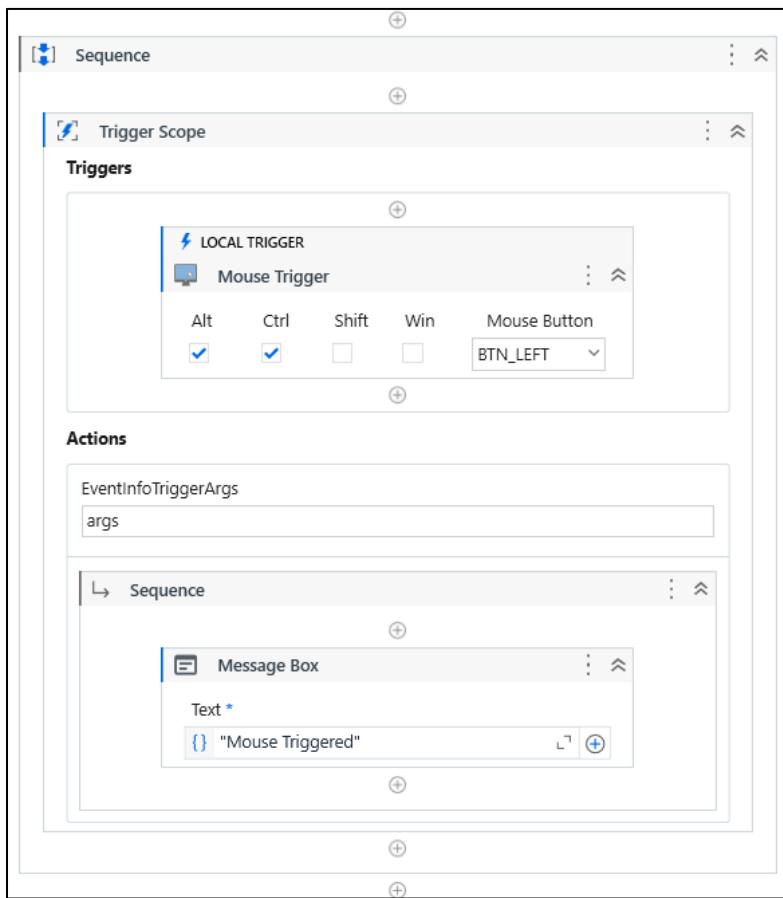
Inside Triggers drag and drop Mouse Trigger → Mention the keys to get trigger



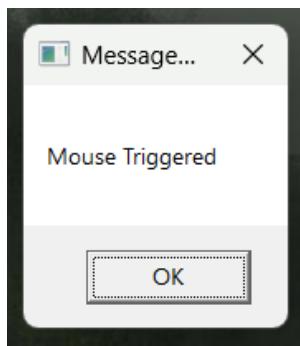
Inside sequence drag and drop Message Box → Write the text to display after Mouse Triggered



Complete Sequence:

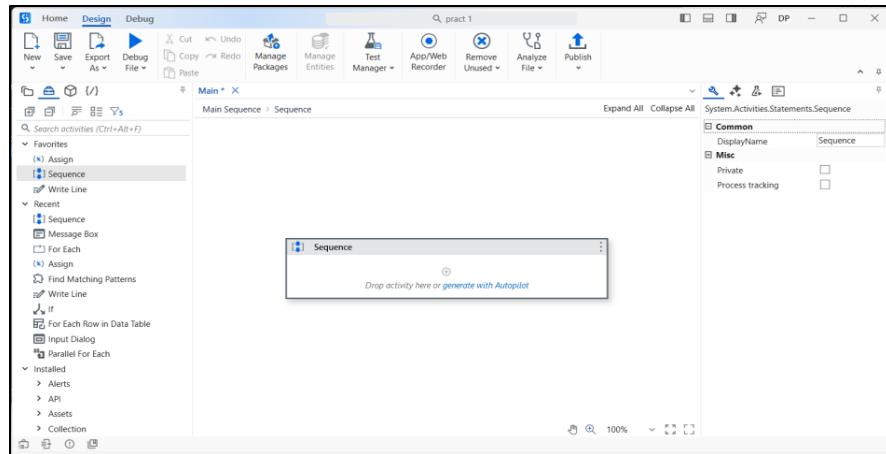


Output:

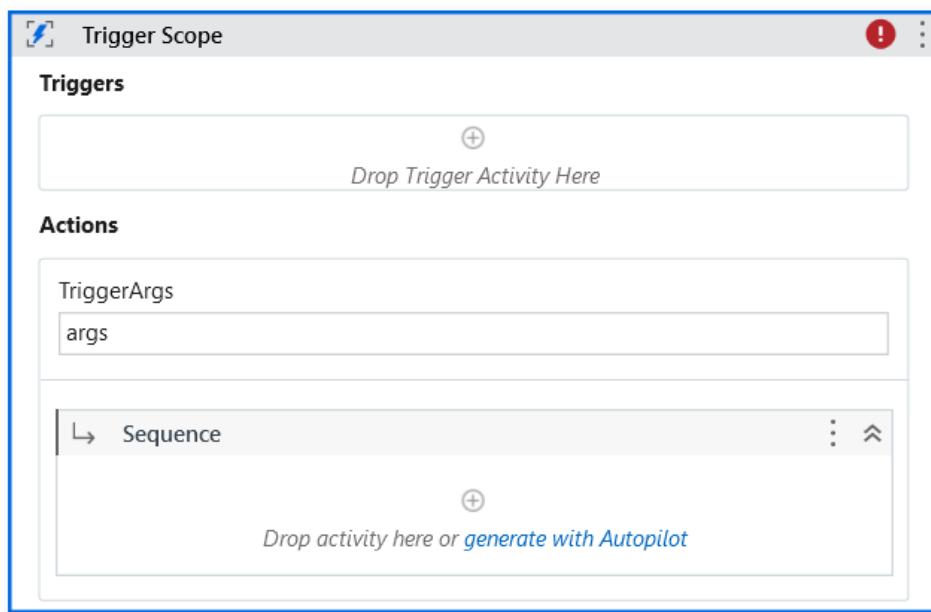


c. For System Trigger

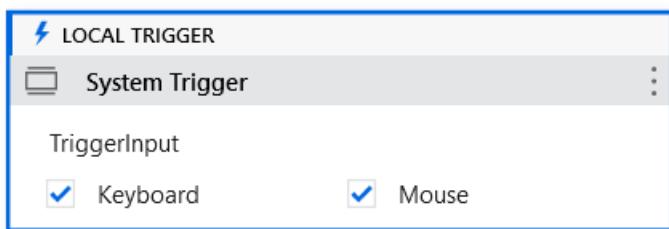
Search for sequence → drag and drop



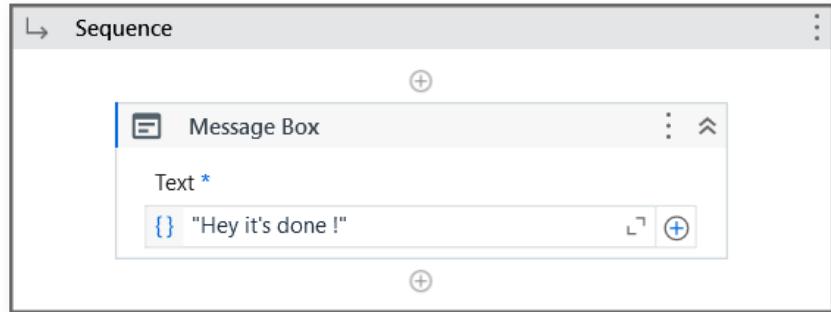
Inside Sequence drag and drop Trigger Scope Activity



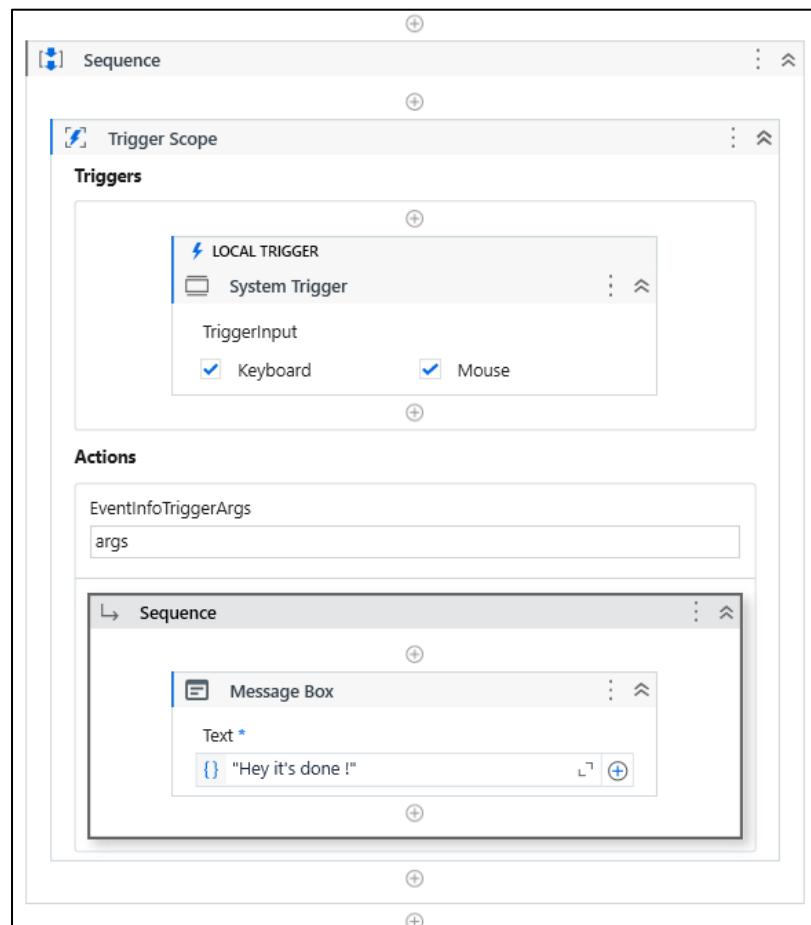
Inside Triggers drag and drop System Trigger → Mention the keys to get trigger



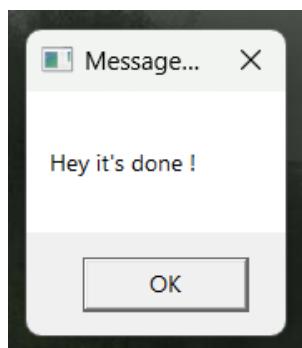
Inside sequence drag and drop Message Box → Write the text to display after System Triggered



Complete Sequence:

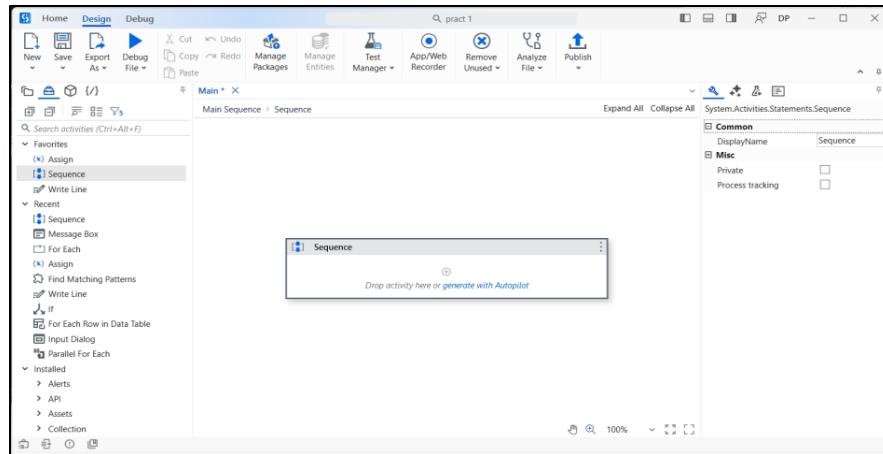


Output:

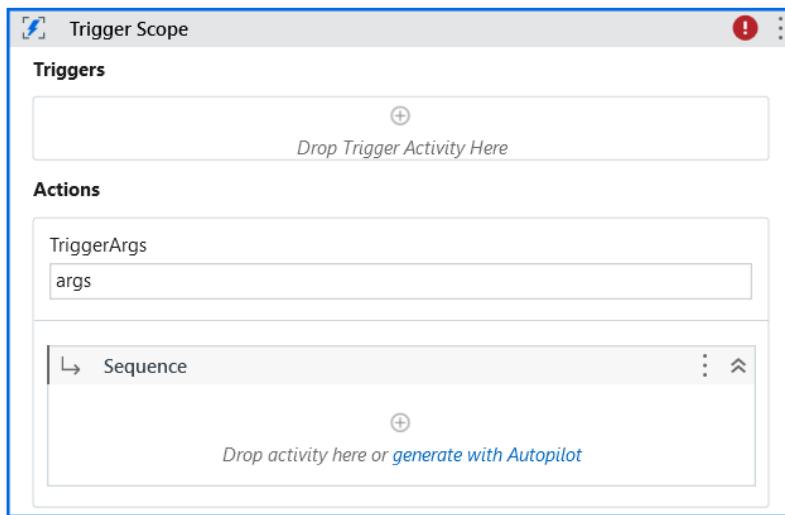


c. Automate the process of launching an assistant bot on a keyboard event.

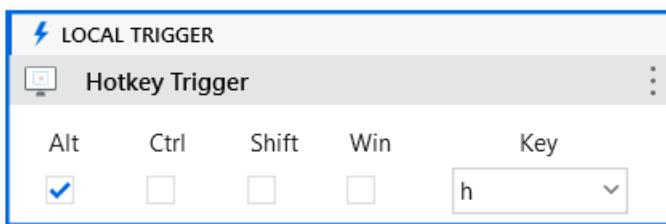
Search for sequence → drag and drop



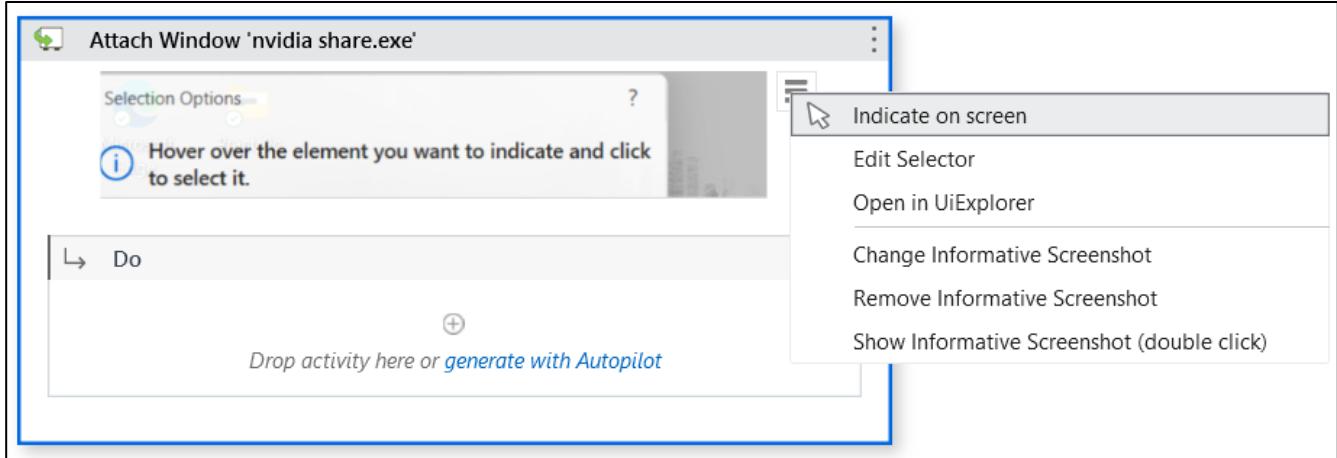
Inside Sequence drag and drop Trigger Scope Activity



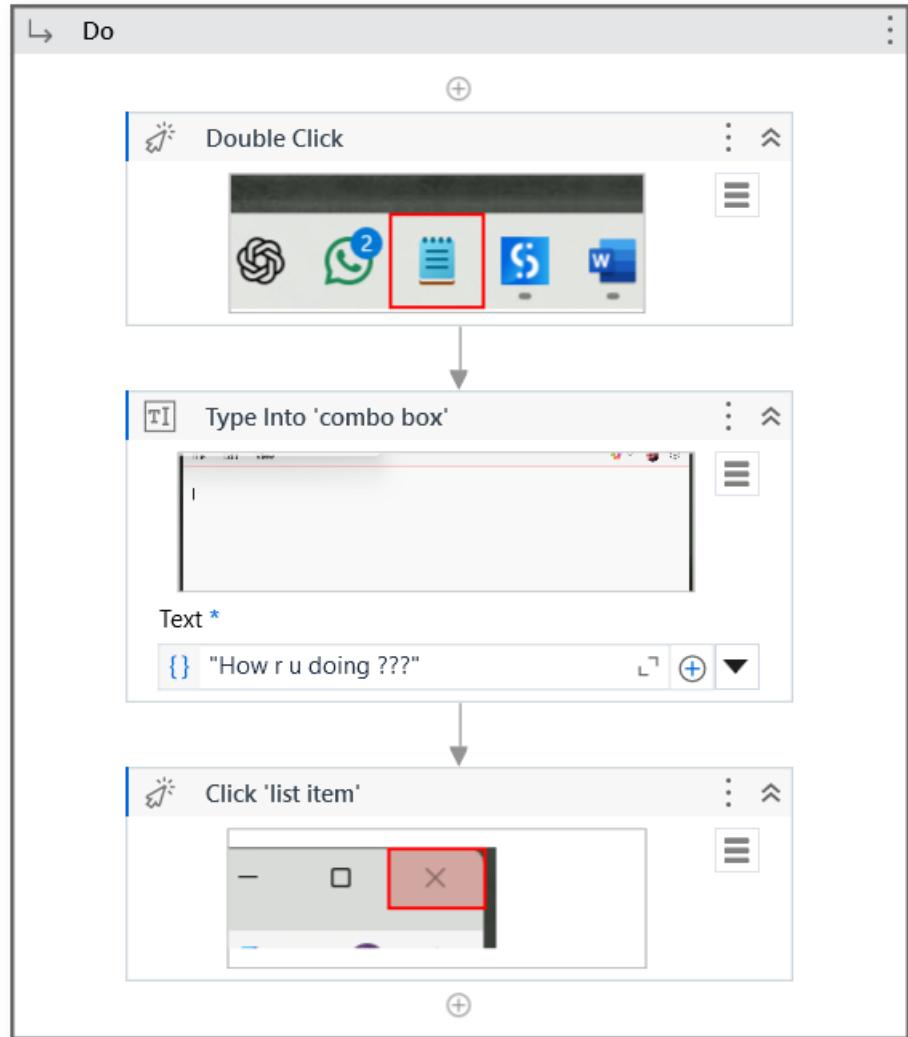
Inside Triggers drag and drop Hotkey Trigger → Mention the keys to get trigger



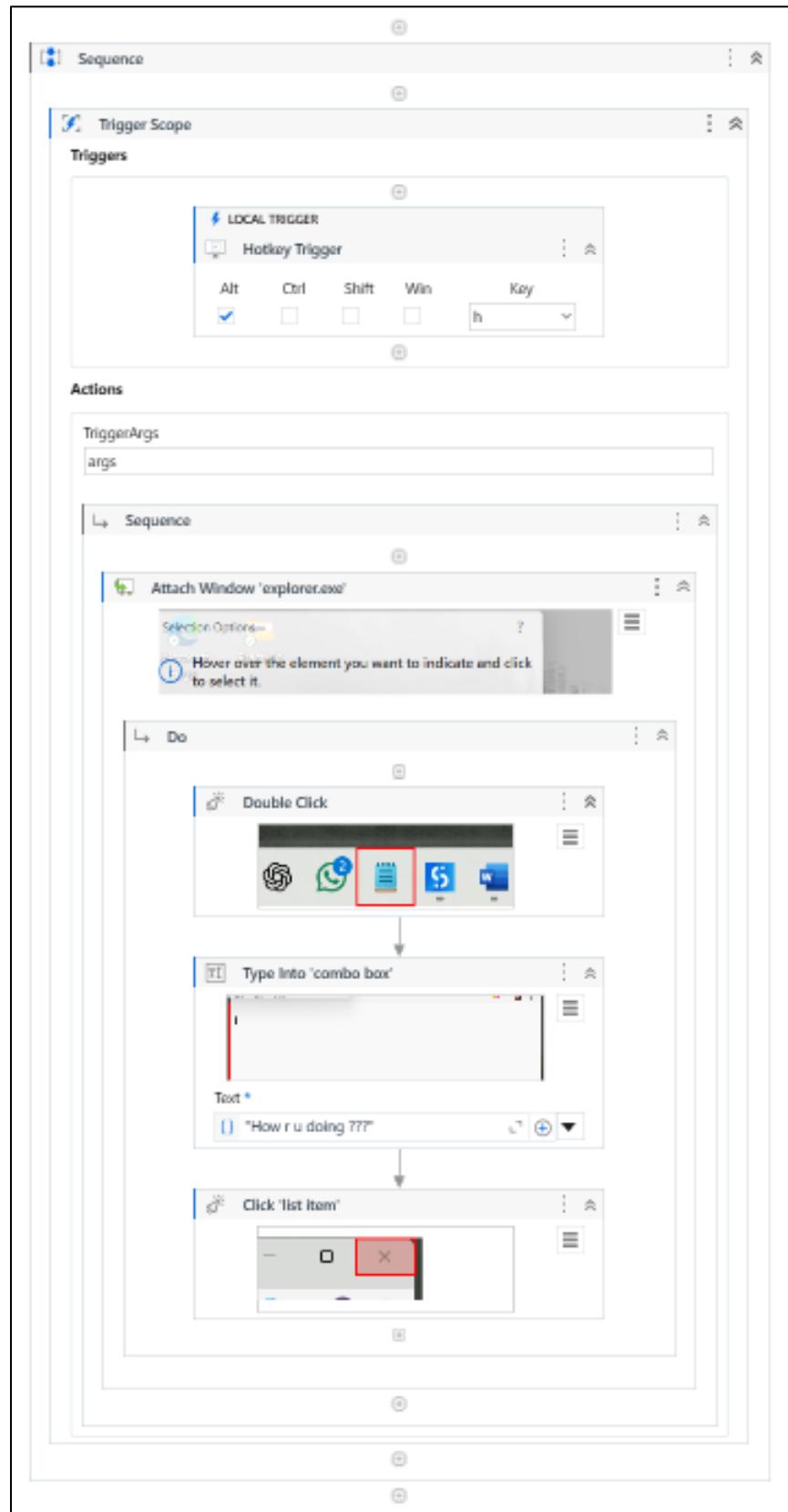
Inside Sequence drag and drop Attach Window Activity → Indicate the screen to spot the application as shown

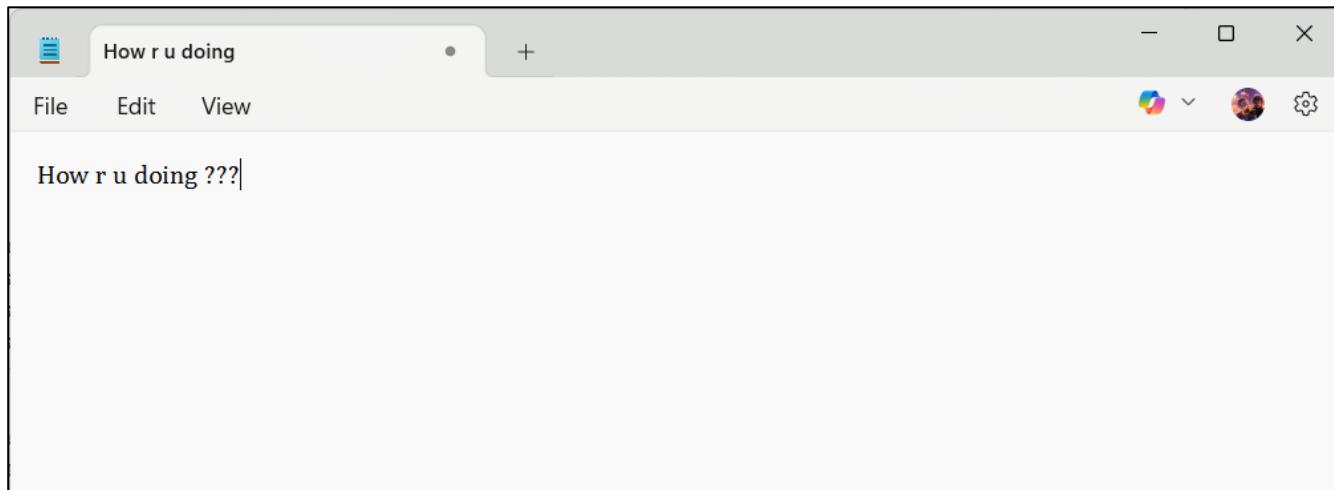


Inside do drag and drop Double Click Activity and indicate the application to be open → Next after Double Click drag and drop Type Into Activity → Indicated the part on screen to display the output and in text type the text to be display → Next drag and drop Click Activity and indicate on screen to close the application



Complete Sequence:



Output:

Practical – 7

Aim: Screen Scraping and Web Scraping methods

- a. Automate the following screen scraping methods using UiPath:
 - i. Full Text
 - ii. Native
 - iii. OCR

What are output methods?

- Output actions / activities are used to extract data from UI, generally in the form of text.
- Output methods are how output actions extract data from UI elements.
- Modern UI automation design typically employs three main output methods which include:
 - Full Text
 - Native Text
 - Optical Character Recognition (OCR)

Each of these output methods has unique characteristics regarding compatibility and its ability to recognize and interact with UI elements.

Various Output Methods

Full Text

The FullText method is the default method and good enough in most cases. It is the fastest, it can extract hidden text, it has 100% accuracy, and can work in the background.

Native

The Native method is compatible with applications that use Graphic Design Interface (GDI), the Microsoft API used for representing graphical objects. It doesn't extract hidden text and it cannot work in background, and just like FullText, it doesn't support virtual environments.

OCR

OCR (or Optical Character Recognition) is the only method that works with virtual environments and with “reading” text from images. Its technology relies on recognizing each character and its position. On the other hand, it cannot work in the background, it cannot extract hidden text, and its speed is by far the lowest.

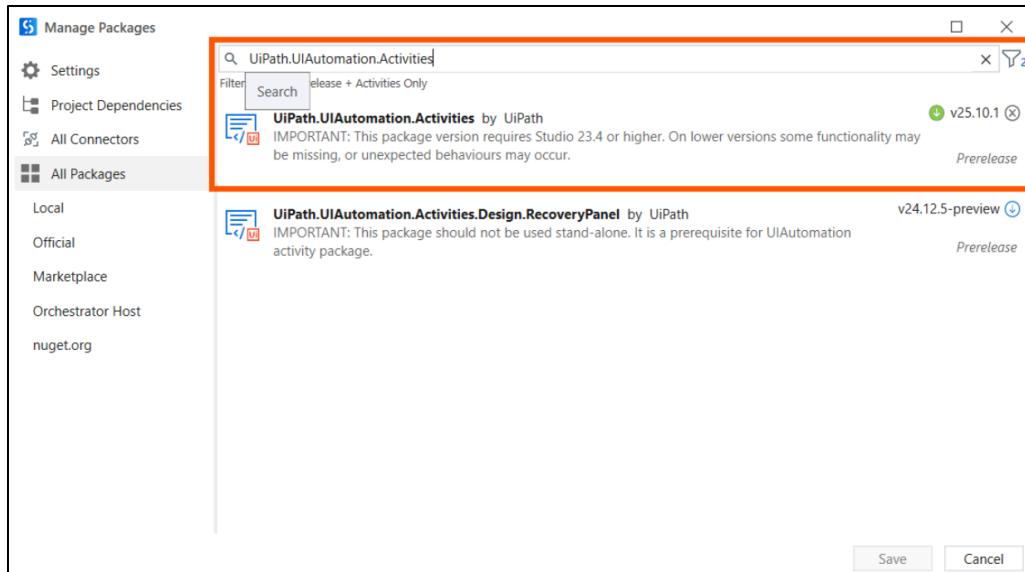
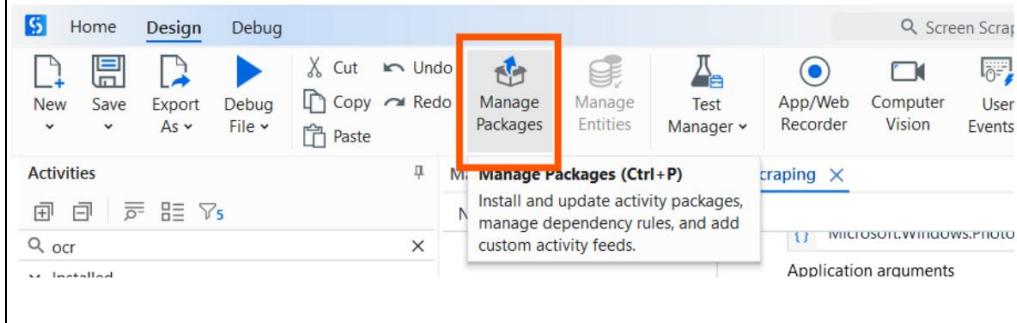
Comparison – Output Methods

Source : UiPath Academy

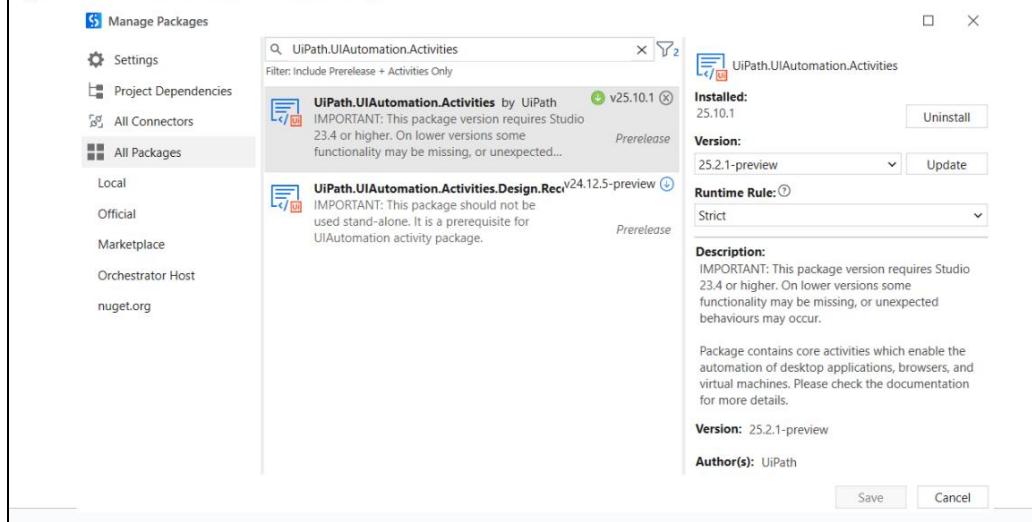
Output Method	FULL TEXT	NATIVE	OCR
Default method and Compatibility	It is the Default method and good enough in most cases.	Compatible with applications that use Graphics Design Interface (GDI) , the Microsoft API is used for works with virtual environments and with "reading" text from images . Its technology relies on recognizing each character and its position.	OCR (or Optical Character Recognition) is the only output method that works with virtual environments and with "reading" text from images . Its technology relies on recognizing each character and its position.
Automation Speed	Fastest compared to the other two methods.	Somewhat slower than FullText.	By far the slowest.
Accuracy	100% accuracy.	100% accuracy on the applications that support GDI.	Accuracy varies from one text to another, by changing the settings we can improve the results.
Running in Background	Works in the background.	Cannot work in the background.	Cannot work in the background.
Hidden Text	Can extract hidden text (for example, the options in a drop-down list).	Cannot extract hidden text.	Cannot extract hidden text.
Virtual Environment	Doesn't support virtual environments.	Doesn't support virtual environments.	Works with virtual environments and with "reading" text from images .
Text position and Formatting	Doesn't capture text position and formatting.	Can extract the text position and formatting (including text color)	Like the Native method, it also captures the text position.
Other	The method offers the option to ignore the hidden message and capture only the visible text.	By default, it can process all known characters as separators (comma, space, and so on), but when only certain separators are specified, it can ignore all the others.	The OCR method has two default engines that can be used alternatively: Google Tesseract , Microsoft MODI . There are additional OCR engines that can be installed free of charge (such as Omnipage and Abbyy Embedded) or paid (IntelligentOCR offered by Abbyy).

In modern design Screen Scraping and data scraping is located else

UiPath.UIAutomation.Activities



In my case its already installed thus you can see Uninstall option, in your case it will be install



OCR → API ERROR THEN

Option 1: Use a Valid UiPath OCR API Key

1. Log in to UiPath Automation Cloud

<https://cloud.uipath.com>

2. Go to:

- Admin > Licenses > Robot & Services > Look for Document Understanding

3. Under Document Understanding, copy the API key.

4. In UiPath Studio:

- Go to the UiPath Document OCR activity.

In the **Properties panel**, paste the API key in the **API Key** field.

OCR:

The screenshot shows the UiPath Studio Web interface. The top navigation bar includes 'Favorites' (Admin, Orchestrator), 'Home', 'Studio', 'Orchestrator', 'Maestro', and 'Admin'. A banner for 'Incorporate agents.' is displayed. On the right, there's a sidebar with 'Boost your productivity effortlessly' (Automate tasks online, any operating system. No installs needed.), a 'Start in Studio Web' button, a 'Download center' link, 'What's New' (Healing Agent is now generally available. Be the first to try it! See the user guide), a 'Sign up now' button, and a 'Resources' section.

The screenshot shows the UiPath Administration interface for tenant 'Dhiraj.Student'. It features a sidebar with 'Tenants' (DefaultTenant) and a main area with six cards: 'Accounts & local groups', 'Manage access (Preview)', 'Lenses', 'Security', 'AI Trust Layer', and 'Audit logs'. A prominent callout at the top states: 'The Community Plan is intended for non-commercial use only. Any commercial use is in violation of the UiPath Terms of Use and Privacy Policy.' The 'Lenses' card is highlighted with a border.

This screenshot provides a detailed view of the 'Licenses' section within the UiPath Administration interface for tenant 'Dhiraj.Student'. It shows the 'Community Plan' status and a message about API usage. Below, it lists license types: 'Attended - Named User' (2), 'Citizen Developer - Named User' (1), 'Automation Developer - Named User' (2), and sections for 'License Allocations to Groups' and 'License Allocations to Users'. Buttons for 'Buy Now' and 'Enterprise Activation' are visible at the top right.

Dhiraj_Student > Licenses

Community Plan Subscription Expiry: Feb 14, 2026

View Licenses

- Production (Unattended) Robot**: The maximum number of Production (Unattended) Robots that are able to execute back-office processes simultaneously.
- Data Service Units**: Each Data Service Unit grants you 100 MB of data storage, 500 MB of attachment storage and 1,000 API calls/day.
- Computer Vision**: Throughput limit (megapixels/min)
- Testing Robot**: The maximum number of Testing Robots that are able to run simultaneously.
- Document Understanding**: Documents limited to 2 pages and 4MB
- Test Manager**: Test Manager license allows the service to be enabled on any given tenant.

Support ID: 8354-9717-5060-9711

As you can see inside Do condition there is Get OCR Text Activity → After clicking on OCR on right side in properties in API key you have to enter the API key to get the OCR start

Pract_7_b_iv_De... > Sequence

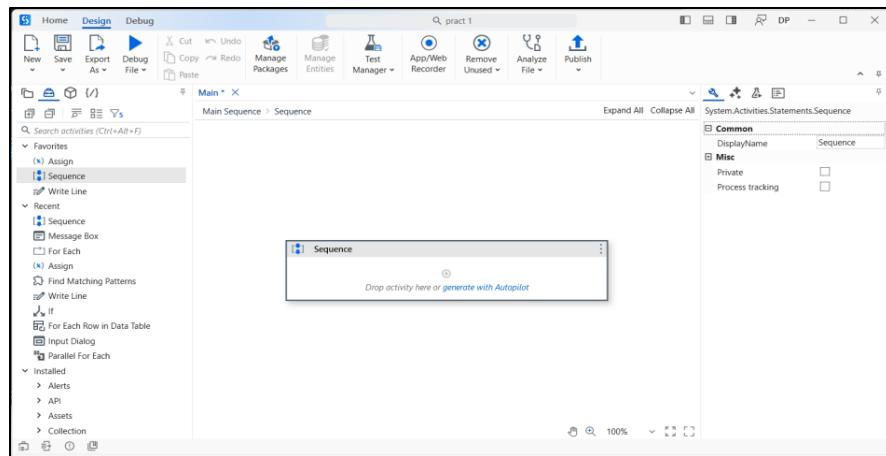
Expand All Collapse All

UiPath.OCR.Activities.UiPathDocumentOCR

- Common**: DisplayName: UiPath Document C
- Input**: Image
- Logon**: Timeout (milliseconds): 100000
- Misc**: ApiKey: "4tprfGoR...", Endpoint: UiPath Do, Private: UseLocalServer: Determine
- Output**: Result: The extracted..., Text: The extracted...

b. Demonstrate Data Scraping and display values in Message box.

Search for sequence → drag and drop



Create a Variable

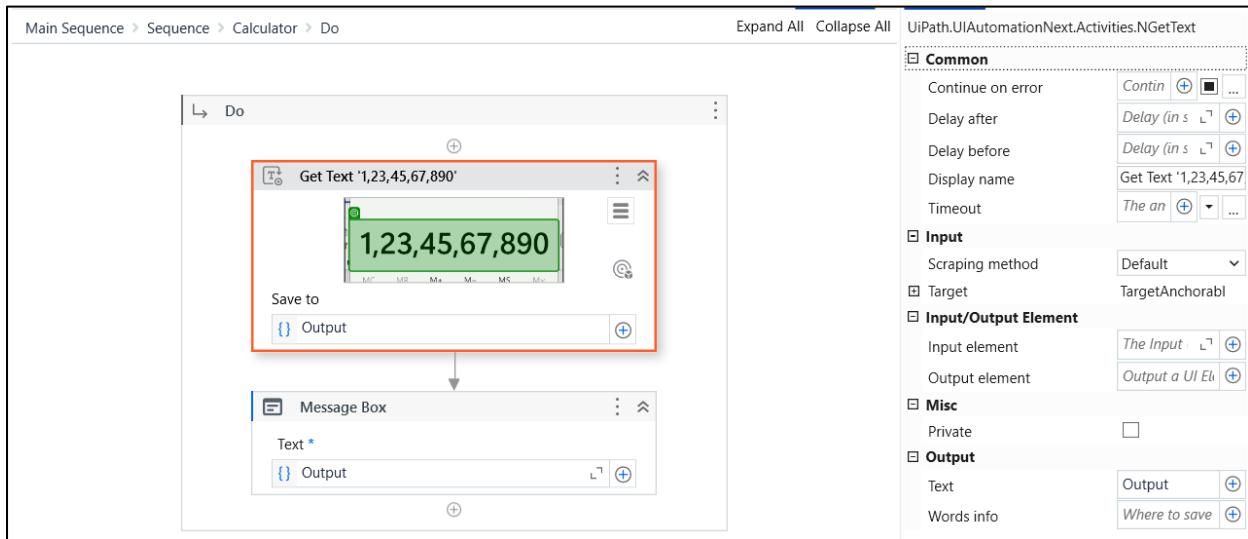
The screenshot shows the 'Data Manager' interface with the 'Variables' tab selected. A table lists a single variable entry:

Name	Data Type	Scope	Default Value
(x) Output	String	Calculator	{}

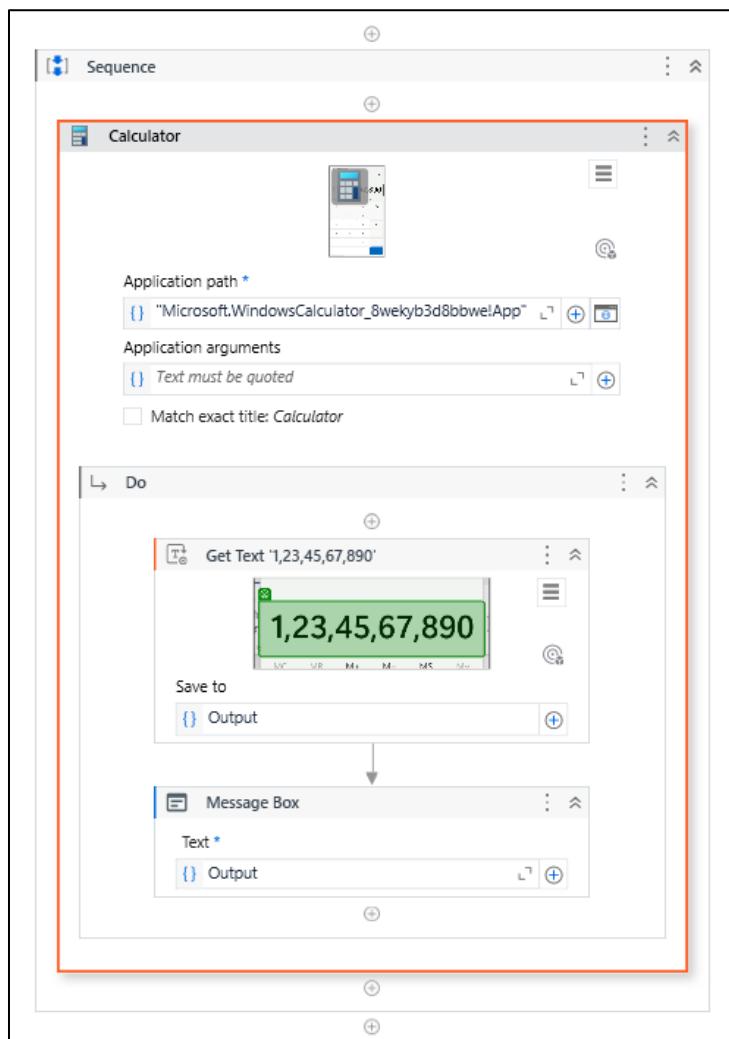
Inside Sequence drag and drop Use Application/Browser Activity → Indicate the application to capture the data and automatically the Application path will get filled with the path

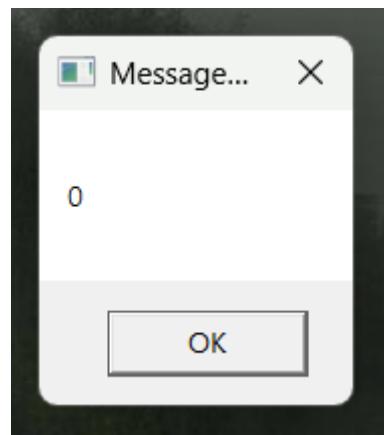
The screenshot shows the 'Application/Browser Activity' configuration screen. On the left, there's a preview of the 'Calculator' application. Below it, the 'Application path' field contains the value '{ "Microsoft.WindowsCalculator_8wekyb3d8bbwe!App" }'. To the right of the application path, a context menu is open with several options: 'Indicate target on screen (I)', 'Highlight Target (H)', 'Show Informative Screenshot (double click)', 'Remove informative screenshot', 'OCR Engine', and 'Add Screen to Object Repository'. At the bottom of the configuration screen, there are fields for 'Application arguments' (containing '{ } Text must be quoted') and a checkbox for 'Match exact title: Calculator'.

Inside Do condition drag and drop Get Text Activity → Indicate to capture the text to get the output → Create a variable in properties text section as shown → After Get Text Activity drag and drop Message Box and mention the variable created in Get Text



Complete Sequence:

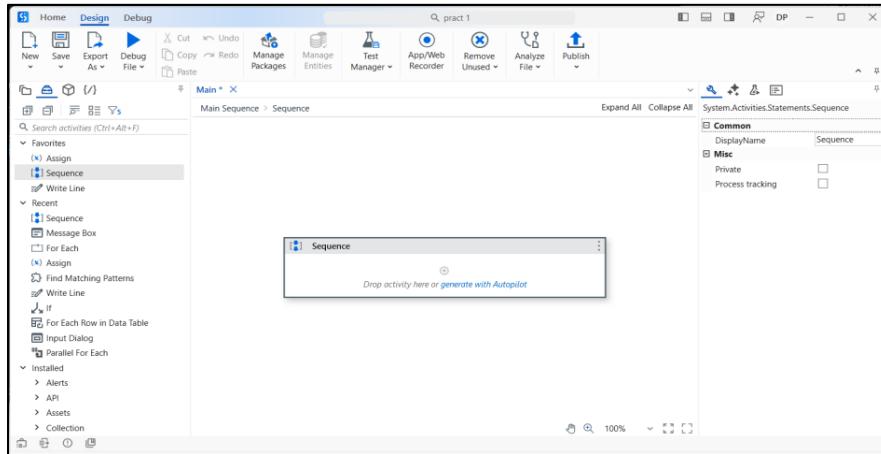


Output:

c. Demonstrate Screen Scraping for a pdf, web page and image file.

i. For Web Page

Search for sequence → drag and drop



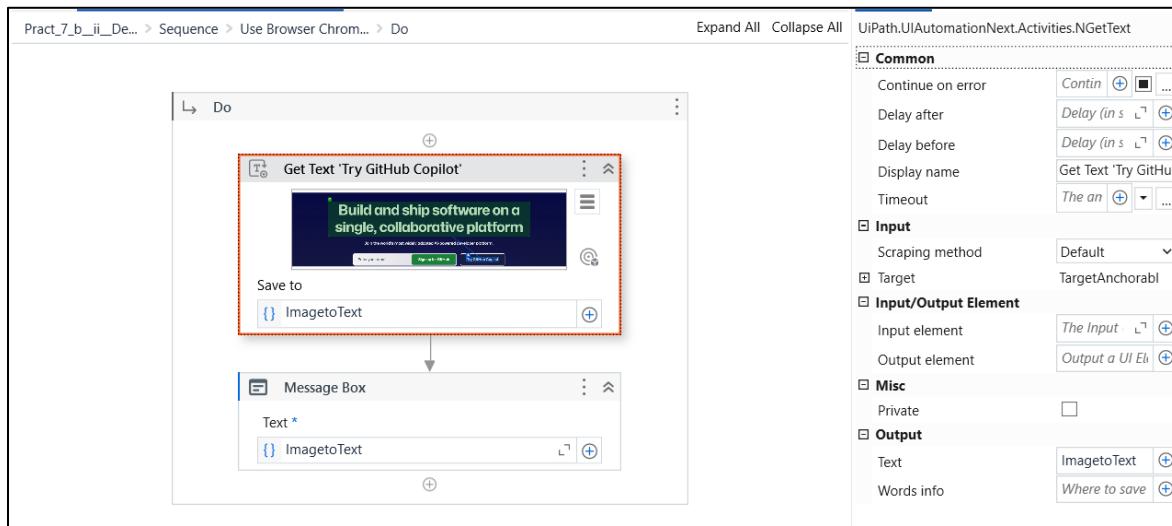
Create a Variable

The screenshot shows the Data Manager variables section. The top navigation bar includes Data Manager, Output, Breakpoints & Bookmarks, and Error List. The Variables tab is selected. Below the tabs, there's a search bar and filters for Arguments, Namespaces, and Connections. A table lists variables with columns for Name, Data Type, Scope, and Default Value. One variable, 'ImagetoText', is listed with a String data type and a default value of 'Use Browser Chrome: GitHub · Build... {}'.

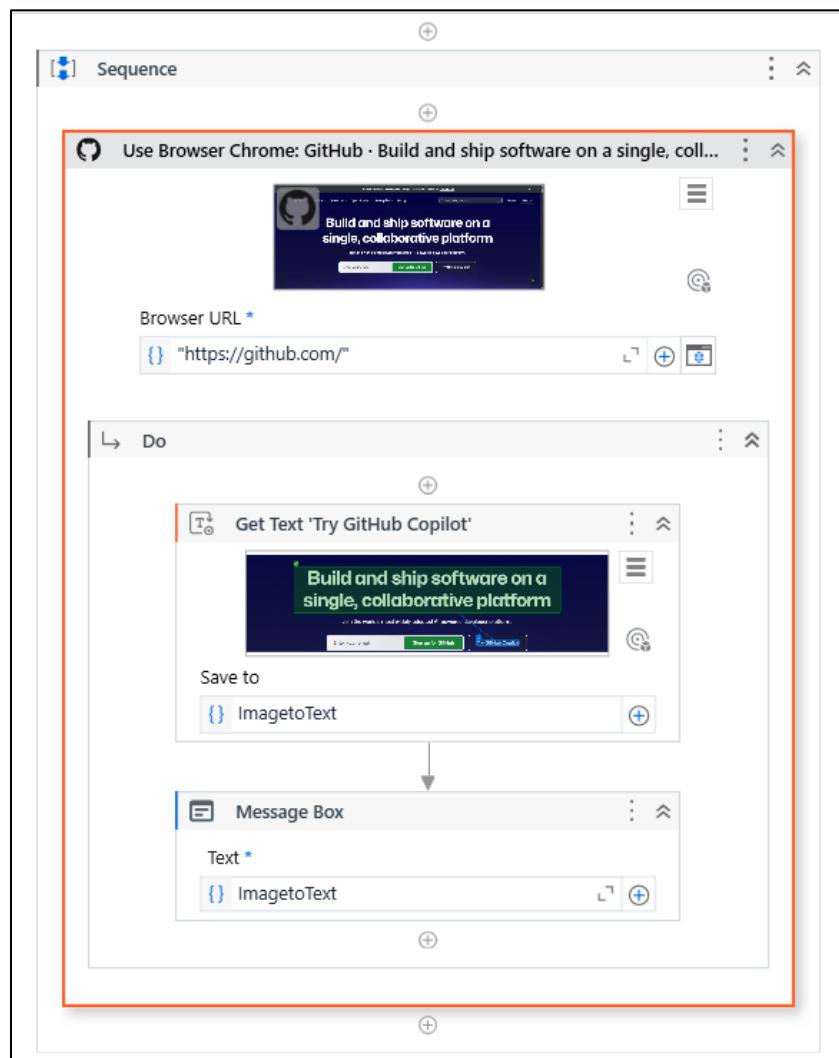
Inside Sequence drag and drop Use Application/Browser Activity → Indicate the website to capture the data and automatically the website path will get filled with the path

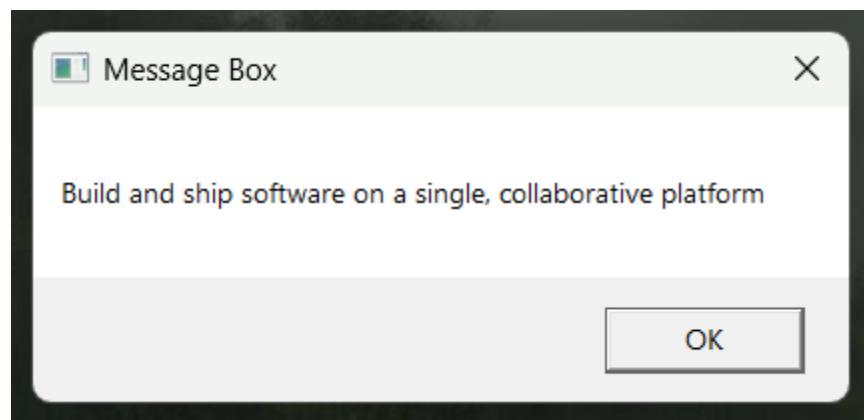
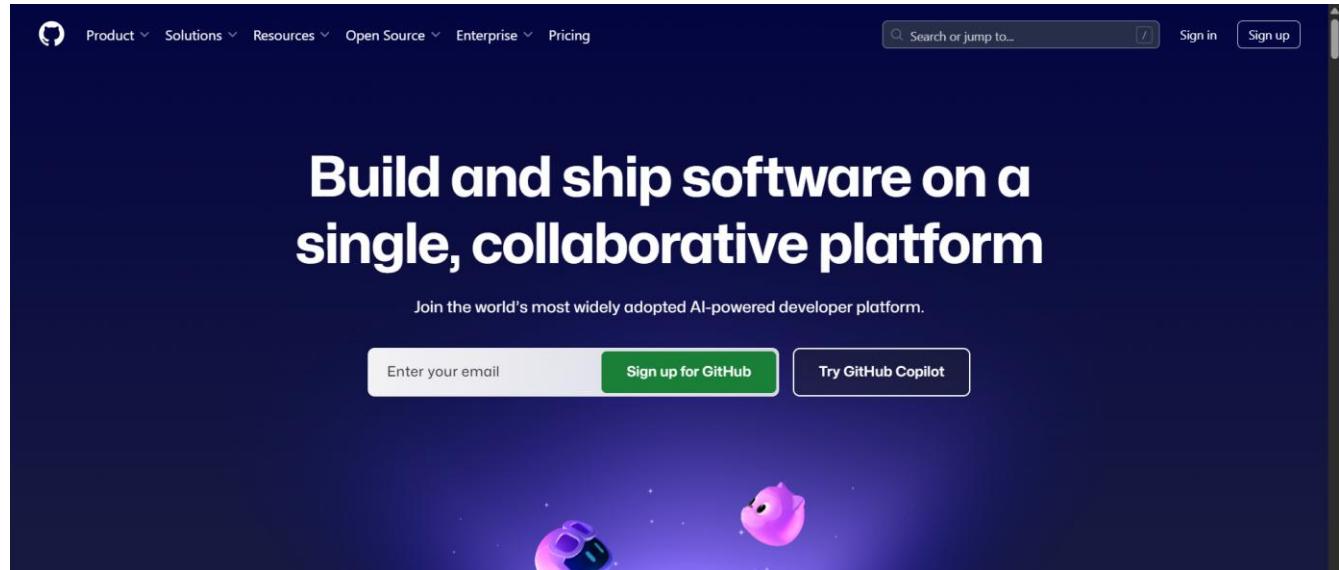
The screenshot shows the configuration for the 'Use Browser Chrome' activity. It features a preview window displaying the GitHub homepage. Below it, the 'Browser URL' field contains the value 'https://github.com/'. To the right of the URL field is a 'More Options' button. A context menu is open over the preview window, with the 'Indicate target on screen (I)' option highlighted. Other visible options include 'Highlight Target (H)', 'Show Informative Screenshot (double click)', 'Remove informative screenshot', and 'OCR Engine'.

Inside Do condition drag and drop Get Text Activity → Indicate the image to capture the text to get the output → Create a variable in properties text section as shown → After Get Text Activity drag and drop Message Box and mention the variable created in Get Text



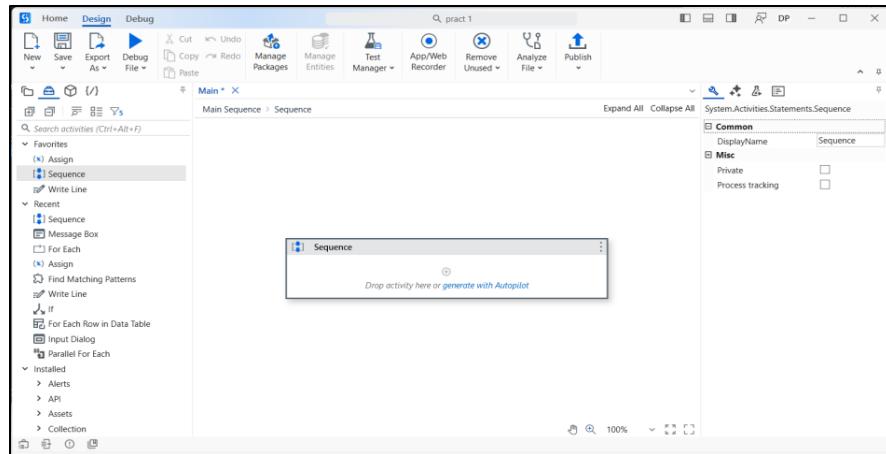
Complete Sequence:



Output:

ii. For PDF

Search for sequence → drag and drop



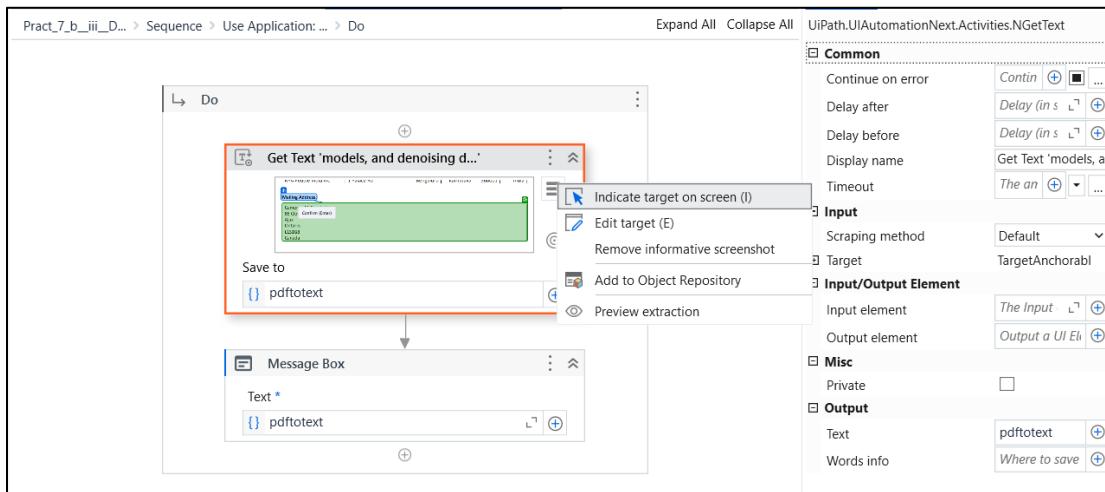
Create a Variable

Name	Data Type	Scope	Default Value
Create variable			
(x) pdftotext	String	Use Application: AI Project Report...	{}

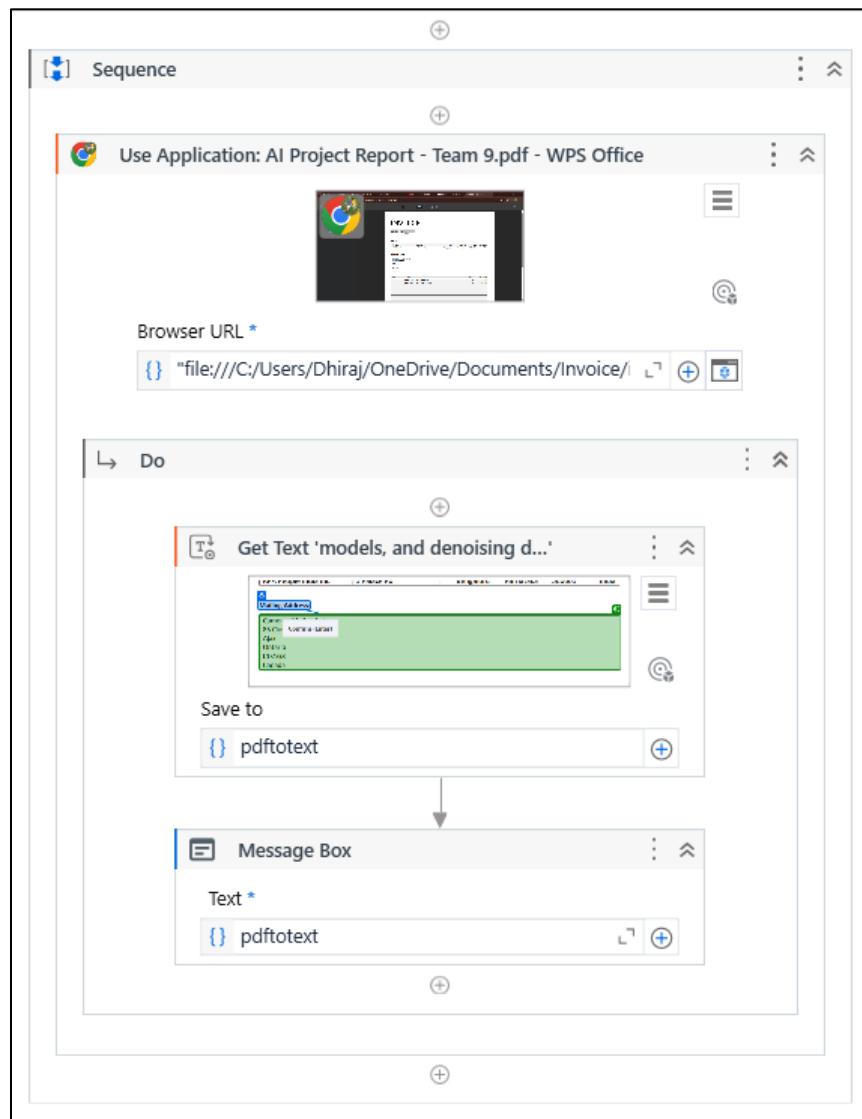
Inside Sequence drag and drop Use Application/Browser Activity → Indicate the pdf to capture the data and automatically the pdf path will get filled with the path

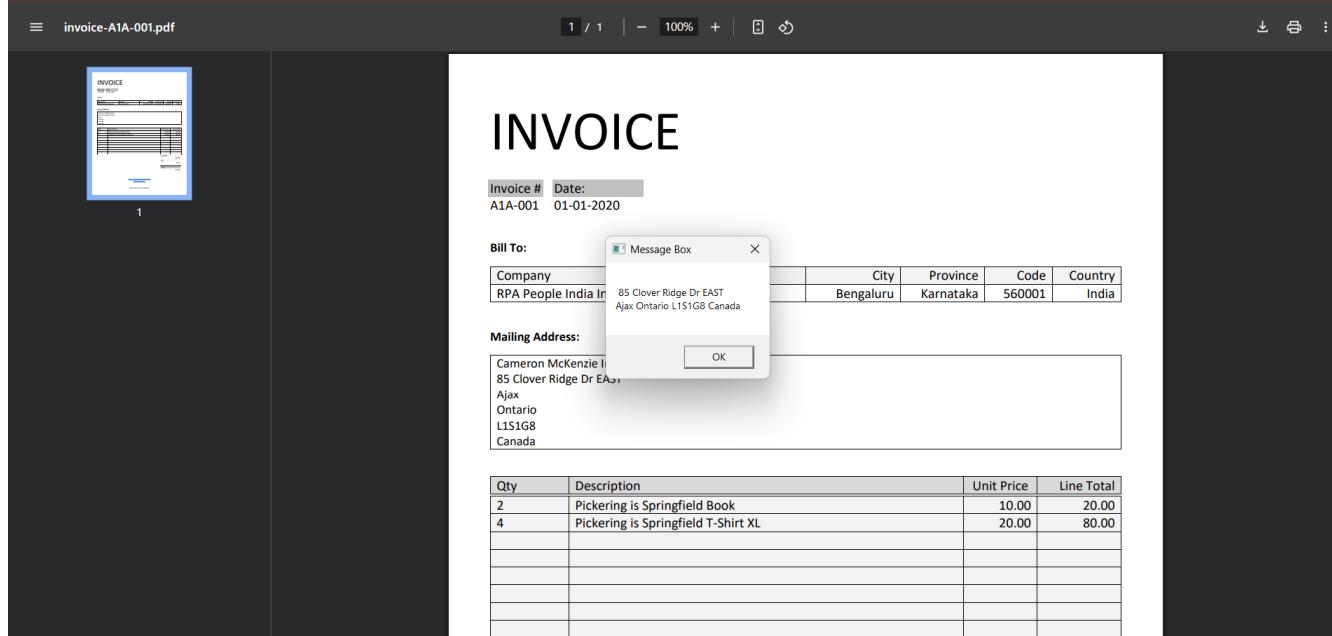
The screenshot shows the configuration of a 'Use Application' activity. On the left, there's a preview window showing a Google Chrome browser with a PDF document open. Below it, the 'Browser URL' field contains the path 'file:///C:/Users/Dhiraj/OneDrive/Documents/Invoice/'. To the right, a context menu is open with the option 'Indicate target on screen (I)' selected. A tooltip explains: 'Identify the application you'd like to automate. If the application is not running, navigate to the correct web page before you indicate the target.' Other options in the menu include 'Remove informative screenshot' and 'OCR Engine'.

Inside Do condition drag and drop Get Text Activity → Indicate the image to capture the text to get the output → Create a variable in properties text section as shown → After Get Text Activity drag and drop Message Box and mention the variable created in Get Text



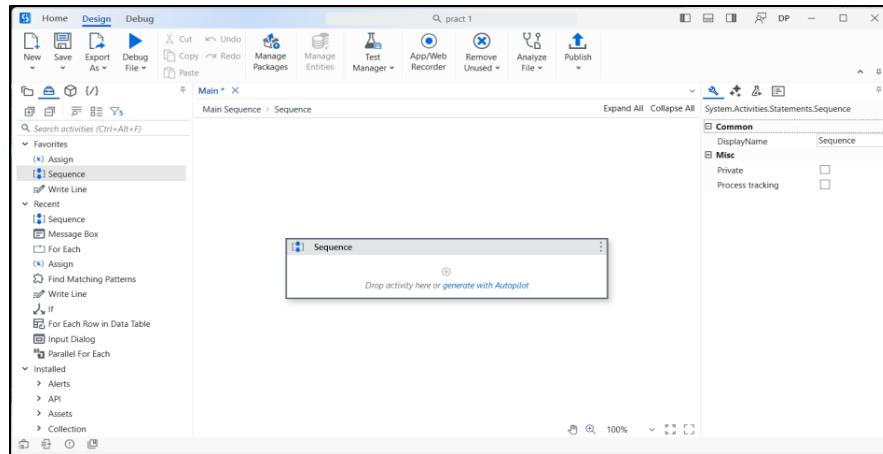
Complete Sequence:



Output:

iii. For Image File

Search for sequence → drag and drop



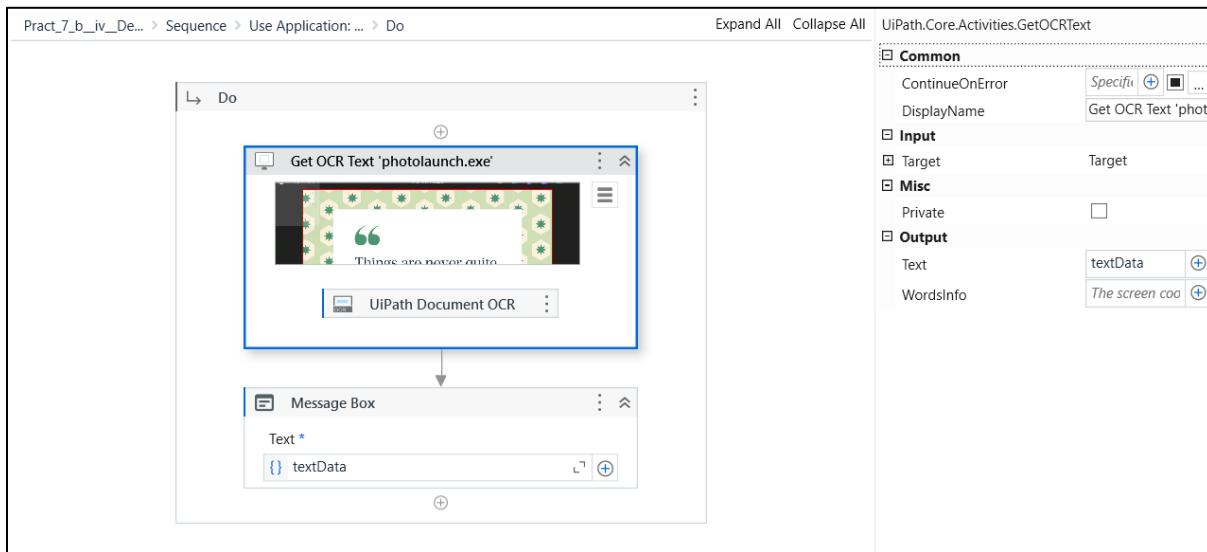
Create a Variable

Name	Data Type	Scope	Default Value
textData	String	Use Application: photolaunch.exe	{}

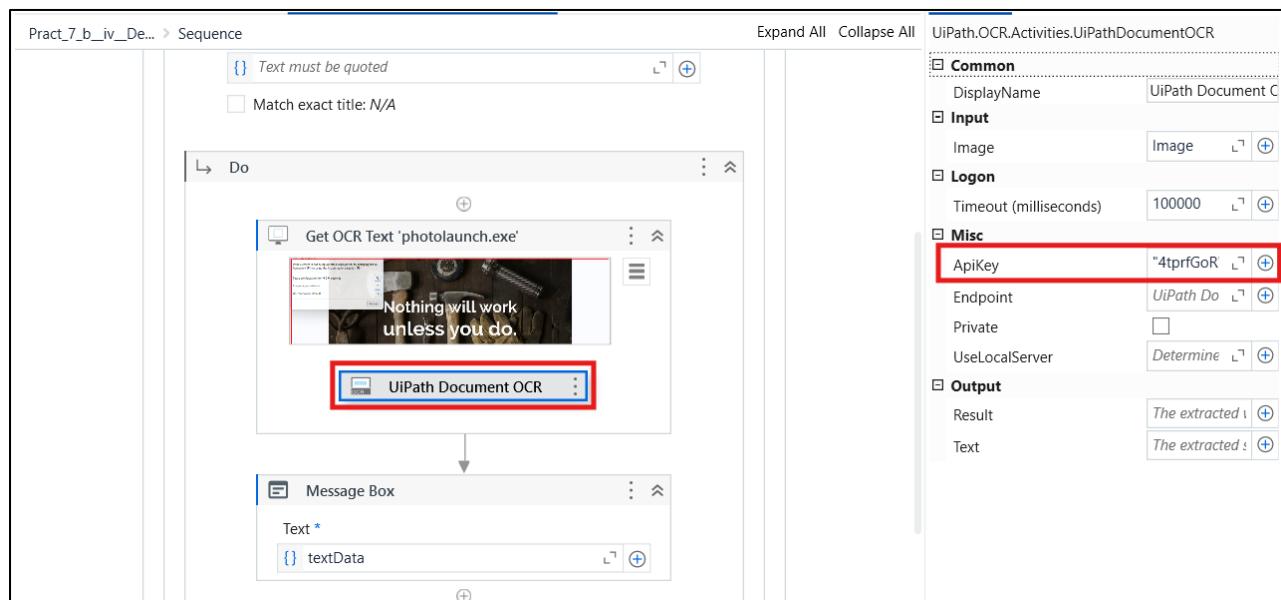
Inside Sequence drag and drop Use Application/Browser Activity → Indicate the pdf to capture the data and automatically the pdf path will get filled with the path

The screenshot shows the configuration dialog for the 'Use Application' activity. The 'Application path' field contains the value "Microsoft.Windows.Photos_8wekyb3d8bbwe!App". A context menu is open over this field, with the 'Highlight Target (H)' option selected. Other visible options include 'Indicate target on screen (I)', 'Show Informative Screenshot (double click)', 'Remove informative screenshot', 'OCR Engine', and 'Add Screen to Object Repository'. Below the application path, there are fields for 'Application arguments' containing "Text must be quoted" and a checkbox for 'Match exact title: ImgPract_7ciii.jpg'.

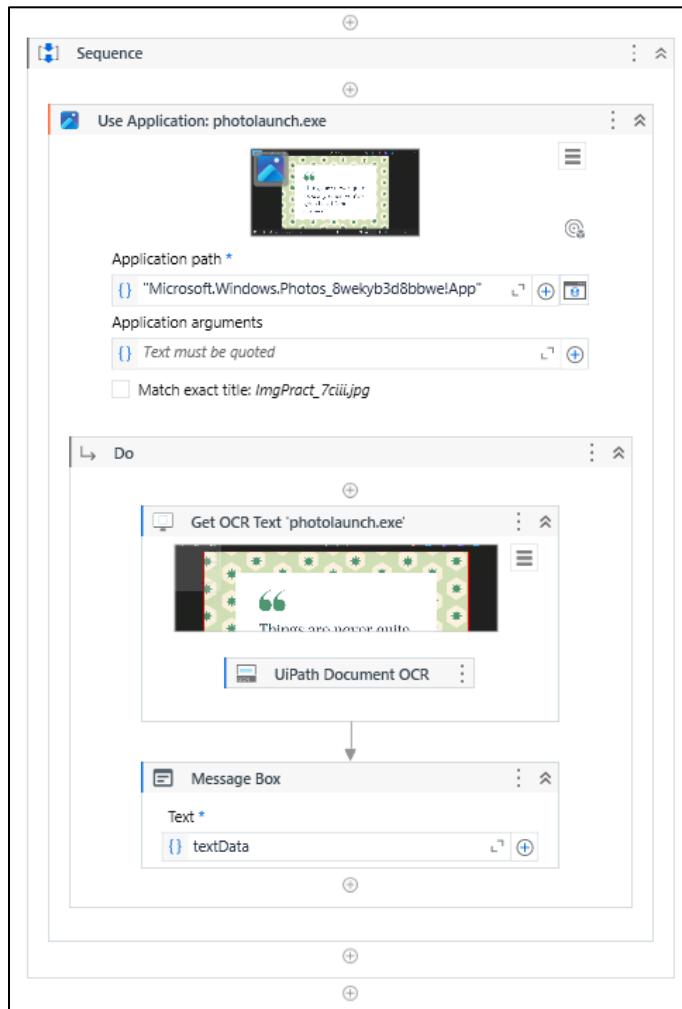
Inside Do condition drag and drop Get OCR Text Activity → Indicate the image to capture the text to get the output → Create a variable in properties text section as shown → After Get OCR Text Activity drag and drop Message Box and mention the variable created in Get OCR Text



In OCR in properties section write the API key as shown



Complete Sequence:



Output:

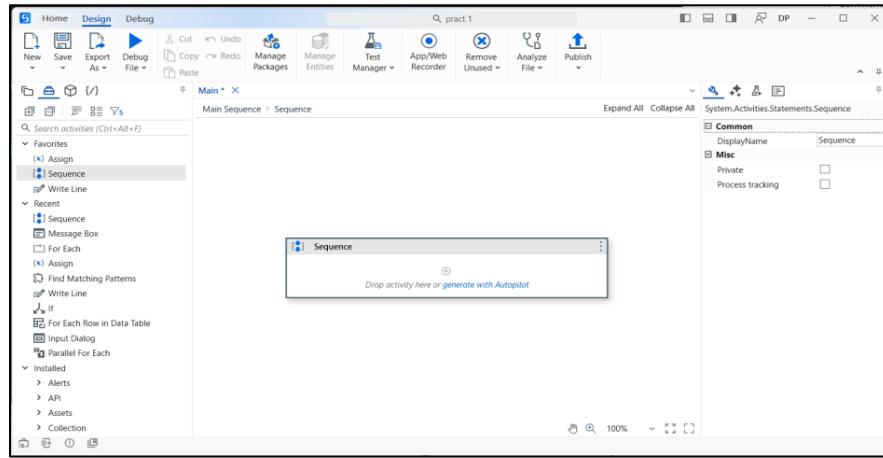


Practical – 8

Aim: PDF Automation and Exception Handling

a. Read PDF With OCR

Search for sequence → drag and drop



Create a Variable

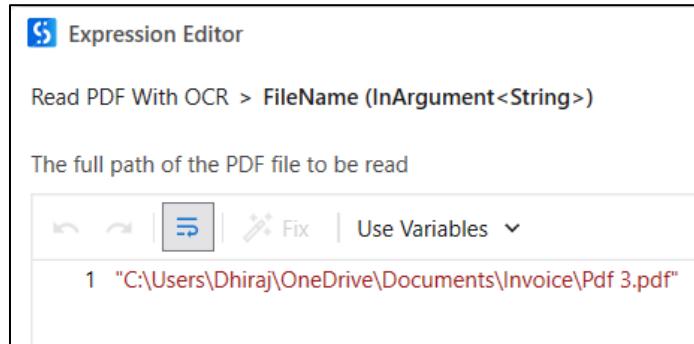
Name	Data Type	Scope	Default Value
(x) PdfOutput	String	Sequence	{}

Inside Sequence drag and drop Read PDF with OCR Activity → Indicate the pdf path which you wanted to get read → Create a variable in properties output section as shown below

The screenshot shows the 'Main Sequence > Sequence > Read PDF With OCR' path. The 'Read PDF With OCR' activity is selected, highlighted with a blue border. To the right, the properties pane displays the configuration for this activity:

- Common**: DisplayName is set to "Read PDF With OCF".
- File**: FileName is set to "C:\Users\{User}\OneDrive\Documents\" and Password is set to "The passw".
- Input**: DegreeOfParallelism is set to 1, ImageDpi is set to 150, and Range is set to "All".
- Misc**: Private is unchecked.
- Output**: Text is set to the variable 'PdfOutput'.

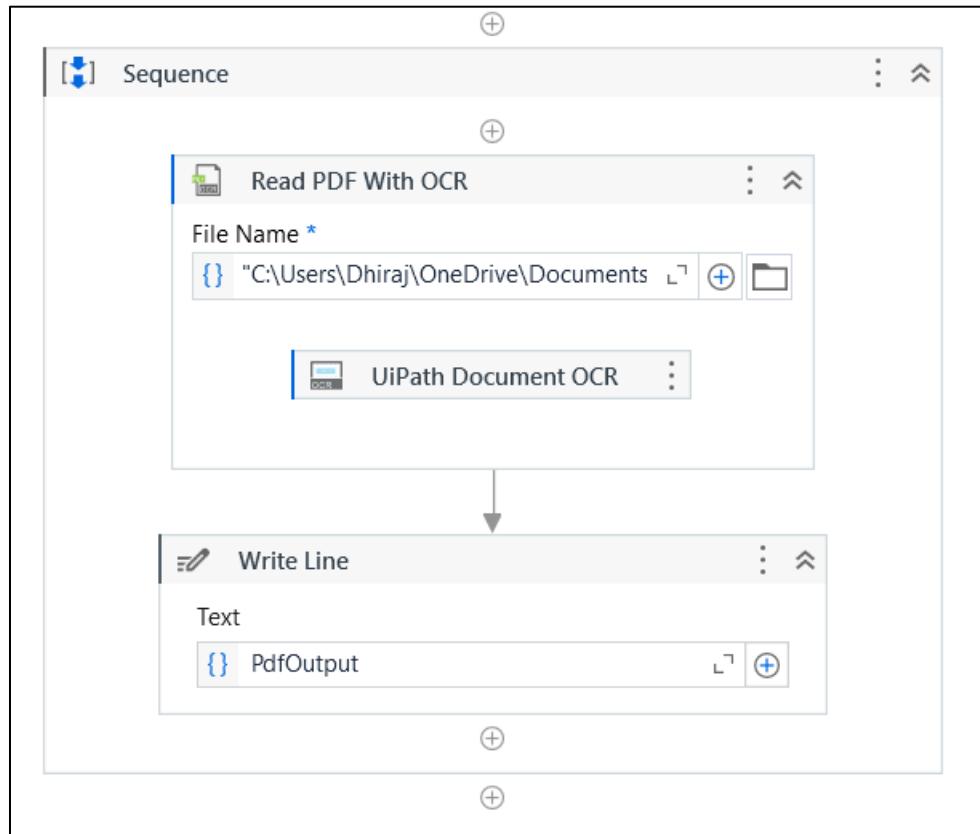
Folder as path as shown



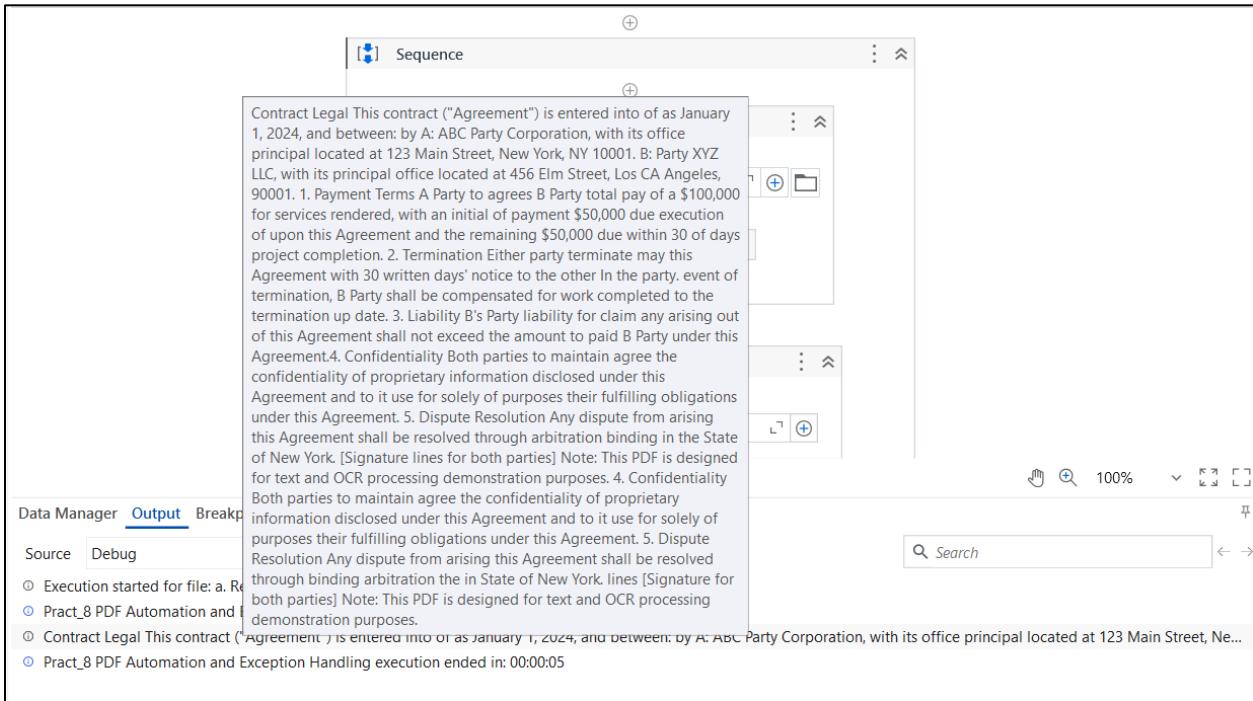
After Read PDF with OCR Activity drag and drop Write Line Activity → Mention the created variable



Complete Sequence:

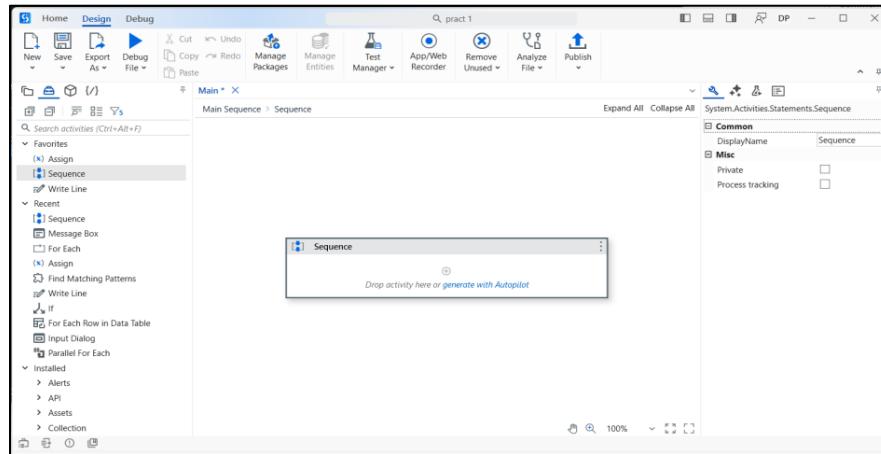


Output:



b. Merge PDF's into one

Search for sequence → drag and drop



Create a Variable

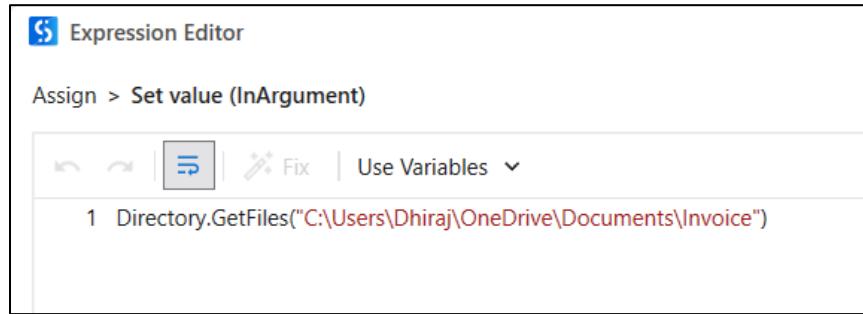
The screenshot shows the Data Manager window. The tabs at the top are "Data Manager", "Output", "Breakpoints & Bookmarks", and "Error List". The "Variables" tab is selected. Below it, there are tabs for "Arguments", "Namespaces", and "Connections". A search bar and filter icons are also present. The main table lists variables:

Name	Data Type	Scope	Default Value
(x) InputPDF	String[]	Sequence	{}

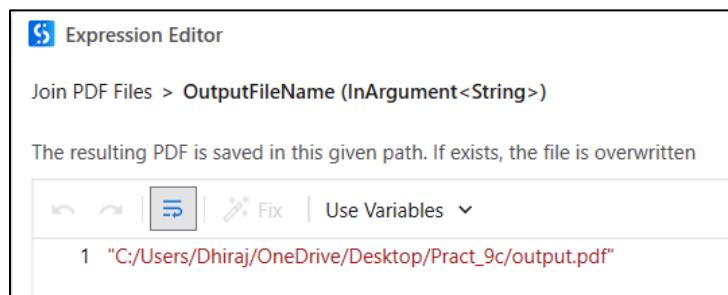
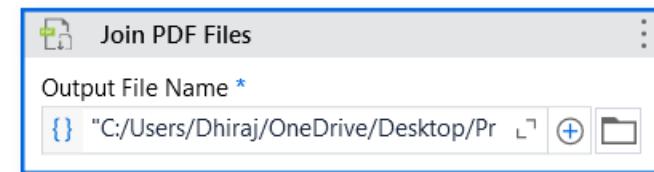
In Sequence drag and drop Assign Activity → Create a variable as shown in properties section → In set value mention the path in which folders are save to get merge

The screenshot shows the properties of an "Assign" activity. The title bar says "b_Merge_PDF_s_in... > Sequence > Assign". The properties panel on the right is for the "System.Activities.Statements.Assign" class. It shows the "Common" section with "DisplayName" set to "Assign". Under the "Misc" section, "Set value" is set to "Directory.GetFiles("C:\\")" and "To variable" is set to "InputPDF". The main workspace shows the "Assign" activity with its configuration: "Save to" is "InputPDF" and "Value to save" is "Directory.GetFiles("C:\\")".

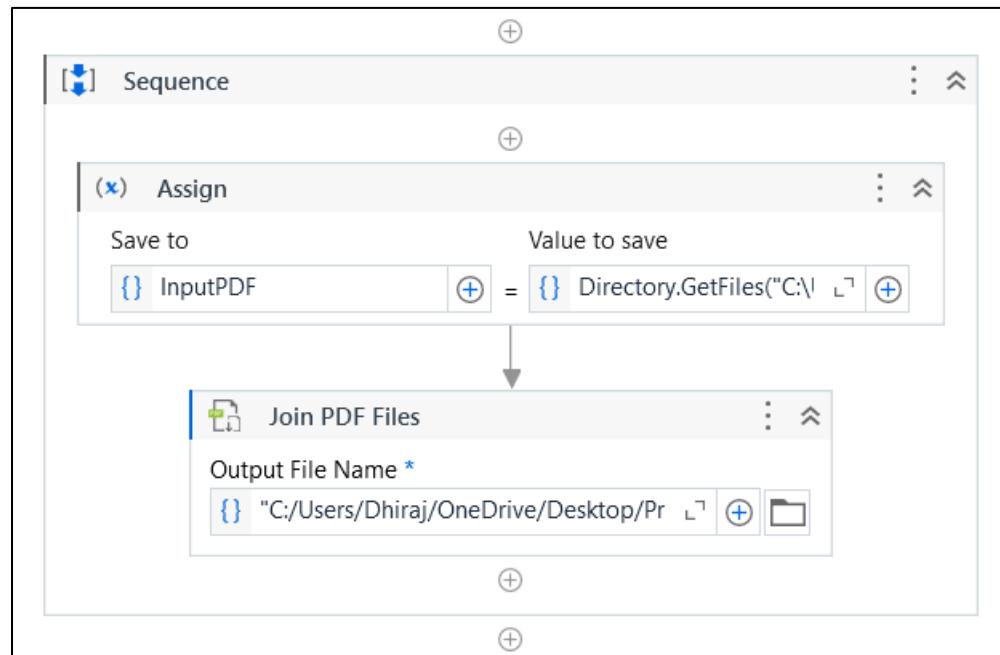
Write the path as shown below



After Assign Activity drag and drop Join PDF Files Activity and mention the path in which the merge folders to be saved

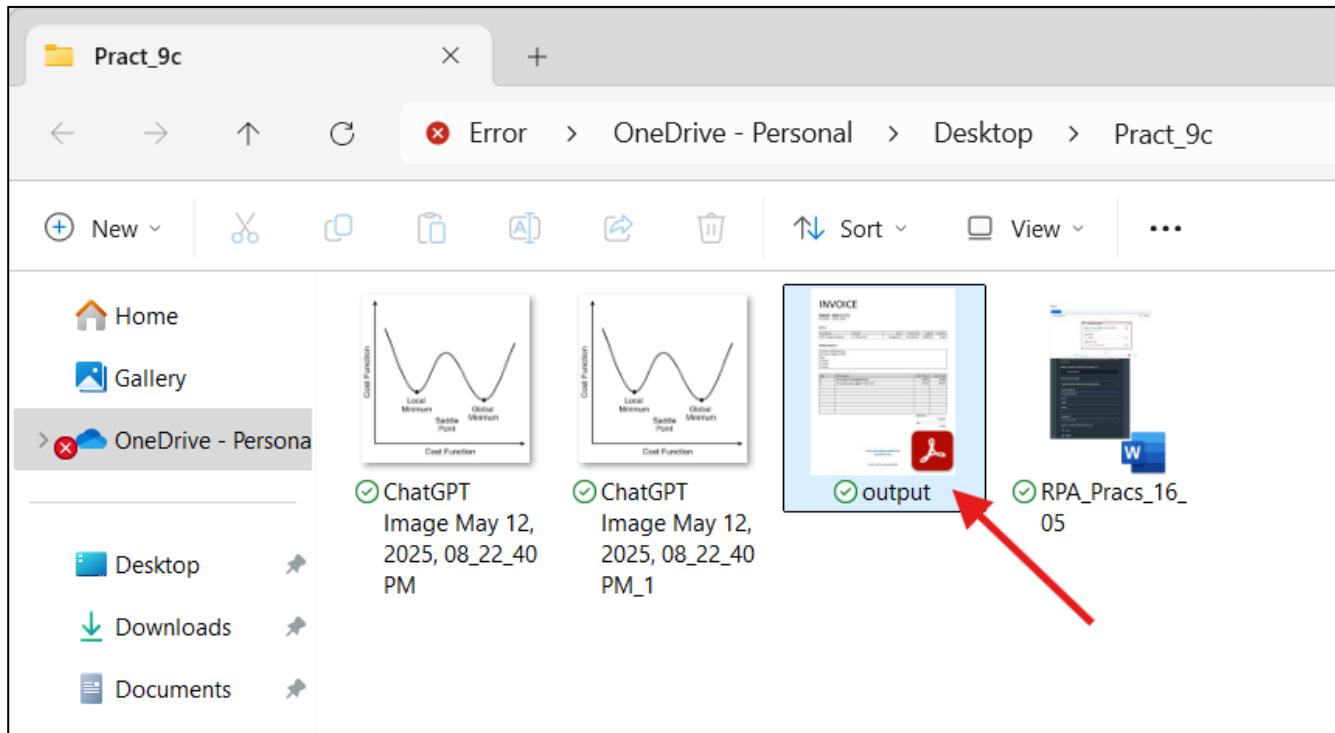


Complete Sequence:



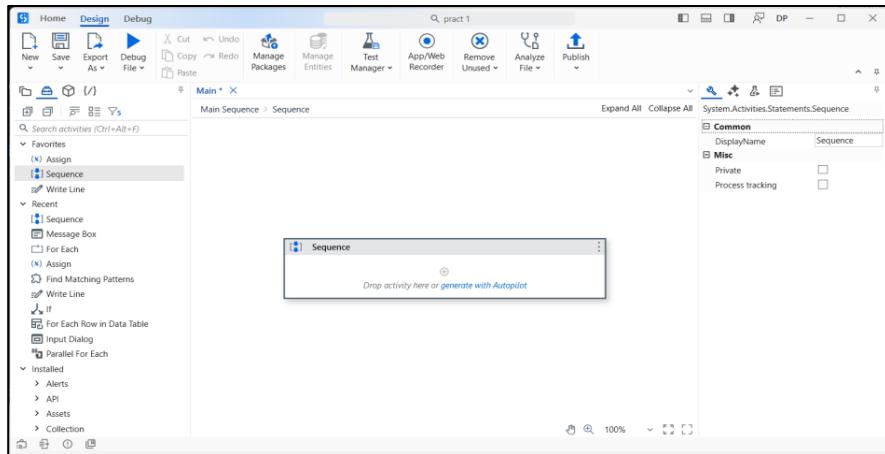
Output:

The arrow indicates the output



c. Get PDF Total Page count Using Regex

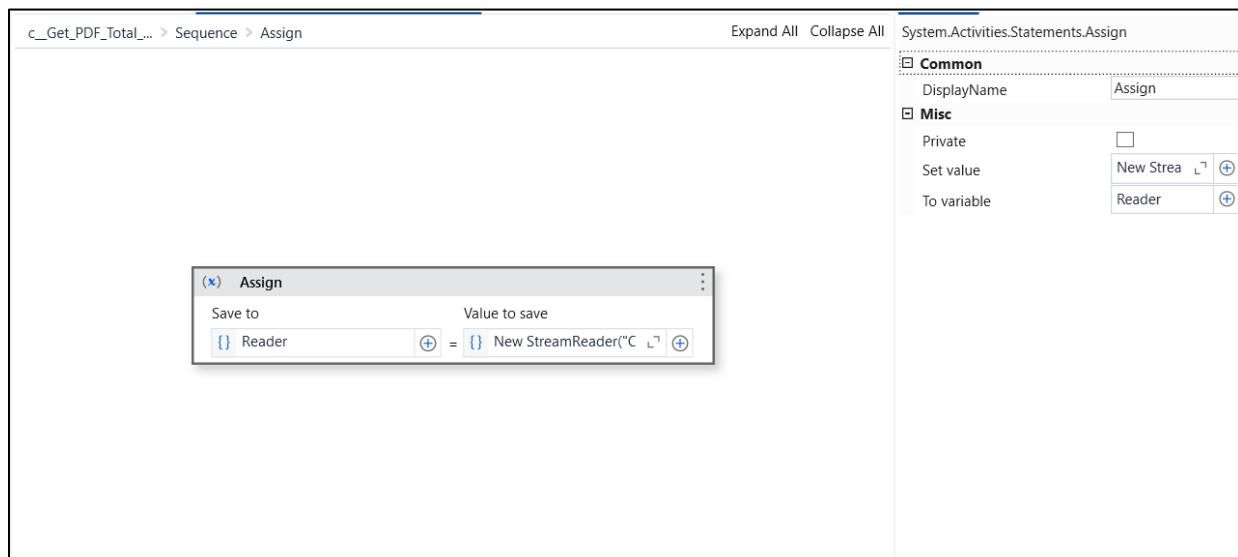
Search for sequence → drag and drop



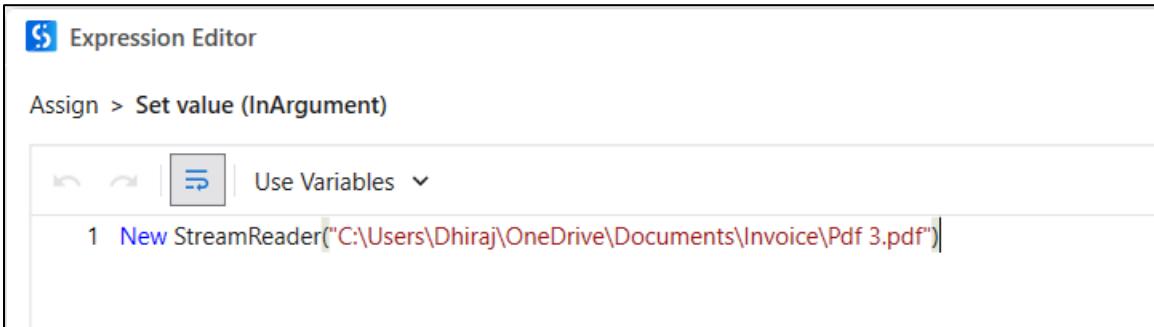
Create Variables

Name	Q Data Type	Scope	Default Value
<i>Create variable</i>			
(x) result	IEnumerable<Match>	Sequence	{}
(x) Pdftxt	String	Sequence	{}
(x) Reader	StreamReader	Sequence	{}

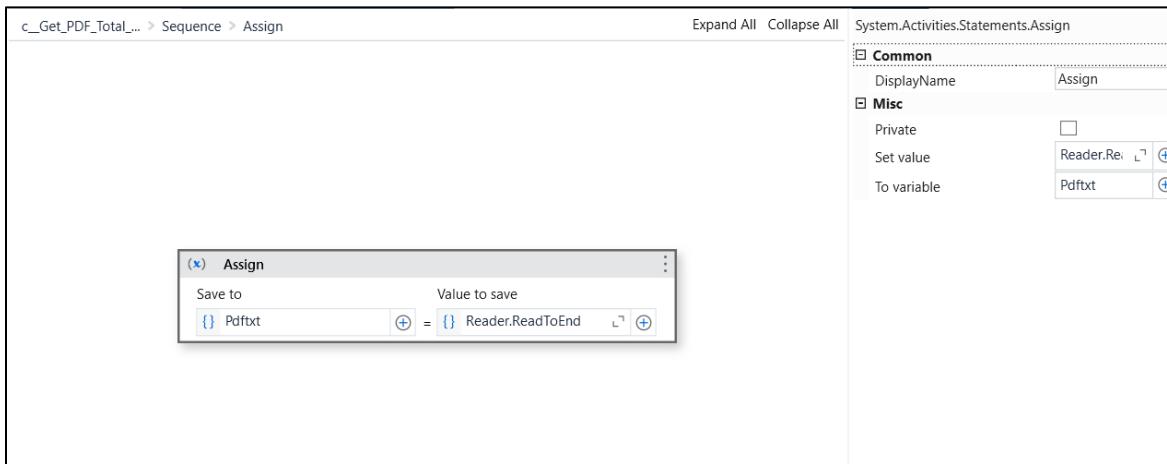
Drag and drop Assign Activity inside Sequence → Create a Variable in properties variable section as shown



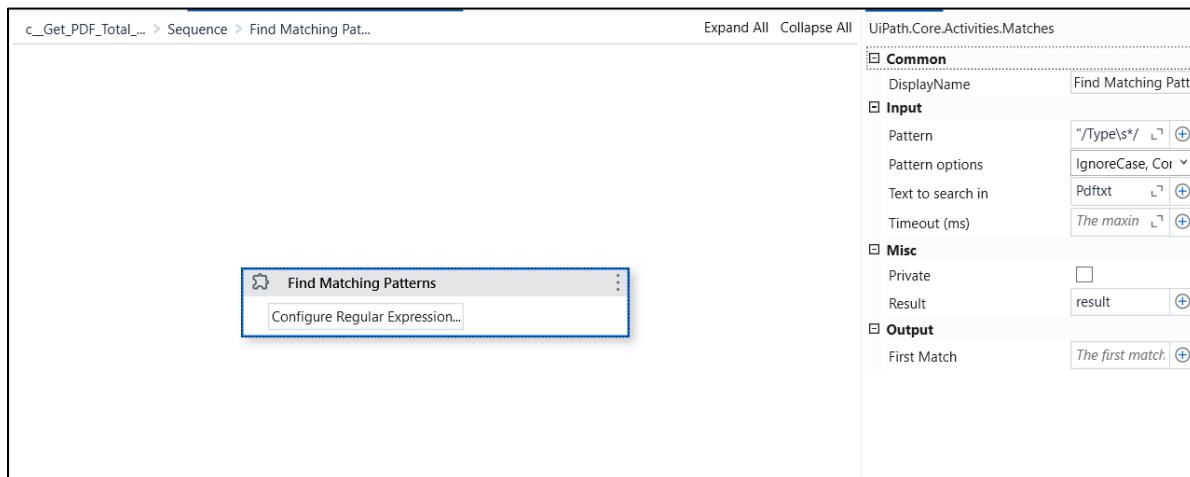
Inside Value set indicate the pdf path to count with New StreamReader as shown

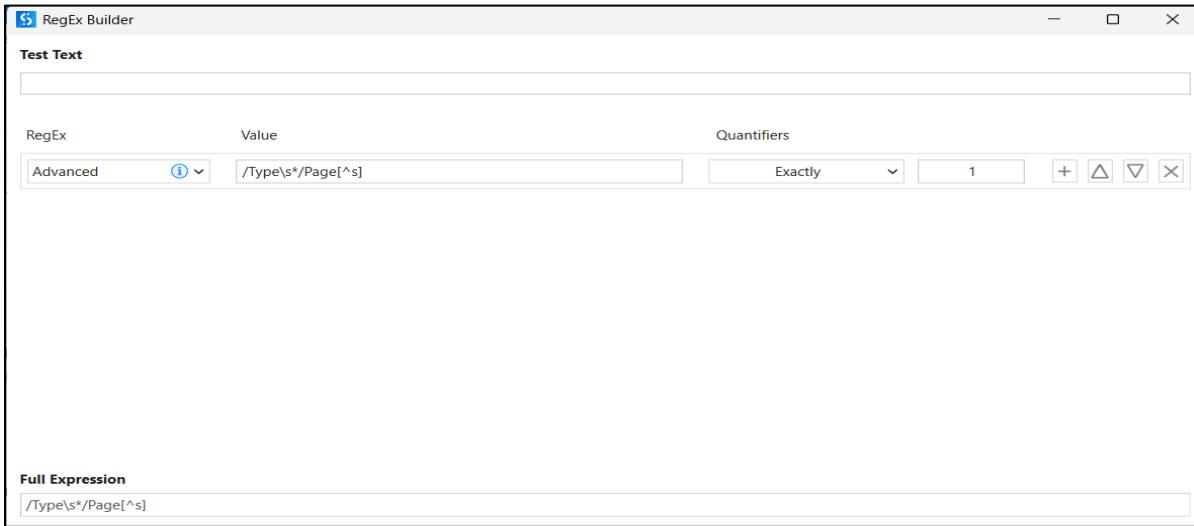


Again create an Assign Activity one after another → Create a Variable in properties variable section as shown → And write the expression in value to save section as shown

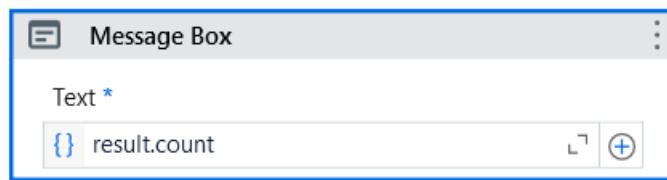


After Assign Activity drag and drop Find Matching Patterns Activity → Create a Variable in properties result section as shown → Also write the expression for matching pattern in properties section

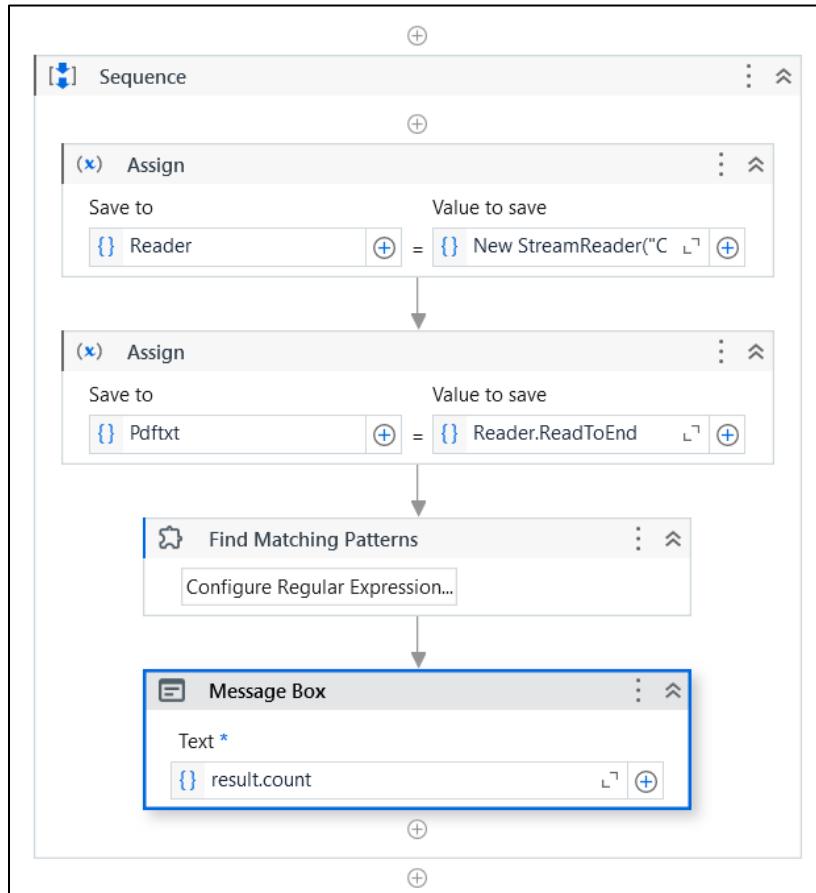


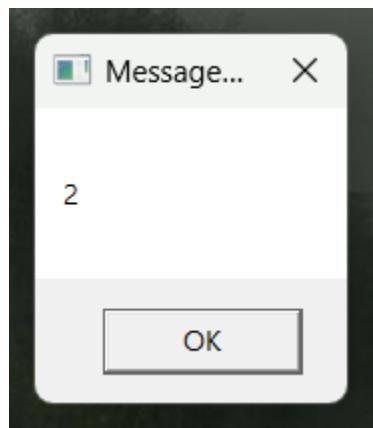


After Find Matching Patterns Activity drag and drop Message Box → write the expression as shown



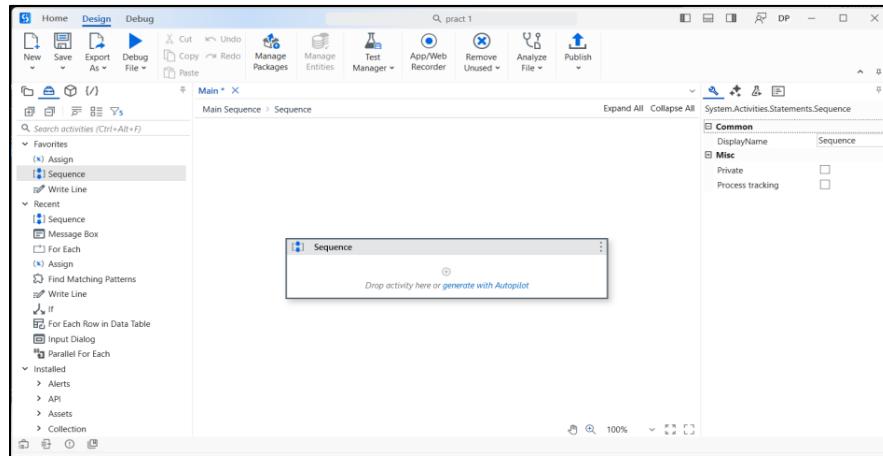
Complete Sequence:



Output:

- d. Extract data from a PDF or Excel file and populate it into a database or spreadsheet.

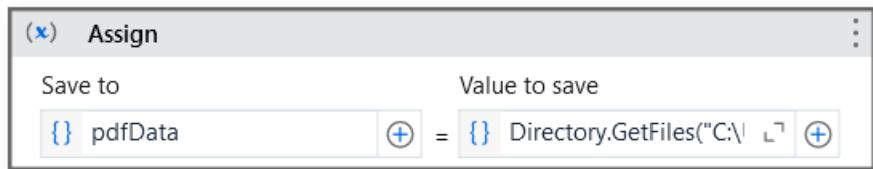
Search for sequence → drag and drop



Create Variables

Data Manager				
(x) Variables	(a) Arguments	Namespaces	Connections	
Name	Q Data Type	Scope	↔ Default Value	
<i>Create variable</i>				
(x) ExtractDataTable	DataTable	d. Extract data from a PDF or Excel... { } New System.Data.DataTable		
(x) pdfData	String[]	Sequence	{ }	

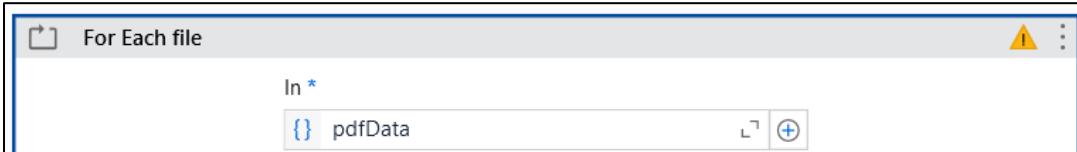
In sequence drag and drop Assign Activity → Create a variable → Mark the file location in value to save section as shown



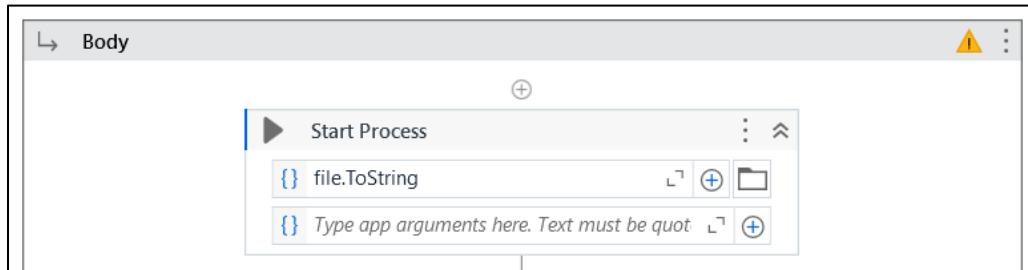
Expression



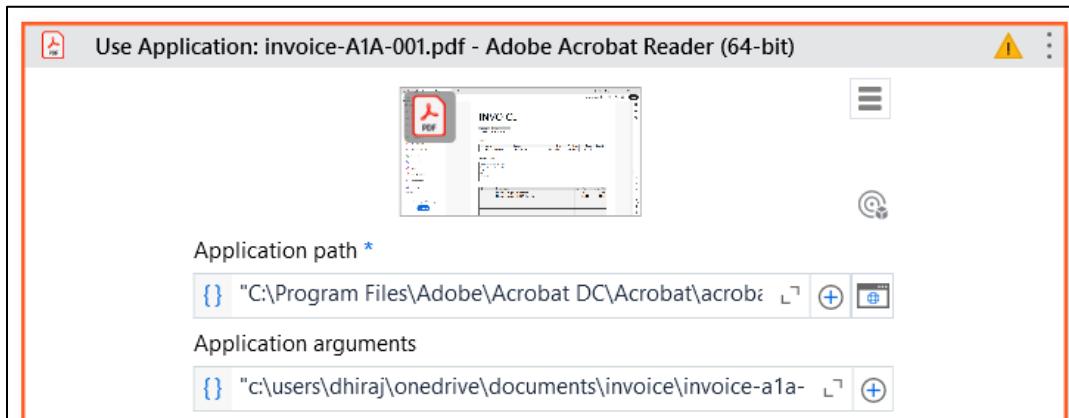
After Assign drag and drop For Each Activity and mention the created variable as shown



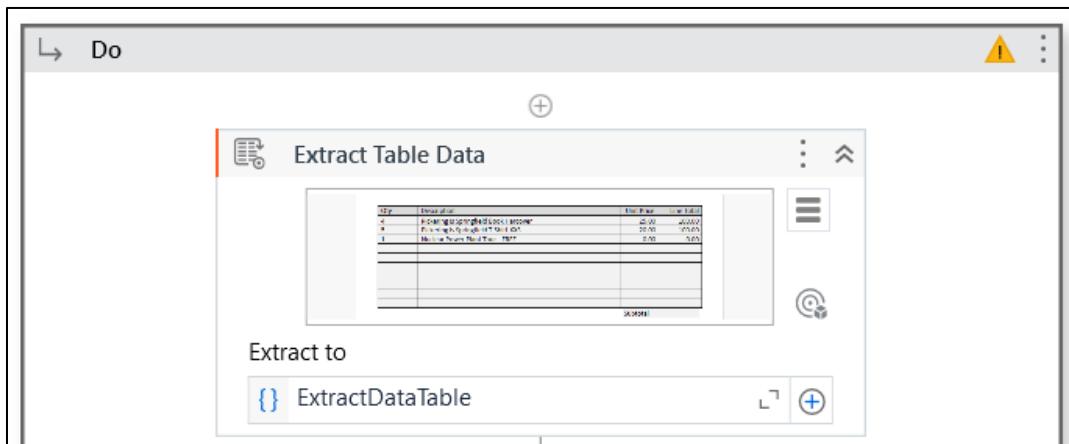
Inside Body add Start Process Activity and write the equation as shown



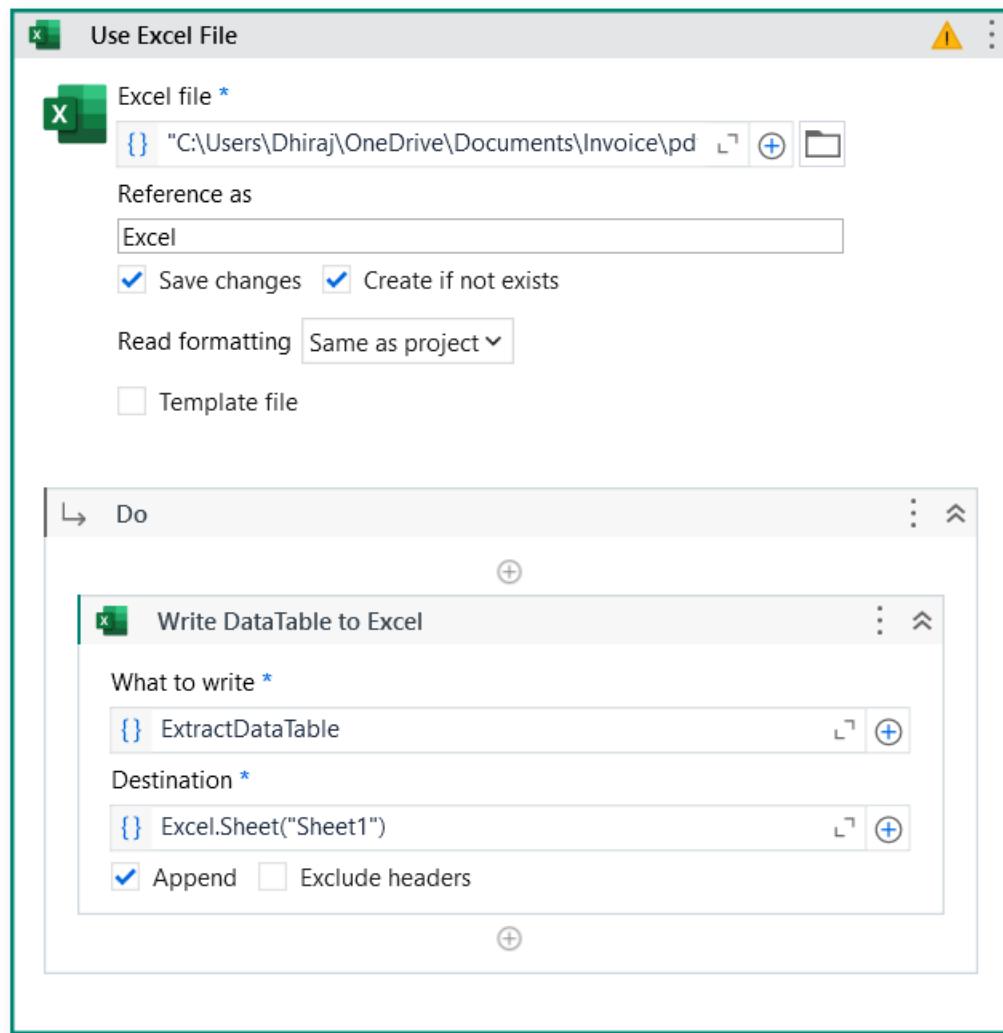
After Start Process drag and drop Use Application Activity → Indicate and select the folder you wanted to read and automatically the path will get generated as shown



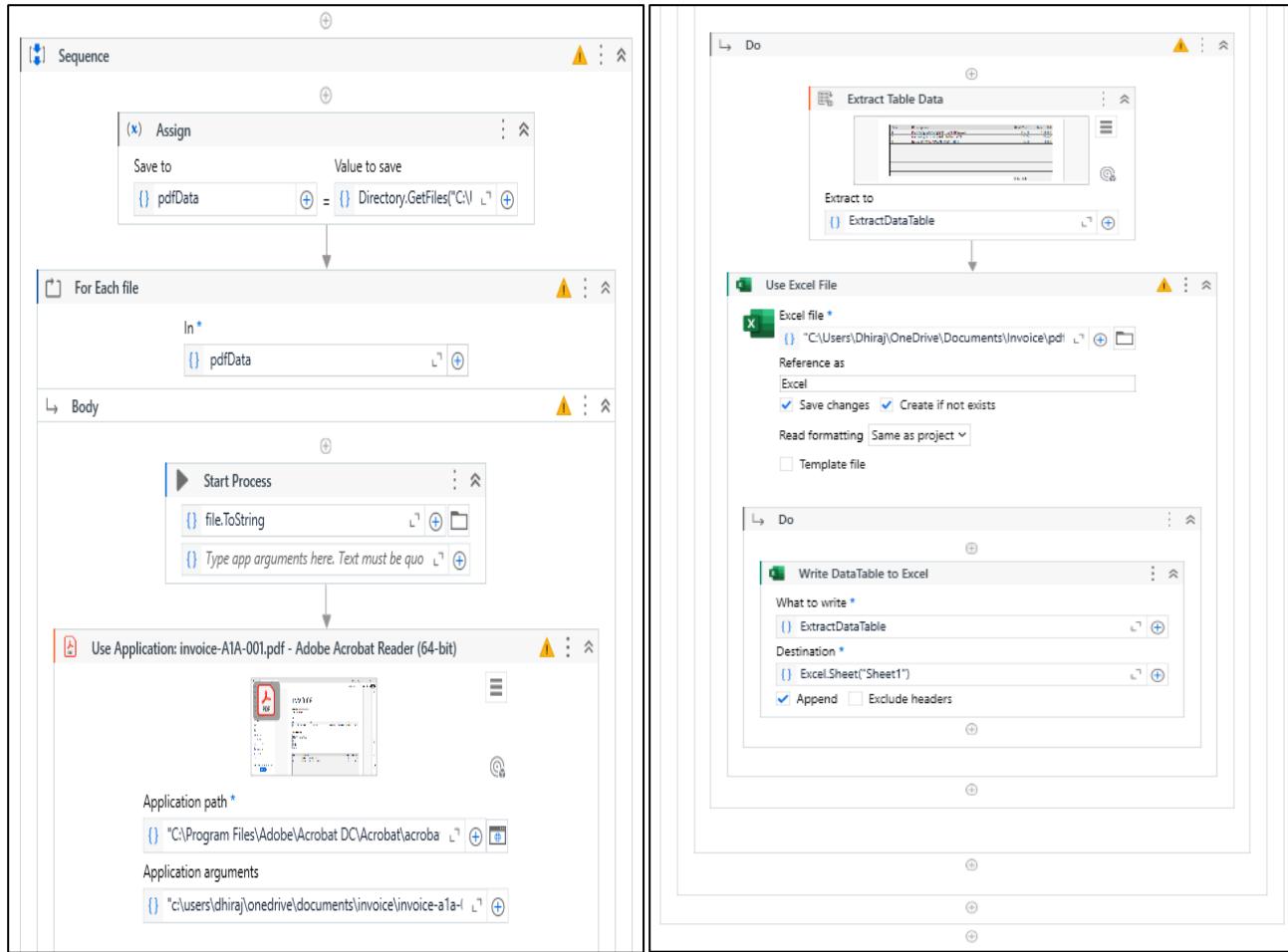
In Do condition add Extract Table Data Activity → Indicate the Table in the PDF → Create a variable as shown



After Extract Table Data Activity drag and drop Use Excel File Activity → Mention the Pdf Path → In Do condition drag and drop Write DataTable to Excel Activity → Mention the Variable created as shown → And also mention the destination where you wanted to get the data written as shown



Complete Sequence:



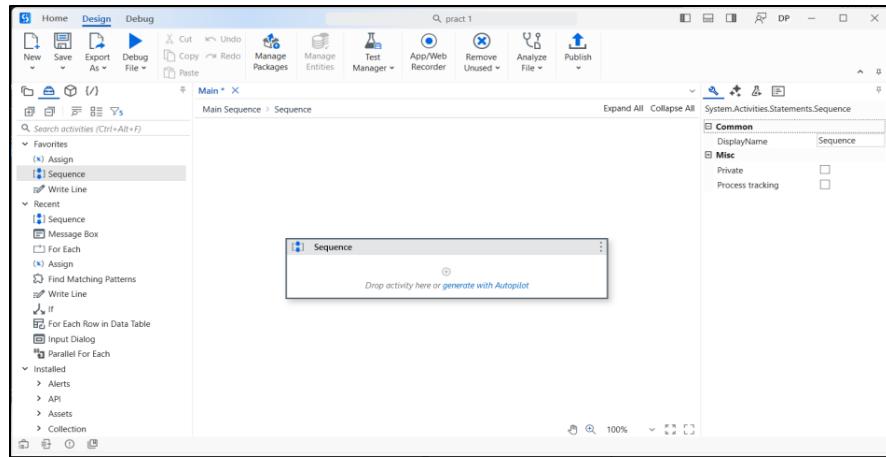
Output:

The Excel spreadsheet contains two tables of data:

	A	B	C	D	E
1	Qty	Description	Unit Price	Line Total	
2		Pickering is Springfield Book	10.00	20.00	
4		Pickering is Springfield T-Shirt XL	20.00	80.00	
4	Qty	Description	Unit Price	Line Total	
6		Pickering is Springfield Book	10.00	60.00	
2		Pickering is Springfield T-Shirt XL	20.00	40.00	
6		Guided			

f. Demonstrate Exception Handling using UiPath

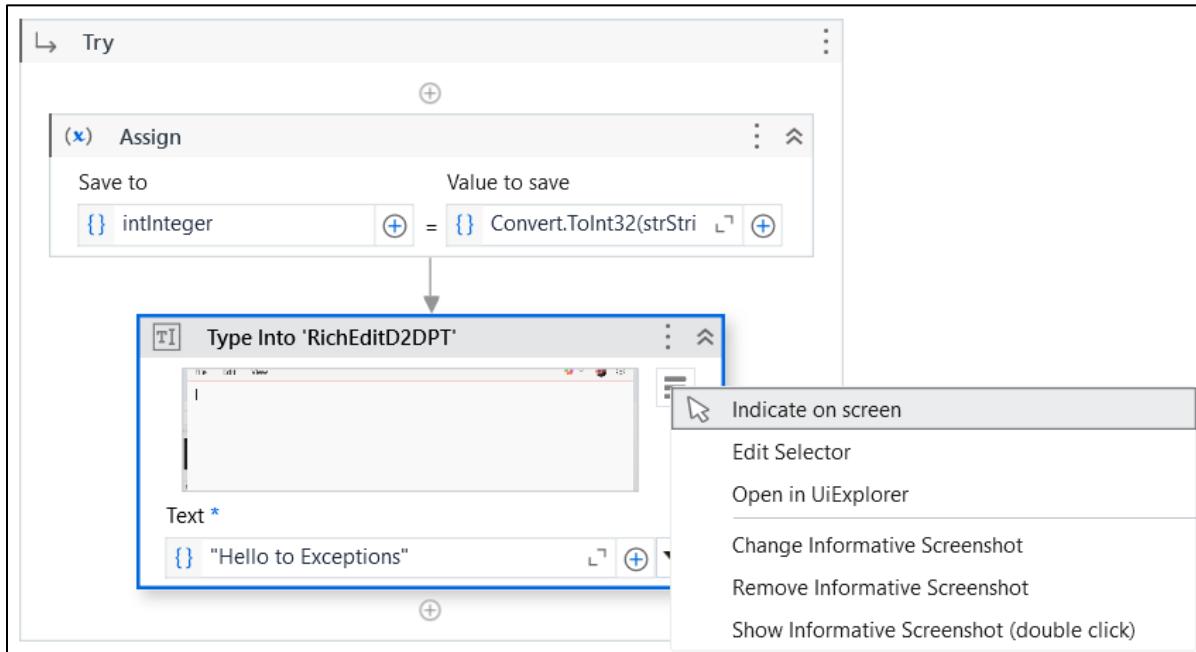
Search for sequence → drag and drop



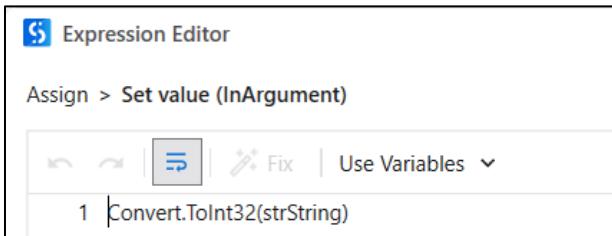
Create Variables

Data Manager Output Breakpoints & Bookmarks Error List				
(x) Variables	(a) Arguments	Namespaces	Connections	
Name	Q Data Type	Scope	Default Value	↔
<i>Create variable</i>				
(x) strString	String	e. Implement data manipulation te...	{ } "Uipath"	{ }
(x) intInteger	Int32	Try	{ }	{ }

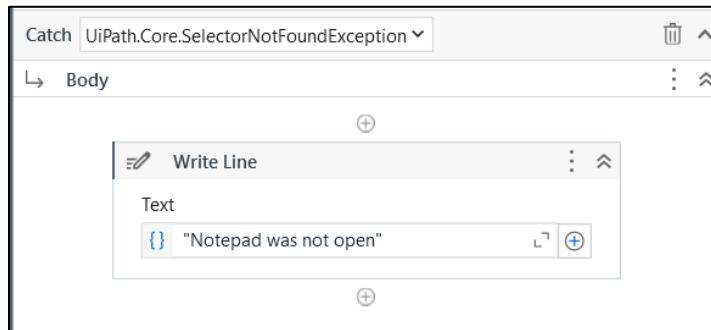
In sequence drag and drop Try Catch Activity → Inside Try condition add Assign Activity create a variable and write the expression as shown → After Assign Activity drag and drop Type Into Activity to select file and indicate as shown



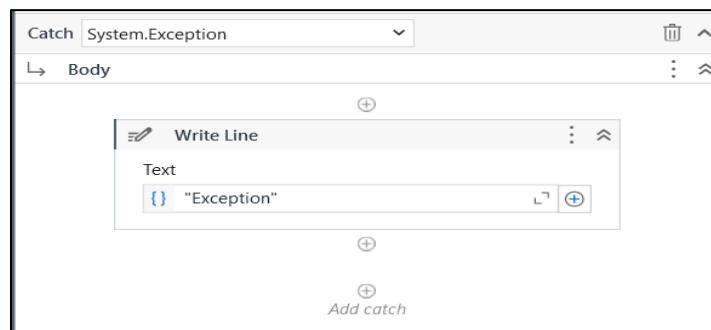
Expression



In Catch select the operator → Inside body drag and drop Write Line and write the details as shown



In Catch select the operator → Inside body drag and drop Write Line and write the details as shown



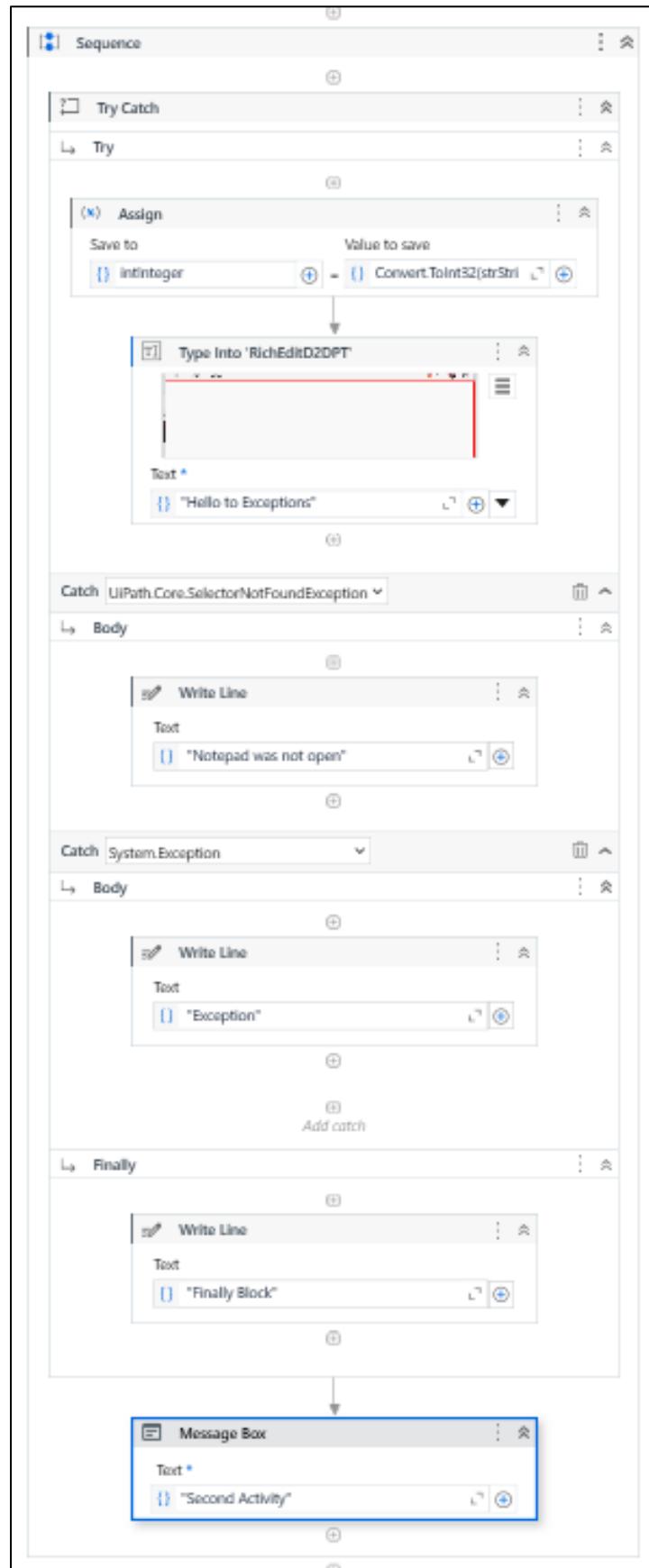
In Finally condition drag and drop Write Line and write the details as shown

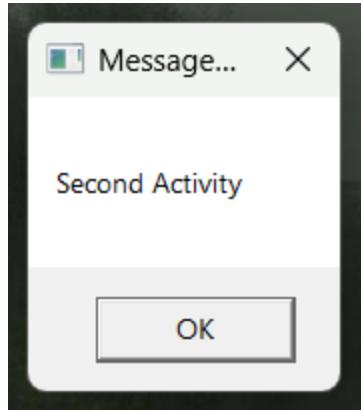
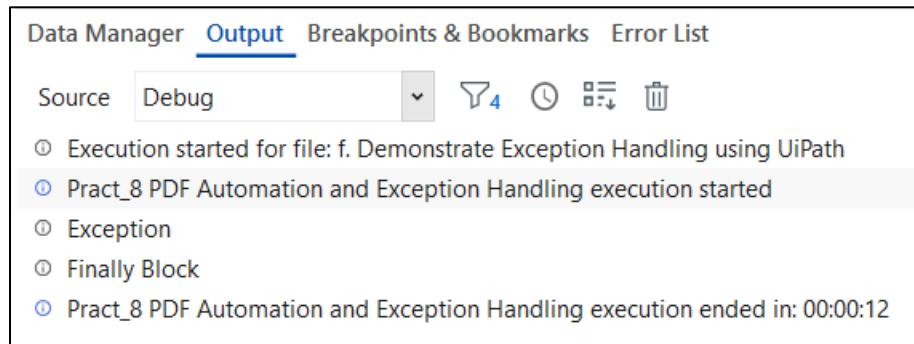


After Try Catch Activity drag and drop Message Box → Write the message to be displayed after exception



Complete Sequence:



Output:

Practical – 9

Aim: Email Automation

a. Configure Email using UiPath

Install **UiPath.Mail.Activities** Package in UiPath Studio

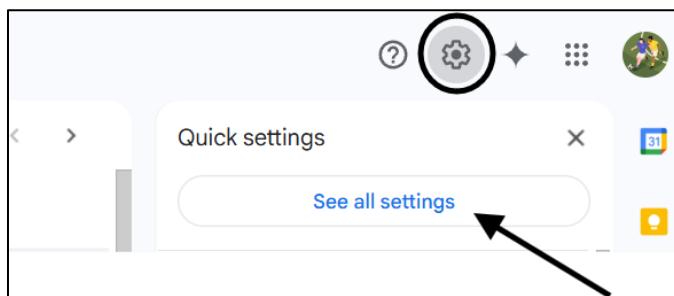
Enabling Gmail for Email Activities

To configure your gmail account for IMAP/POP3 protocols in Gmail and be able to use your Gmail account in creating automations, you must follow these steps:

- Enable POP3/IMAP from Gmail.
- Generate and use a Google app password (optional).

Enabling POP3/IMAP from Gmail

Go to <https://mail.google.com> and log in with the email you want to use in your automation. Click Settings > Settings. The Settings page is opened.



Forwarding and POP/IMAP tab, select the Enable POP and Enable IMAP check boxes.

The screenshot shows the Gmail Settings page with the 'Forwarding and POP/IMAP' tab selected. Key configuration options include:

- Forwarding:** Add a forwarding address.
- POP download:**
 - Status:** POP is enabled for all mail since 01/01/1970.
 - Options:** Radio buttons for "Enable POP for all mail" (selected), "Enable POP for mail that arrives from now on", and "Disable POP".
 - When messages are accessed with POP:** A dropdown set to "keep Gmail's copy in the inbox".
 - Configure your email client:** (e.g. Outlook, Eudora, Netscape Mail) with a link to "Configuration instructions".
- IMAP access:**
 - When I mark a message in IMAP as deleted:** Radio buttons for "Auto-Expunge on - Immediately update the server. (default)" (selected) and "Auto-Expunge off - Wait for the client to update the server".
 - When a message is marked as deleted and expunged from the last visible IMAP folder:** Radio buttons for "Archive the message (default)" (selected) and "Delete the message".

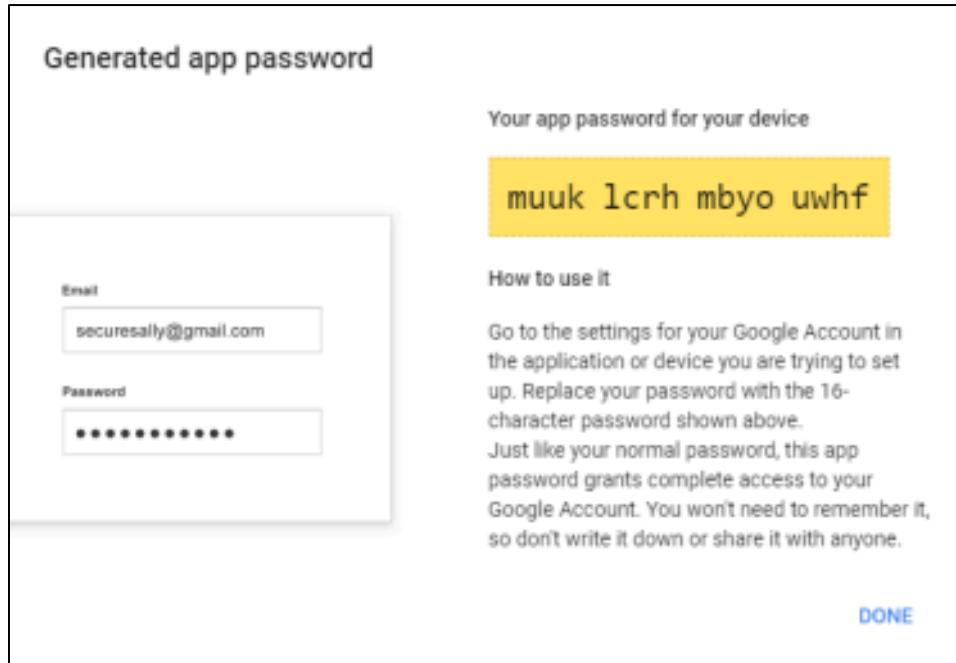
Generate and Use an App Password from Google

NOTE: For generating App Password you should first enable 2-Step Verification for your respective email

→ Go to <https://security.google.com/settings/security/apppasswords>.

→ From the Select app drop-down select Other (Custom Name). A text box (Custom Name) is displayed.

→ Fill in the text box with a custom app name, such as UiPath, and click Generate. A 16-character password is generated that can be used in UiPath Studio instead of the original password.



For Gmail Server

IMAP

Server name => imap.gmail.com

Port => 993

SMTP

Server name => smtp.gmail.com

Port => 465

Configuration of IMAP and SMTP server

IMAP

Properties Autopilot Test Explorer Outline

UiPath.Mail.IMAP.Activities.GetIMAPMailMessages

Common

TimeoutMS
{} Enter a VB expression

Connection Details

Use Integration Service Off

Server
{} "imap.gmail.com"

Port
{} 993

Use OAuth
 True False

Email
{} "dhirajpawar0507@gmail.com"

Password
{} "jxrj svzb leue yooa"

Secure password
{} Enter a VB expression

Ignore CRL
 True False

Secure connection
Auto

SMTP

Properties Autopilot Test Explorer Outline

UiPath.Mail.SMTP.Activities.SendMail

Common

TimeoutMS
{} Enter a VB expression

Connection Details

Use Integration Service Off

Server
{} "smtp.gmail.com"

Port
{} 465

Use OAuth
 True False

Email
{} "dhirajpawar0507@gmail.com"

Password
{} "jxrj svzb leue yooa"

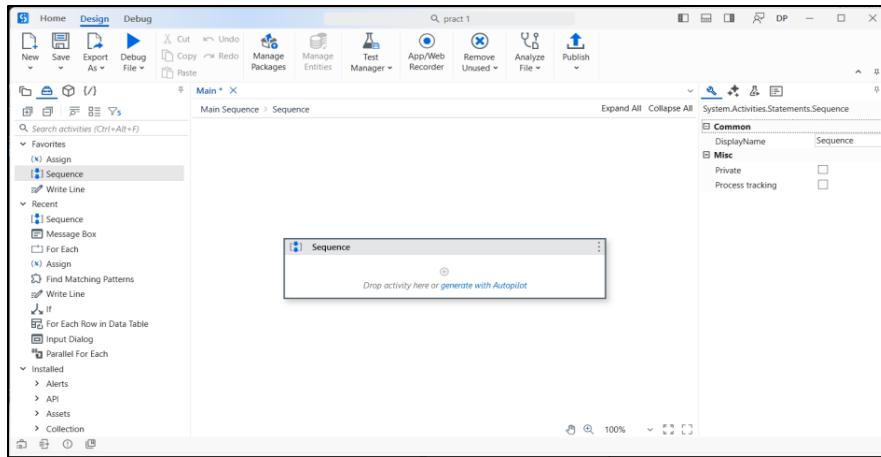
Secure password
{} Enter a VB expression

Ignore CRL
 True False

Secure connection
Auto

b. Read Emails

Search for sequence → drag and drop



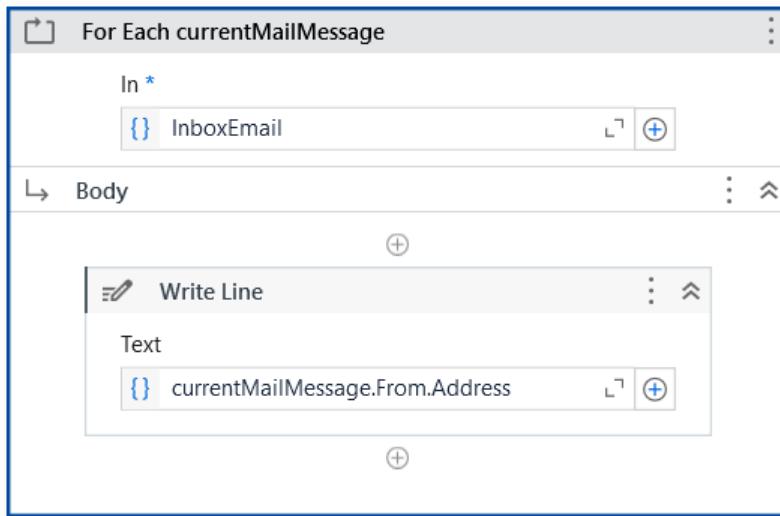
Create a Variable

The screenshot shows the Data Manager interface. The top navigation bar includes Data Manager, Output, Breakpoints & Bookmarks, and Error List. Below the navigation bar, tabs for Variables, Arguments, Namespaces, and Connections are visible, with 'Variables' being the active tab. A table lists variables with columns for Name, Data Type, Scope, and Default Value. A row for 'InboxEmail' is shown, where 'Name' is 'InboxEmail', 'Data Type' is 'List<MailMessage>', 'Scope' is 'Main', and 'Default Value' is '{}'. A note above the table says 'Create variable'.

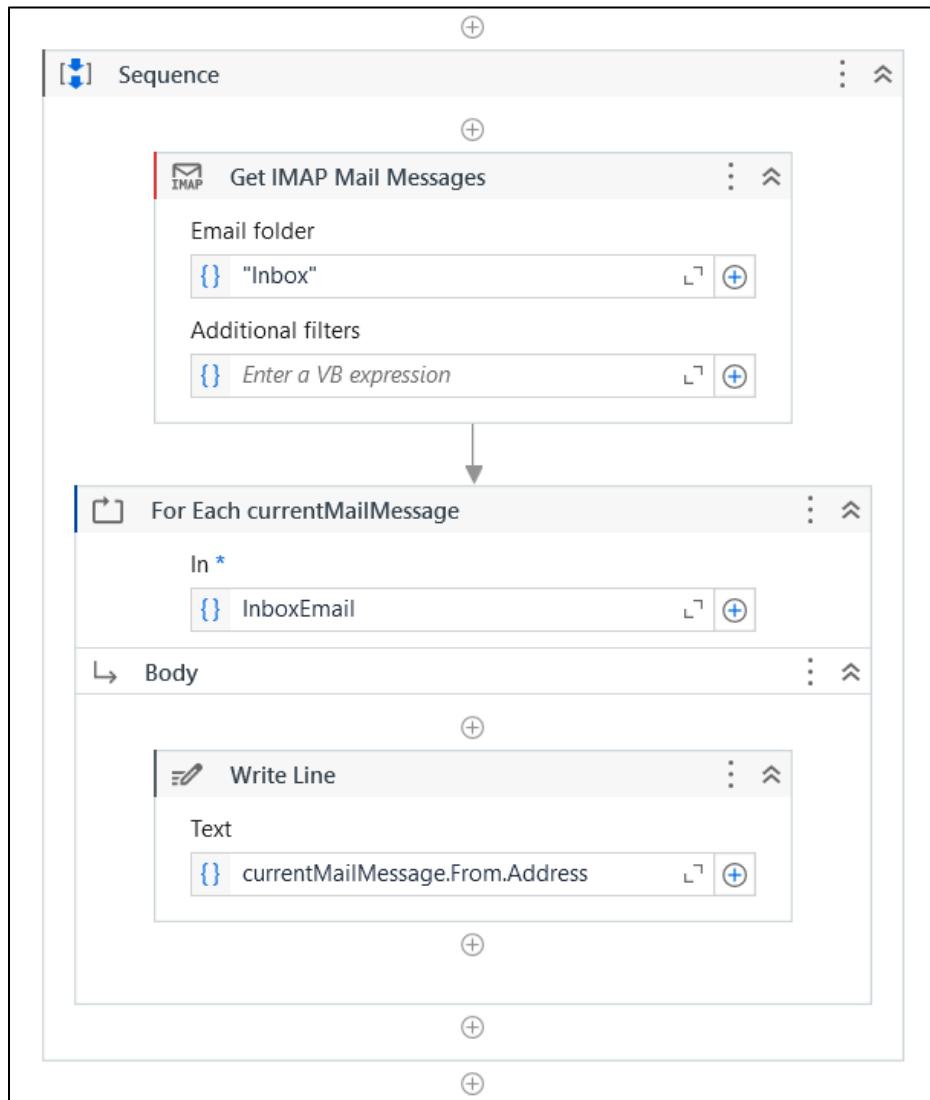
Inside Sequence drag and drop Get IMAP Mail Activity → IMAP configuration → Create a variable

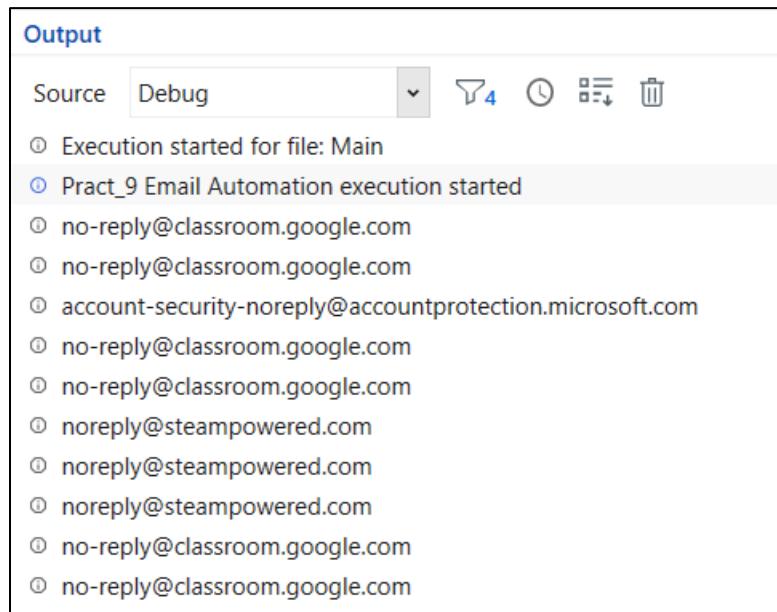
The screenshot shows the Power Automate designer with a sequence of activities. The first activity is a 'Get IMAP Mail Messages' activity, which is highlighted with a red border. Its properties pane is open on the right side, showing configuration options for Email folder ('Inbox') and Additional filters ('Enter a VB expression'). The properties pane also includes sections for IMAP configuration (True/False for IMAPPath, Email, Password, Secure password, Ignore CRL, Secure connection, Client name, Client version), Options (Auto), and Output (Email list set to 'Out' with variable 'InboxEmail').

After Get IMAP Mail drag and drop For Each Activity → In condition mention the created variable → Next drag and drop Write Line Activity inside body → In Write Line write the expression as shown



Complete Sequence:



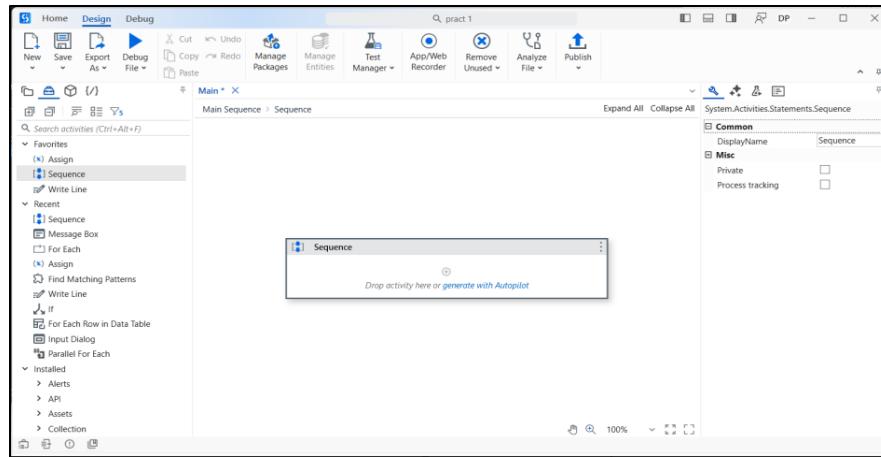
Output:

The screenshot shows the 'Output' window from a software development environment. The 'Source' dropdown is set to 'Debug'. The window displays a list of log messages:

- ① Execution started for file: Main
- ① Pract_9 Email Automation execution started
- ① no-reply@classroom.google.com
- ① no-reply@classroom.google.com
- ① account-security-noreply@accountprotection.microsoft.com
- ① no-reply@classroom.google.com
- ① no-reply@classroom.google.com
- ① noreply@steampowered.com
- ① noreply@steampowered.com
- ① no-reply@classroom.google.com
- ① no-reply@classroom.google.com

c. Send Email with Attachment

Search for sequence → drag and drop



Create a Variable

Name	Data Type	Scope	Default Value
(x) Array	String[]	Sequence	{}

The screenshot shows the 'Data Manager' window with the 'Variables' tab selected. A variable named 'Array' is listed, defined as a 'String[]' type with a scope of 'Sequence' and an empty default value.

Inside Sequence drag and drop Send SMTP Mail Activity → SMTP configuration → In To write the expression and email I'd → In Body mention the subject want to share with the mail

The screenshot shows the configuration of the 'Send SMTP Email' activity within the 'Sequence' activity. The 'To' field contains an expression: `String.Join(", ", New String() {"dirajpawar"})`. The 'Subject' field contains the expression `{"RPA Practical"}`. The 'Body' field contains the expression `{"Avengers Assemble"}`. The 'File path attachments' field contains the expression `1 item in Collection` and the 'File path attachment collection' field contains the expression `Enter a VB expression`. The configuration pane on the right includes settings for 'Use Integration Service' (Off), 'Server' (smtp.gmail.com), 'Port' (465), 'Email' (dirajpawar0507@gmail.com), 'Password' (pxj svzb leue yooa), 'Secure password' (Enter a VB expression), 'Ignore CRL' (False), 'Secure connection' (Auto), 'Forward' (Mail message), and 'Options'.

Expression and Email I'd

Expression Editor

Send SMTP Email > To (InArgument<String>)

The main recipients of the email message.

Fix Use Variables ▾

```
1 String.Join(", ", New String0 {"dhirajpawar6342@gmail.com"})
```

Attach the file with path to send

Collection Builder

Send SMTP Email > File path attachments (List<InArgument<String>>)

The attachments to be added to the email message.

```
{ } "C:\Users\Dhiraj\OneDrive\Documents\Invoice\Pdf 1.pdf"
```

Complete Sequence:

Sequence

Send SMTP Email

To *

```
{ } String.Join(", ", New String0 {"dhirajpawar6342@gmail.com"})
```

Subject

```
{ } "RPA Practical"
```

Body

```
"Avengers Assemble"
```

File path attachments

```
1 item in Collection
```

File path attachment collection

```
{ } Enter a VB expression
```

Output:

RPA Practical Inbox ×

 **dhirajpawar0507@gmail.com**
to me 1

"Avengers Assemble"

One attachment • Scanned by Gmail ⓘ

Aemeen LLC
3217 11th St.
Seattle, Washington
(206) 555-2157
aemeen@service.com

INVOICE
2019-08-05
Invoice #12345
PO#123456789
Attn: Ms. Jane Doe
ACME Inc.

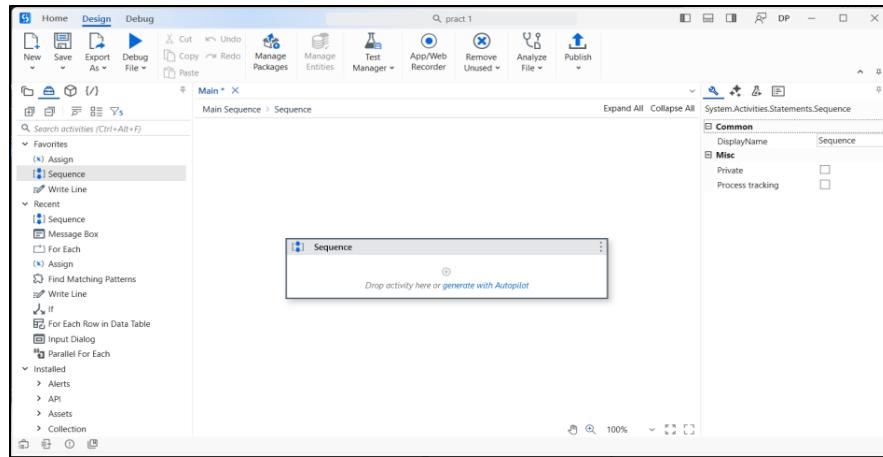
Dear Ms. Jane Doe,
Please find below a list breakdown for the account with complete. Please make payment at
your earliest convenience, and do not hesitate to contact me with any questions.

PDF Pdf 1.pdf

↶ Reply ↷ Forward 😊

d. Save Email Attachments

Search for sequence → drag and drop



Create a Variable

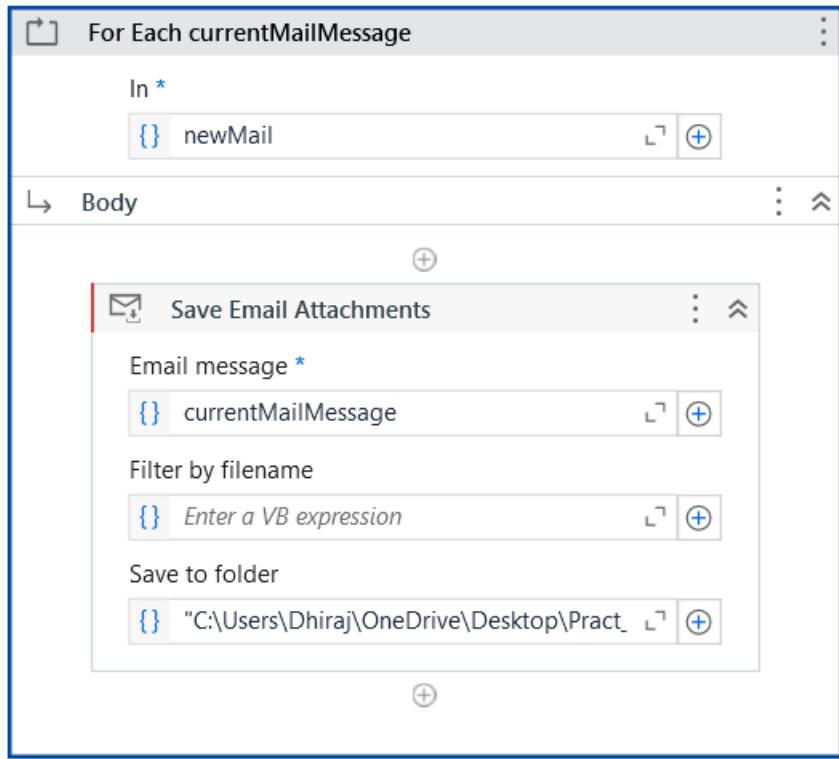
Name	Data Type	Scope	Default Value
(x) newMail	List<MailMessage>	Sequence	{}

Inside Sequence drag and drop Get IMAP Activity → IMAP configuration → Create a variable as shown → Write the details as shown

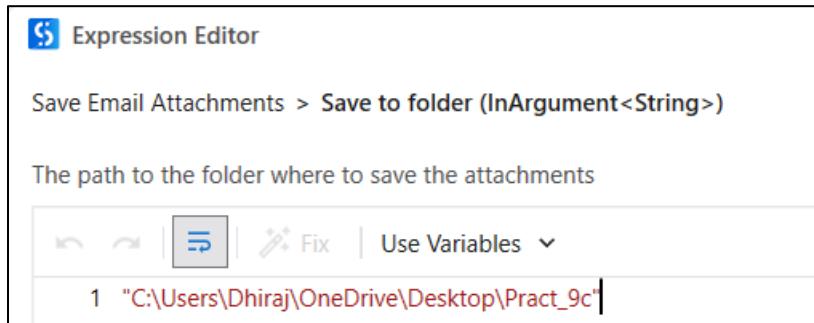
The screenshot shows the 'Get IMAP Email List' activity within a sequence. The configuration pane on the right is expanded, showing the following settings:

- Port:** 993
- Use OAuth:** False (radio button)
- Email:** "dhirajpawar0507@gmail.com"
- Password:** "jxrj svzb leue yooda"
- Ignore CRL:** False (radio button)
- Secure connection:** Auto
- Client name:** Enter a VB expression
- Client version:** Enter a VB expression
- Options:** Output
- Output:** Email list (Out) → newMail

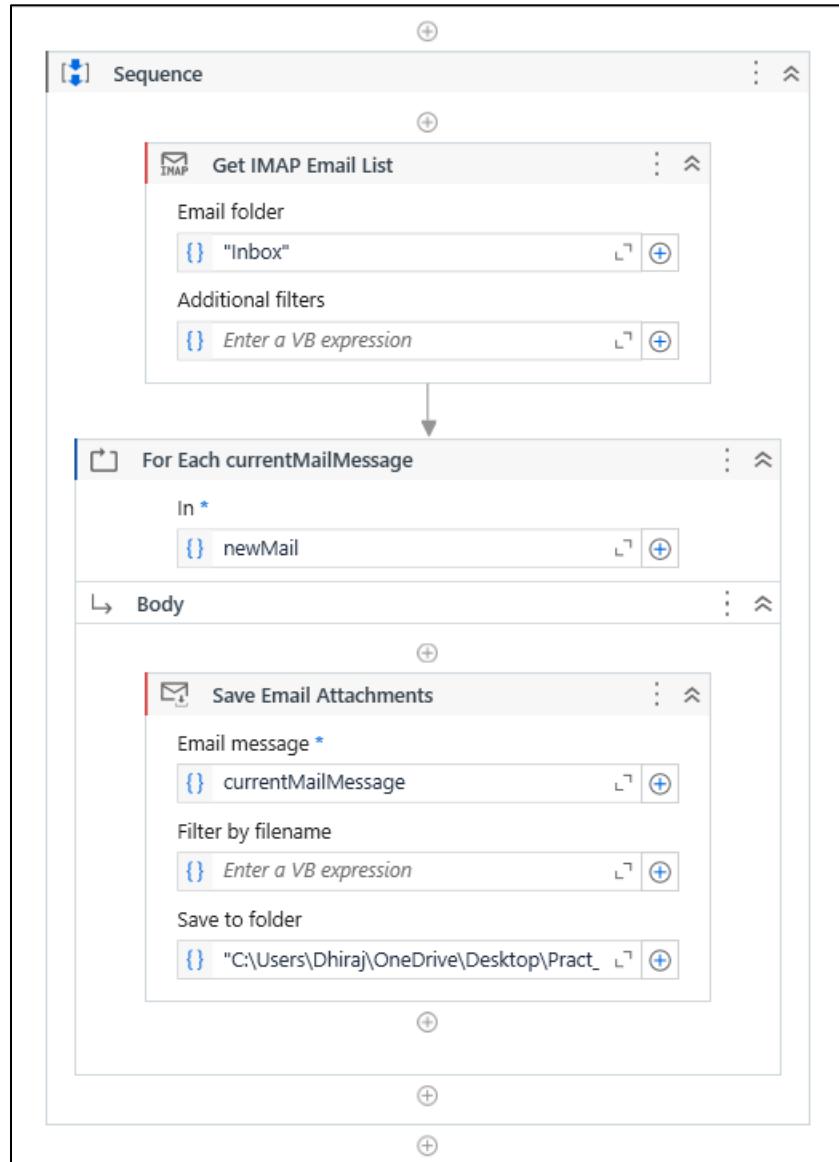
After IMAP Activity drag and drop For Each Activity → Mentioned the created variable in condition → Inside Body drag and drop Save Email Attachments Activity → write the details as shown in email message → And in save to folder mention the path where you want to save the output



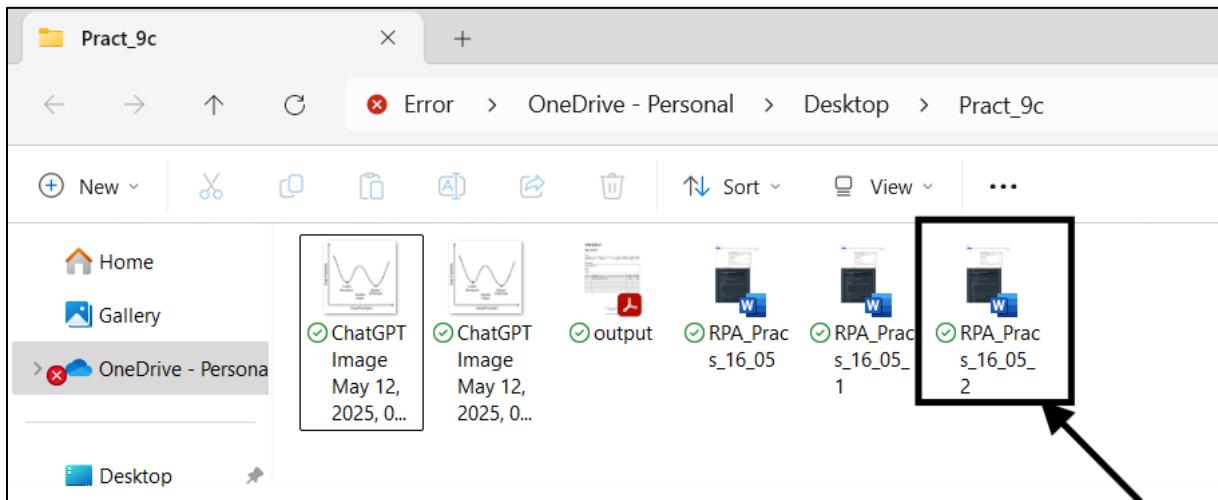
The path to save the output



Complete Sequence:

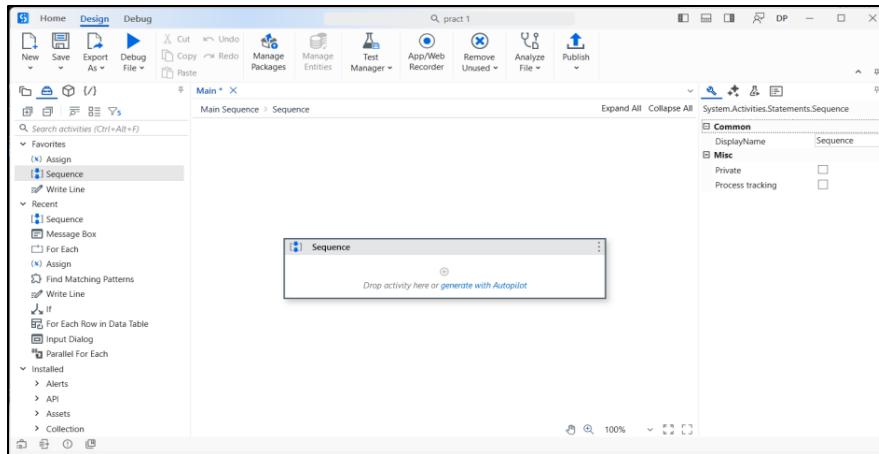


Output:



e. Reply to Email

Search for sequence → drag and drop



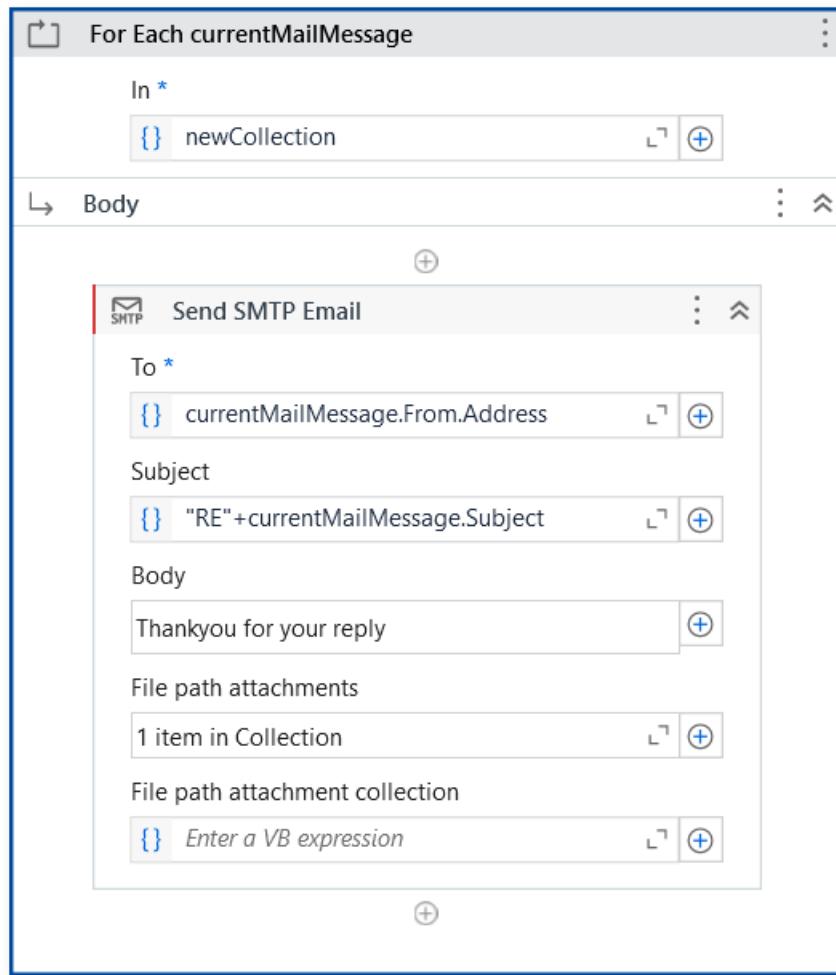
Create a variable

Name	Data Type	Scope	Default Value
(x) newCollection	List<MailMessage>	Sequence	{}

Inside Sequence drag and drop Get IMAP Activity → IMAP configuration → Create a variable as shown → Write the details as shown

The screenshot shows the configuration window for the 'Get IMAP Email List' activity. The 'Email folder' is set to "Inbox". The 'Output' section is expanded, showing the variable 'newCollection' assigned to the 'Email list' output port. The right side of the window displays various configuration options for the IMAP connection, such as Port (993), Use OAuth (False), Email ("dhirajpawar0507@gmail.com"), Password ("jxrj svzb leue yooa"), and Secure password.

After IMAP Activity drag and drop For Each Activity → Mentioned the created variable in condition → Inside Body drag and drop Send SMTP Email Activity → write the details as shown → In body add the subject to attach with the file → And in File path attachment mention the file with path to share



The file with path to share

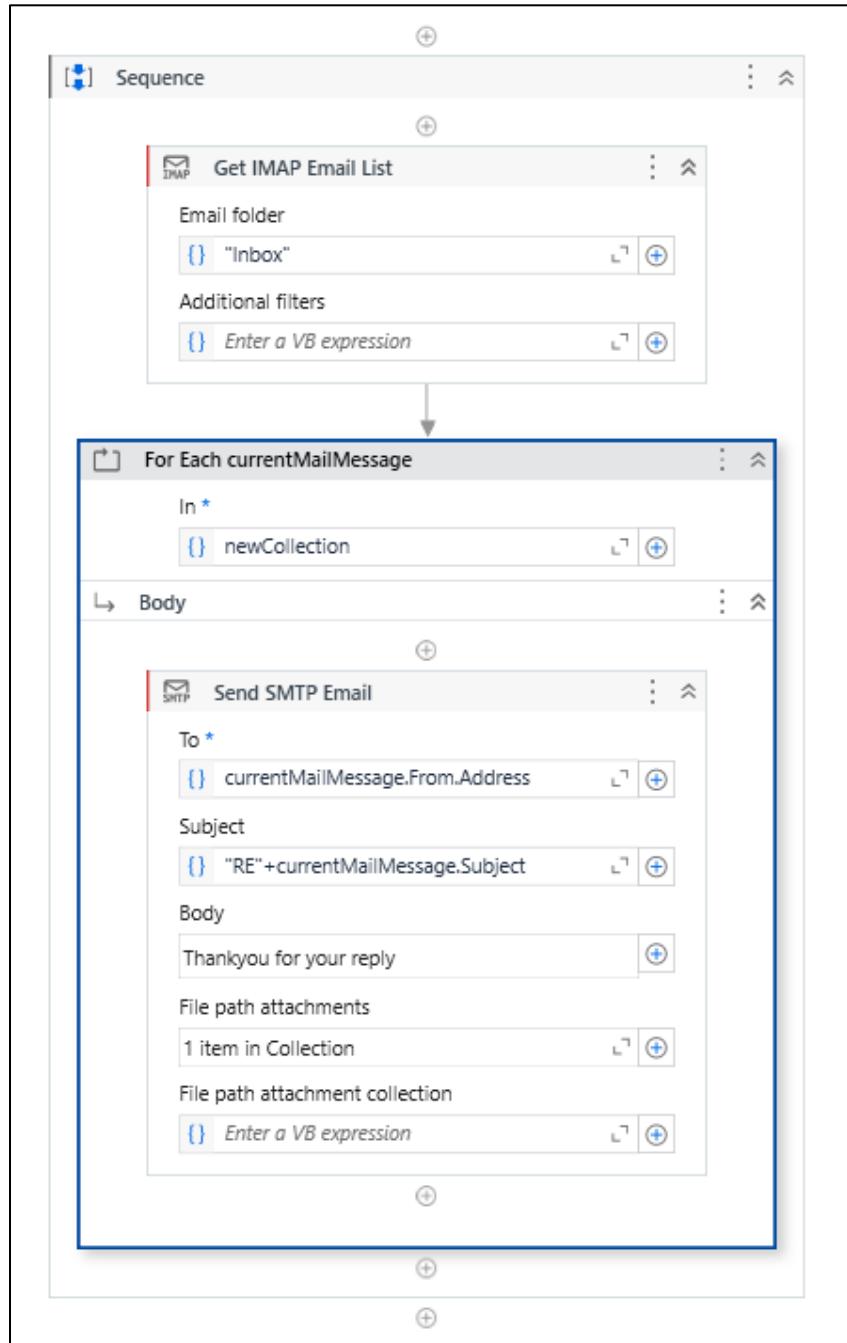
Collection Builder

Send SMTP Email > File path attachments (List<InArgument<String>>)

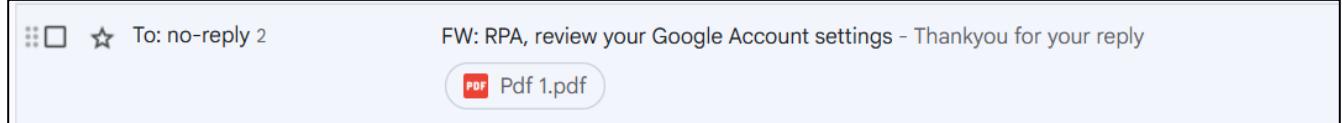
The attachments to be added to the email message.

```
{ "C:\Users\Dhiraj\OneDrive\Documents\Invoice\Pdf 1.pdf" }
```

Complete Sequence:



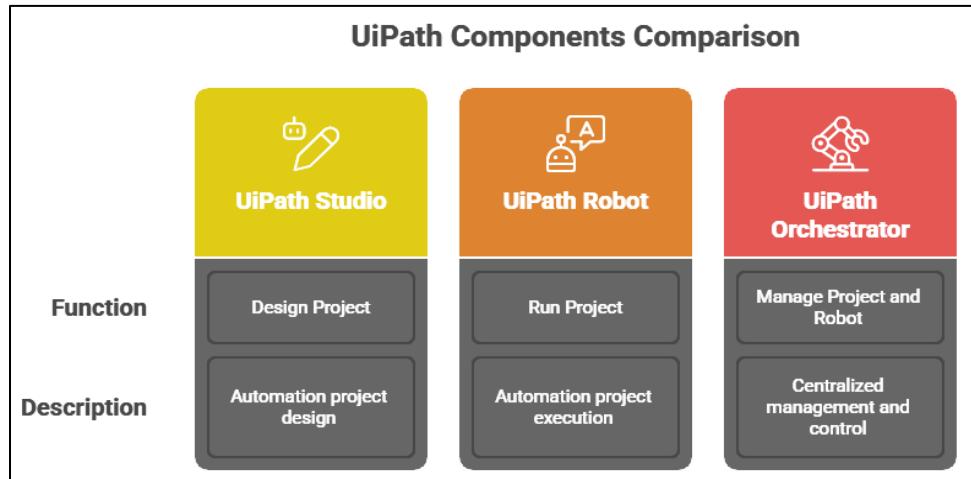
Output:



Practical – 10

Aim: Orchestrator management

Components of UiPath



UiPath Orchestrator:

A Web application that enables you to arrange UiPath Robots to execute repetitive business process (Automation Project)

And, to do so, Orchestrator follow step by step process:

Machine → Robot → Environment → Process → Job

Machine:

Represents a workstation (physical or virtual) on which UiPath Robot is installed

Authorizes the connection between UiPath Robot and Orchestrator using a Machine Key

2 types of machines can be created in Orchestrator

1. Standard Machine
2. Machine Template

1. Standard Machine

Enables you to connect UiPath Robot to Orchestrator on one workstation only.

Used when you work on same workstation every time -

Workstation with static machine/user combinations

Persistent Virtual Desktop Infrastructures (VDIs) – private workstations where end users use the same workstations day after day

2. Machine Template:

Enables you to connect UiPath Robot to Orchestrator on multiple workstations

Used when you work on multiple workstations

Workstations with arbitrary machine/user combinations

Non-persistent Virtual Desktop Infrastructures (VDIs) - public workstations where the end user changes frequently

Robot:

UiPath Robot is the execution host that runs processes built in UiPath Studio

Two types of Robots as execution host can be created:

→ Standard Robot

→ Floating Robot

Standard Robot -

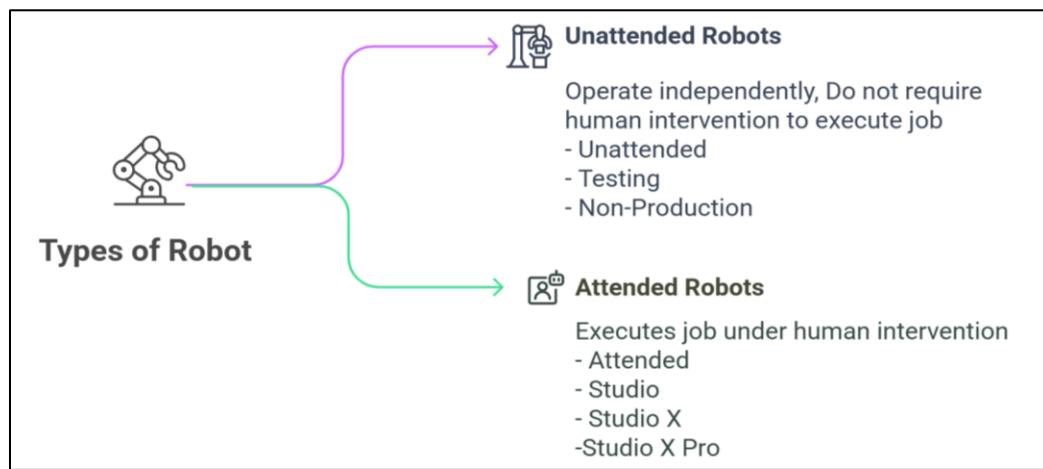
Restricts user to use UiPath Robot on a single workstation

Creating a standard robot allows it to work on a single standard machine

Floating Robot -

Allows user to use UiPath Robot on a Multiple workstation

Creating a floating robot allows it to work on any machine - Standard or Template



Environment - Grouping of Robots that is used to deploy processes [earlier environment now we create Folders]

Process - Represents association between an environment and a package

Package - Projects Published From UiPath Studio or Uploaded manually to Orchestrator

Job - A job represents the execution of a process on UiPath Robot.

Version Management - Publish the updated project from UiPath Studio to Orchestrator and update the project under Processes. When Job runs, it runs the updated project. The project can also be rolled back to the previous version using the rollback option.

Prerequisites

1. Steps to setup Unattended Robot
2. Which role you should select for Unattended Robot?
3. How to generate Machine key?
4. How to verify if the Robot connection is successful
5. Step for license allocation to be done during Robot Setup
6. Step for Domain/Username and passwords are entered during unattended robot setup

First login to cloud.uipath.com

The screenshot shows the UIPath Automation Cloud home page. On the left, there's a sidebar with 'Favorites' containing 'Admin' and 'Orchestrator'. The main area features a banner for 'Grade AI agents' with a cartoon character. Below it, three cards are displayed: 'Agents', 'Maestro', and 'Orchestrator'. The 'Orchestrator' card is highlighted with a red box. To the right, there's a sidebar with sections like 'Boost your productivity', 'What's New', and 'Resources'.

The screenshot shows the UIPath Administration interface for the 'Dhiraj_Student' tenant. The left sidebar shows 'Tenants' with 'DefaultTenant'. The main area has several cards: 'Accounts & local groups' (highlighted with a red box), 'Manage access', 'Licenses', 'Security', 'AI Trust Layer', and 'Audit logs'. A message at the top states: 'The Community Plan is intended for non-commercial use only. Any commercial use is in violation of the UIPath Terms of Use and Privacy Policy.' A support ID '8354-9717-5060-9711' is visible at the bottom.

The screenshot shows the 'Accounts & local groups' sub-section for 'Dhiraj_Student'. It includes tabs for 'User accounts', 'Robot accounts' (which is selected and highlighted with a red box), and 'Local groups'. There's a search bar and buttons for 'Download role assignments' and 'Invite users'. A table lists one robot account: 'Dhiraj Pawar' (Email: dhirajpawar0507@gmail.com, Last login: 10 minutes ago). Navigation controls and a support ID '8354-9717-5060-9711' are also present.

Dhiraj.Student > Accounts & local groups

User accounts Robot accounts Local groups

Search

Name Group memberships Last active

<input type="checkbox"/>	jarvis	Everyone	Never logged in
--------------------------	--------	----------	-----------------

1 - 1 / 1 Page 1 / 1 Items 10

Add robot account

Support ID: 8354-9717-5060-9711

RPA > Accounts & local groups

User accounts Robot accounts Local groups

Search

<input type="checkbox"/>	Automation Robot	Everyone	Never logged in
<input type="checkbox"/>	Unattended Robot 111	Everyone	Never logged in

1 - 2 / 2 Page 1 / 1

Add robot account

Robot Service Account is a dedicated identity to be used for unattended processes.

Name

Group membership

- Everyone
- Automation Users
- Administrators
- Citizen Developers
- Automation Developers
- Automation Express

Add

Add robot account

Robot account was added successfully!

Permissions

Default permissions have been granted to robot according to the group membership.

You can further configure custom permissions or advanced settings for robots/users within each service.

To do so, go to the Tenant's Services page and click on the "Manage access" icon next to the specific service.

Close Go to Organization

The screenshot shows the UpPath Administration interface for the 'Dhiraj_Student' tenant. The left sidebar lists tenants, and the main area displays the 'User accounts' tab under 'Accounts & local groups'. A single user account, 'jarvis', is listed with 'Everyone' as their group membership and 'Never logged in' as their last active status. The interface includes a search bar, role assignment download and add buttons, and pagination controls.

The screenshot shows the UpPath Administration interface for the 'RPA' tenant. The left sidebar shows 'Favorites' with 'Orchestrator' selected. The main area displays the 'Robot accounts' tab under 'Accounts & local groups'. Two robot accounts are listed: 'Unattended Robot 111' and 'Automation Robot', both belonging to 'Everyone' and never having logged in. The interface includes a search bar and a 'Add robot account' button.

The screenshot shows the Tenant Orchestrator interface for the 'Tenant' tenant. The left sidebar shows 'My Folders' and 'Test Automation' selected. The main area displays the 'Home' tab, which includes sections for Processes (2), Assets (0), Queues (0), Triggers (0), Users (2), and Machines (1). It also shows a 'Jobs Status' grid with counts for Running, Pending, Stopping, Terminating, Suspended, and Resumed jobs, and a 'Jobs History' donut chart indicating 6 successful, 3 faulted, and 0 stopped jobs.

The screenshot shows the UiPath Orchestrator dashboard. The top navigation bar includes links for Tenant, Monitoring, Robots, Folders, **Manage Access**, Machines, Solutions, Packages, Audit, Credentials, Webhooks, License, and Settings. The Manage Access link is highlighted with a red box. Below the navigation is a sub-menu with tabs: Overview, Machines, **Orchestrator users and groups**, Queues, SLA, License, Unattended sessions, User sessions, and API audit. A preview link is also present. On the left sidebar, there are sections for My Folders, My Workspace, Shared, Test, and Test_Automation. The main content area displays 'Jobs Status' with counts for Running, Pending, Stopping, Terminating, Suspended, and Resumed jobs. To the right is a 'Jobs History' donut chart showing 6 successful, 3 faulted, and 0 stopped jobs. At the bottom, a transaction history is shown from May 12, 2025, to May 13, 2025.

This screenshot shows the 'Manage Access' page under the 'Access Rules' tab. It features a search bar and filters for Type, Role assignment, User access type, and Status. A prominent blue button labeled '+ Assign access' is highlighted with a red box. Below the search bar is a table listing various access entries, each with a checkbox, name, type, roles, role assignment, and user status. One entry for 'Robot account' is highlighted with a red box. The table includes columns for Name, Type, Roles, Role assignment, User, and a more detailed view for Robot accounts.

This screenshot shows the 'Assign access rules' page for a specific robot account named 'Jarvis'. The top navigation path is Tenant > Manage Access > Access Rules > Robot accounts > Assign access rules. The main heading is 'Assign access rules'. A search bar is present, and the result 'Jarvis' is selected. A message box indicates that the account already has access rules assigned at the tenant level and provides an 'Edit' button. The right side of the screen shows a sidebar with 'Success', 'Audit', 'Groups', 'Robot accounts', 'Assign access rules', and 'Audit logs'.

Assign access rules

Robot account
jarvis

Configuration
The selected values below may be superseded by inherited ones. Check the summary card for the effective access rules.

Additional roles

- Allow to be Folder Administrator
- Allow to be Automation Developer
- Allow to be Automation Publisher
- Allow to be Automation User
- Allow to be Folder Administrator
- Orchestrator Administrator

Summary card
Access is always additive, what's assigned explicitly and what's inherited from groups.

Roles [Check permissions](#)

Allow to be Folder Administrator (Direct assignment)

Settings

Enterprise robot setup: Custom Windows credentials
Advanced robot options: None

[Cancel](#) [Update](#)

Unattended setup

Enterprise robot setup

Custom Windows credentials

Predefined credentials

Custom Windows credentials

laptop-622l35n1\dhira

Read [more details](#) about different account types and how to get the credentials.

Credential Store*

Orchestrator Database

Password

.....

Credential Type*

Windows Credentials

Summary card
Access is always additive, what's assigned explicitly and what's inherited from groups.

Roles [Check permissions](#)

Allow to be Folder Administrator (Direct assignment)

Settings

Enterprise robot setup: Custom Windows credentials
Advanced robot options: None

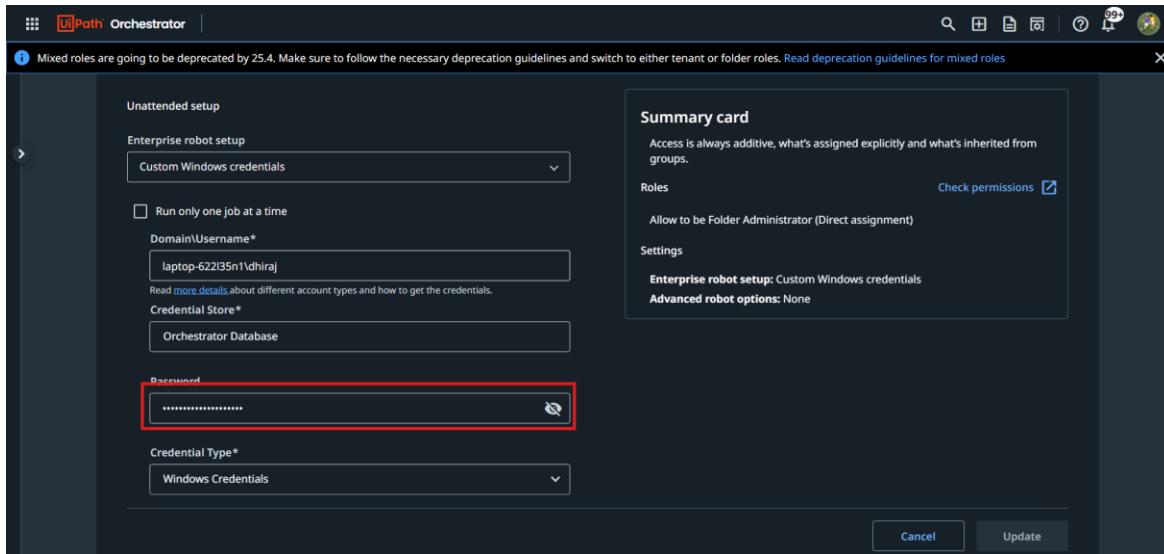
For domain name → go to cmd → type whoami → then copy the output and paste it in Domain\Username* field

```
C:\WINDOWS\system32\cmd. + 
Microsoft Windows [Version 10.0.26100.4202]
(c) Microsoft Corporation. All rights reserved.

C:\Users\DHiraj>whoami
laptop-622l35n1\dhira

C:\Users\DHiraj>
```

In password add your Windows machine password you want to execute your bots on



The screenshot shows the 'Machines' tab in the UiPath Orchestrator. The 'Jobs Status' section displays two rows: one for 'Running' and one for 'Pending'. A red box highlights this section. The 'Jobs History' section is also visible on the right.

The screenshot shows the 'Machines' tab in the UiPath Orchestrator. It lists two machines: 'MachineUnattended' and 'work.poojadamin@gmail.com's ...'. A red box highlights the '+ Add machine' button in the top right corner of the search/filter bar.

The screenshot shows the 'Add machine' modal in the UiPath Orchestrator. It includes tabs for 'Labels' and 'Properties'. A red box highlights the 'Machine template' option in the dropdown menu, which also lists 'Elastic Robot Pool' and 'Cloud Robot - Serverless'. At the bottom, it shows 'Items 25'.

Machine

General details

Template name *
MachineUnattendedRobot111

Description

Supported usage

Process type* All Process Compatibility* All

Tags

Labels

Runtime details

Runtime licenses: Production, Testing
The number of licenses specified below will be consumed by each machine connected to this template. The licenses are released as soon as the machine disconnects.

This configuration defines Validation criteria for Production (Unattended) field:
• Value must be between 0 - 1
• Field is required

Production (Unattended)* 1 /1

Testing* 0 /1

Runtime type: Production, Testing
For machine templates runtime license coincides with the runtime type available for selection when starting a job/ creating a trigger.

Cancel **Provision**

Tenant > Machines > Machine template

Success! Your machine was created.

You can now authenticate this machine to your Robot in the Assistant by using the details below.

Machine Name
MachineUnattendedRobot111

Client ID / Machine key

The ID is unique, generated once and used for identification purposes

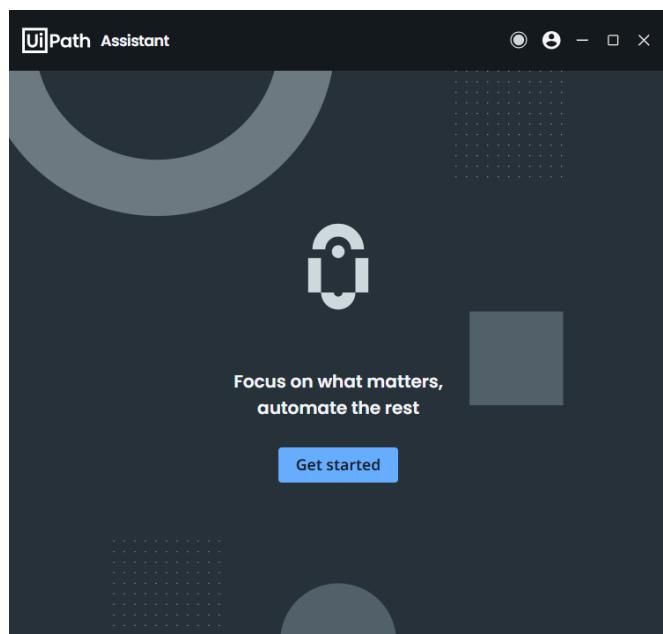
Client secret

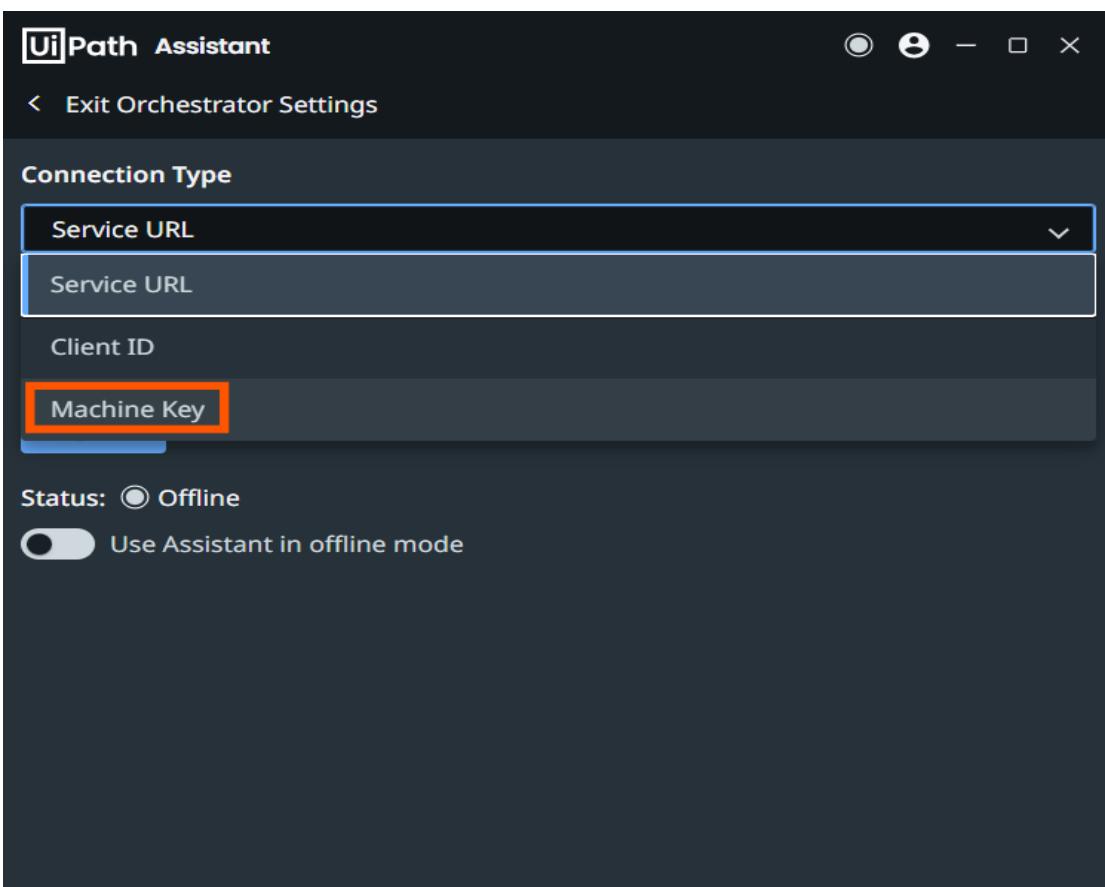
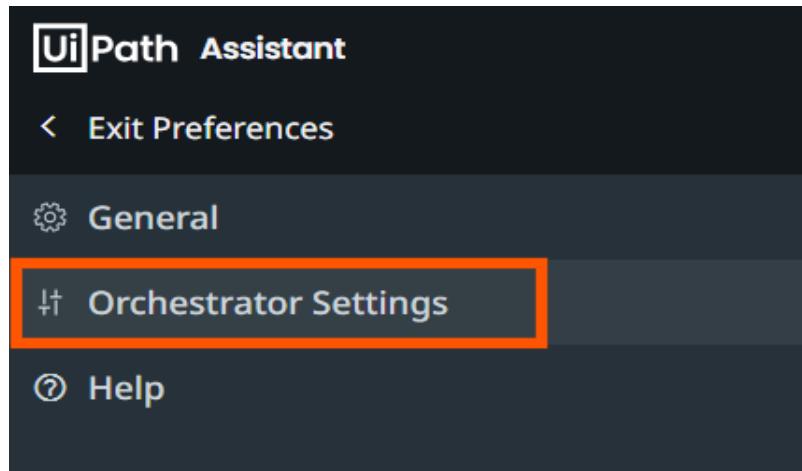
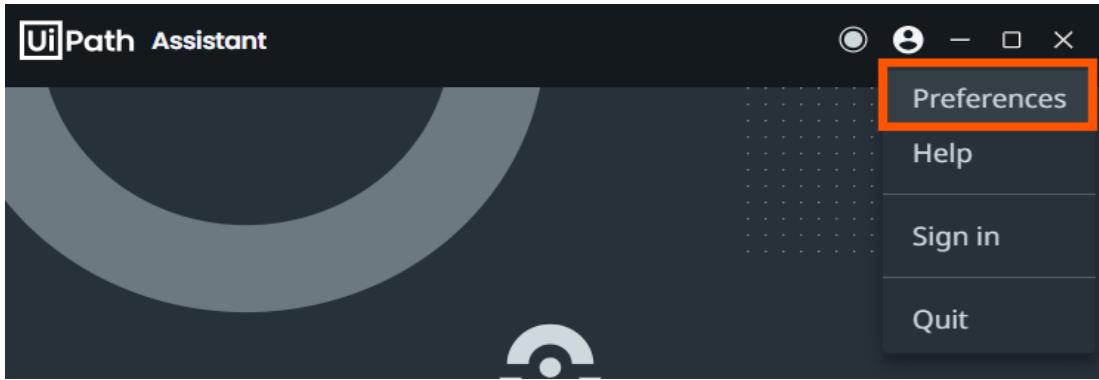
Works in combination with the ID above. You can add or delete secrets when editing the machine.

Keep your secrets safe
Copy the above credentials in a safe storage location. Consider using encryption or hashing to secure your storage. In case the client secret value is lost, you can generate a new one by editing the machine authentication details.

Close

In your Desktop → Go to Start → type UiPath Assistant → UiPath Assistant launch screen appears

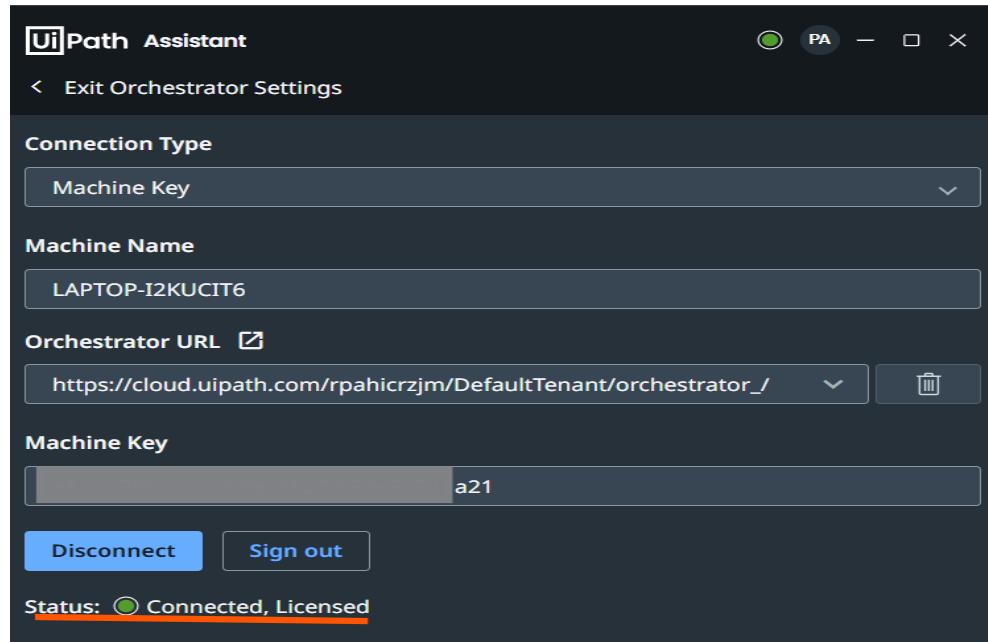
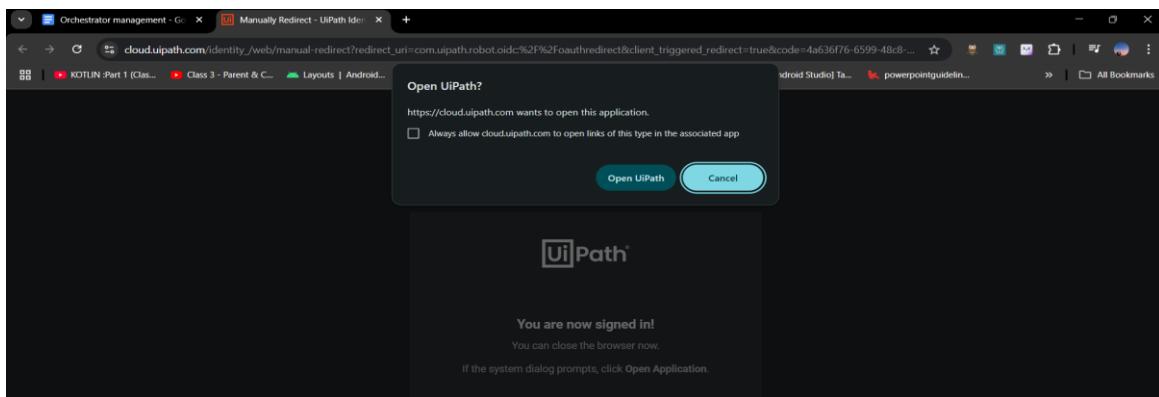
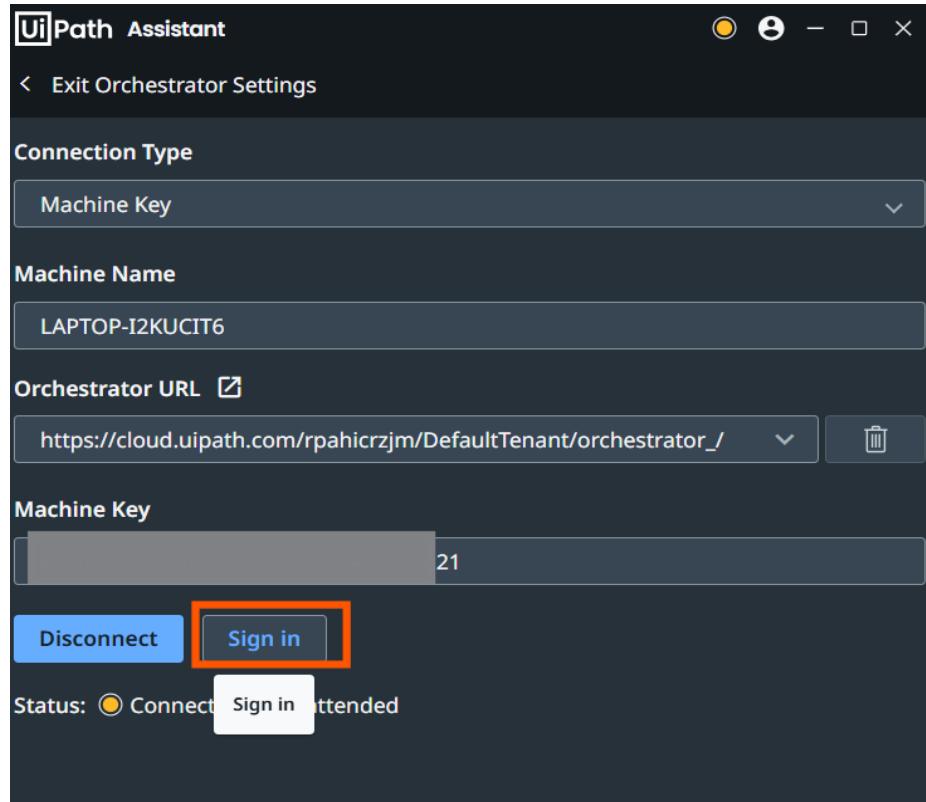




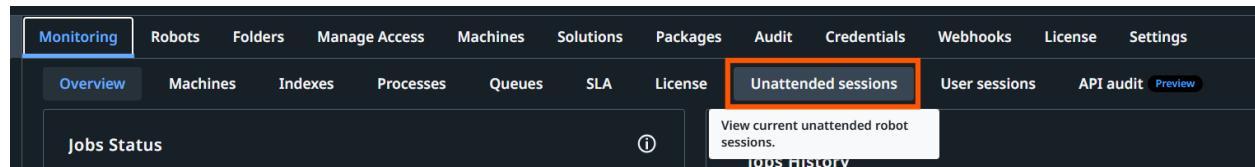
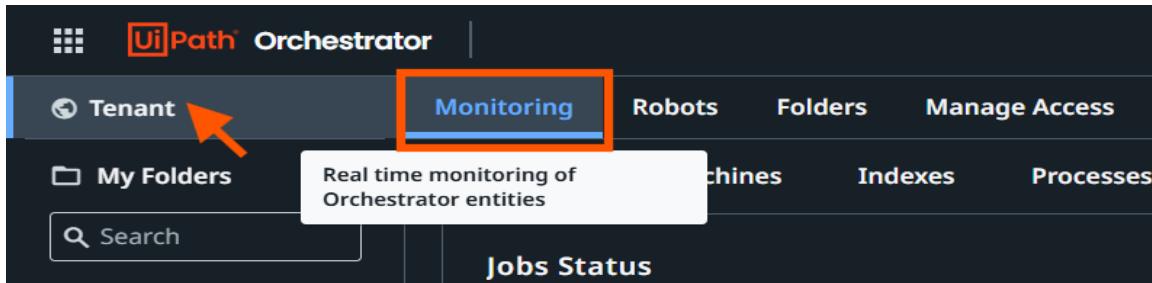
For the orchestrator url → check on your orchestrator browser url → copy till shown in below image & copy paste the Machine key

The screenshot shows the 'UiPath Orchestrator' interface. The 'Machines' tab is selected. A table lists three robots: '[Default] Cloud Robots - Server...', 'dhirajpawar0507@gmail.com's ...', and 'Friday'. The third robot, 'Friday', has a status of 'Compliant' and a 'Copy Client ID / Machine key' button next to it. The bottom right corner of the table shows 'Items 25'.

The screenshot shows the 'UiPath Assistant' window. Under 'Connection Type', 'Machine Key' is selected. In the 'Machine Name' field, 'LAPTOP-I2KUCIT6' is entered. The 'Orchestrator URL' field contains the URL 'https://cloud.uipath.com/rpahicrzjm/DefaultTenant/orchestrator_/' with a trash icon to its right. The 'Machine Key' field contains a long string of characters, with the last few digits 'a21' visible. The 'Connect' button is highlighted with an orange box. Below it, the 'Status: Offline' is shown with a radio button. A toggle switch labeled 'Use Assistant in offline mode' is also present.

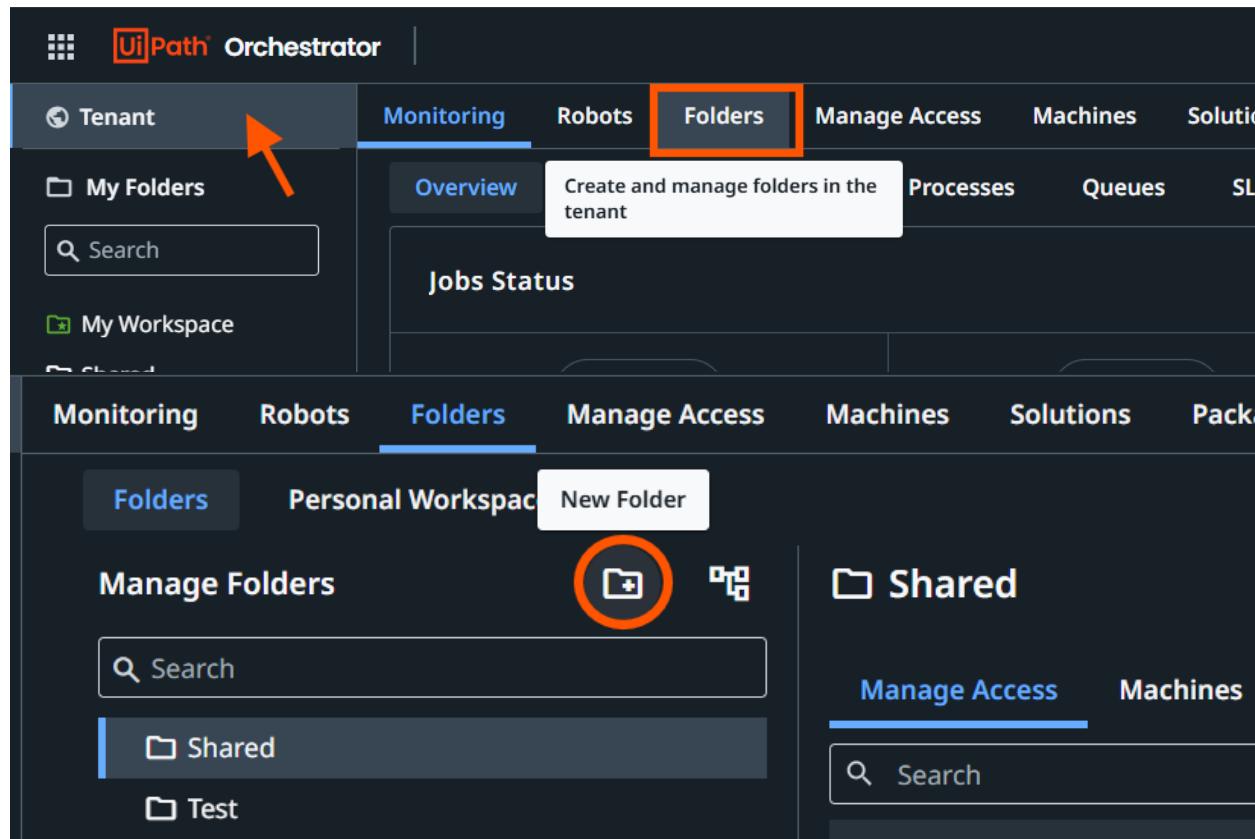


How to verify connection has been made with Orchestrator



UiPath Orchestrator		Monitoring											
Tenant	My Folders	Overview	Agents	Machines	Indexes	Processes	Queues	SLA	License	Unattended sessions	User sessions	API audit	Preview
My Workspace	Shared	Search	Machine: All	Runtimes	In Use	Runtime type	Service username	Status	Last Heartbeat	All			
			Hostname	Machine	Runtimes	In Use	Service username	Status	Last Heartbeat	All			
			DESKTOP-0D00FS0	dhirajpawar050...	1	0	DESKTOP-0D00F...	Unres...	16 days ago	25.0			
			DESKTOP-5VQ8HN2	dhirajpawar050...	1	0	DESKTOP-5VQ8...	Unres...	23 days ago	24.1			
			DESKTOP-OUOJQNJ	dhirajpawar050...	1	0	DESKTOP-OUOJ...	Discon...	3 months ago	25.0			
			LAPTOP-622L35N1	dhirajpawar050...	1	0	LAPTOP-622L35...	Connected	15 days ago	25.0			
			LAPTOP-622L35N1	Friday	1	0	LAPTOP-622L35...	Conne...	38 seconds ago				

Let's create Folder in our Tenant



New Folder

Name*

Description

Process packages source

Tenant package feed

Create a new package feed for this folder

Create

Name	Username	Type	Robot Type	Roles
Dhiraj Pawar	dhirajpawar050...	Local user	Attended	Folder Administrator
Jarvis	jarvis	Robot account	Unattended	Folder Administrator

Tenant > Folders > Assign account/group/external app

Assign an account to folder Test_Automation

Select an existing account

Account, group, or external app*

Automation Robot

Check Admin

Create new robot account

Robot Name*

Run only one job at a time

The Roles for the account selected above*

No role selected

+ New role

Automation Developer

Automation Publisher

Automation User

Folder Administrator

Personal Workspace

Robot-FolderScopedOnly

Robot-FolderScopedOnly

Cancel

Tenant > Folders > Assign account/group/external app

Assign an account to folder Test_Automation

Select an existing account Create new robot account

Account, group, or external app* Automation Robot Filter by All Robot Name*

Run only one job at a time

The Roles for the account selected above*

Robot-FolderScopedOnly

UiPath Orchestrator

Tenant	Home	Automations	Monitoring	Queues	Assets	Business Rules	Storage Buckets	Indexes	Testing	Settings															
My Folders	Manage Access	Machines																							
My Workspace	Assign account/group/external app																								
Shared																									
Test_Automation	<table border="1"> <thead> <tr> <th>Name</th> <th>Username</th> <th>Type</th> <th>Robot Type</th> <th>Roles</th> </tr> </thead> <tbody> <tr> <td>Dhiraj Pawar</td> <td>dhirajpawar0507...</td> <td>Local user</td> <td>Attended</td> <td>Folder Administrator</td> </tr> <tr> <td>Jarvis</td> <td>jarvis</td> <td>Robot account</td> <td>Unattended</td> <td>Folder Administrator</td> </tr> </tbody> </table>										Name	Username	Type	Robot Type	Roles	Dhiraj Pawar	dhirajpawar0507...	Local user	Attended	Folder Administrator	Jarvis	jarvis	Robot account	Unattended	Folder Administrator
Name	Username	Type	Robot Type	Roles																					
Dhiraj Pawar	dhirajpawar0507...	Local user	Attended	Folder Administrator																					
Jarvis	jarvis	Robot account	Unattended	Folder Administrator																					

Test_Automation

Manage Access		Machines	Units Quotas		
Search		Search	Type: All	Machine Assignment: All	Labels: All
Properties: All		Manage Machines in Folder			
<input type="checkbox"/>	Name	Description	Type	Machine Assignment	Properties

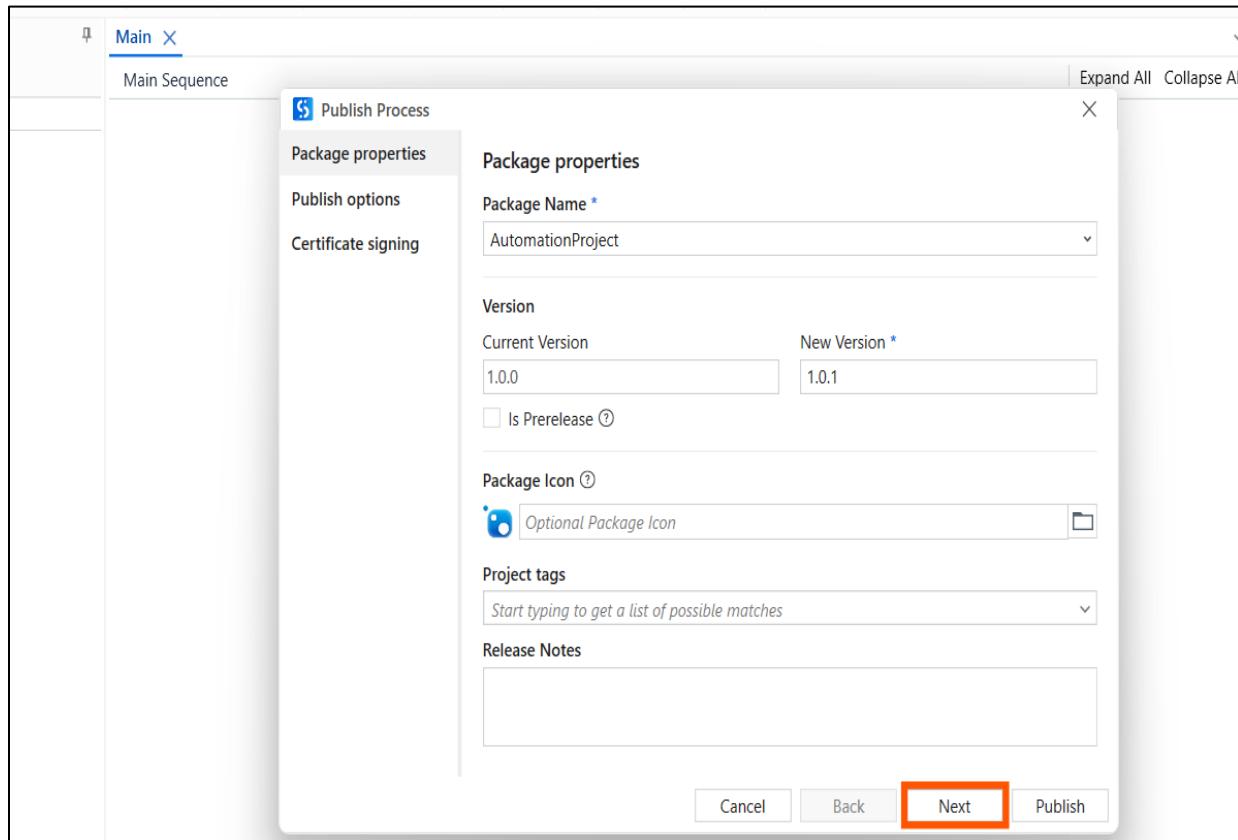
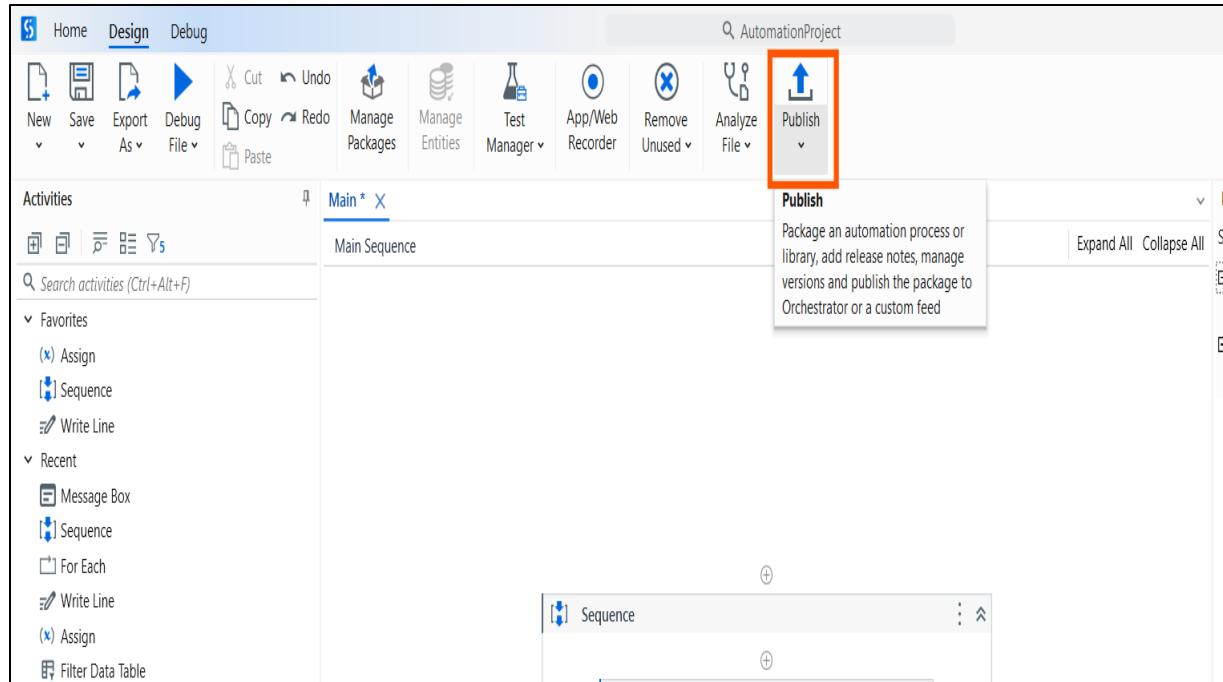
No data to display yet.

UiPath Orchestrator

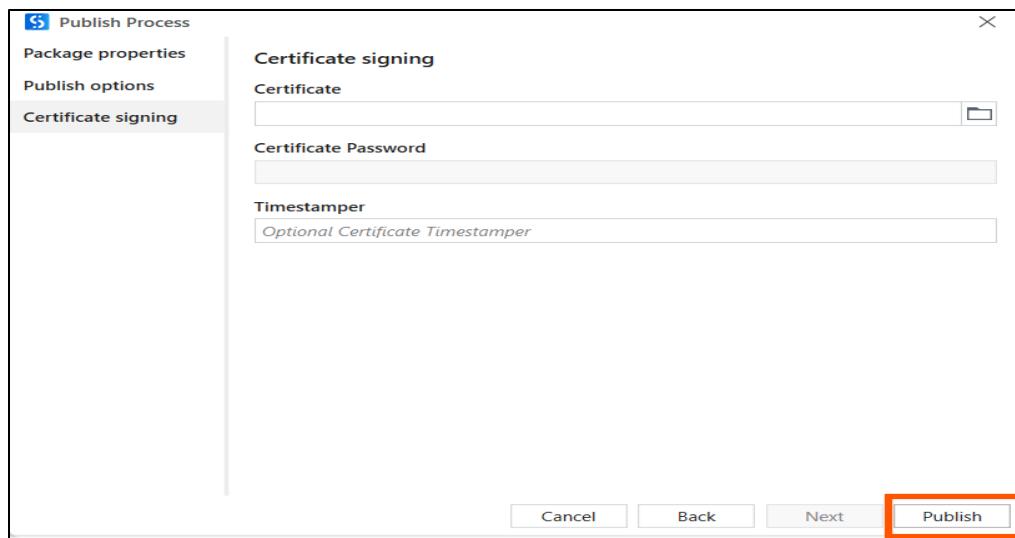
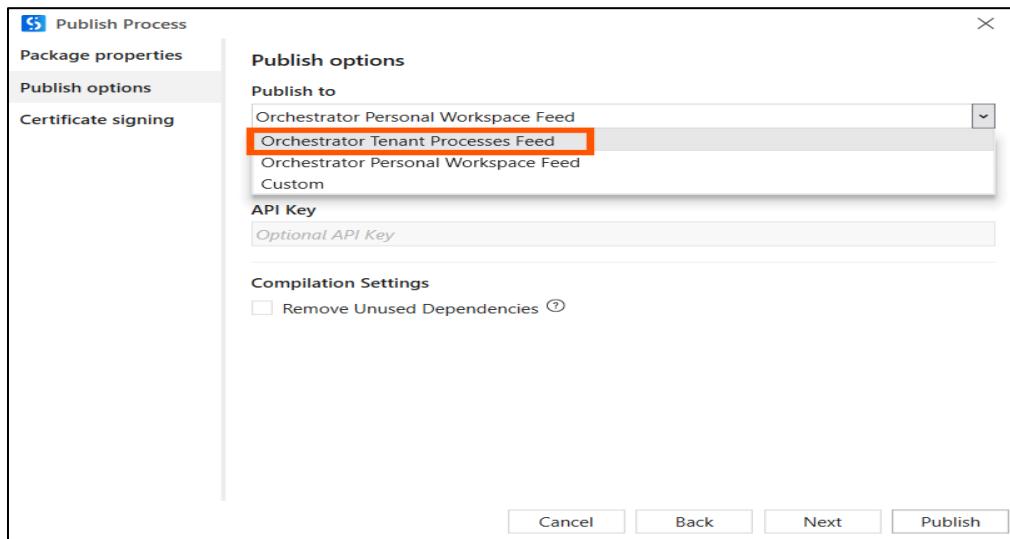
Test_Automation > Settings > Machines > Manage Machines in Folder									
Search Type: All Labels: All Properties: All + Add machine									
1 row selected X									
<input checked="" type="checkbox"/>	Friday ASSIGNED	Template	1	0	0	0	Properties		
<input type="checkbox"/>	[Default] Cloud Robots - Server...	Cloud Robot - Se...	0	0	0	0			
<input type="checkbox"/>	dhirajpawar0507@gmail.co...	Template	0	0	0	0			

a. Deploy bots to Orchestrator

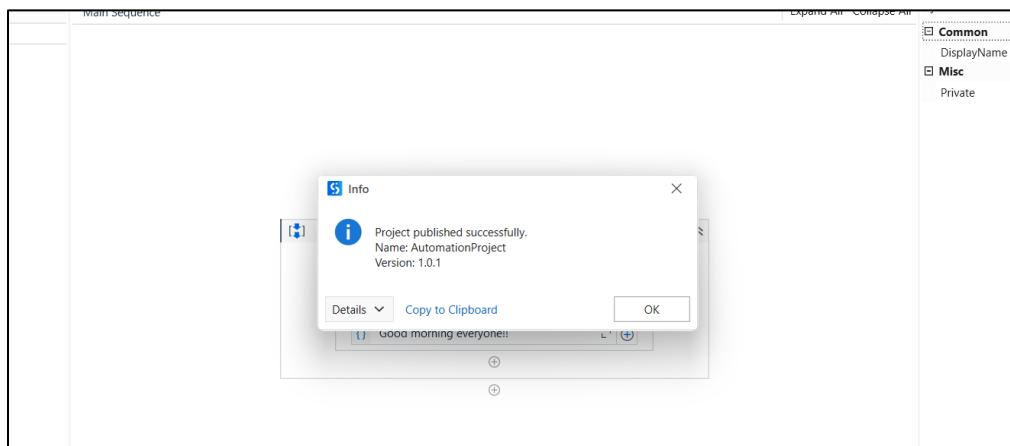
→ Come to UiPath Studio, open the process you want to deploy to the Orchestrator



Click on Next



Once you clicked Publish you should below dialog if it has executed successfully...



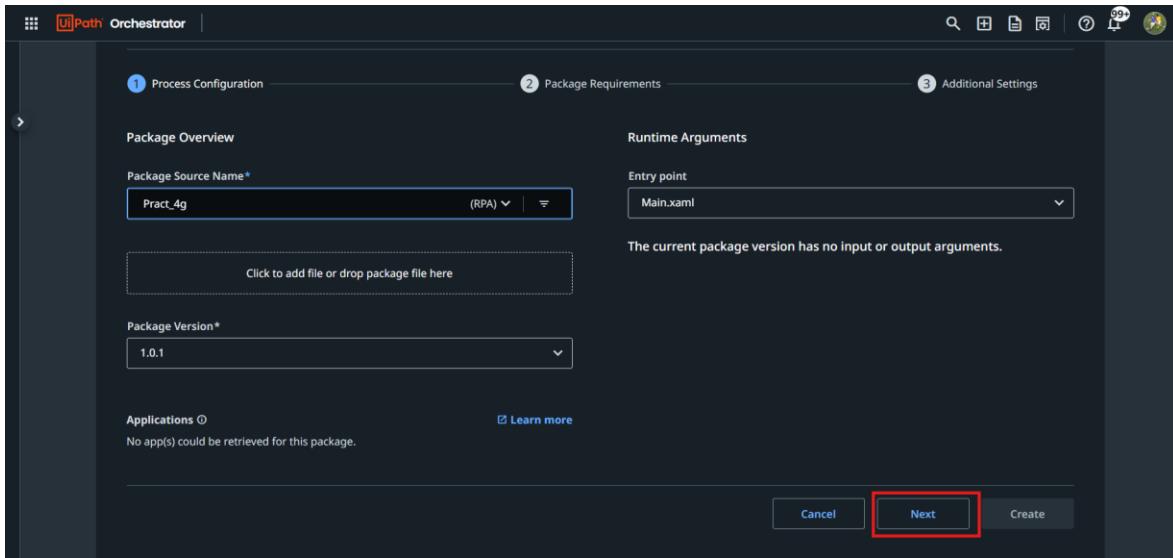
Your process that you had uploaded will be in packages
Go to Tenant → Click on Packages to check the published process

Go to the folder that you had created earlier..

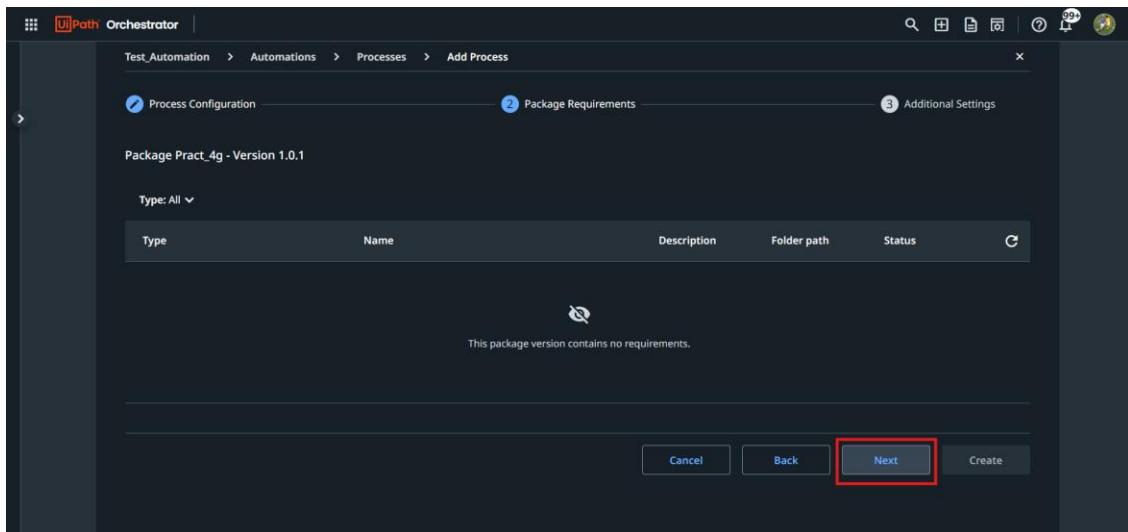
Click on Processes (Here in your case you will see 0 so its totally fine)

Click on Add Process

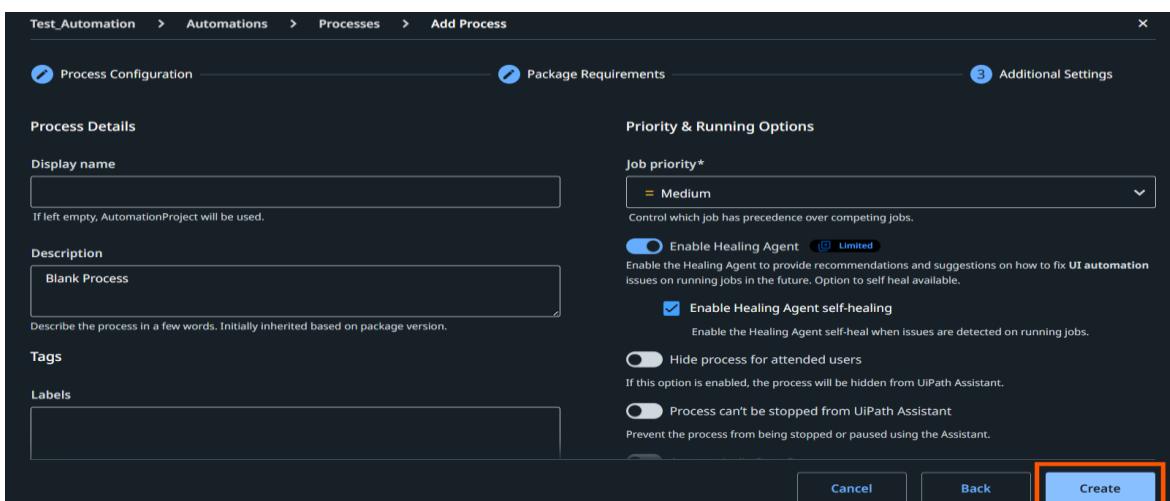
Select the process you want to add → Add Package → Click on next

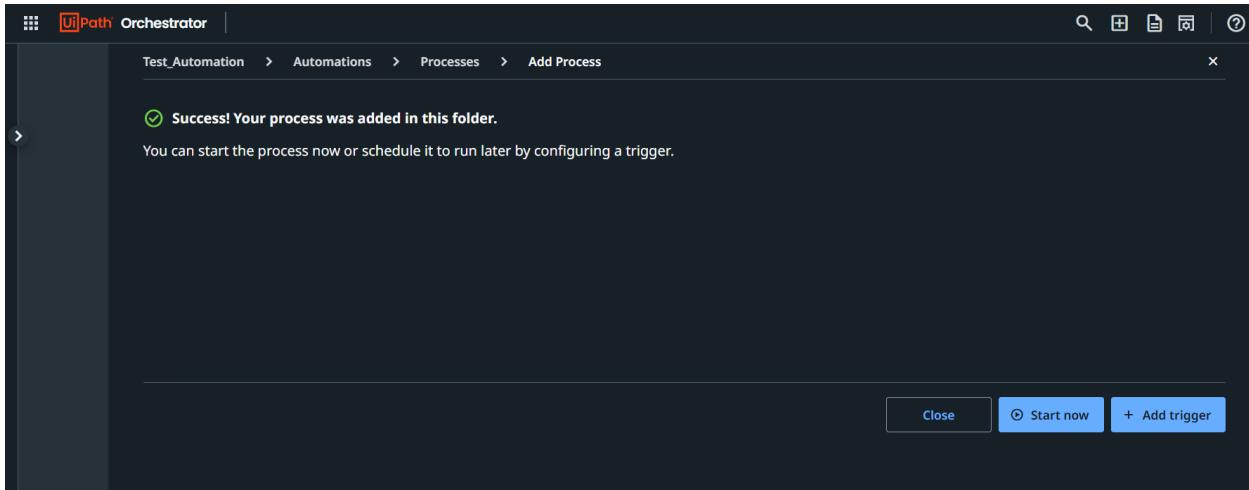


Click on next



Click on Create





Now you are able to see your process under Processes panel

The screenshot shows the 'Automations' tab in the UiPath Orchestrator. The left sidebar has 'Test_Automation' selected. The main area shows the 'Processes' section with a table. One row is visible: 'Pract_4g' (RPA, Version 1.0.1, Medium priority, Main.xaml, Description: Rpa bot to automate). Navigation controls at the bottom show 'Page 1 / 1' and 'Items 25'.

Name	Type	Version	Job priority	Entry point	Description
Pract_4g	RPA	1.0.1	Medium	Main.xaml	Rpa bot to automate

a. Run jobs from Orchestrator

Click on Start Job

The screenshot shows the UiPath Orchestrator web interface. The top navigation bar includes 'Home', 'Automations', 'Monitoring', 'Queues', 'Assets', 'Business Rules', 'Preview', 'Storage Buckets', 'Indexes', 'Testing', and 'Settings'. The 'Automations' tab is active. On the left sidebar, under 'My Folders', 'Test_Automation' is selected. The main content area displays a table of processes, with 'Pract_4g' highlighted. Below the table, a search bar and a 'Start a job' button are visible. The bottom part of the screen shows a detailed 'Start Job' configuration dialog for 'Pract_4g', including fields for 'Process*', 'Job priority*', 'Runtime type*', 'Execution Target', and 'Runtime Arguments'.

Select the Robot and click on Start

This screenshot shows the 'Start Job' dialog box. It contains sections for 'Account' (set to 'jarvis (laptop-62213n1\dhira)'), 'Machine' (set to 'Any machine'), and various configuration options like 'Enable Healing Agent self-healing' (checked), 'Schedule ending of job execution', 'Generate an alert if the job is stuck in pending or resumed status', and 'Generate an alert if the job started and has not completed'. At the bottom right are 'Cancel' and 'Start' buttons.

The screenshot shows the 'Jobs' tab in the UiPath Orchestrator interface. A success message 'Success! The job of Pract_4g has been queued to start.' is displayed above the job list. The table below shows two entries for 'Pract_4g': one in 'Pending' state and one in 'Success...' state. The top navigation bar includes 'Home', 'Automations', 'Monitoring', 'Queues', 'Assets', 'Business Rules', 'Preview', 'Storage Buckets', 'Indexes', 'Testing', and 'Settings'. The 'Automations' tab is active. On the left sidebar, under 'My Folders', 'Test_Automation' is selected. The bottom right corner shows the number '25'.

b. Queue Introduction:

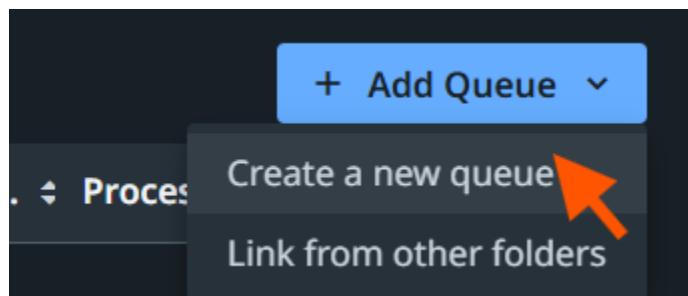
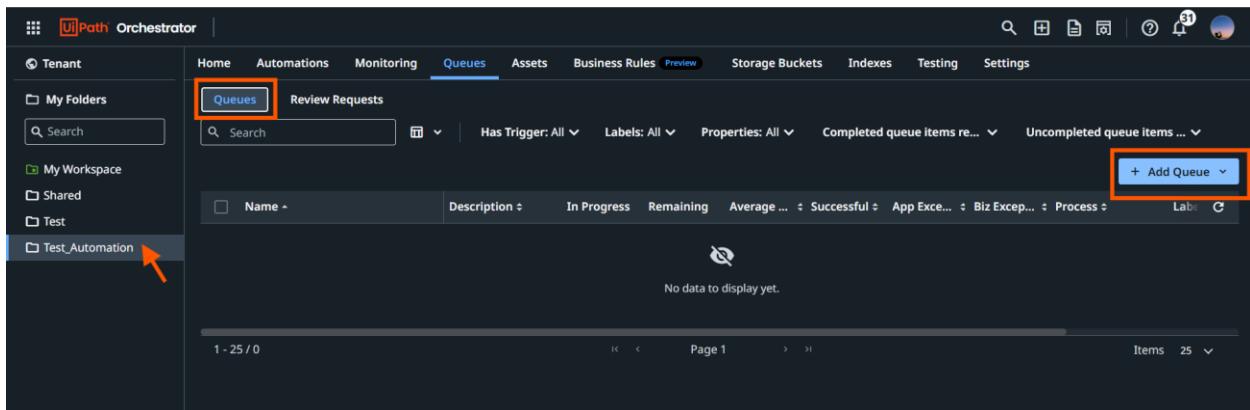
i. Add items to Queue.

Queue

- A queue is a list of items that you want to be processed by Robots
- A Queue can hold an unlimited number of item
- Queue item can store multiple types of data, such as invoice information, customer details or any other project related data
- Data stored in Queue Items can be processed in Project applications such as SAP, Salesforce etc.

Create a Queue in Orchestrator

Select the folder → Click on **Queues** tab → then click on **+ Add Queue**



Provide name to the Queue → and click on Add

The screenshot shows the 'Create Queue' dialog box. In the 'General details' section, the 'Name' field is populated with 'Queue_Automation' and has a red border around it. Below it is a 'Description' field with an empty text area. Under 'Additional options', there are two unchecked checkboxes: 'Enforce unique references' and 'Store in encrypted format'. The 'Auto Retry' section contains two checked checkboxes: 'Failed items' and 'Abandoned items'. A 'Max # of retries' input field shows the value '1'. The 'Tags' section includes a 'Labels' input field which is empty. On the right side, there are sections for 'Schema Definitions', 'SLA Predictions', and 'Retention policy'. The 'Retention policy' section includes two tables: one for 'Completed queue items' (Action: Delete, Retention duration: 30 days) and another for 'Uncompleted queue items' (Action: Delete, Retention duration: 180 days). At the bottom right of the dialog box is a blue 'Add' button.

Your newly created Queue will be visible under the Queues tab

The screenshot shows the 'Queues' tab in the UIPath Orchestrator interface. The left sidebar shows 'Test_Automation' is selected. The main area displays a table of queues. The first row, 'MyQueue', is the current selection. The second row, 'Queue_Automation', is also listed. The table columns include Name, Description, In Progress, Remaining, Average, Successful, App Excep..., Biz Excep..., Process, and Labels. At the bottom right of the table, there is a 'Edit' icon, which is highlighted with a red box.

Move towards right hand side and click on ⋮ icon → click on View Transactions

The screenshot shows the 'Queues' tab in the UIPath Orchestrator interface. The 'Queue_Automation' row is selected. A context menu is open on the right side of the row, listing options: 'Edit', 'Add Trigger', 'View Transactions' (which is highlighted with a red box), 'Monitor Queue', 'View Chart', 'Upload Items', 'Manage links', and 'Remove'. The main table area shows the same data as the previous screenshot, with 'MyQueue' and 'Queue_Automation' rows.

Right now the transactions are empty

The screenshot shows the UiPath Orchestrator interface. The left sidebar has a dark theme with items like Tenant, My Folders, Search, My Workspace, Shared, Test, and Test_Automation (which is selected). The main area has a light background. The title bar says "Test_Automation > Queues > Transactions: Queue_Automation". Below the title is a search bar and an "Export" button. A table header row includes columns for Reference, Status, Revision, Priority, Deadline, Postpone, Started (with a dropdown arrow), and Ended (with a circular arrow icon). Below the header, there's a message "No data to display yet." with a magnifying glass icon. At the bottom, it shows "1 - 25 / 0", "Page 1", and "Items 25".

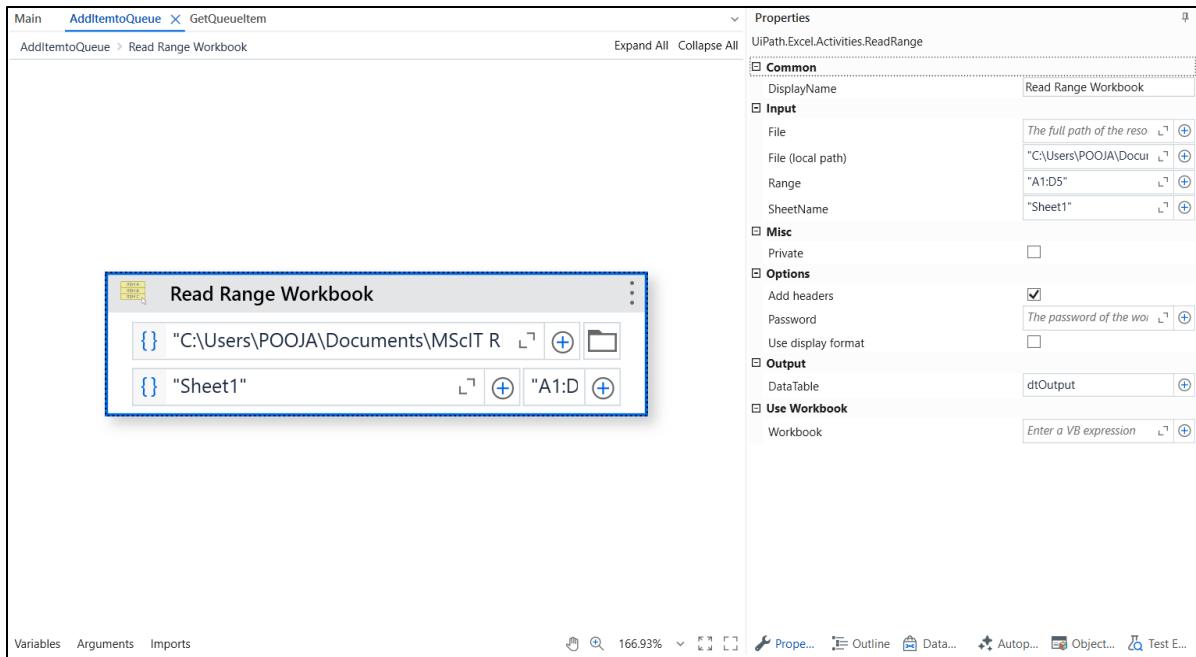
We will add excel data to the Queue as Queue Item

Height(ft)	Height(in)	Weight
5	2	147
6	4	150
4	3	170
5	9	110

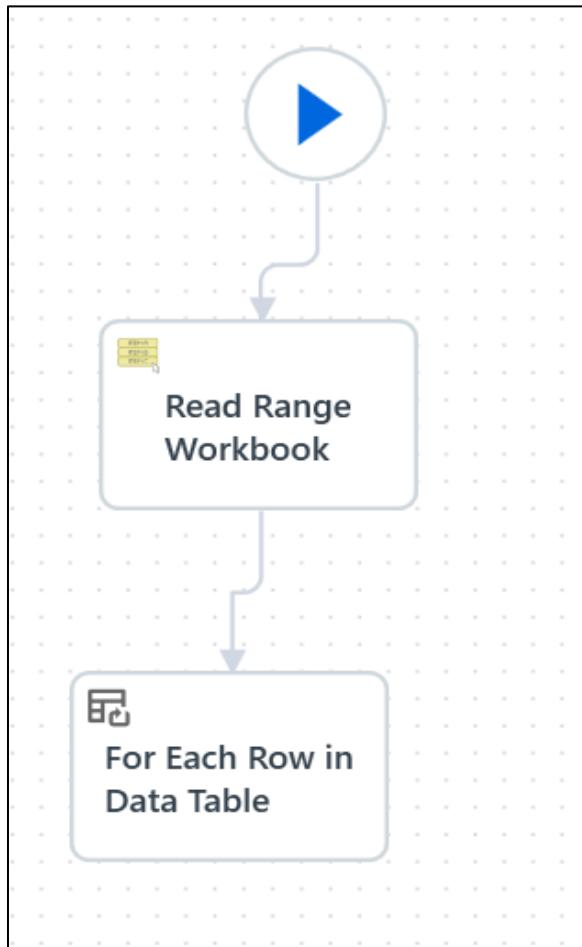
Go to UiPath Studio here we will be creating Process for adding Queue Items to Queue Add flowchart

The screenshot shows the Microsoft Power Automate Designer application. The top navigation bar includes 'Home', 'Design' (which is selected), and 'Debug'. A search bar at the top right contains the text 'Queue_Automation'. The left sidebar has sections for 'Activities' (Favorites, Recent, Installed), 'Manage Packages', 'Manage Entities', 'Test Manager', 'App/Web Recorder', 'Computer Vision', 'User Events', 'Table Extraction', 'UI Explorer', 'Remove Unused', 'Analyze File', and 'Publish'. The main workspace shows a flow titled 'AddItemtoQueue' with two steps: 'Read Range Workbook' and 'For Each Row in Data Table'. The 'For Each Row in Data Table' step is highlighted with a blue border.

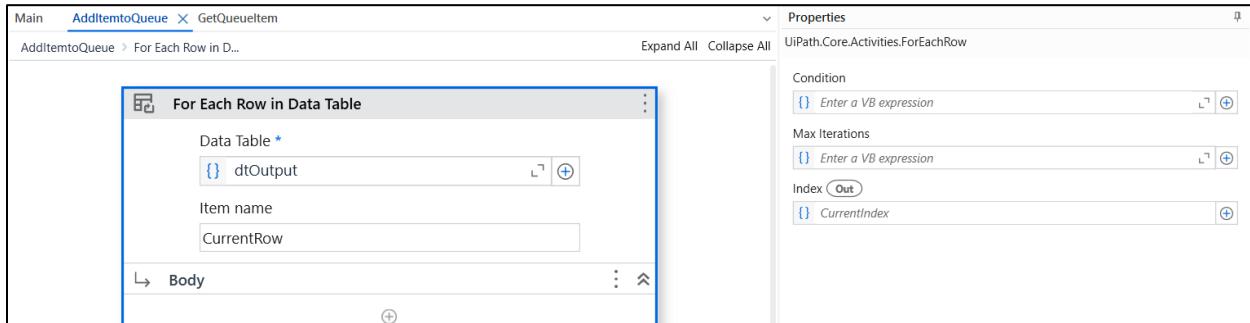
Add Read Range Workbook for reading data from excel and create a variable as shown in properties section



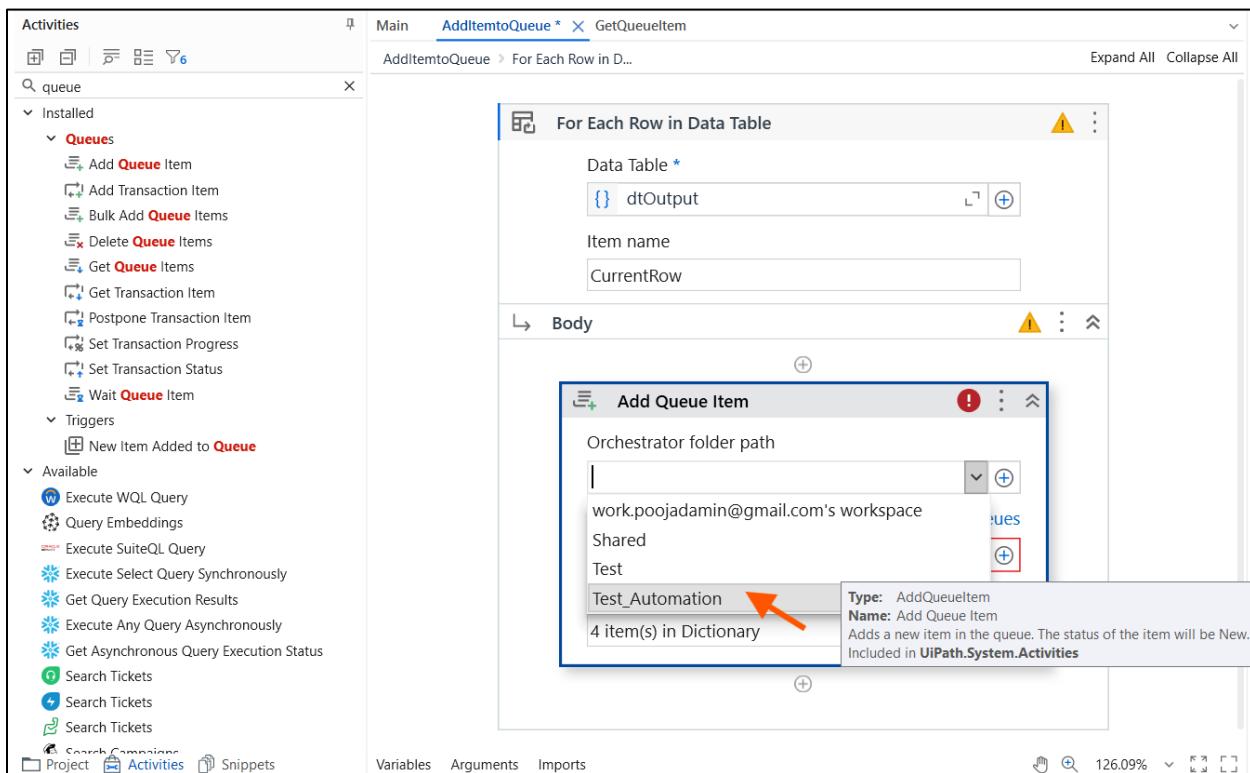
Add for each to iterate over the data



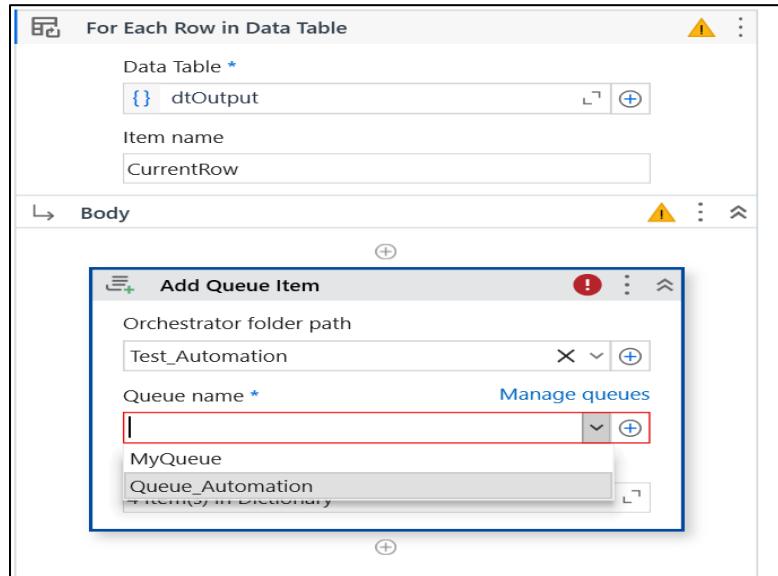
Use the datatable output variable created here



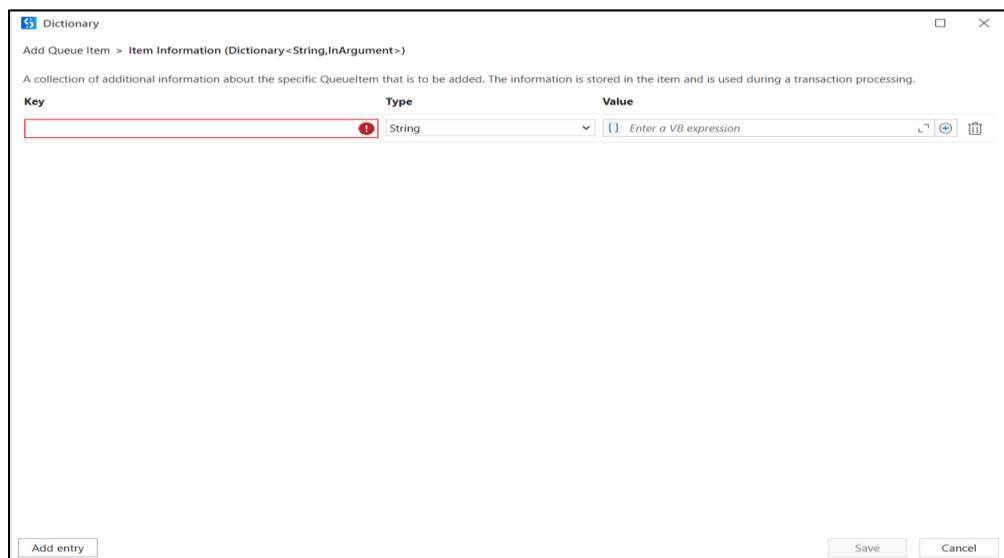
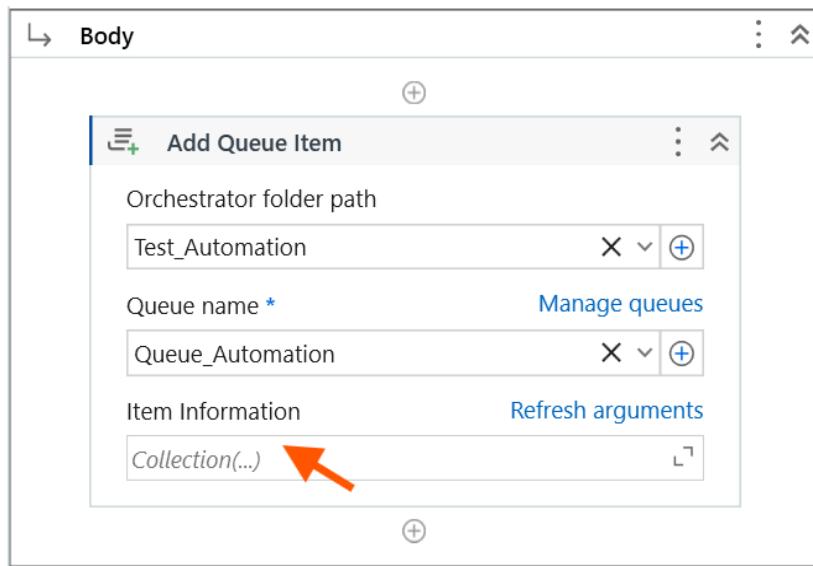
Inside Body drag and drop Add Queue Item Activity and fill the details as shown



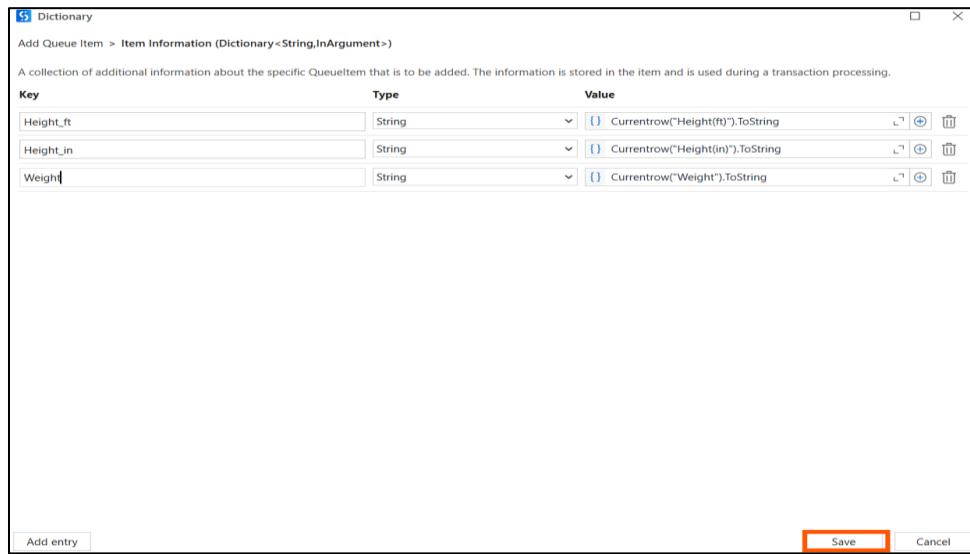
Write the details as shown



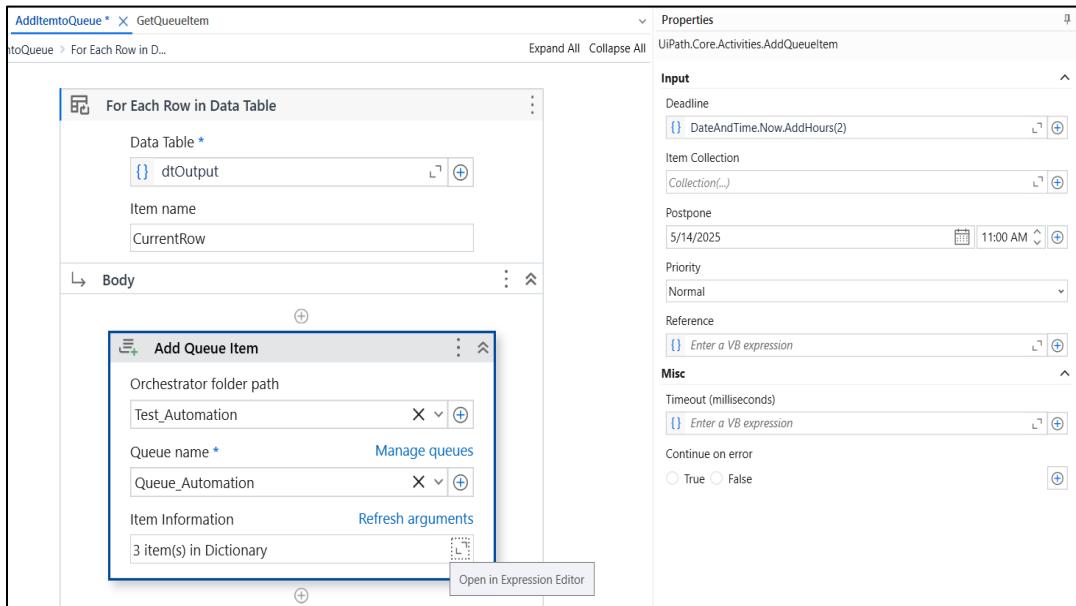
Select the Items as shown below



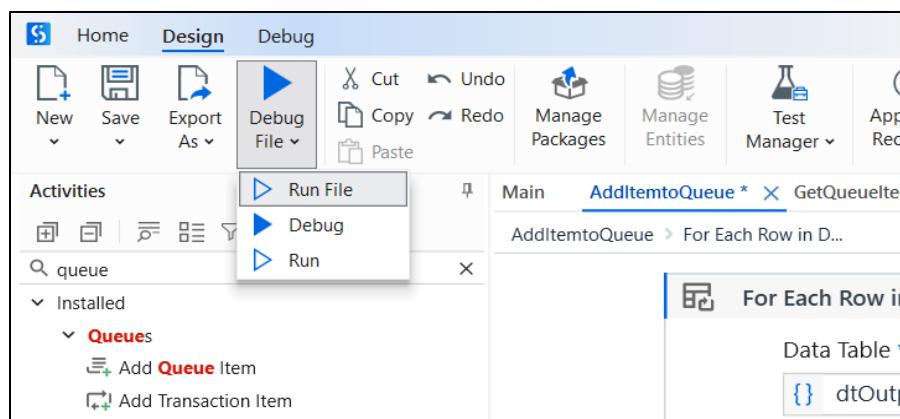
Select the Item and click on next



Write the details as shown in properties section



Click on run file



Queues

Search: Queue_Automation

Has Trigger: All ▾ Labels: All ▾ Properties: All ▾ Completed queue items re... ▾ Uncompleted queue items ... ▾

+ Add Queue ▾

Name	Description	In Progress	Remaining	Average ...	Successful	App Excep...	Biz Excep...	Process	Label
Queue_Automation		0	0	0	0	0	0	0	C

1 - 1 / 1

Page 1 / 1

⋮

Edit

Add Trigger

View Transactions

Monitor Queue

View Chart

Upload Items

Manage links

Remove

UpPath Orchestrator

Tenant

My Folders

Search

My Workspace

Shared

Test

Test_Automation

Test_Automation > Queues > Transactions: Queue_Automation

Search: Queue_Automation

Export

0 rows selected

Reference	Status	Revision	Priority	Deadline	Postpone	Started	Ended
	New	None	Normal	5/14/2025, 6:47...	5/14/2025, 5:30...		
	New	None	Normal	5/14/2025, 6:47...	5/14/2025, 5:30...		
	New	None	Normal	5/14/2025, 6:47...	5/14/2025, 5:30...		
	New	None	Normal	5/14/2025, 6:47...	5/14/2025, 5:30...		

1 - 4 / 4

Page 1 / 1

Items 25

Test_Automation > Queues > Transactions: Queue_Automation

Search: Queue_Automation

Export

0 rows selected

Reference	Status	Revision	Priority
	New	None	Normal
	New	None	Normal
	New	None	Normal
	New	None	No ⚡

1 - 4 / 4

Page 1 / 1

Items 25

e00ddb0b-ba5c-4820-a2de-733d9dfe1c5e

Details **Comments** **History**

Specific Data: Object
Height_ft: 5
Height_in: 2
Weight: 147

Output Data: Empty

Analytics Data: Empty

Recording: False

Stat...	Revi...	Dea...	Retr...	Post...	Starte...	Ende...	R...	Exce...	C
N...	N...	5...	0	5...					

1 - 25 / 0

Page 1

Items 25

Reference

Status

Revision

Priority

Deadline

Postpone

Started

Ended

	New	None	Normal	5/14/2025, 6:47...	5/14/2025, 5:30...		
	New	None	Normal	5/14/2025, 6:47...	5/14/2025, 5:30...		
	New	None	Normal	5/14/2025, 6:47...	5/14/2025, 5:30...		
	New	None	Normal	5/14/2025, 6:47...	5/14/2025, 5:30...		

1 - 4 / 4

Page 1 / 1

⋮

View Details

Edit

Open recording

Clone

In Review

Mark As Verified

Assign Reviewer

Retry Item

Remove

View creator job

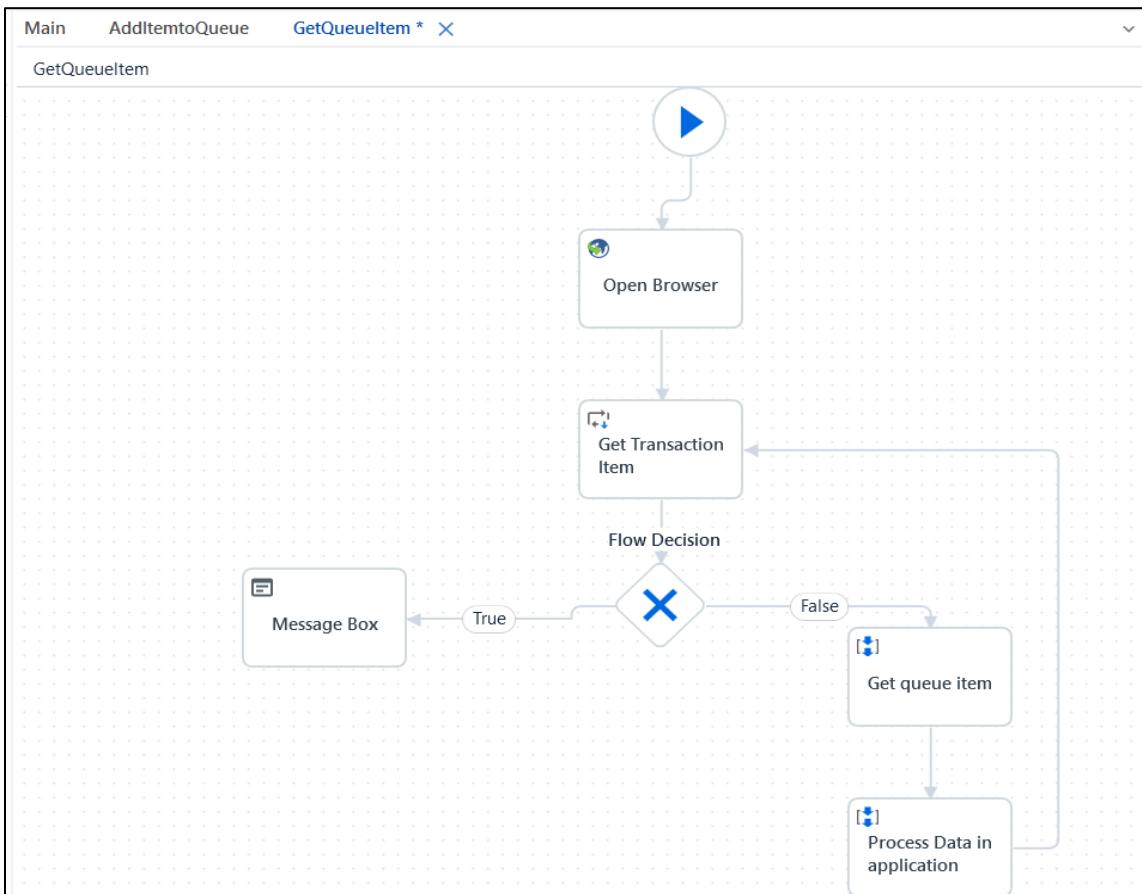
ii. Get Queue item from Orchestrator

Here we will get Queue item from Orchestrator Queue, then we will process the Queue items as required in application

The screenshot shows the UiPath Orchestrator interface. On the left, there's a sidebar with 'Tenant' selected, followed by 'My Folders' (My Workspace, Shared, Test), and 'Test_Automation' which is highlighted with a blue selection bar. The main area displays a table titled 'Transactions: Queue_Automation'. The table has columns: Reference, Status, Revision, Priority, Deadline, Postpone, Started, and Ended. There are four rows listed, all of which are 'New' status and 'Normal' priority. The table includes a search bar at the top and pagination at the bottom.

The screenshot shows a web browser window with multiple tabs open. The active tab is 'calculatestuff.com/healthy/bmi-calculator'. The page title is 'Body Mass Index (BMI) Calculator'. It features a form where height is entered as 5 ft and 10 in, and weight as 150.00 lbs. A 'Calculate' button is present. To the right of the form is a large graphic showing a vertical stack of colored segments representing BMI ranges: red (Obese, 30+), orange (Overweight, 25 to 29.9), green (Normal, 18.5 to 24.9), and blue (Underweight, 0 to 18.4). Above the graphic, the text 'Your BMI is 21.5 (Normal)' is displayed. The browser's address bar shows the URL 'calculatestuff.com/healthy/bmi-calculator'. The status bar at the bottom of the browser indicates 'UiPath Browser Automation 24.10* started debugging this browser'.

Create a flow chart as shown below

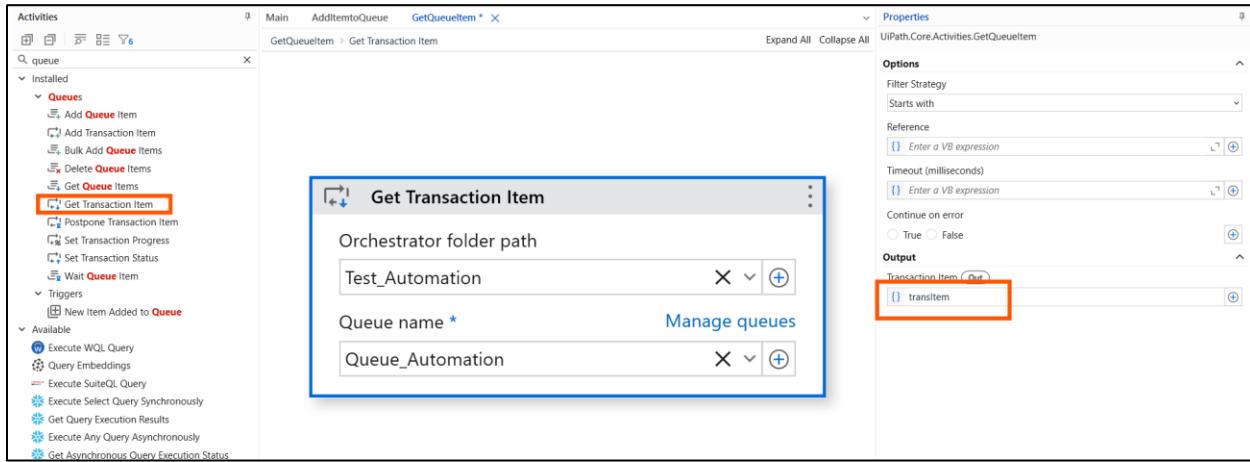


<https://www.calculatestuff.com/health/bmi-calculator>

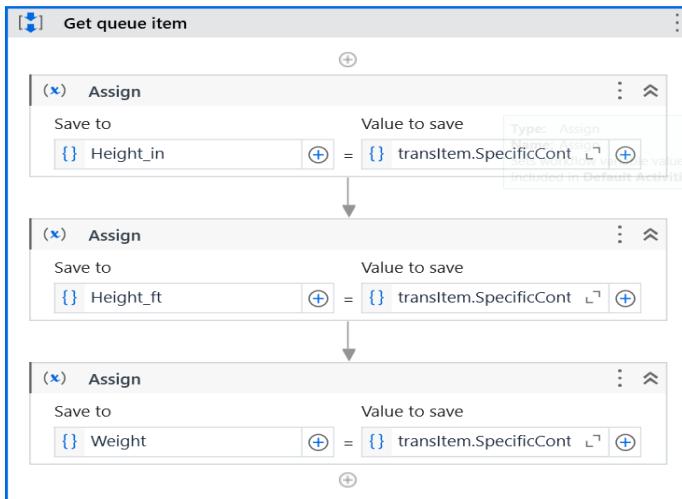
In Open Browser write the details as shown in properties section

Properties	
UiPath.Core.Activities.OpenBrowser	
Common	
ContinueOnError	Specifies to continue
DisplayName	Open Browser
Input	
BrowserType	BrowserType.Chrome
Url	"https://www.calculates...
Misc	
Private	<input type="checkbox"/>
Options	
AutomaticallyDownloadWebDriver	Automatically download
CommunicationMethod	Choose the communicat...
Hidden	Open a hidden brow...
NewSession	Starts a new session
Private	Open a private/incognito...
UserDataFolderPath	The UserDataFolderMod...
UserDataFolderPath	The user data folder tha...
Output	
UiBrowser	The result of the activity as c...

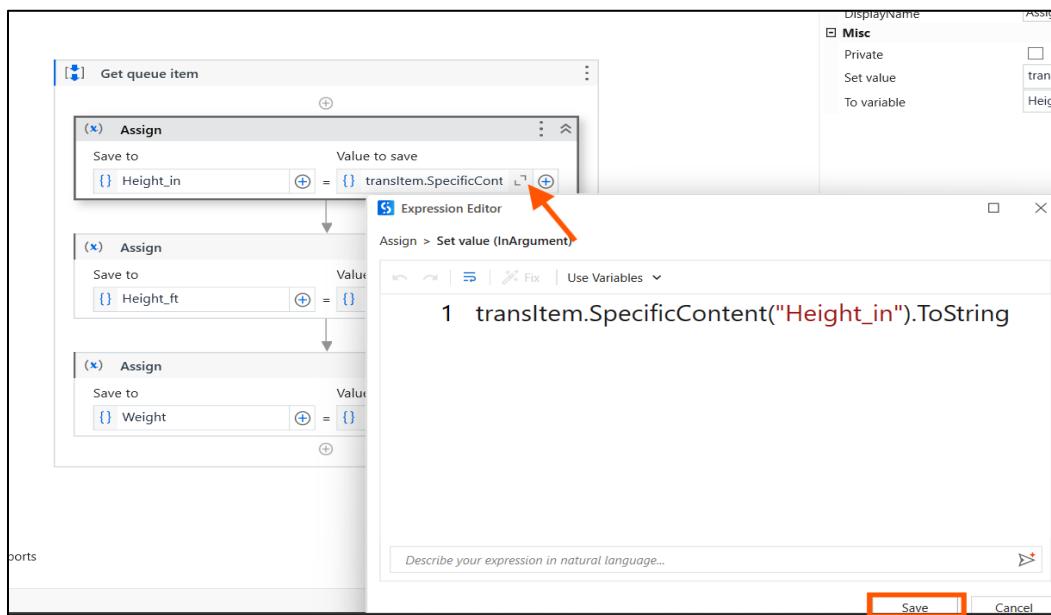
In Get Transaction Item Activity write the details as shown in properties section



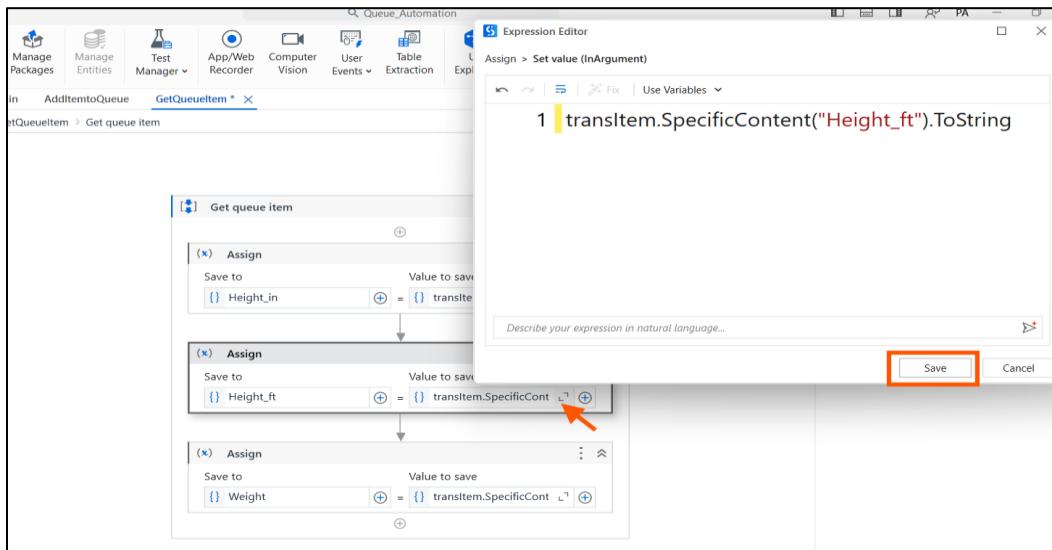
Inside Get Queue Item Activity Create variables and wrre the equations as shown



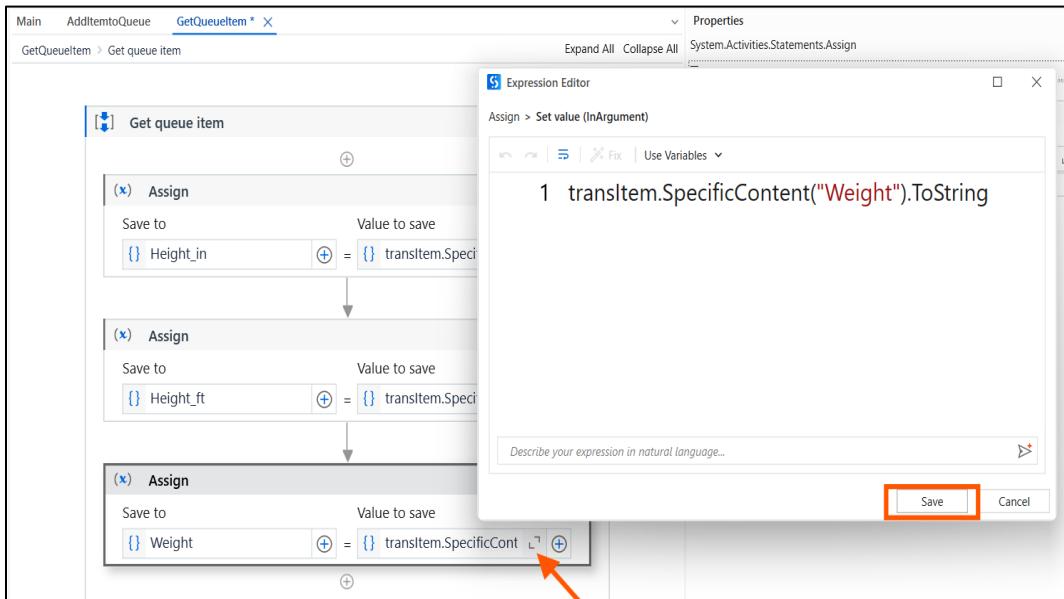
For Height_in



For Height_ft



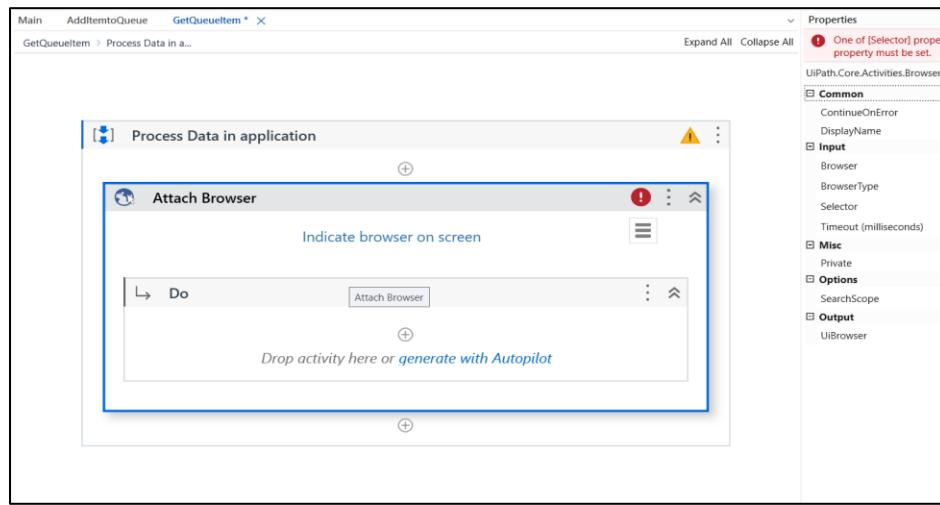
For Weight



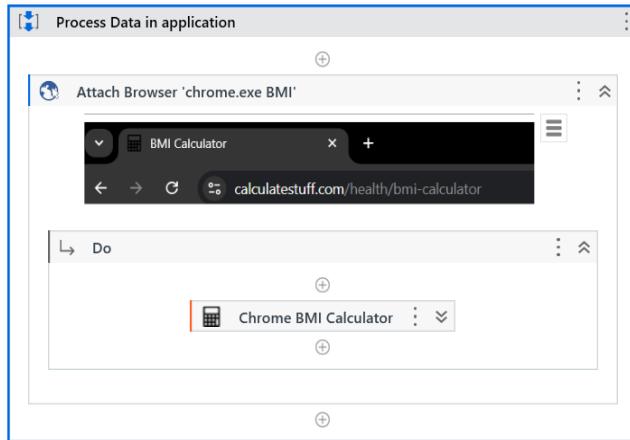
Created Variables

Name	Variable type	Scope	Default
translitem	QueueItem	GetQueueItem	Enter a VB expression
Height_in	String	GetQueueItem	Enter a VB expression
Height_ft	String	GetQueueItem	Enter a VB expression
Weight	String	GetQueueItem	Enter a VB expression
Create Variable			

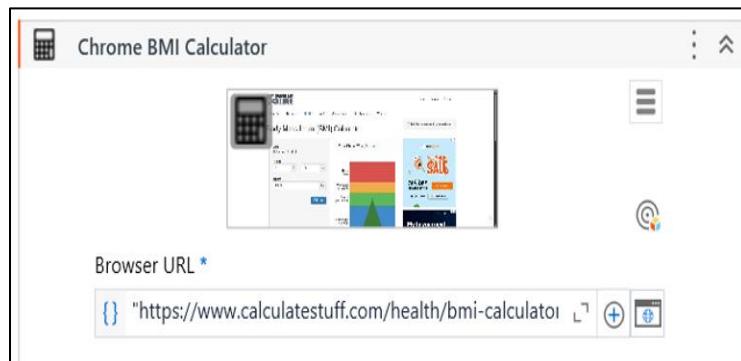
Inside Process Data in application Activity drag and drop Attach Browser Activity



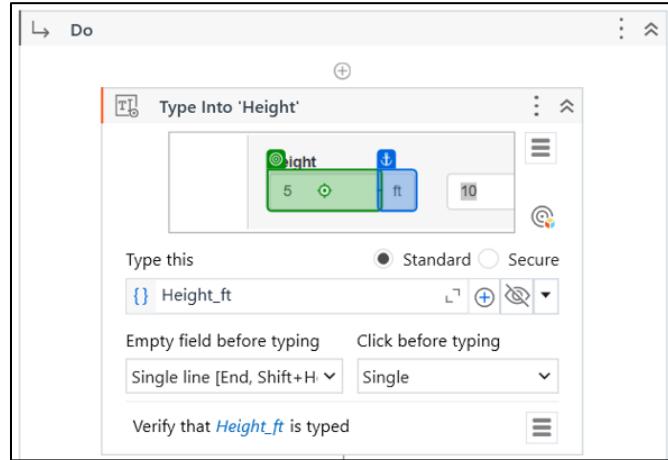
Inside Attach Browser Indicated the application as shown and inside Do condition add Chrome BMI Calculator



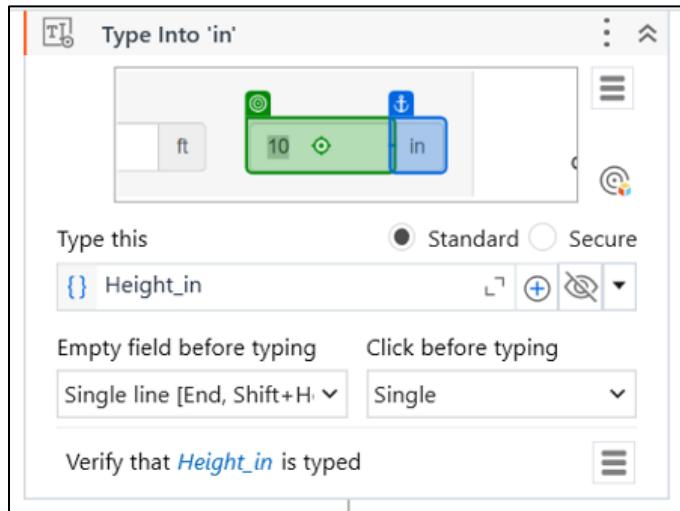
Inside Calculator indicate the website and the path will automatically get filled



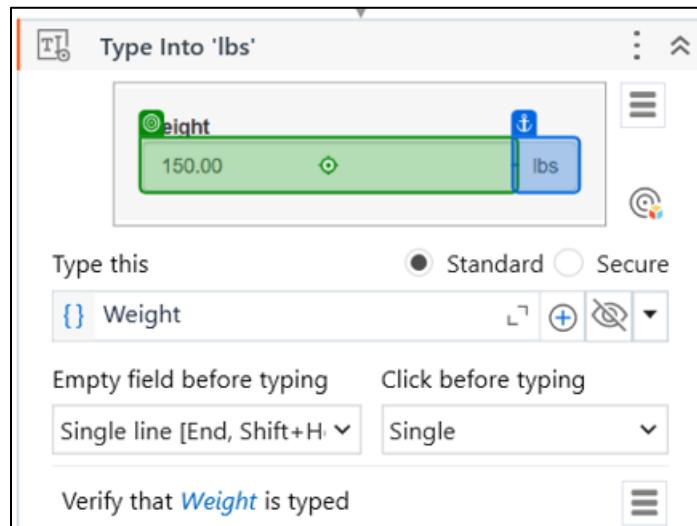
Inside Do add Type Into and indicated screen and fill the details as shown



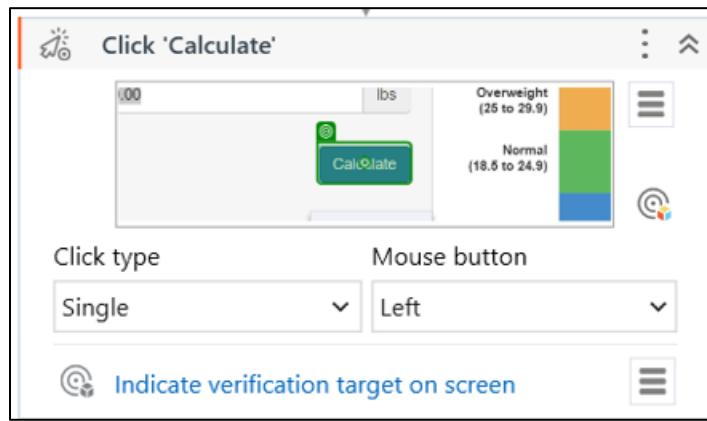
Add TypeInto for
Height_in,



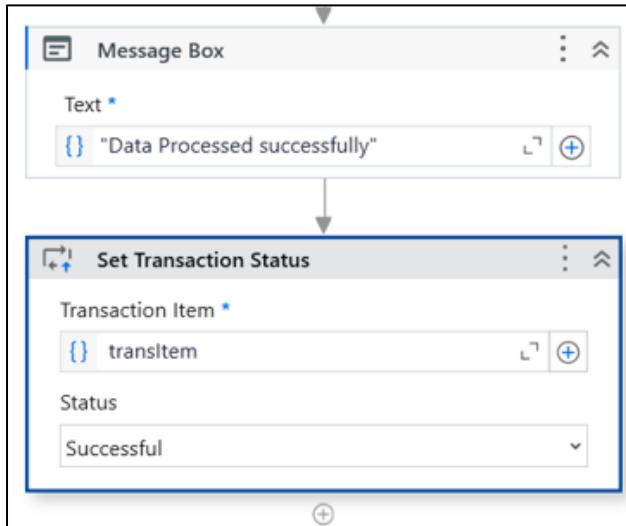
Weight



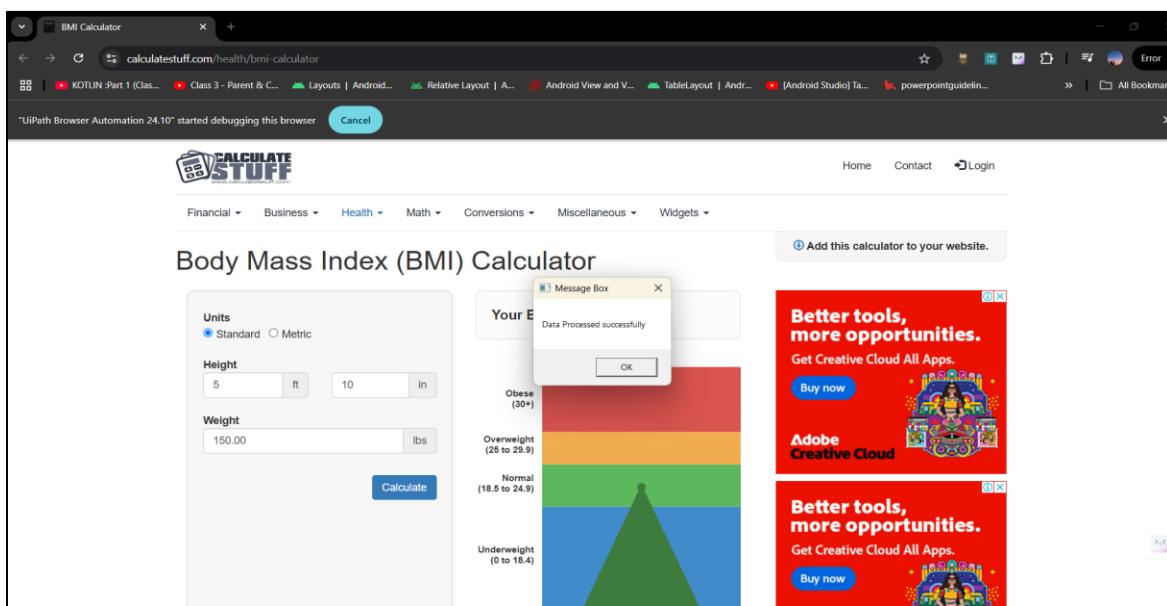
Add Click and indicate the calculate area to get the output



Drag and drop Message box and Set Transaction Status Activity and fill the details



Output:



"UiPath Browser Automation 24.10" started debugging this browser Cancel

UiPath Orchestrator

Test_Automation > Queues > Transactions: Queue_Automation

Search Export

0 rows selected

Reference	Status	Deadline	Postpone	Started	Ended
1	In Progress	5/14/2025, 6:47...	5/14/2025, 5:30...	24 seconds ago	
2	Successful	5/14/2025, 6:47...	5/14/2025, 5:30...	53 seconds ago	24 seconds ago
3	Successful	5/14/2025, 6:47...	5/14/2025, 5:30...	1 minute ago	54 seconds ago
4	In Progress	5/14/2025, 6:47...	5/14/2025, 5:30...	6 minutes ago	

1 - 4 / 4 Page 1 / 1 Items 25

Message Box
Task is over no queue item is left
OK

UiPath Orchestrator

Test_Automation > Queues > Transactions: Queue_Automation

Search Export

0 rows selected

Reference	Status	Revision	Priority	Deadline	Postpone	Started	Ended
1	Successful	None	Normal	5/14/2025, 8:21...	5/14/2025, 5:30...	42 seconds ago	14 seconds ago
2	Successful	None	Normal	5/14/2025, 8:21...	5/14/2025, 5:30...	1 minute ago	43 seconds ago
3	Successful	None	Normal	5/14/2025, 8:21...	5/14/2025, 5:30...	2 minutes ago	1 minute ago
4	Successful	None	Normal	5/14/2025, 8:21...	5/14/2025, 5:30...	2 minutes ago	2 minutes ago