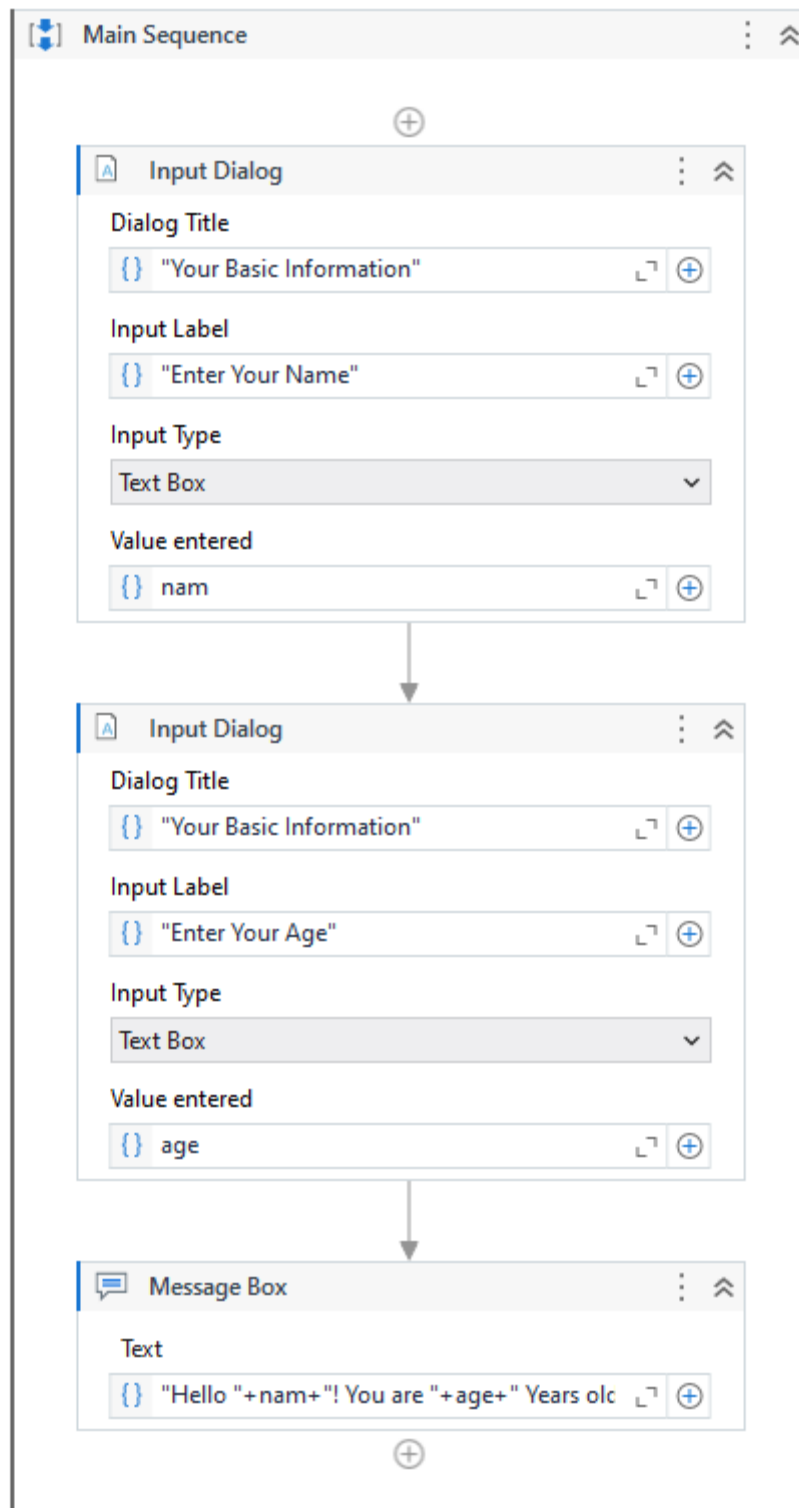
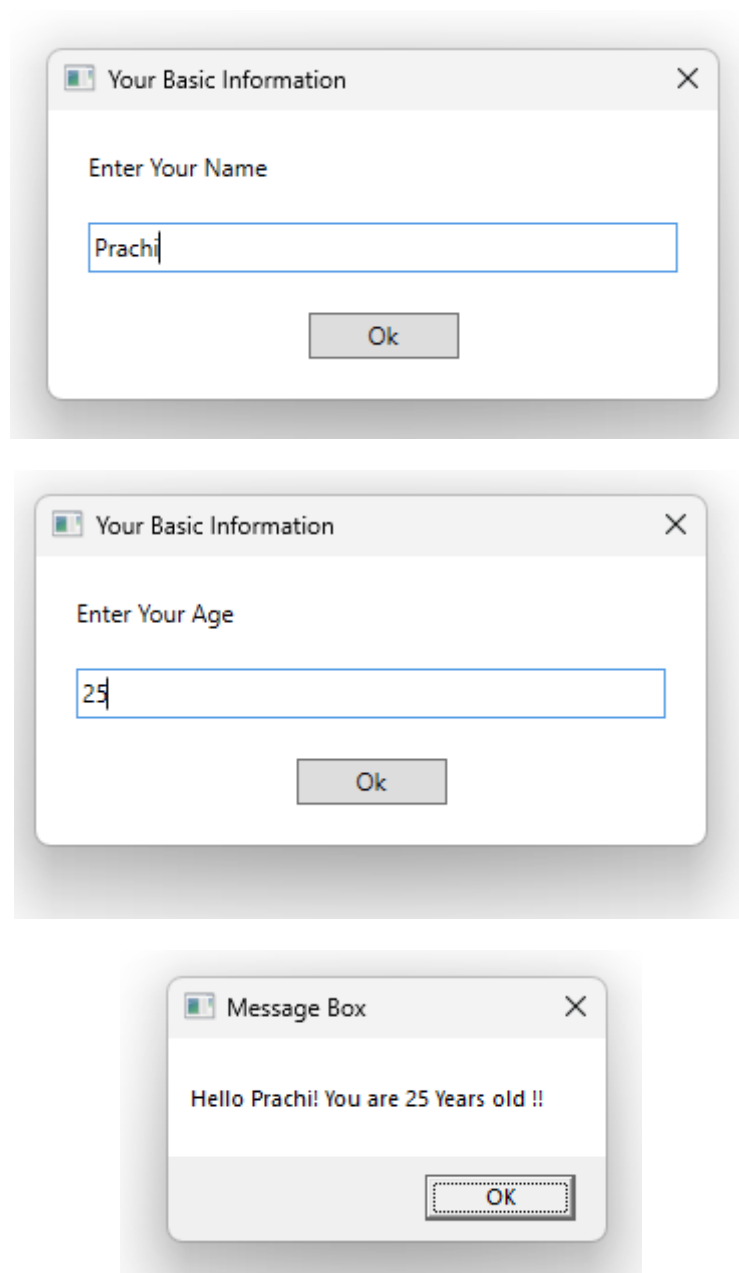


# Practical I

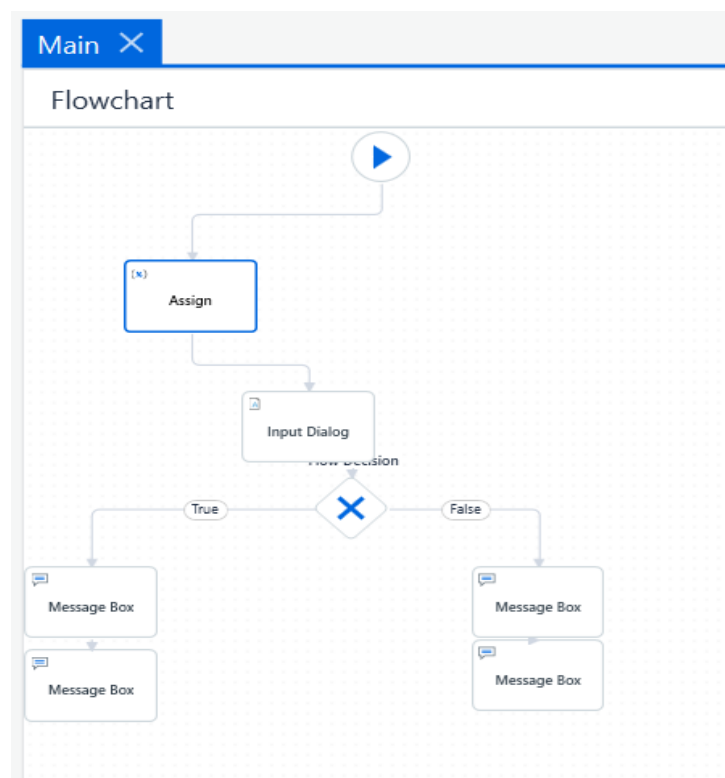
A) Create a simple sequence-based project.



## Output:



**B)** Create a flowchart-based project.



Main X

Flowchart > Input Dialog

Restore Collapse All

**Input Dialog**

Dialog Title

{ } "Enter the number" L<sup>1</sup> +

Input Label

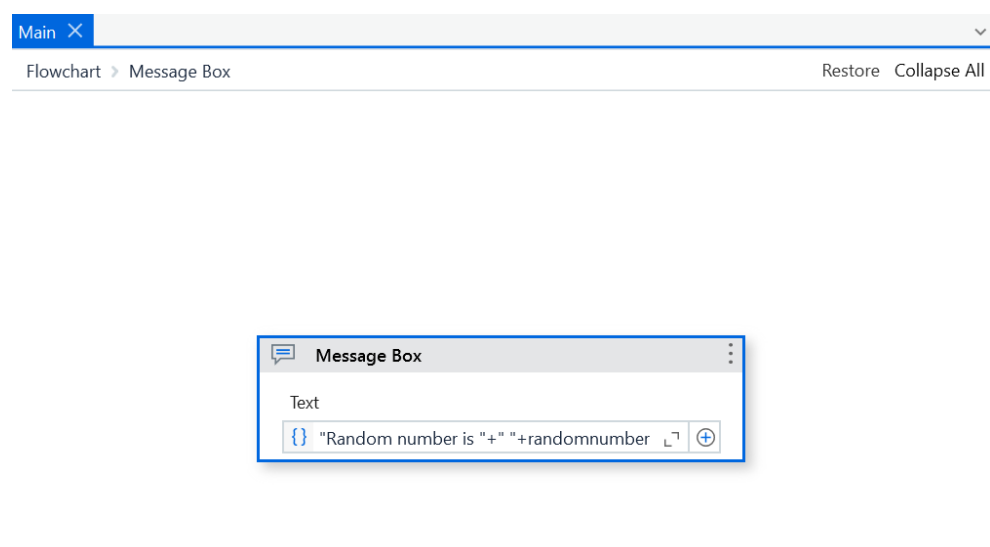
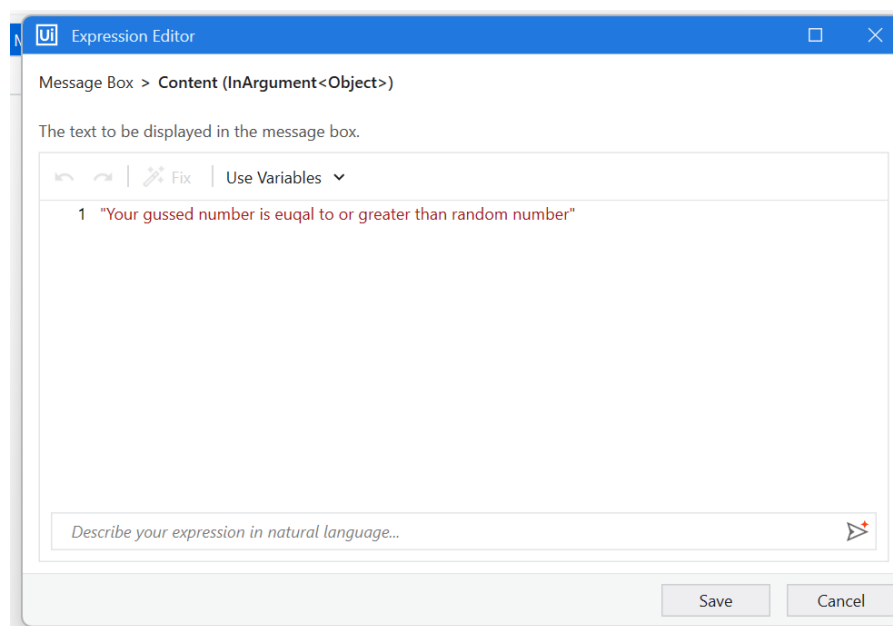
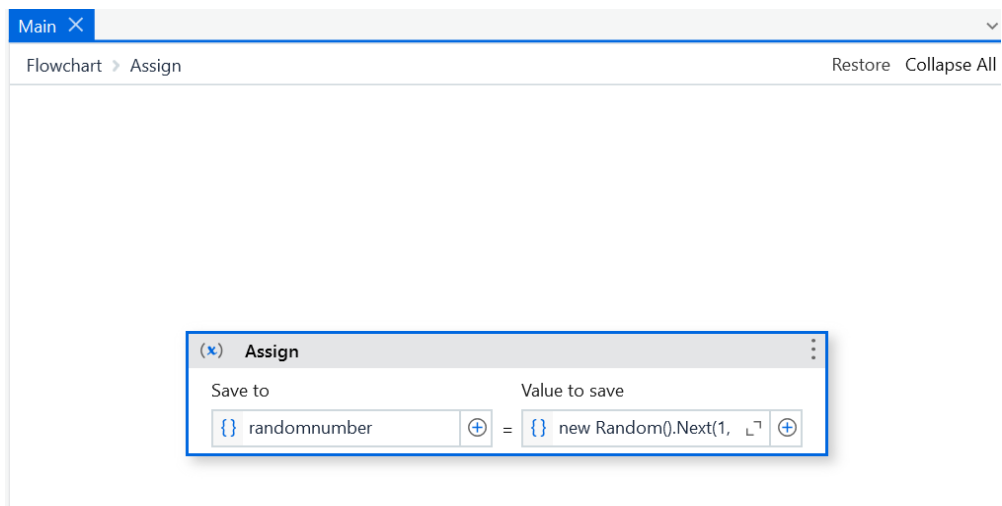
{ } "Guess any number between 1 to 10" L<sup>1</sup> +

Input Type

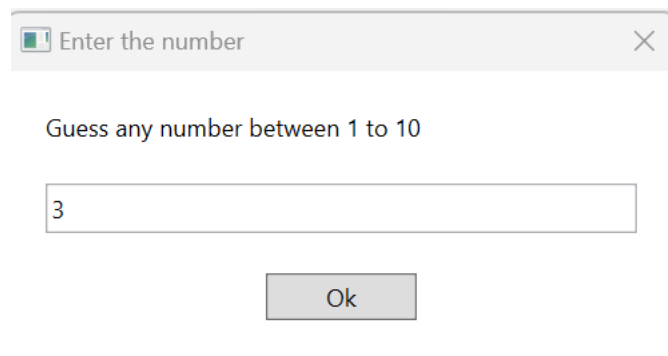
Text Box v

Value entered

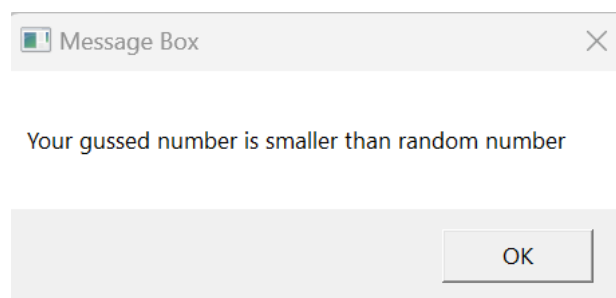
{ } guessnumber +



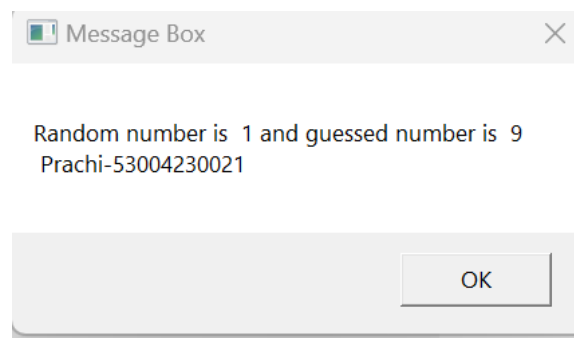
## Output:



A screenshot of a Windows dialog box titled "Enter the number". The dialog box has a close button (X) in the top right corner. The text inside the dialog box says "Guess any number between 1 to 10". Below the text is a text input field containing the number "3". At the bottom center of the dialog box is an "Ok" button.

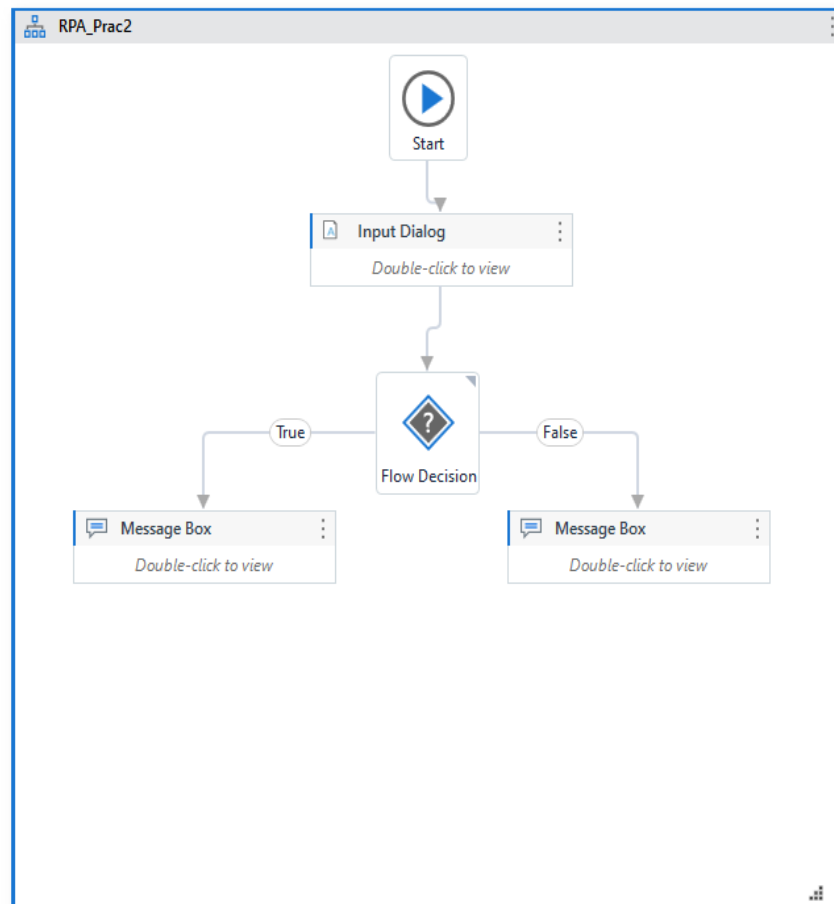


A screenshot of a Windows Message Box titled "Message Box". The message box has a close button (X) in the top right corner. The text inside the message box says "Your gussed number is smaller than random number". At the bottom right of the message box is an "OK" button.

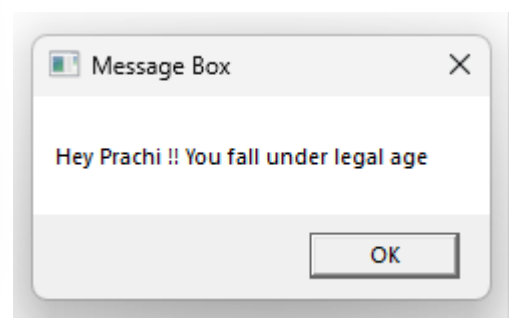
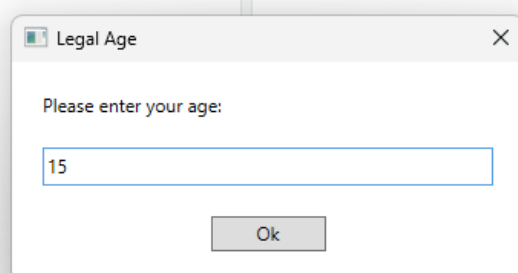


A screenshot of a Windows Message Box titled "Message Box". The message box has a close button (X) in the top right corner. The text inside the message box says "Random number is 1 and guessed number is 9" and "Prachi-53004230021". At the bottom right of the message box is an "OK" button.

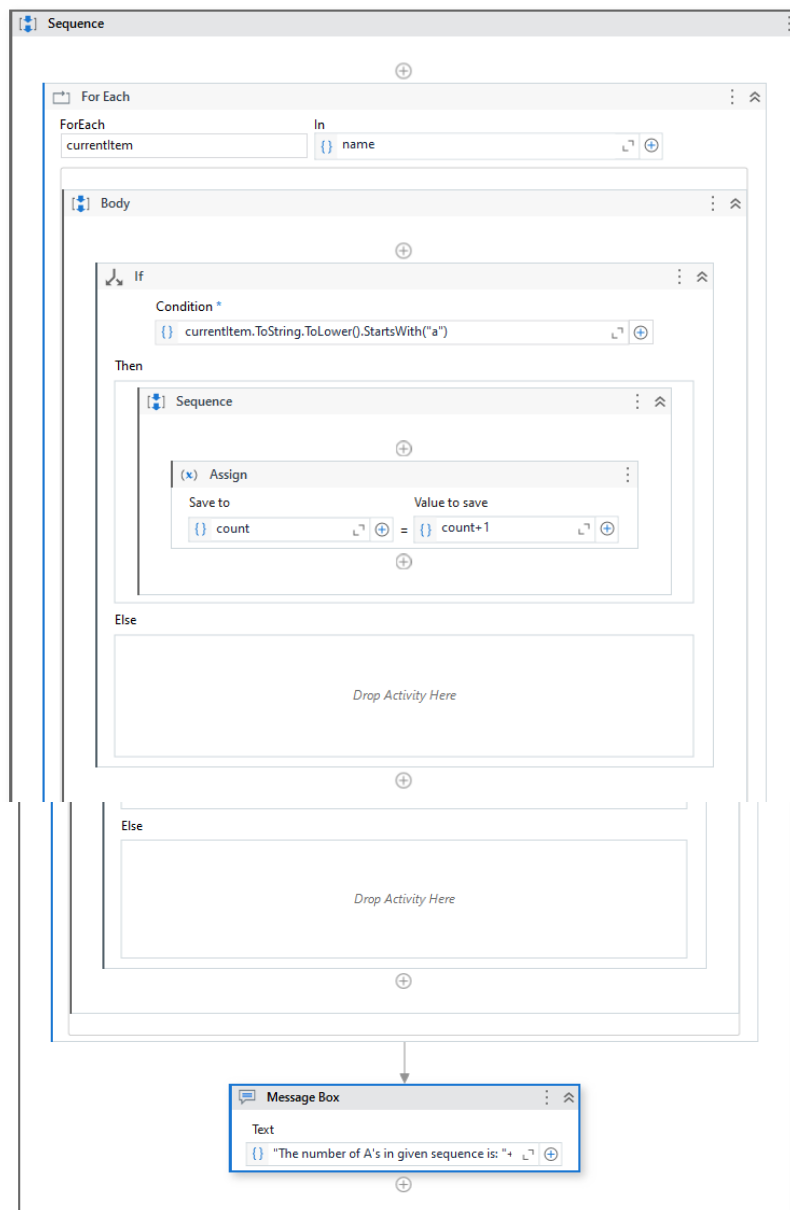
C) Create an automation UiPath Project using decision statements.



**Output:**



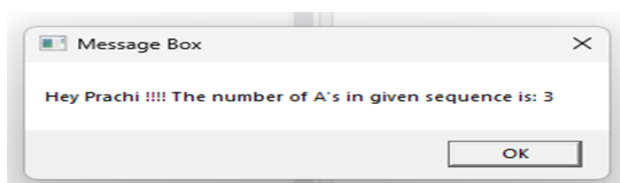
**D.)** Consider an array of names. We have to find out how many of them start with the letter "a". Create an automation where the number of names starting with "a" is counted and the result is displayed.



Name	Variable type	Scope	Default
name	String[]	Sequence	{"Anjali", "America", "Prachi", "Anju", "Mansi"}
count	Int32	Sequence	0

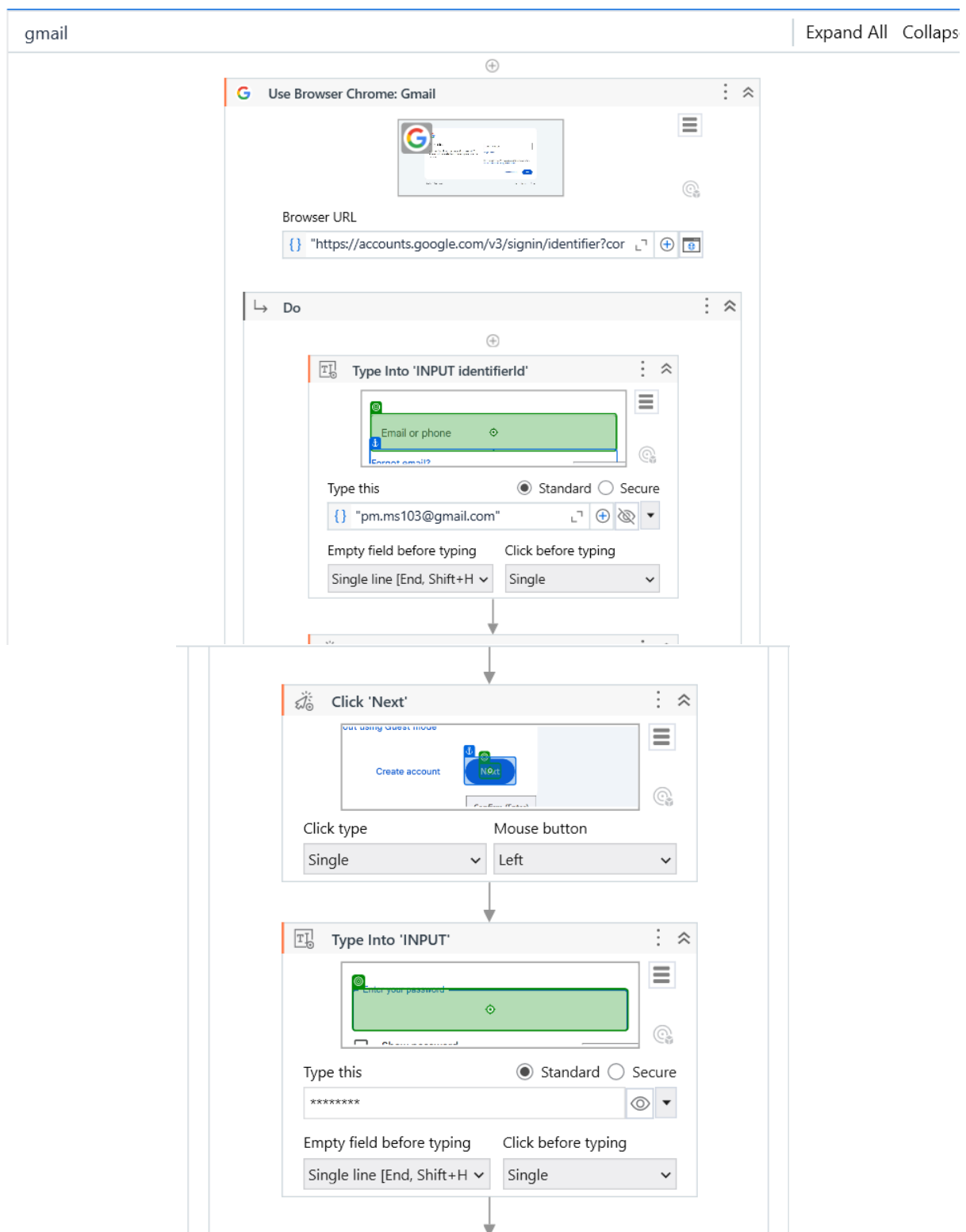
Create Variable

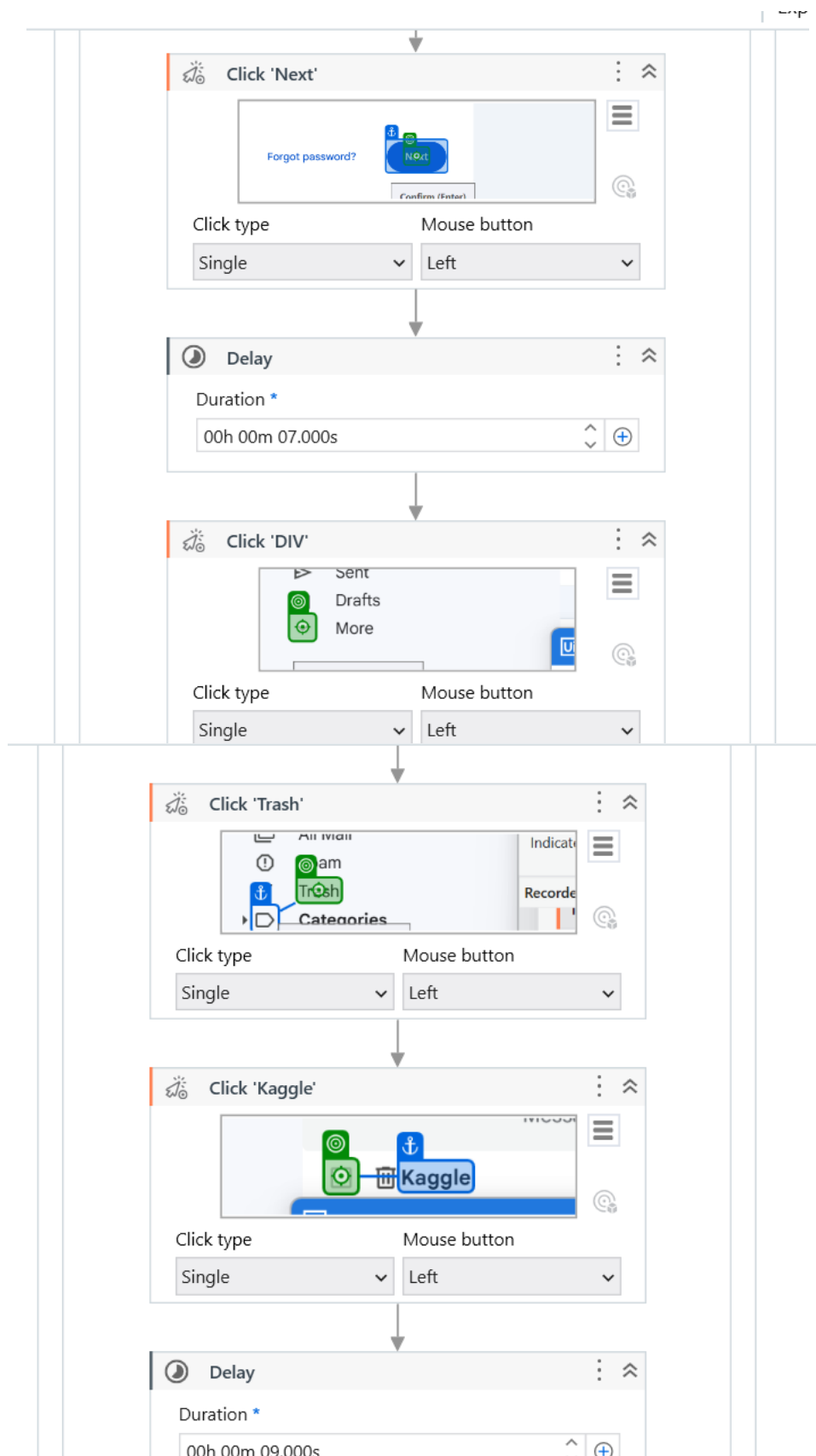
**Output:**

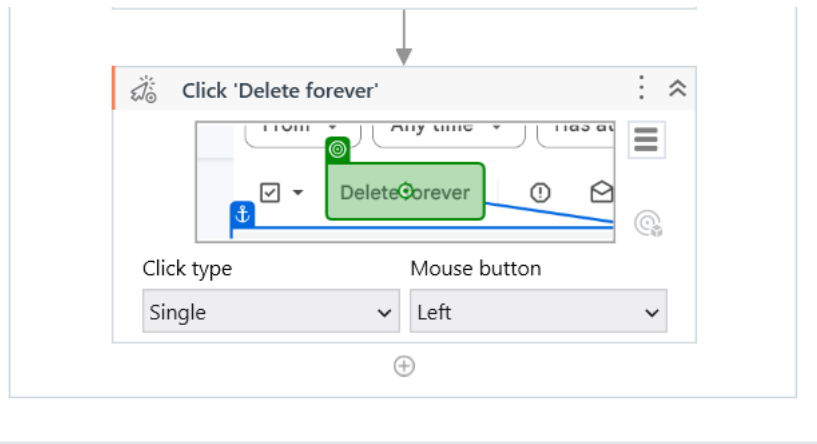




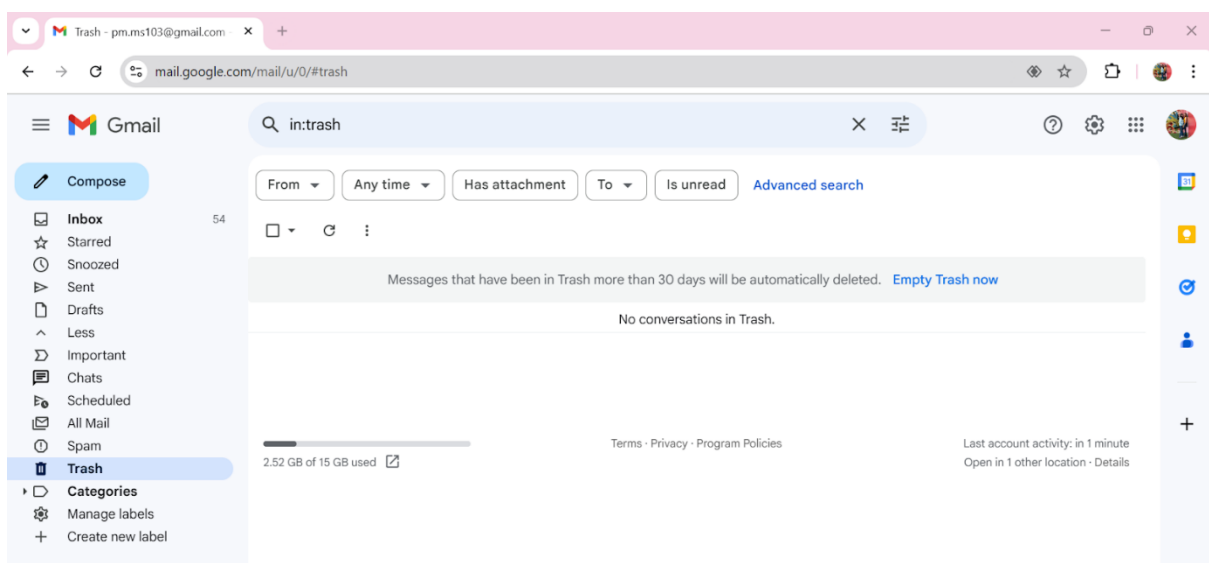
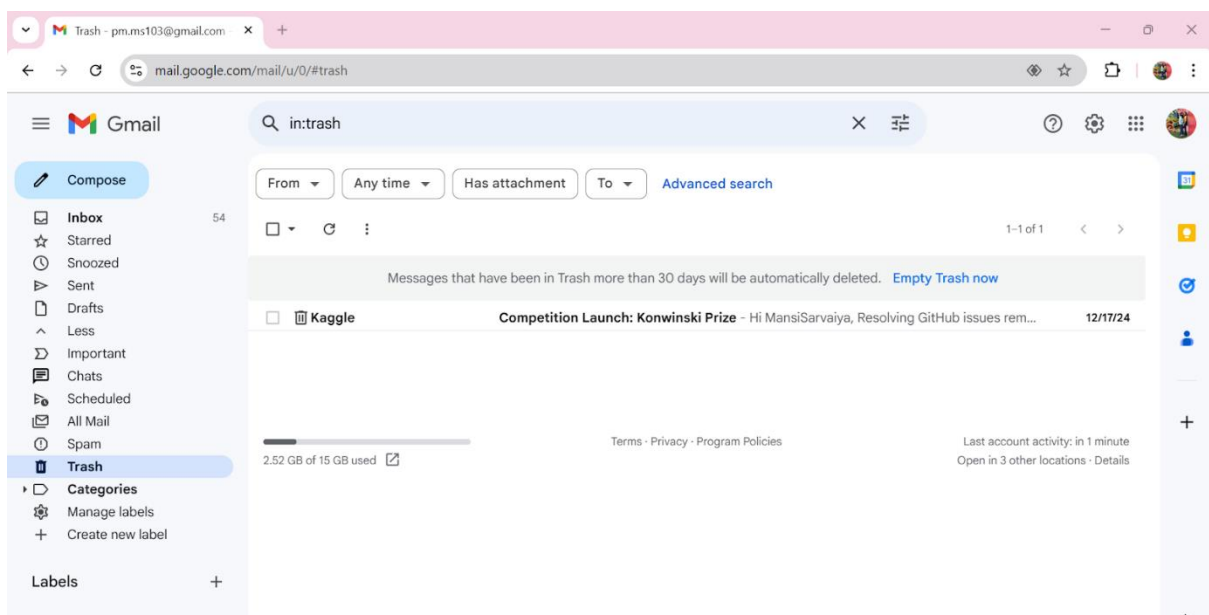
**E.)** Create an UiPath Robot which can empty a folder in Gmail solely on basis of recording.



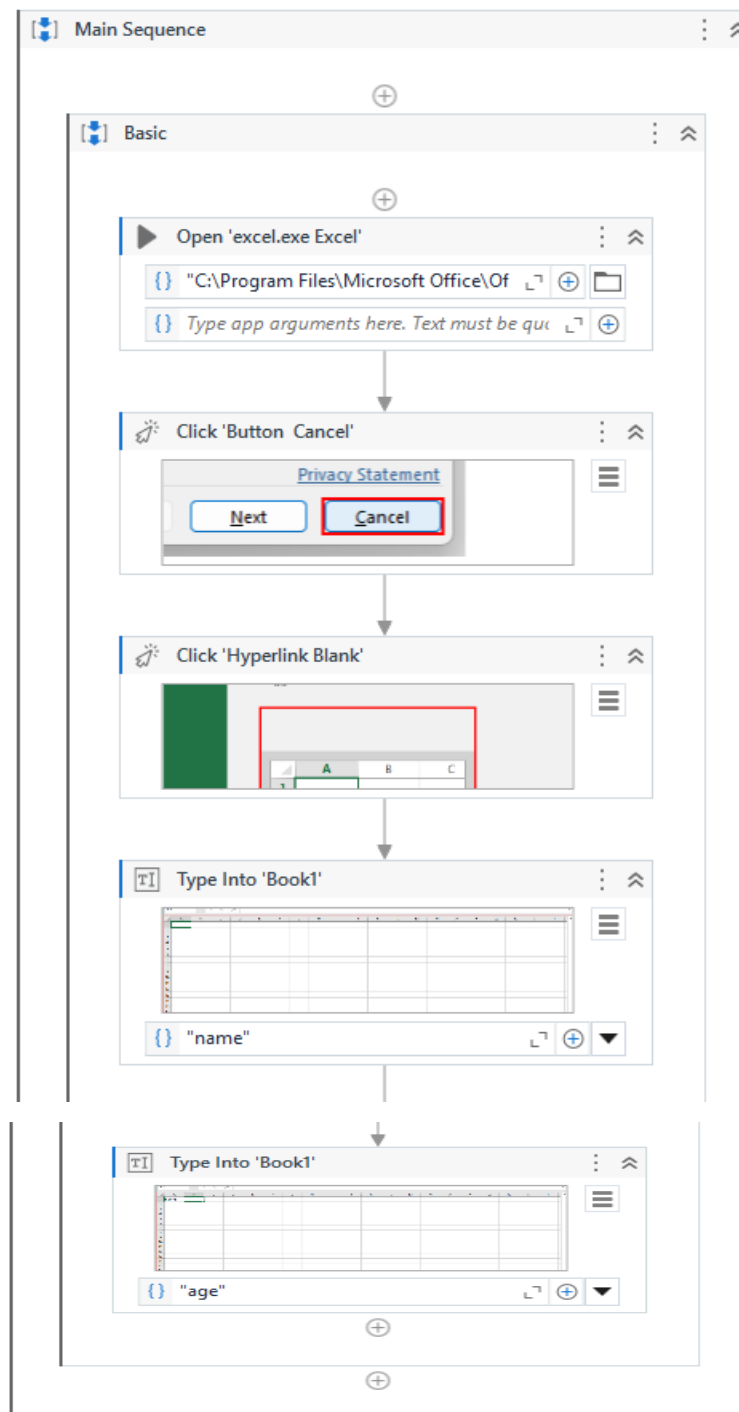




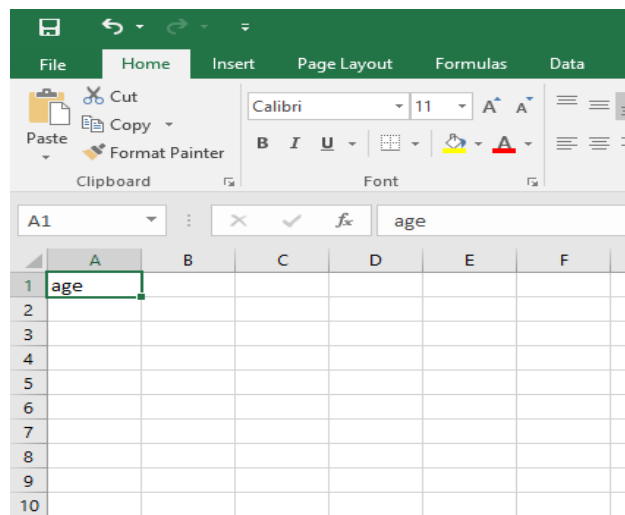
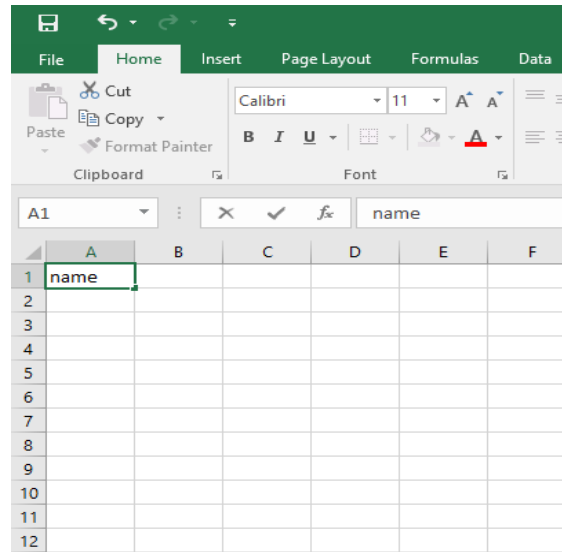
## Output:



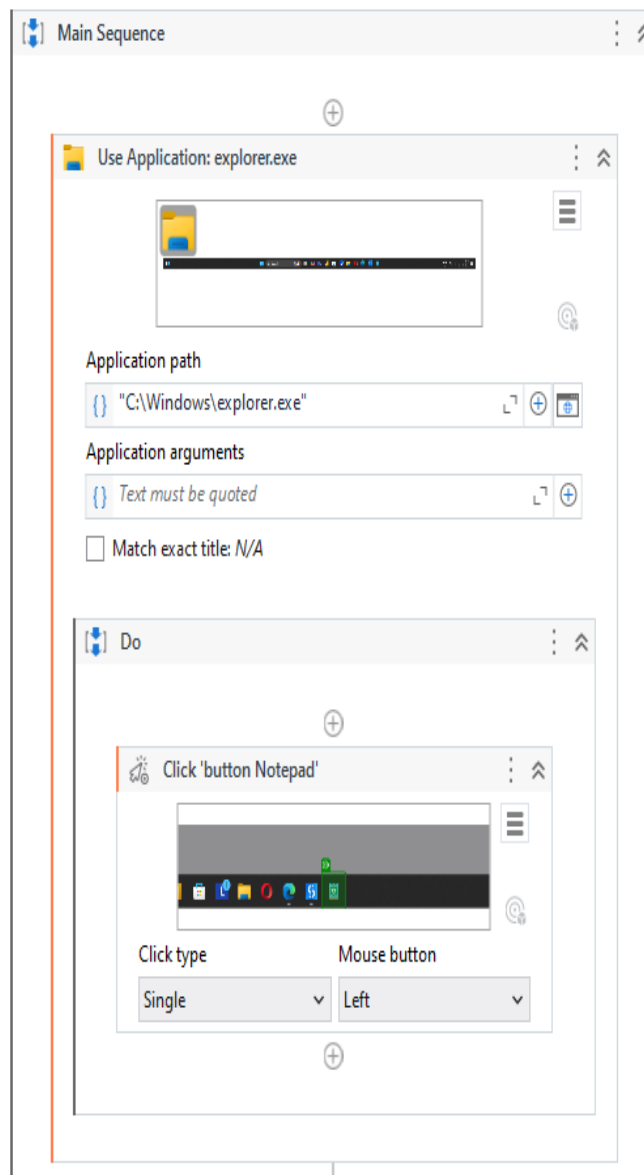
**F.)** Automate any process using basic recording.

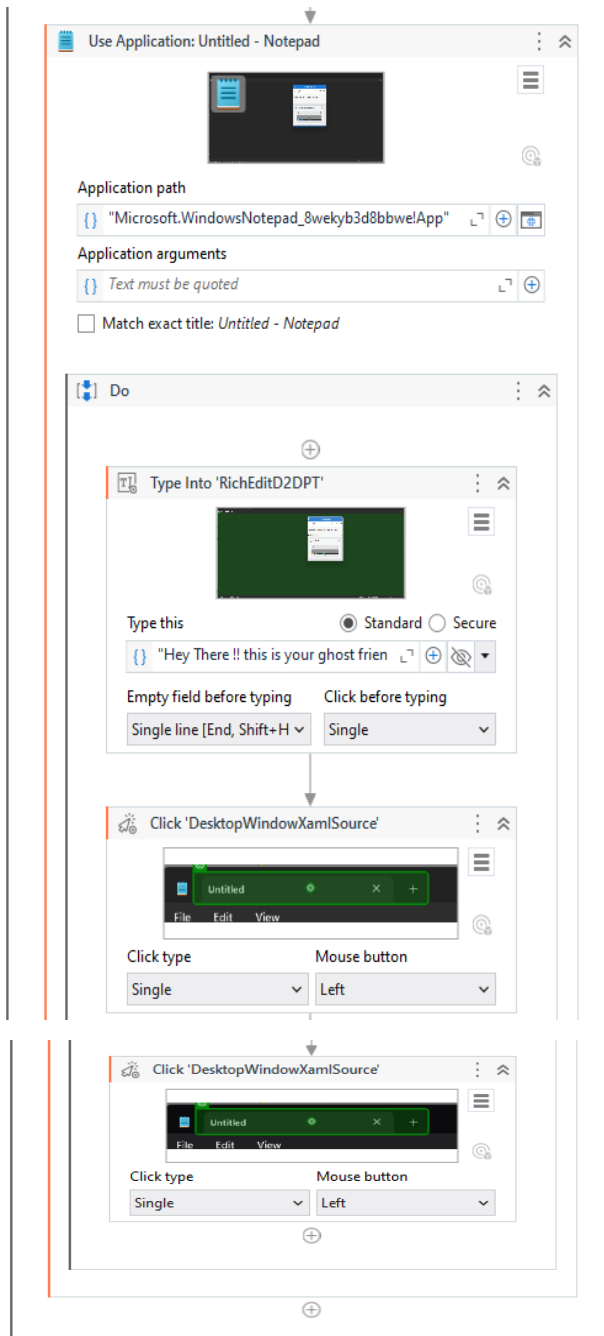


## Output:

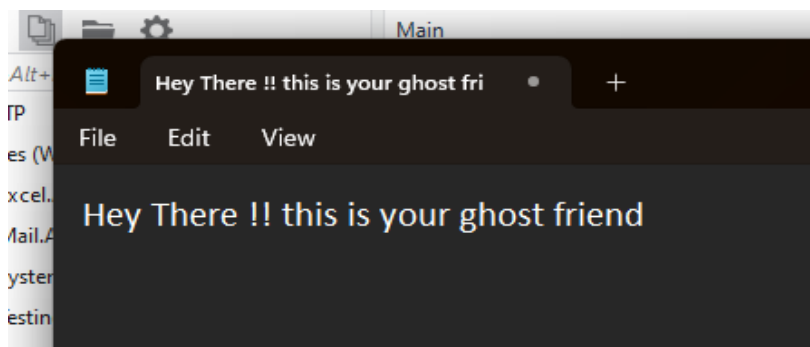


**G.)** Automate any process using desktop recording.

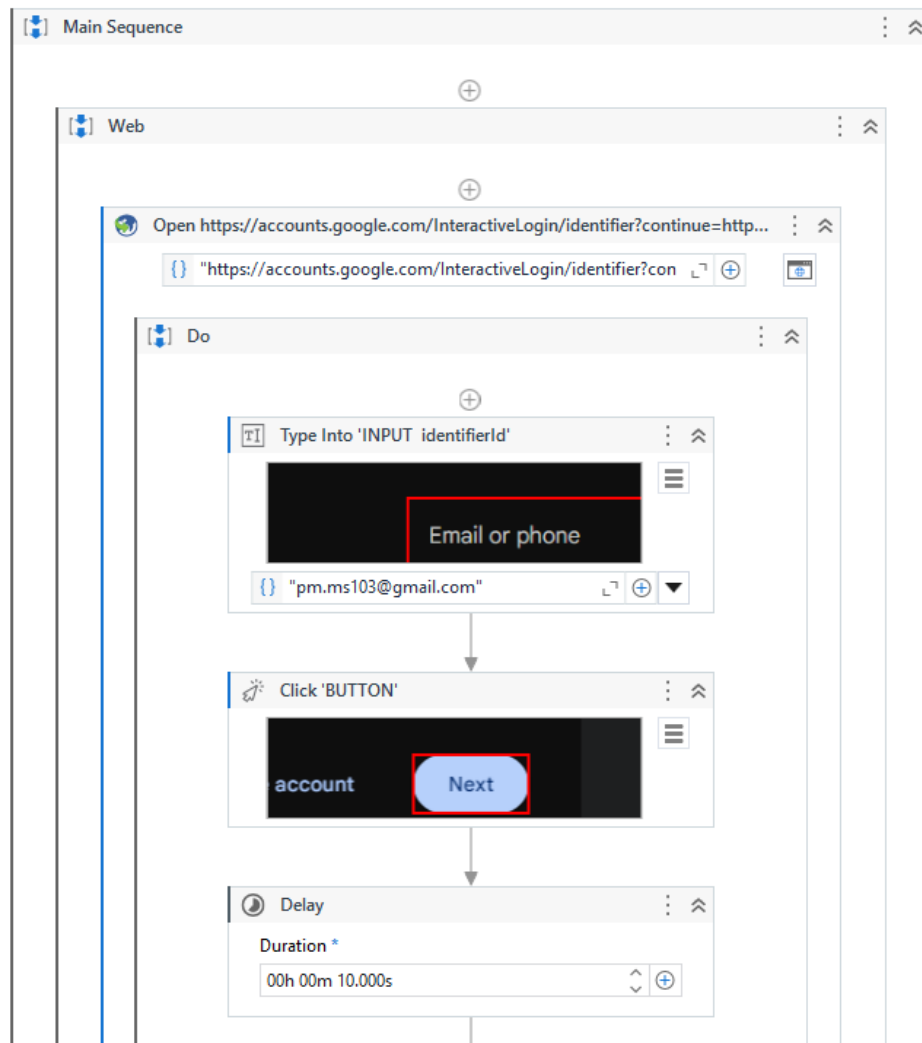




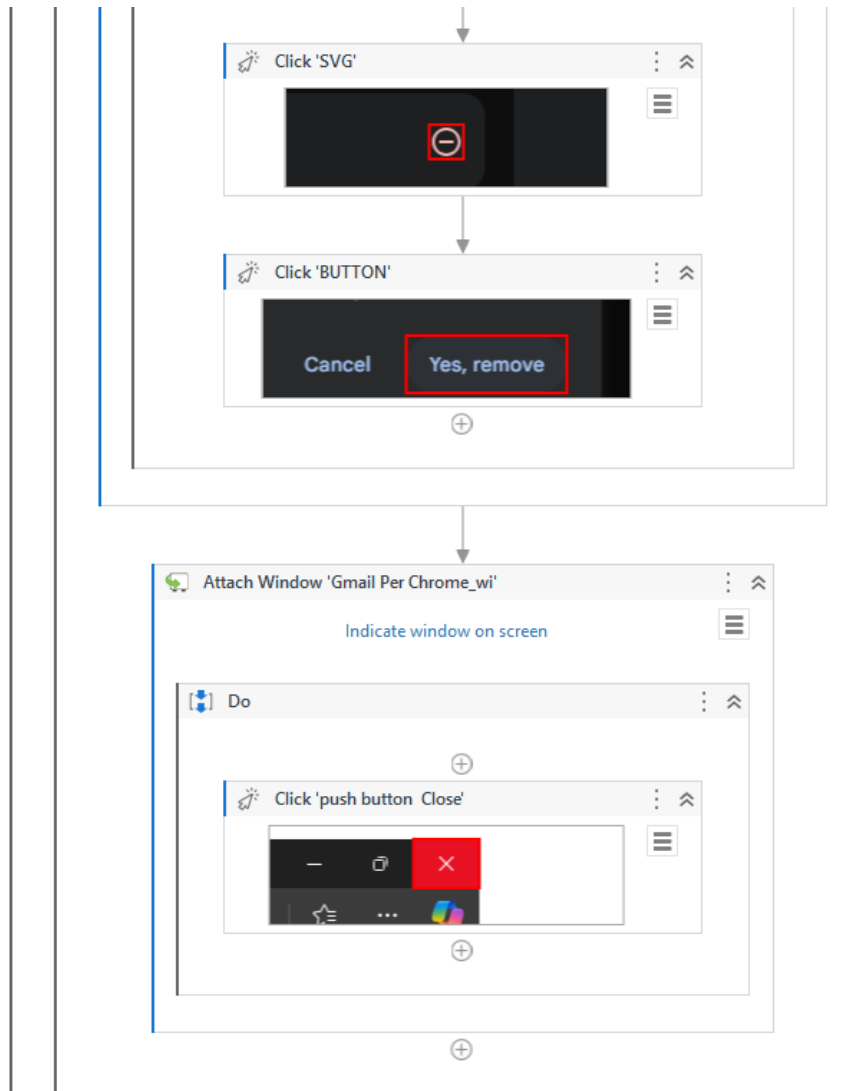
**Output:**



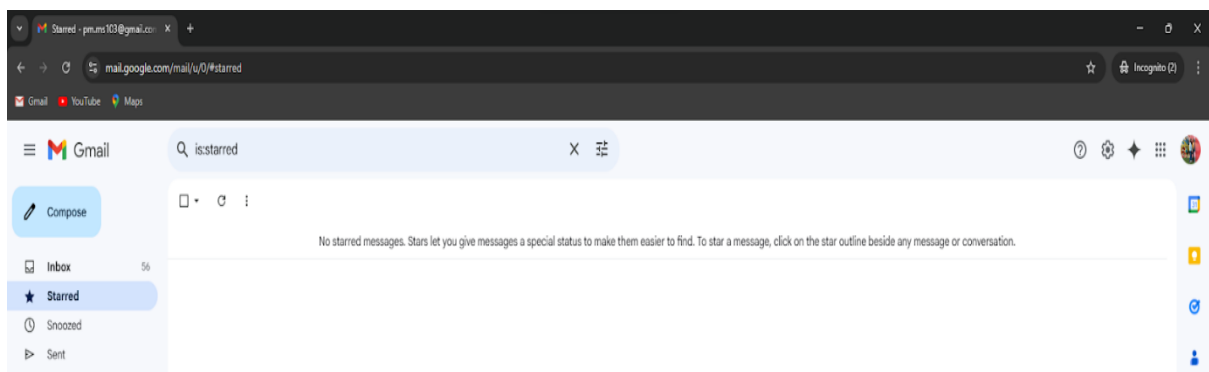
## H.) Automate any process using web recording.





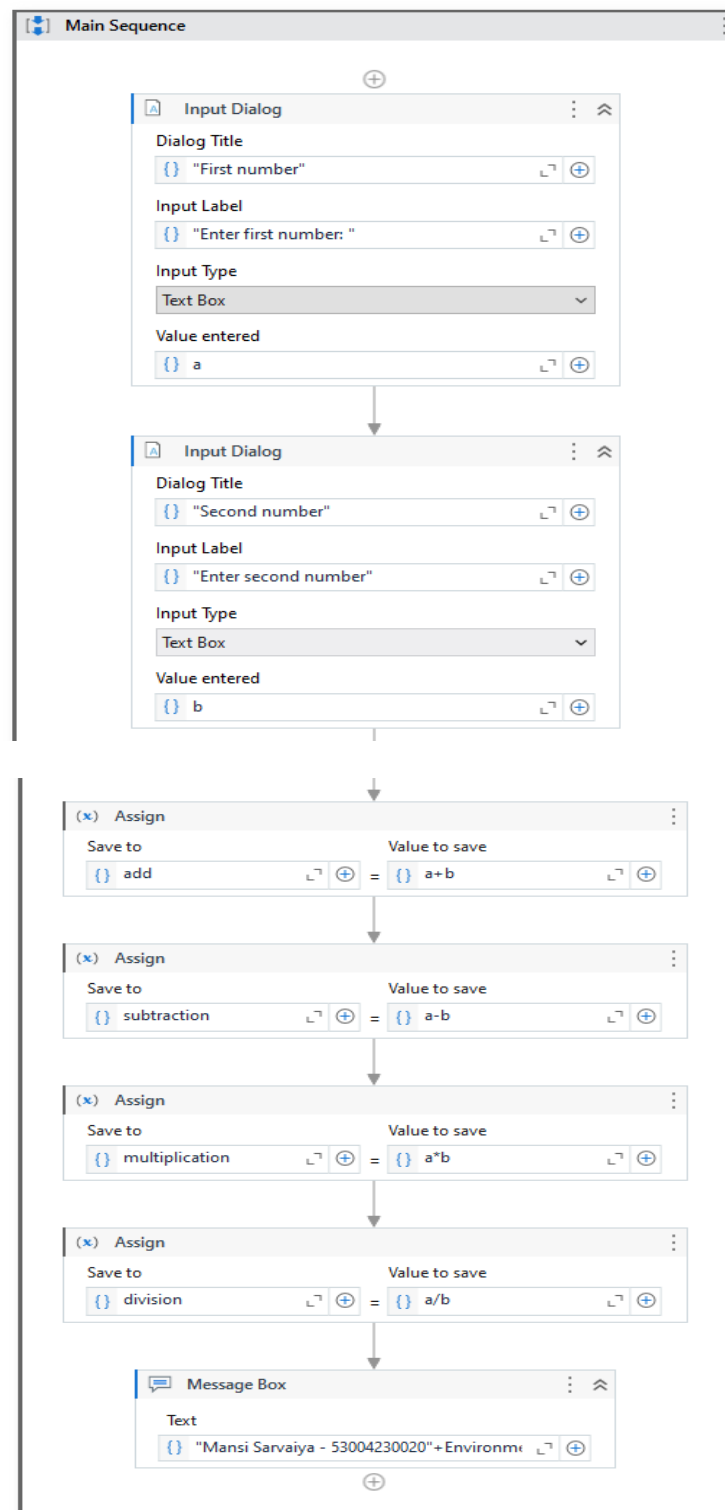


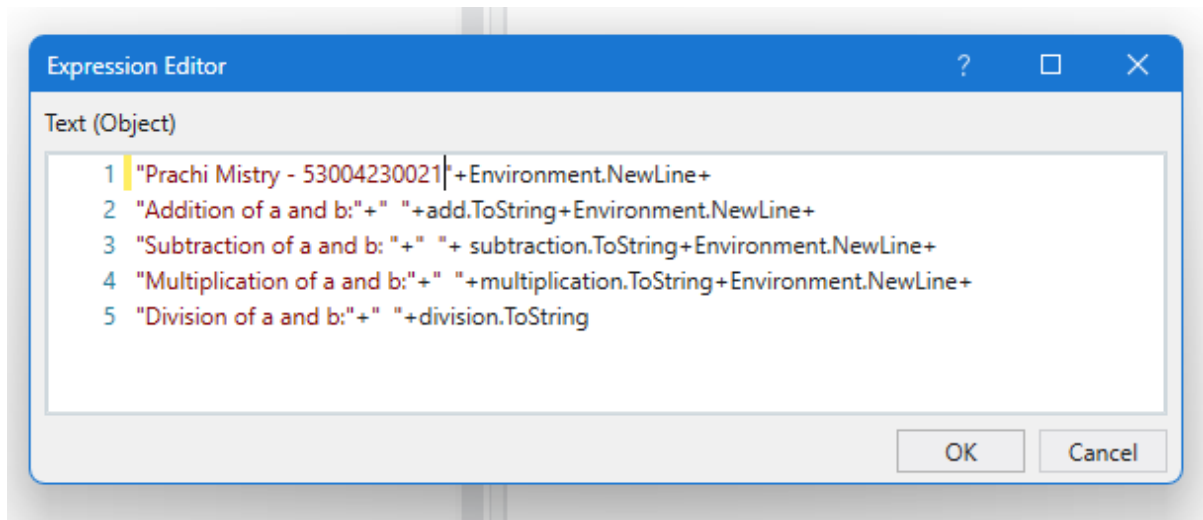
## Output:



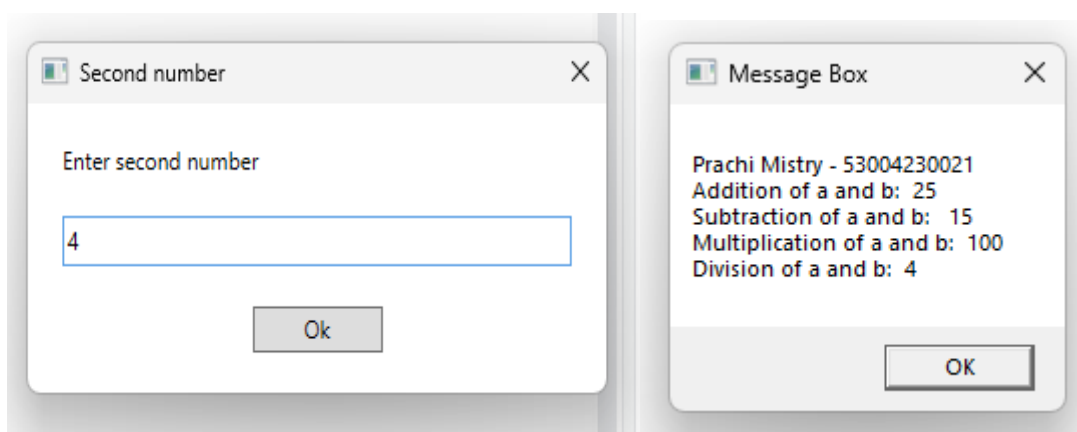
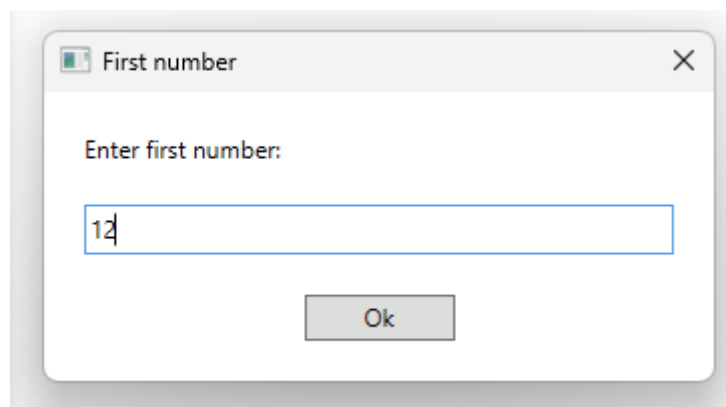
## **Practical II**

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



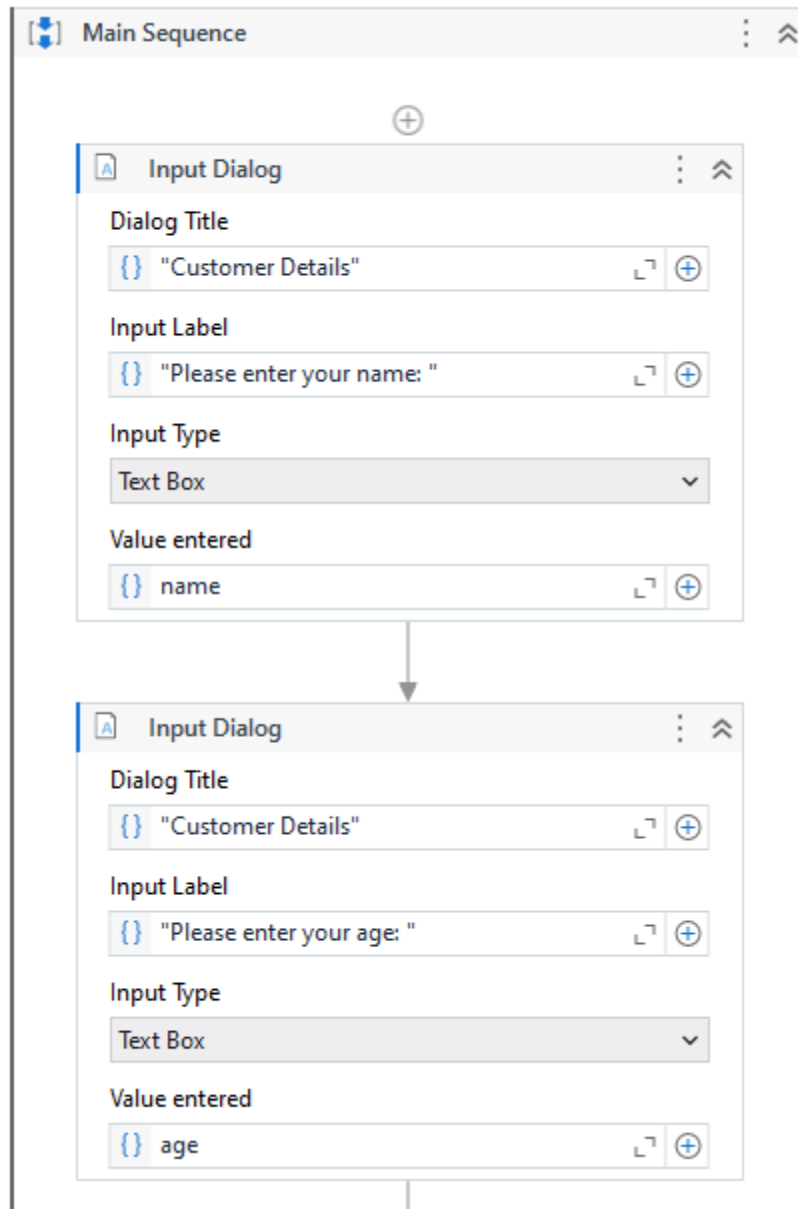


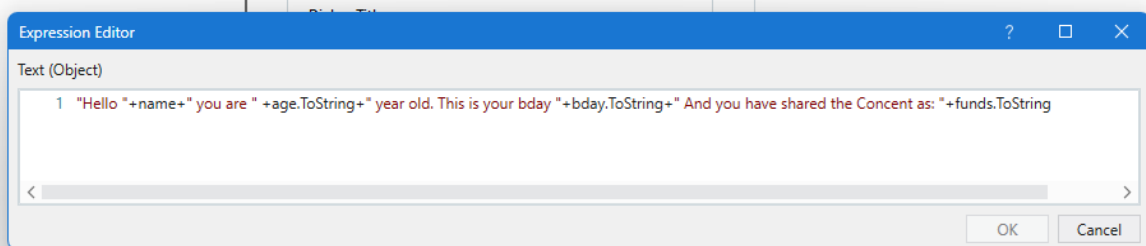
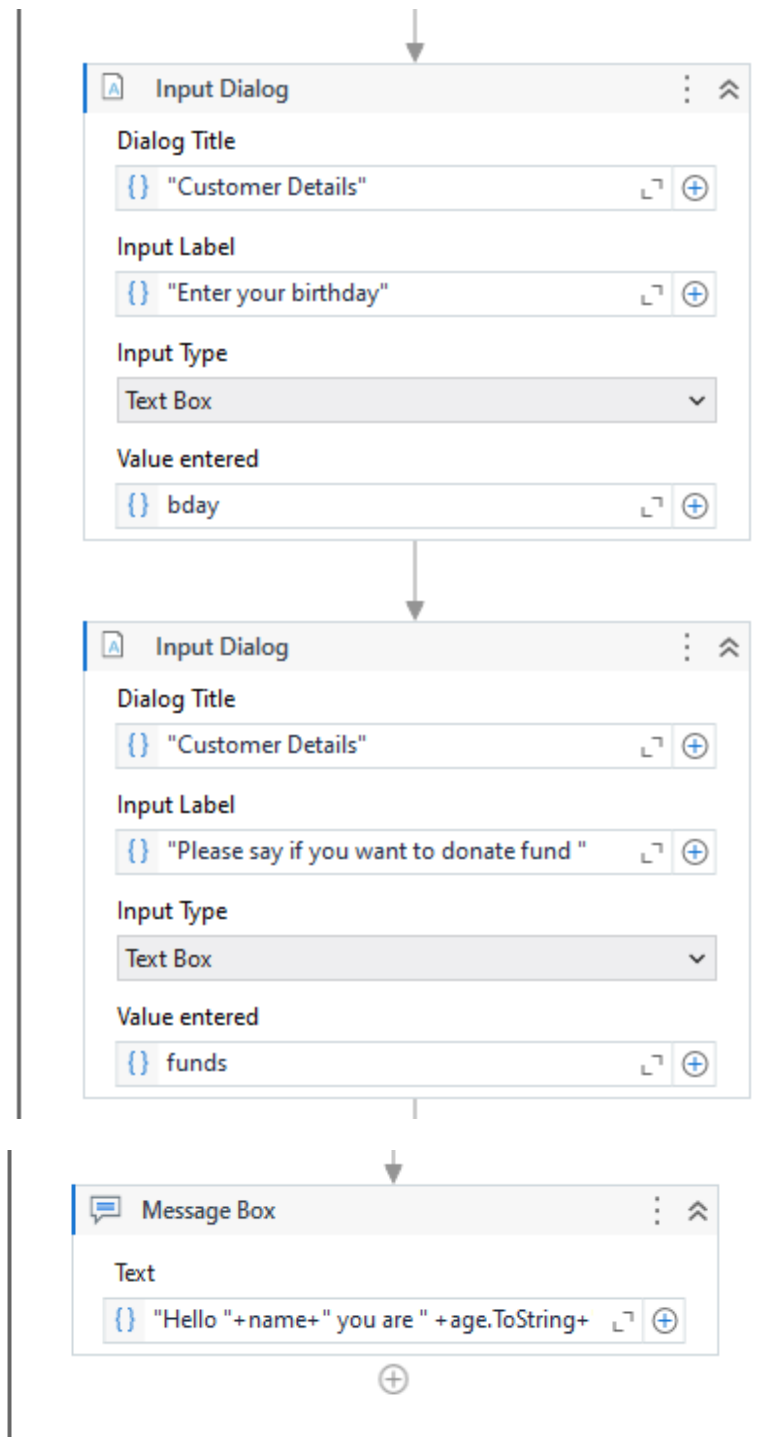
## Output:



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

**I) Number, datetime, Boolean, generic**





## Output:

The image displays a sequence of five Windows-style dialog boxes. The first four are titled 'Customer Details' and each contains a single text input field with an 'Ok' button below it. The inputs are: 'Prachi', '24', '10/09/1999', and 'True'. The fifth dialog box is titled 'Message Box' and contains a summary of the entered data.

Customer Details

Please enter your name:

Prachi

Ok

Customer Details

Please enter your age:

24

Ok

Customer Details

Enter your birthday

10/09/1999

Ok

Customer Details

Please say if you want to donate fund

True

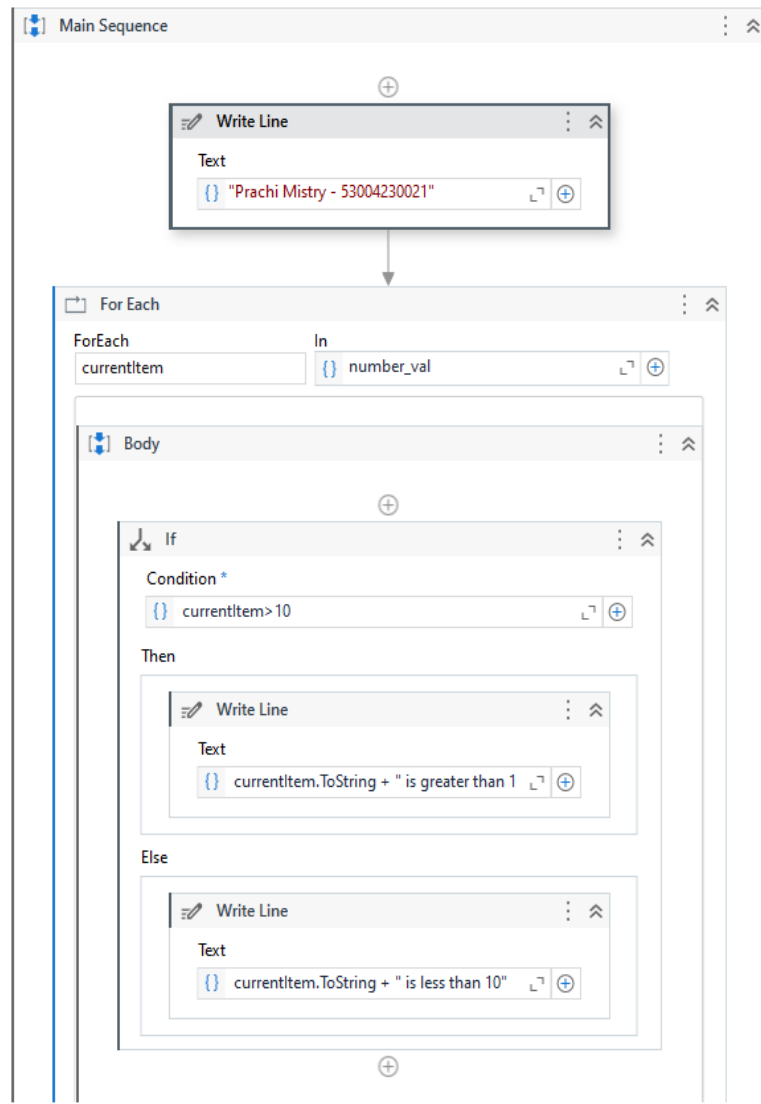
Ok

Message Box

Hello Prachi you are 24 year old. This is your bday 10/09/1999 00:00:00  
And you have shared the Concent as: True

OK

## II) Array

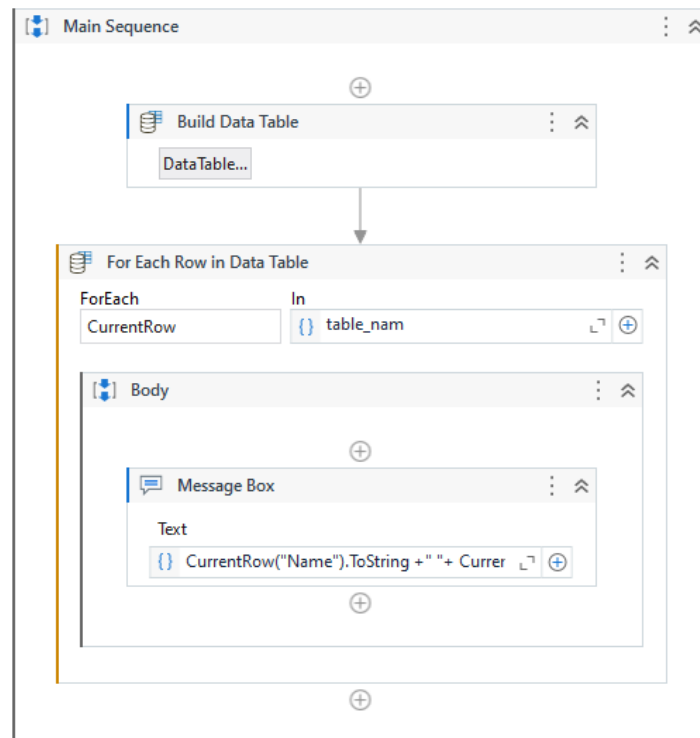


### Output:

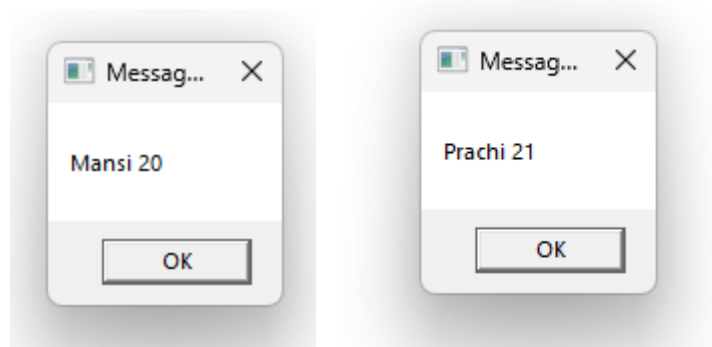
```
Pracs2b_2 execution started
Prachi Mistry - 53004230021
2 is less than 10
3 is less than 10
4 is less than 10
11 is greater than 10
30 is greater than 10
12 is greater than 10
3 is less than 10
Pracs2b_2 execution ended in: 00:00:00
```



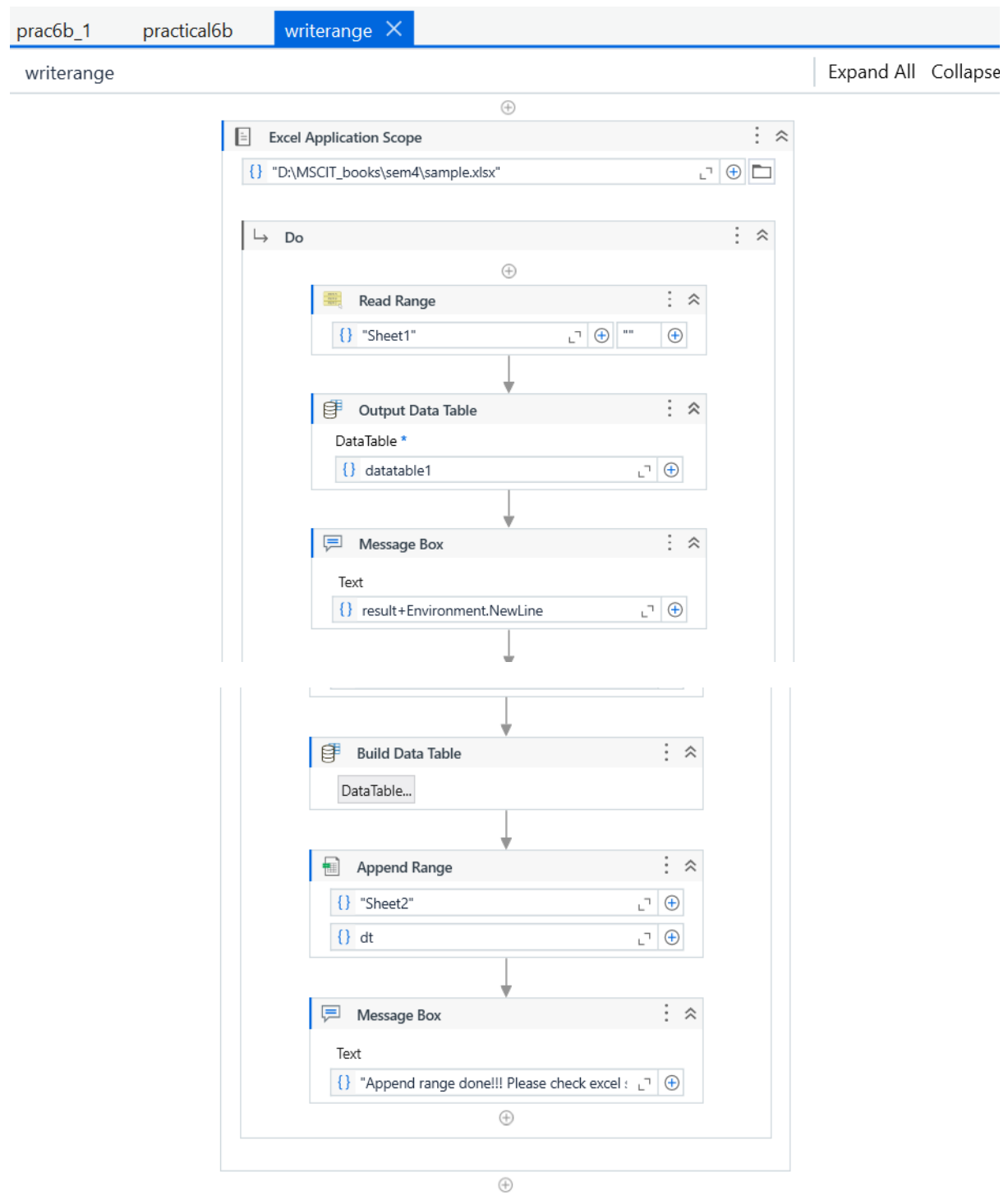
### III) Data Table



**Output:**

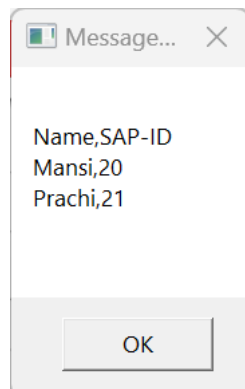


**C) Create an application automating the read, write and append operation on excel file.**

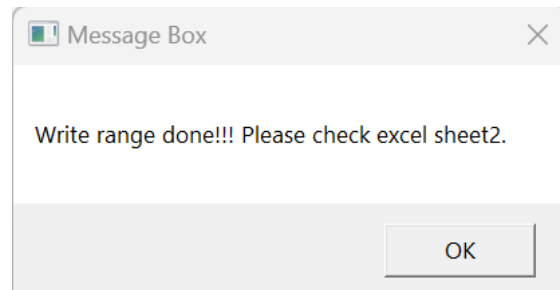


## Output:

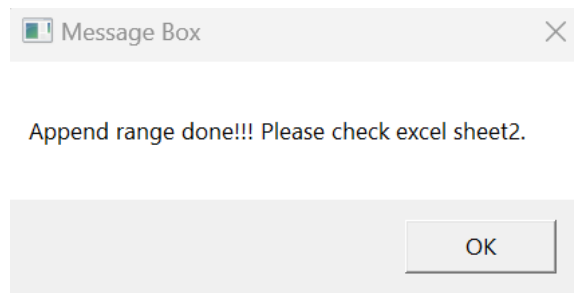
### Read Range



### Write Range



### Append Range



### Excel Sheet

sample - Excel (P						
IT FORMULAS DATA REVIEW VIEW						
	A	B	C	D	E	
1	Mansi	20				
2	Prachi	21				
3	cake	800				
4	juice	200				
5						
6						
7						

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

## From data table to excel.

The screenshot shows the UiPath Studio interface with the 'ExcelWriteRange' activity configured. The activity is part of the 'Excel Application Scope' and is located within a 'Do' loop. The 'Write Range' activity has the following properties:

- Common:** DisplayName: Write Range
- Destination:** SheetName: "Sheet1", StartingCell: "A1"
- Input:** DataTable: datatable
- Misc:** Private: ☐
- Options:** AddHeaders: ☐

The 'Excel Application Scope' is set to the file path "D:\MSCIT\_books\sem4\prac6b\_1.xlsx". The 'Do' loop contains the 'Write Range' activity. The bottom status bar shows 'Variables', 'Arguments', and 'Imports' tabs, along with a '100%' zoom level and various icons.

## Output:

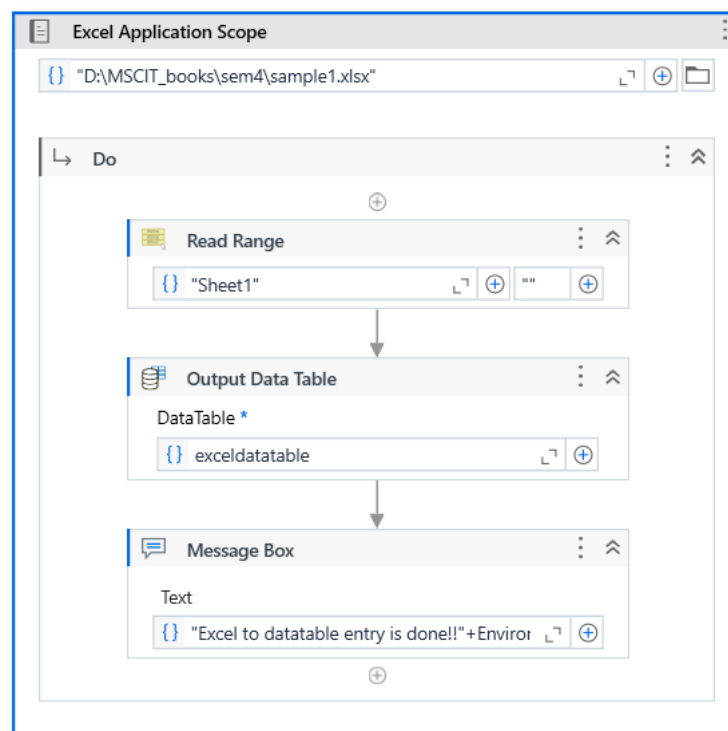
The screenshot shows an Excel spreadsheet with the following data:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	Prachi	21																	
2	Mansi	20																	
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			

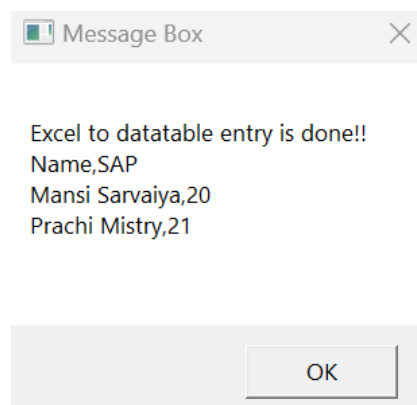
## From excel to data table.

prac6b\_1 practical6b X

practical6b > Flowchart > Excel Application... Expand A

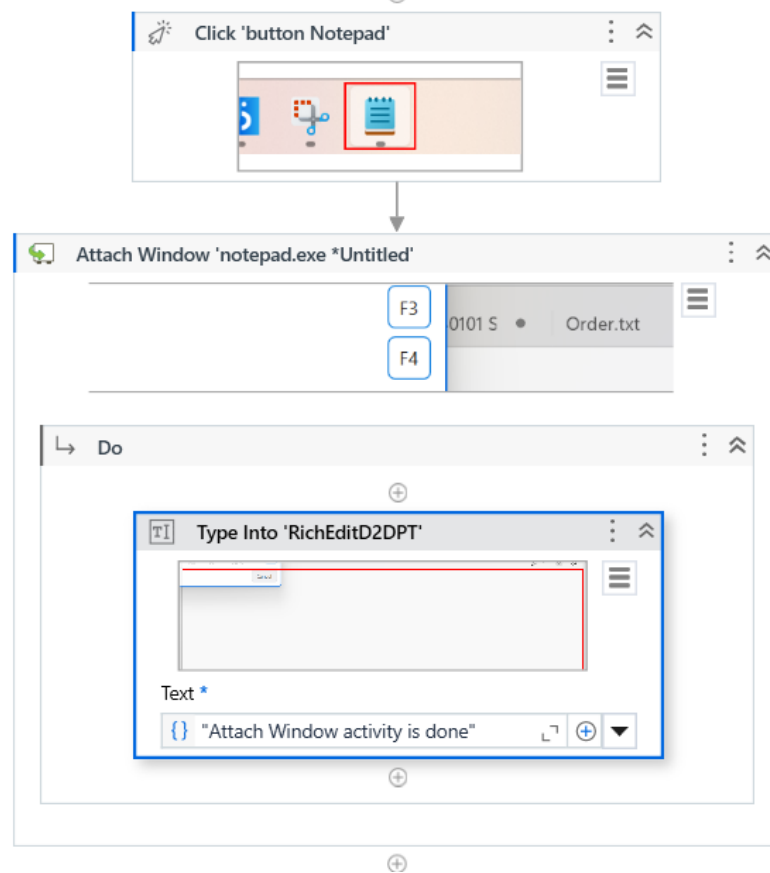


## Output:

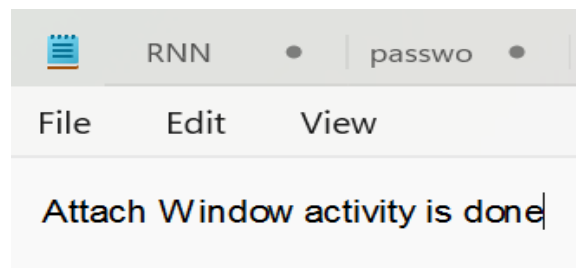


## **PRACTICAL III**

A) Implement the attach window activity.

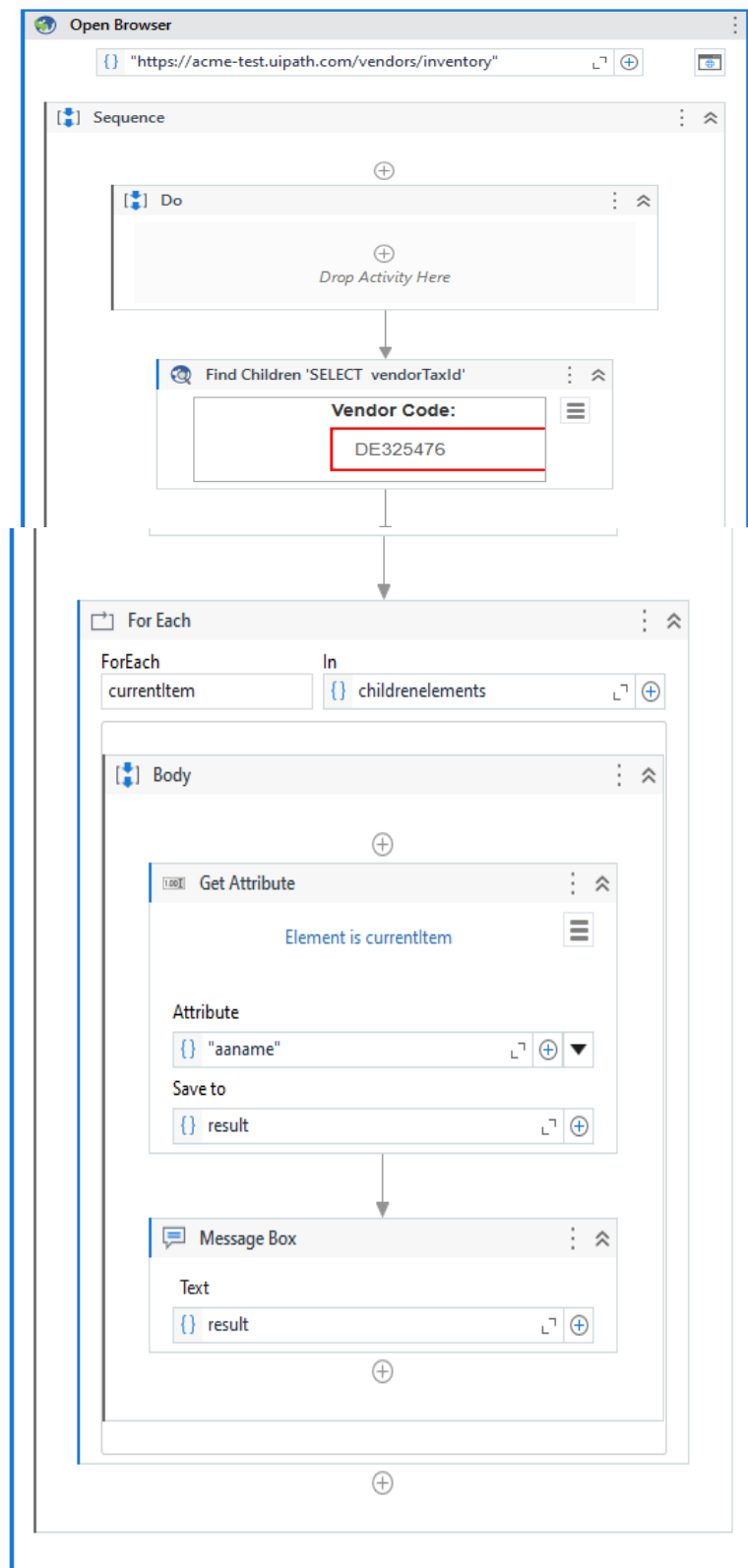


**Output:**



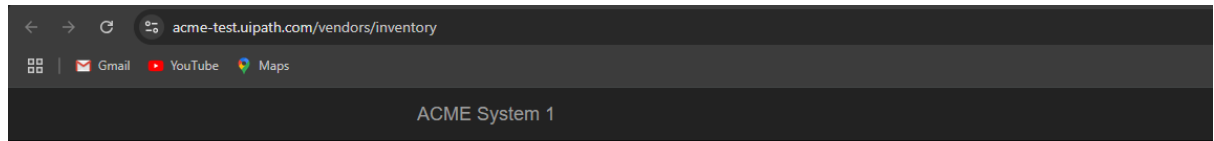
## B) Find different controls using UiPath

### I.) Find children





## Output:



## Vendors - Vendor Inventory

[Home](#) / 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

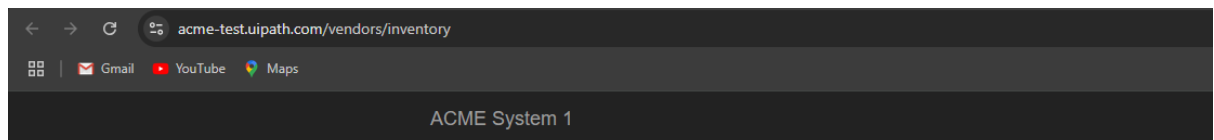
RU567434

Message...

DE325476

OK

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## Vendors - Vendor Inventory

[Home](#) / 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

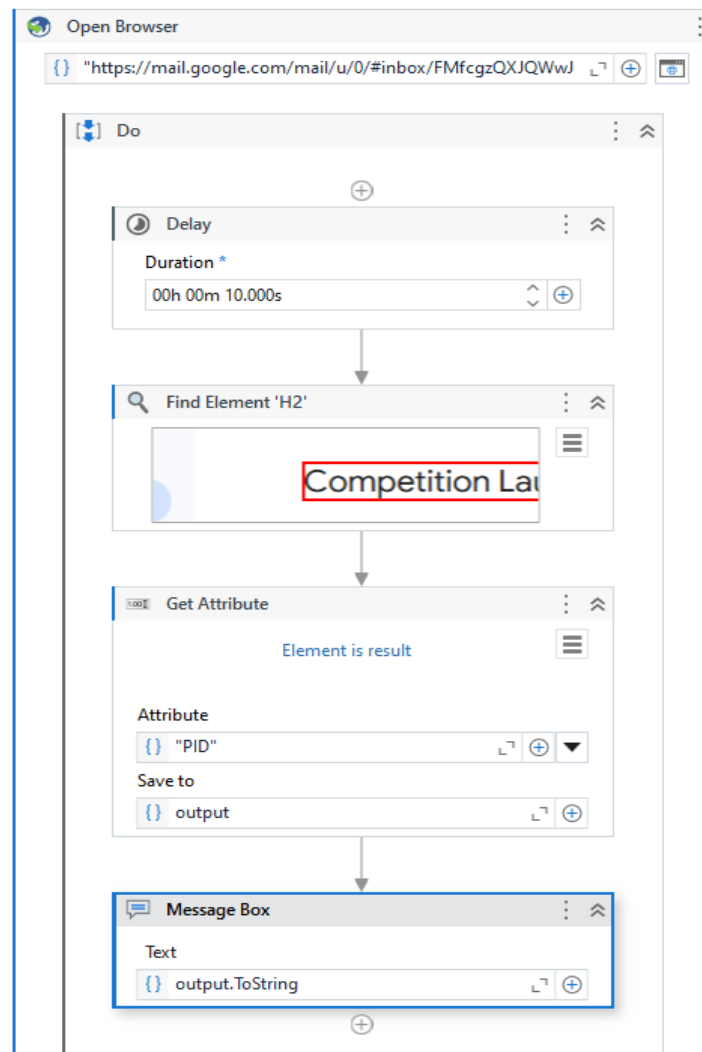
Message...

FR065748

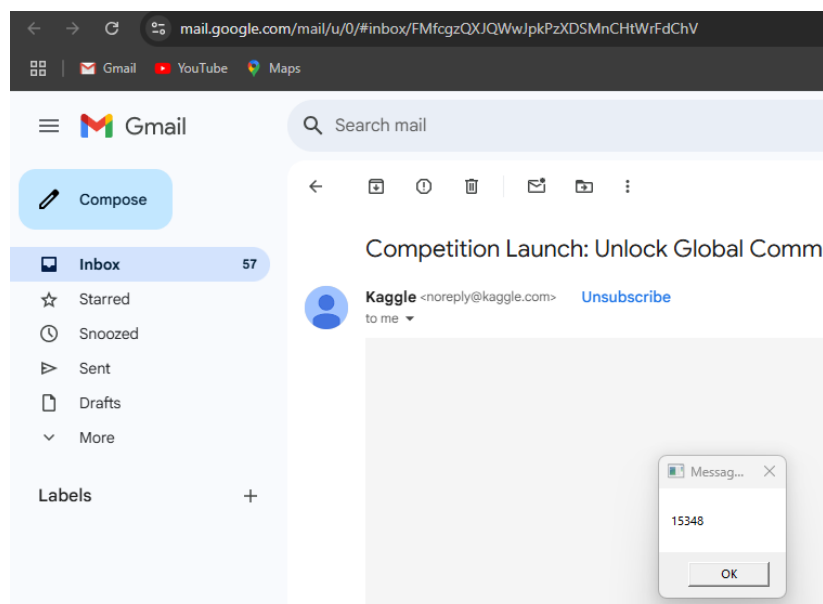
OK

Copyright © 2025 ACME Systems

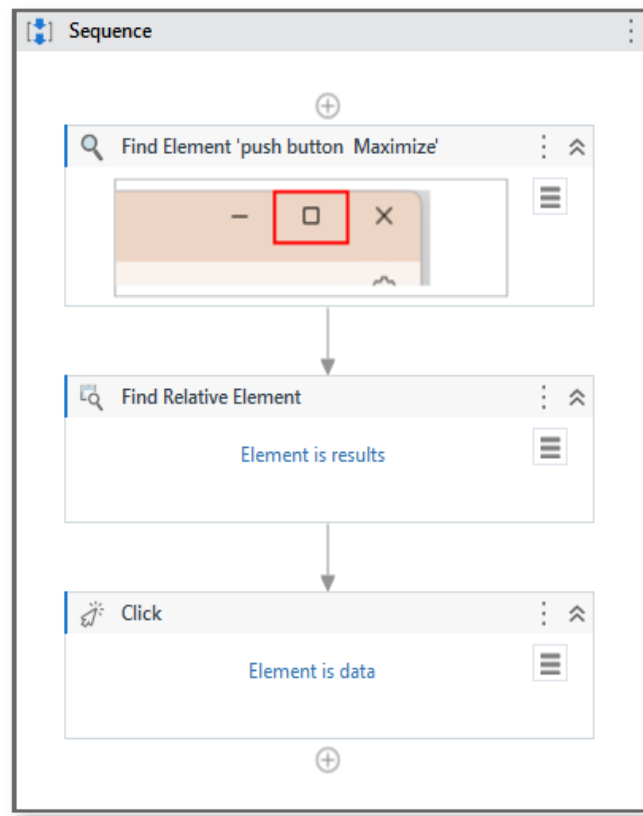
## II.) Find Element



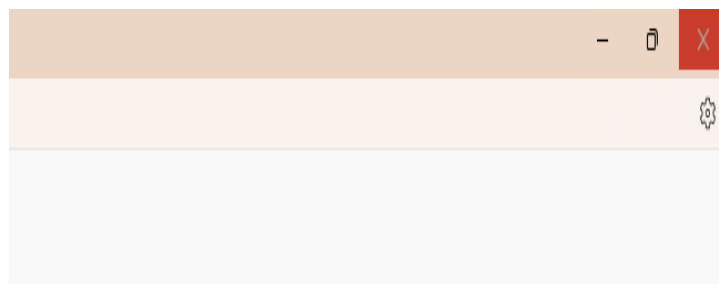
## Output



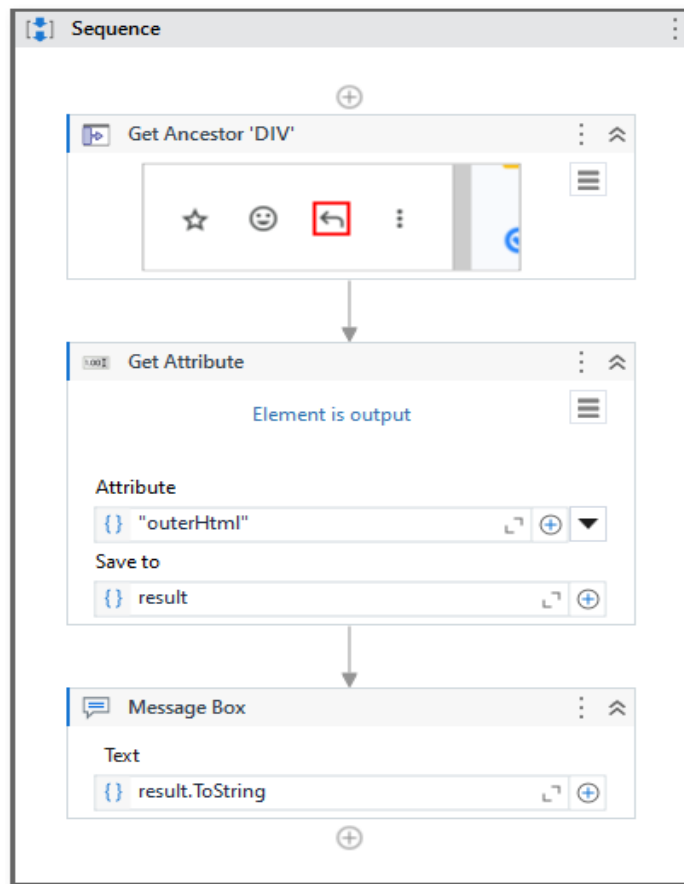
### III.) Find relative Element



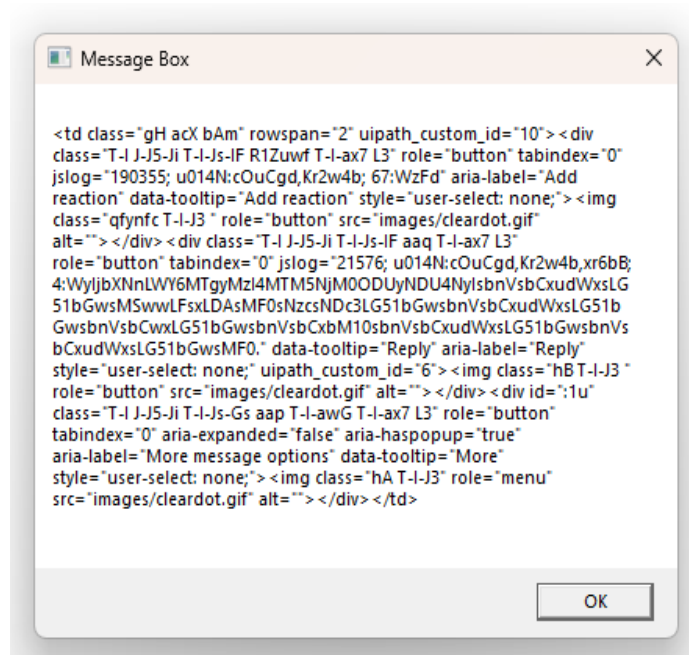
**Output:**



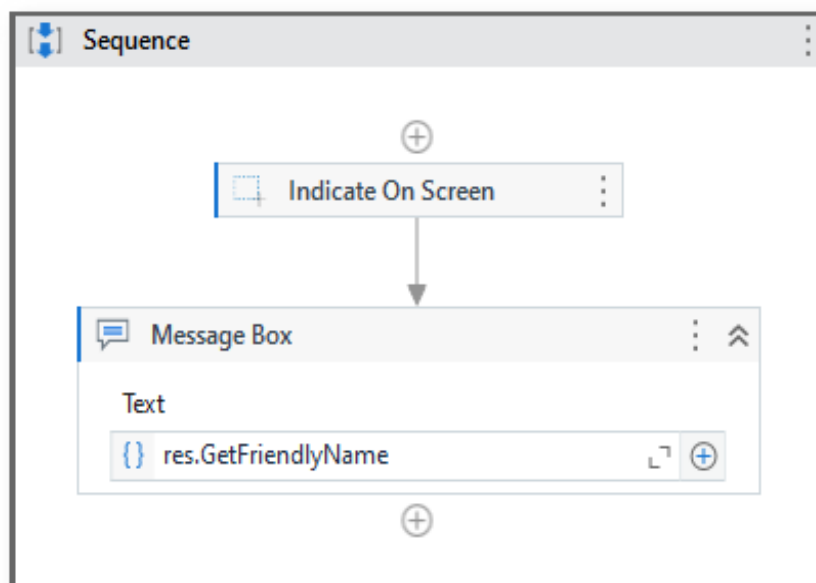
#### IV.) Get Ancestor



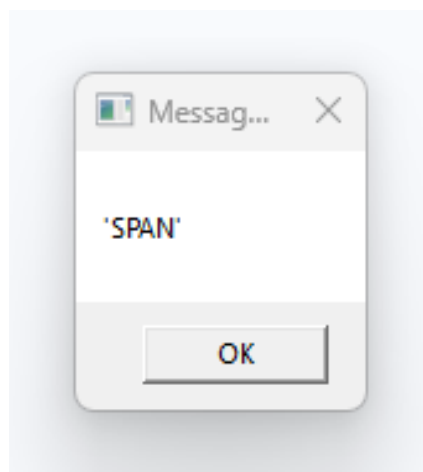
**Output:**



## V.) Indicate on screen



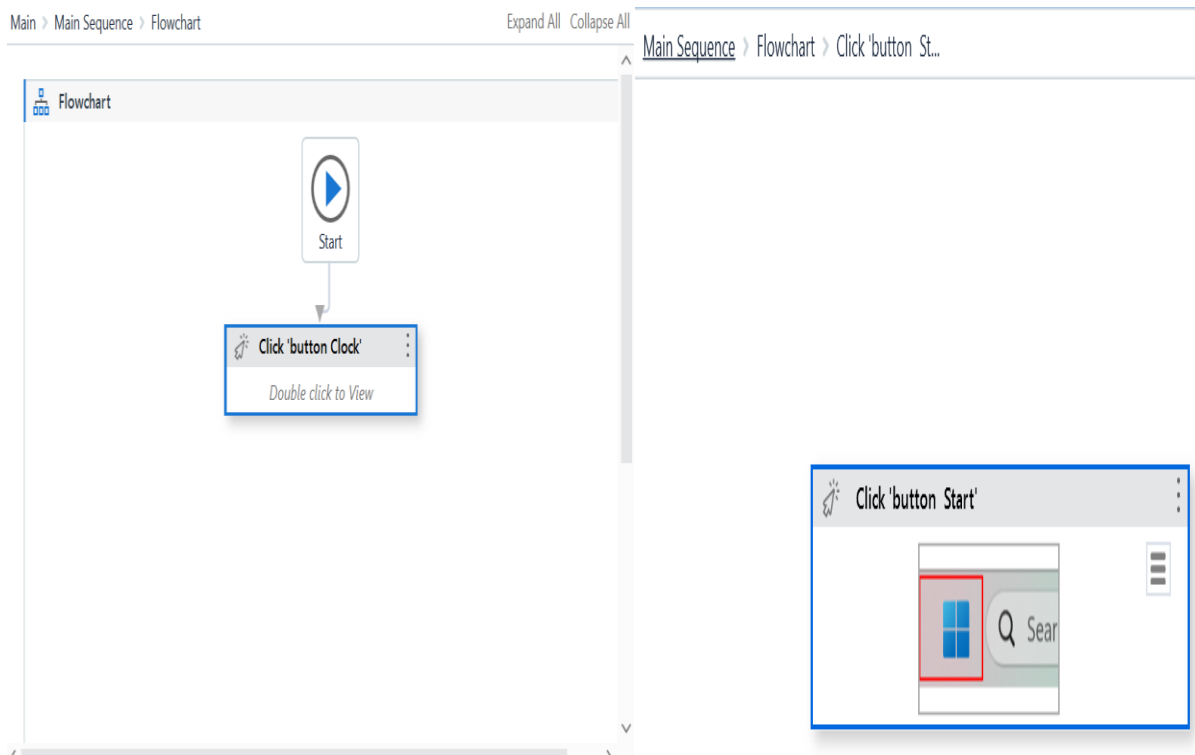
## Output:



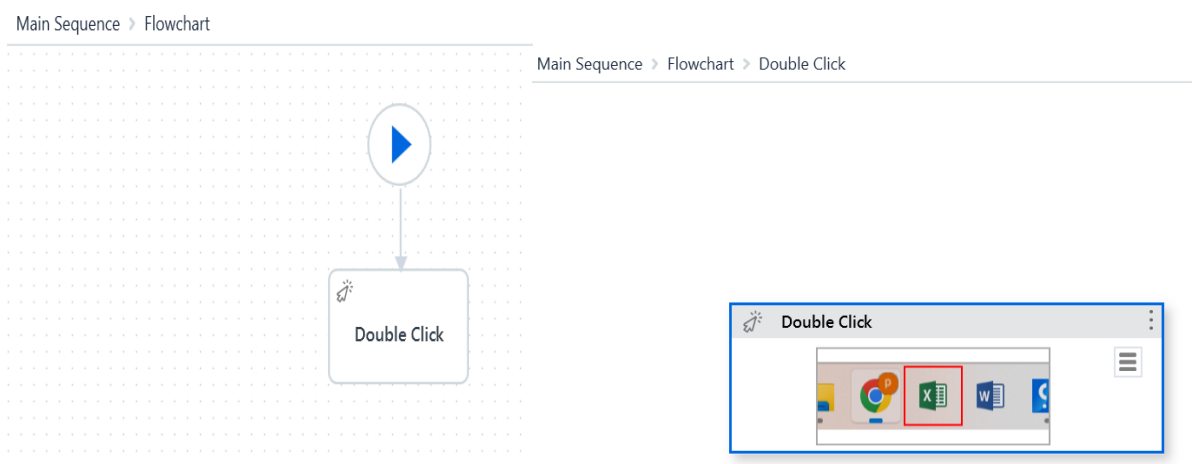
### C) Demonstrate the following activities in UiPath:

- i. Mouse (click, double click and hover)
- ii. Type into
- iii. Type Secure text

#### Mouse (Click)



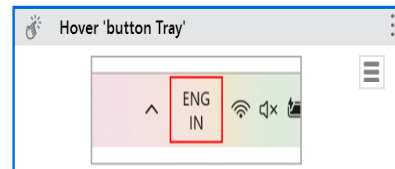
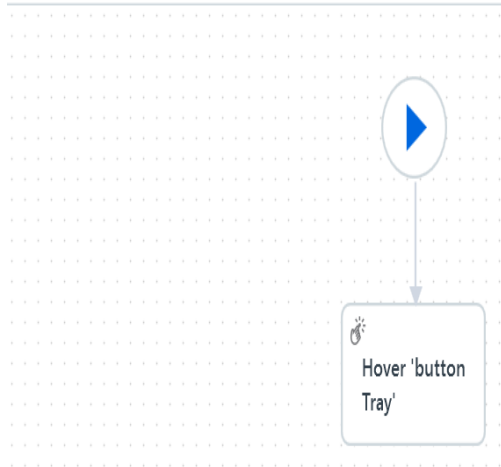
#### Mouse (Double Click)



## Mouse (Hover)

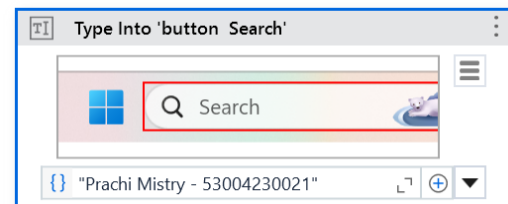
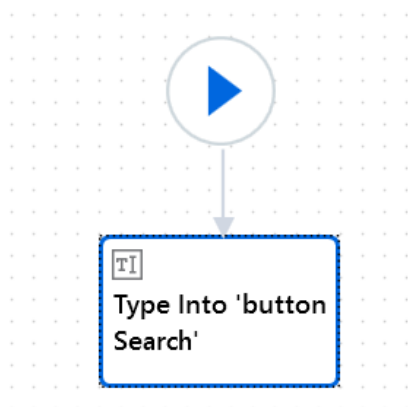
Main Sequence > Flowchart

Main Sequence > Flowchart > Hover 'button Tray'

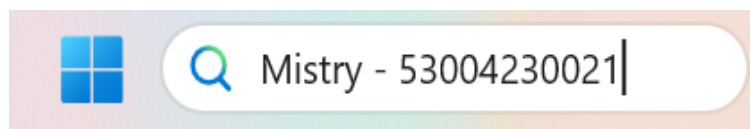


## II.) Type into

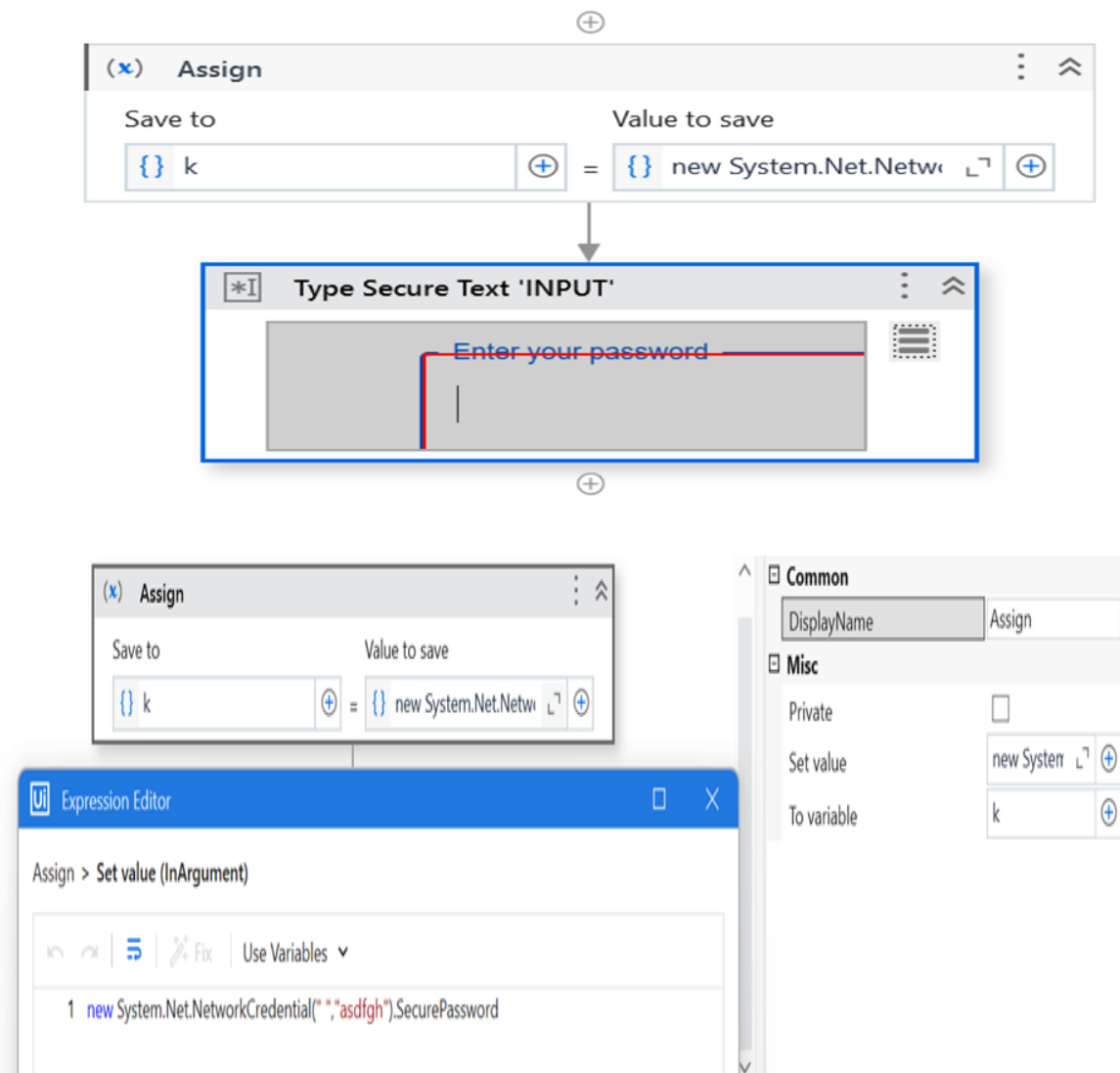
Main Sequence > Flowchart > Type Into 'button...



## Output:



### III.) Type Secure text





recording Expand All Collapse All

UiPath.Core.Activities.TypeSecureText

**Assign**

Save to: `k` Value to save: `new System.Net.NetworkCredential("k", "k")`

**Type Secure Text 'INPUT'**

Enter your password

Name	Variable type	Scope	Default
k	SecureString	recording	Enter a VB expression

Create Variable

**Common**

ContinueOnError: Specific

DelayAfter: Delay time

DelayBefore: Delay time

DisplayName: Type Secure Text 'INPUT'

**Input**

SecureText: k

**Target**

Target

**Misc**

Private: ☐

**Options**

Activate: True

AlterIfDisabled: If selected

ClickBeforeTyping: When

DelayBetweenKeys: Delay time

Deselect at end: This or


EmptyField: When

SendWindowMessages: If selected


Variables Arguments Imports

100%

## Output



Hi Mansi

 pm.ms103@gmail.com

Enter your password

.....

☐ Show password

[Forgot password?](#)

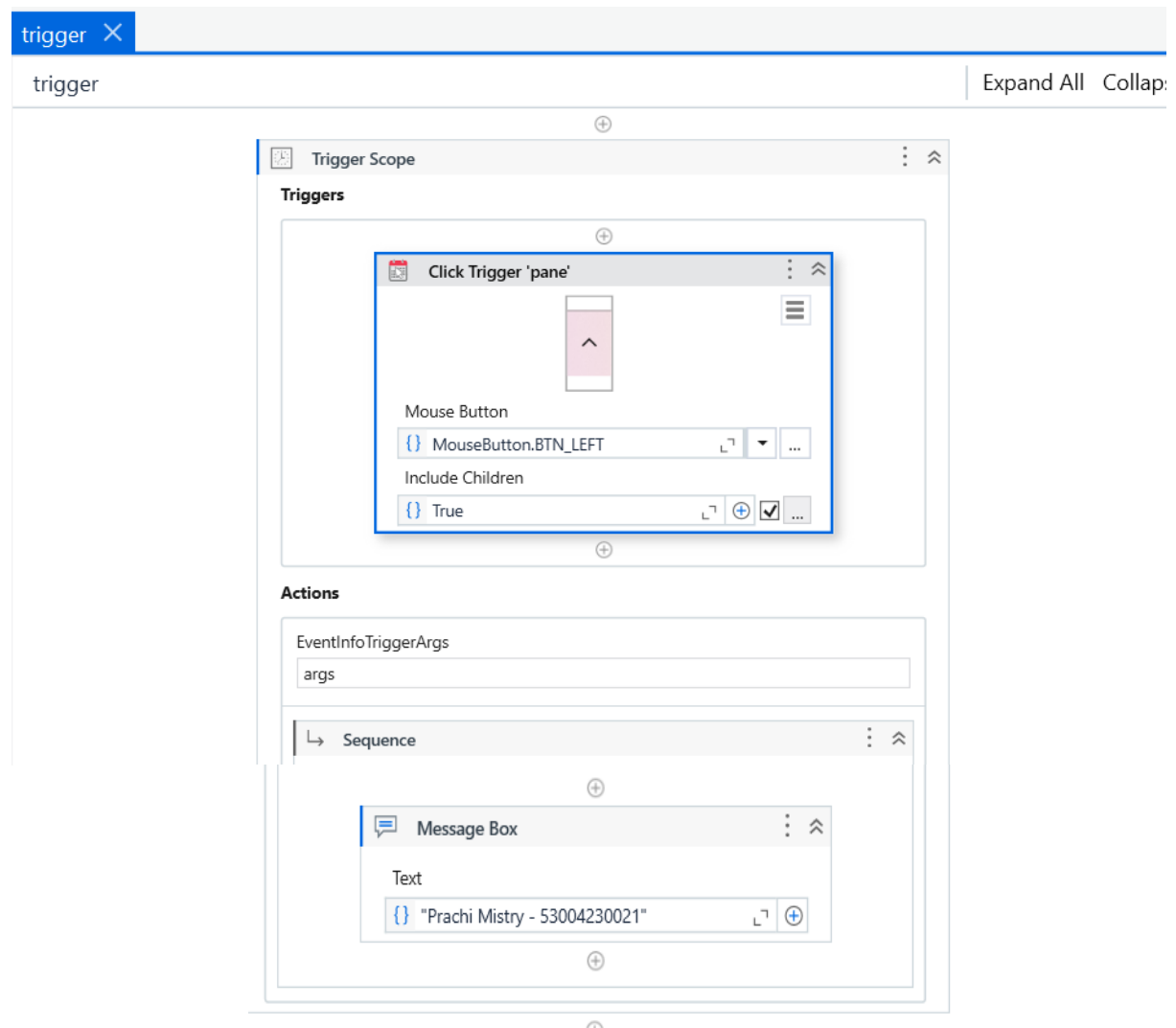
[Next](#)

**D) Demonstrate the following events in UiPath:**

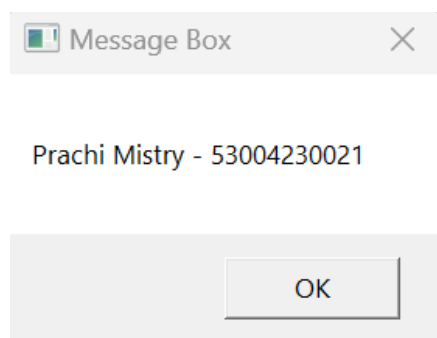
- i. Element triggering event
- ii. Image triggering event
- iii. System Triggering Event

**I.) Element triggering event**

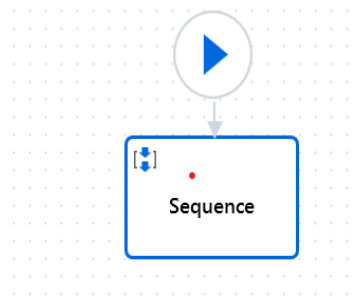
**Click Trigger**



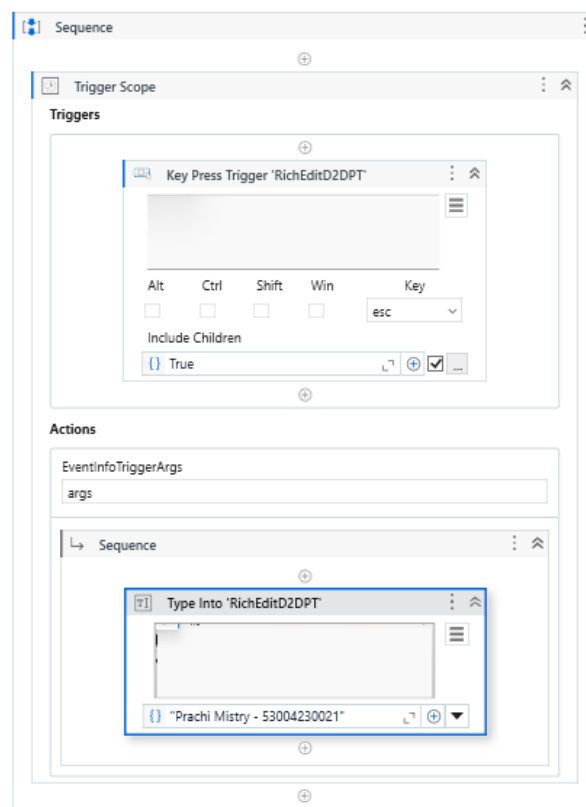
**Output**



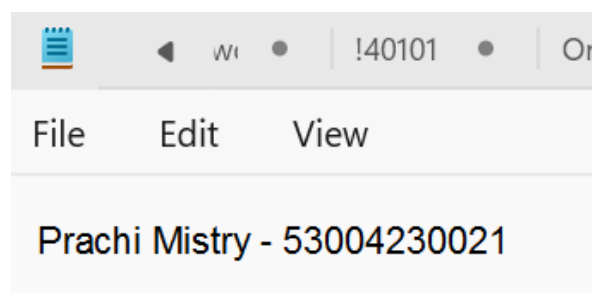
## Key press trigger



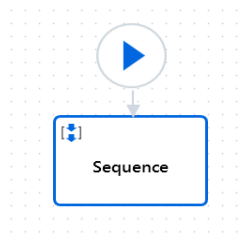
trigger1 > Flowchart > Sequence



## Output

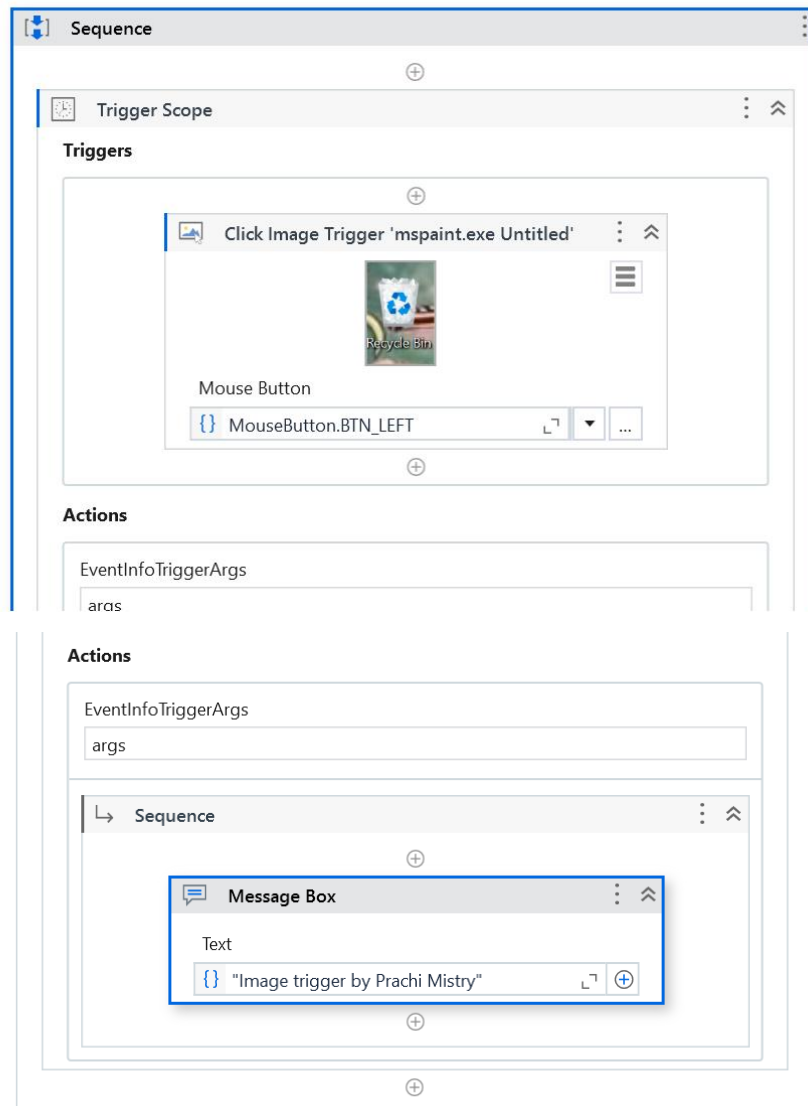


## II.) Image click trigger

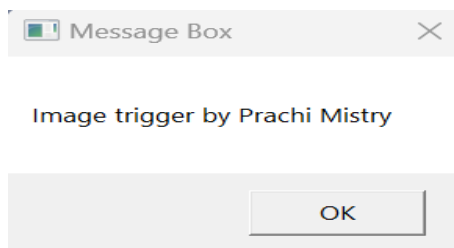


imagetrigger > Sequence

Expand All Coll



**Output:**

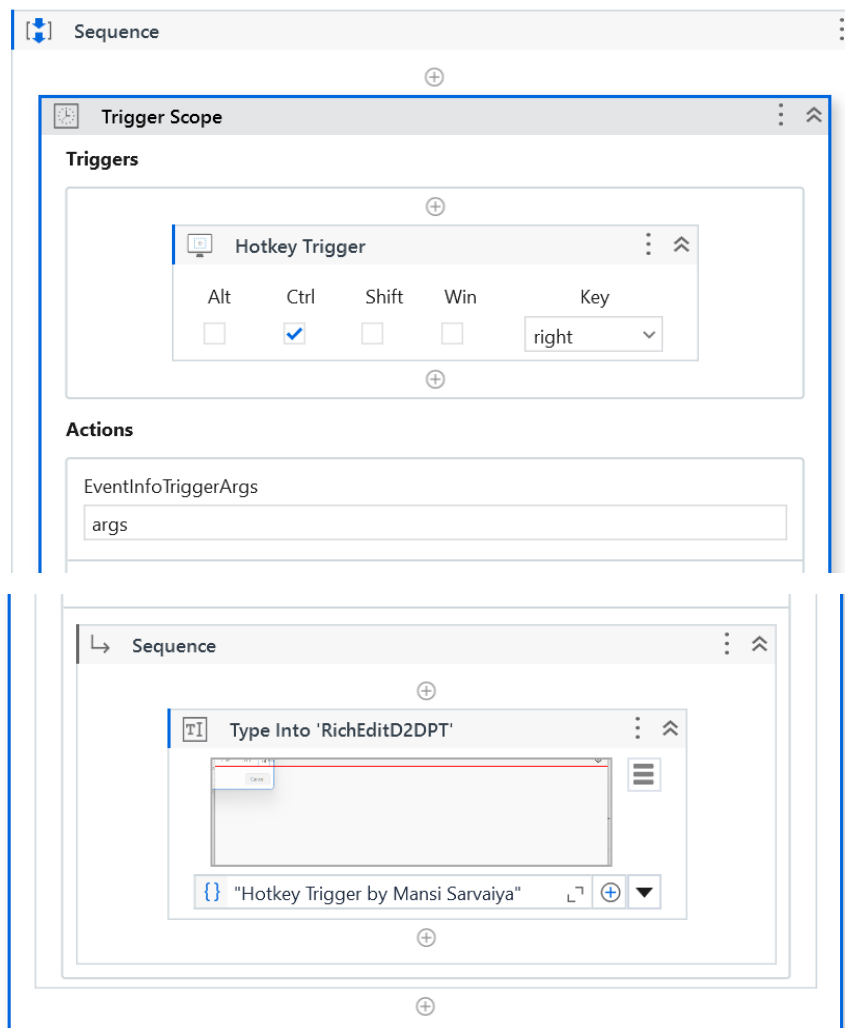


### III.) System Trigger

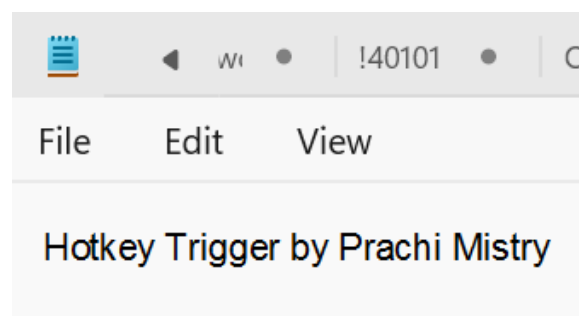
#### Hotkey Trigger

systemtrigger1 > Sequence

Expand All Colla



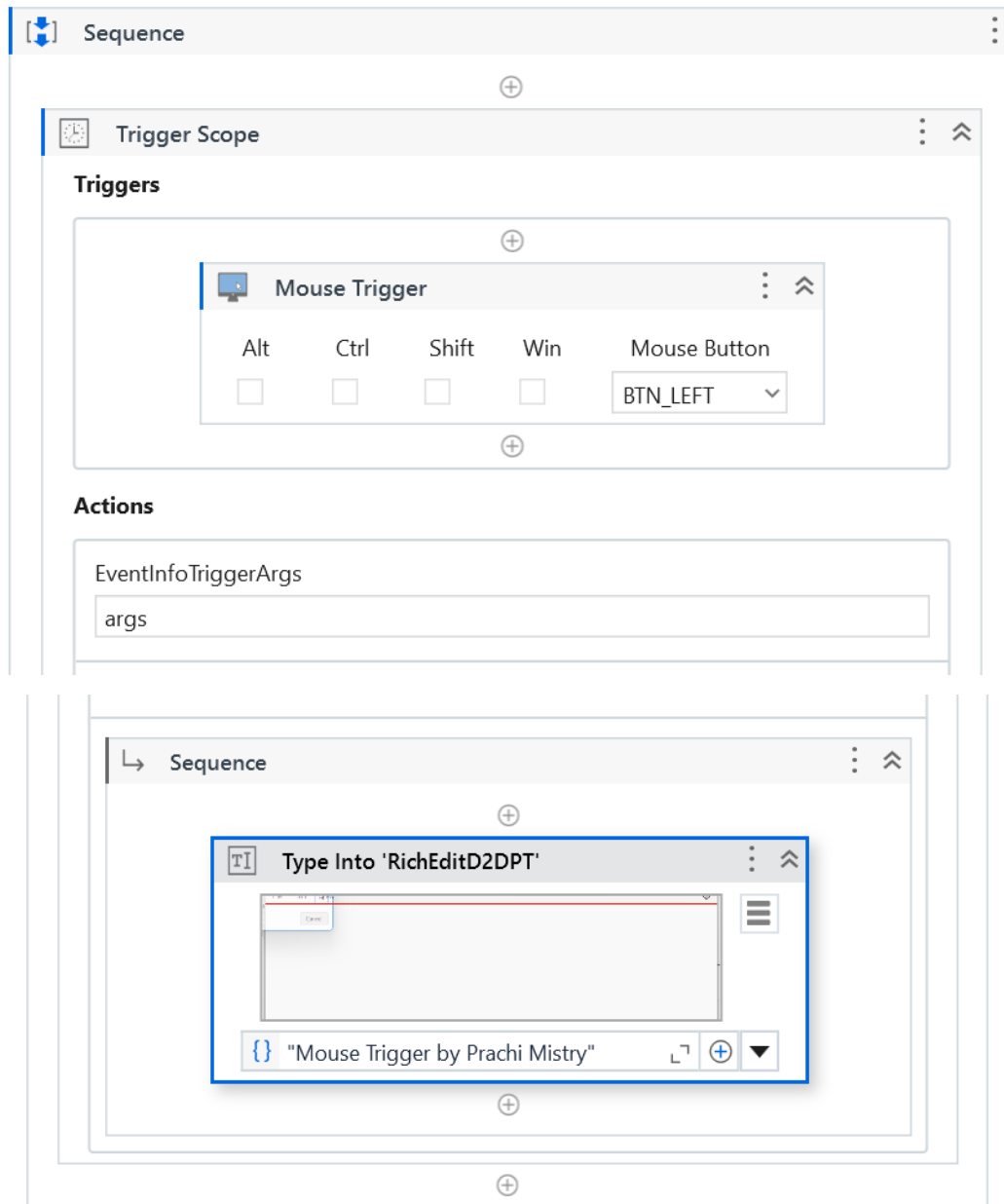
#### Output



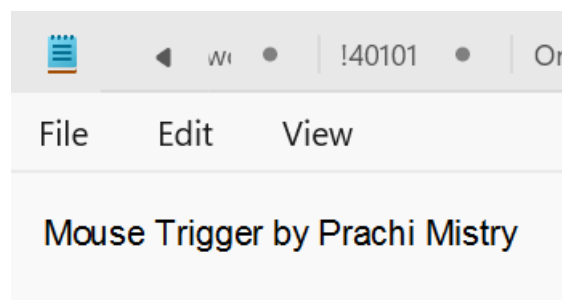
## Mouse Trigger

systemtrigger1 > Sequence

Expand All Collaps



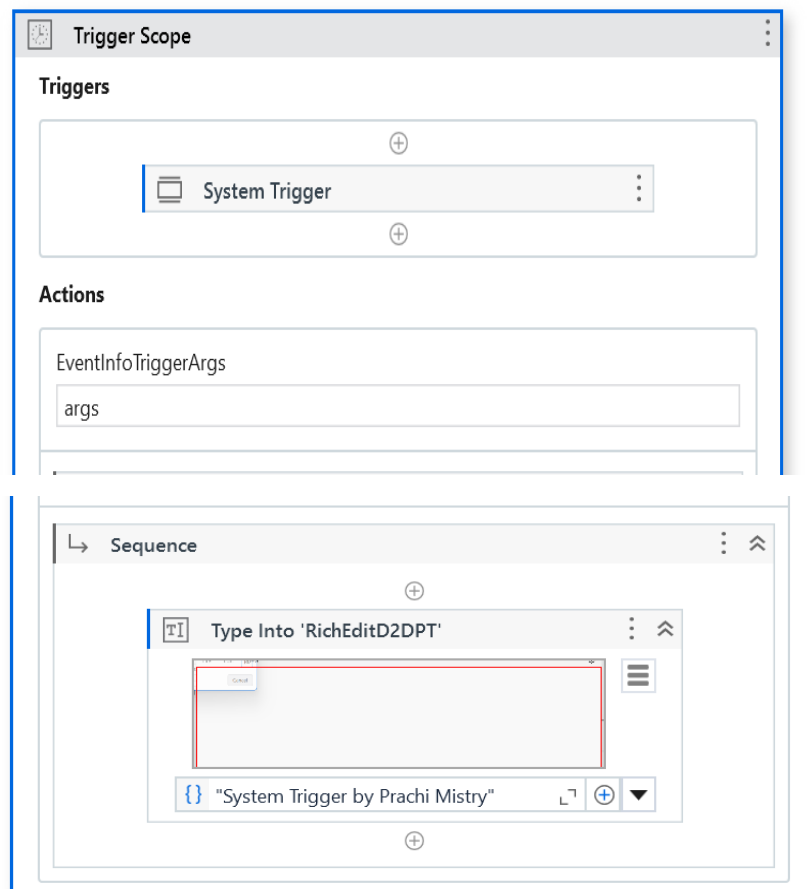
## Output



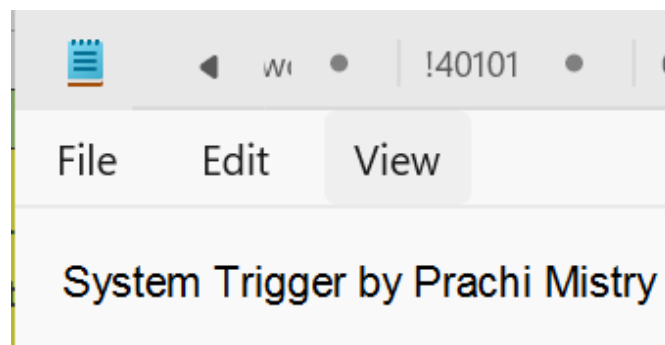
## System Trigger

systemtrigger1 > Sequence > Trigger Scope

Expand All C



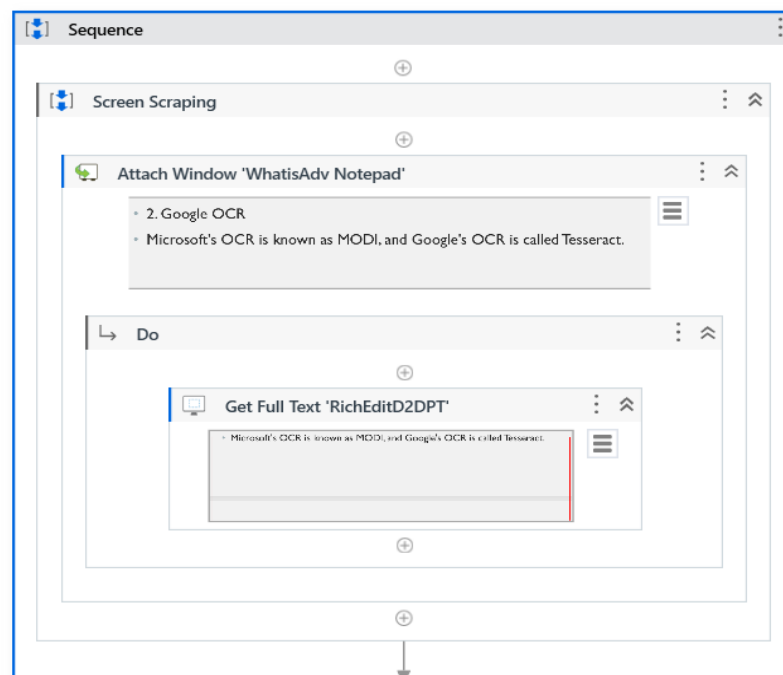
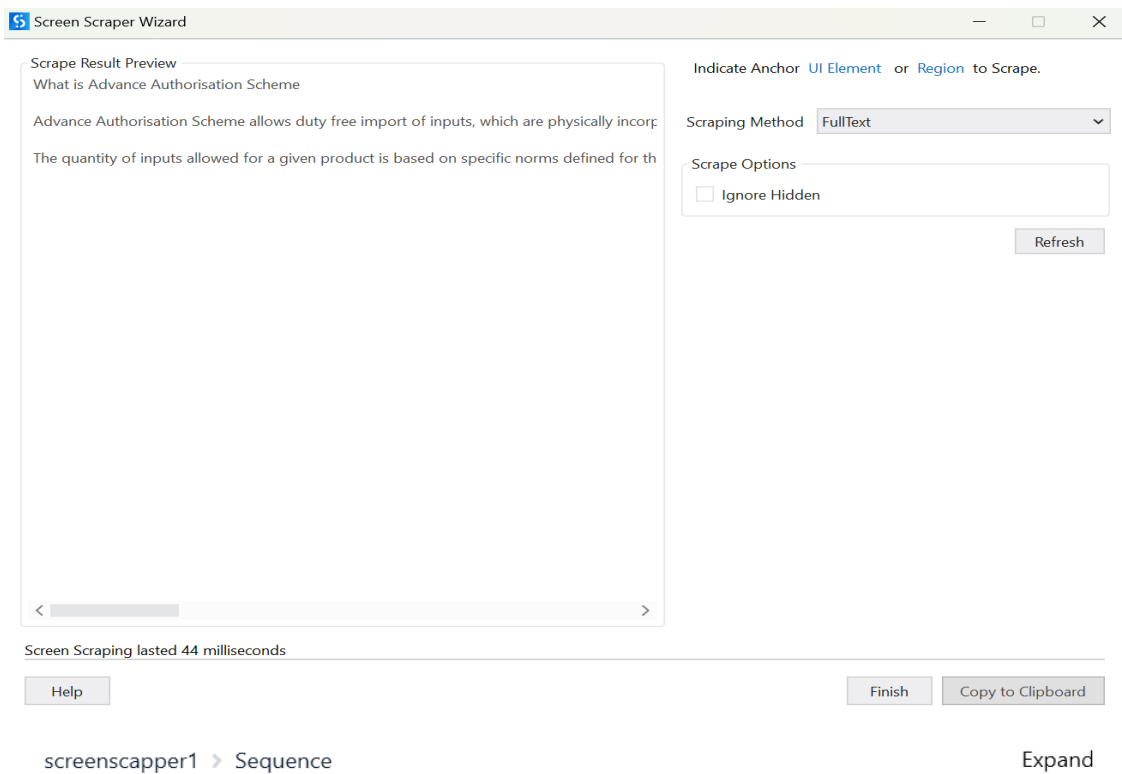
**Output :**



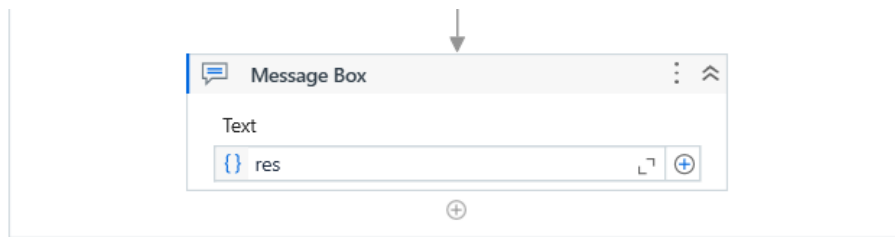
## E) Automate the following screen scraping methods using UiPath

- i. Full Test
- ii. Native
- iii. OCR

### I.) Full Test

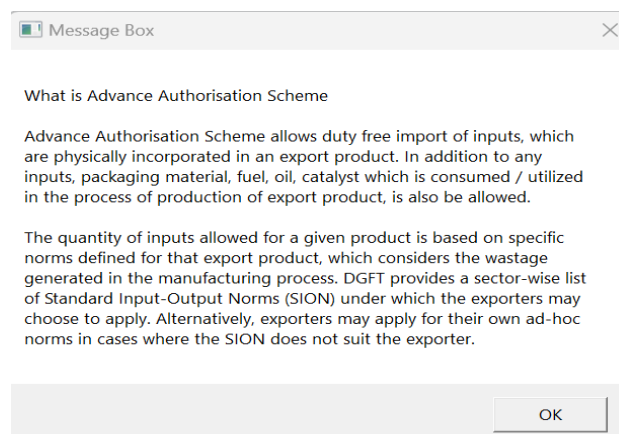




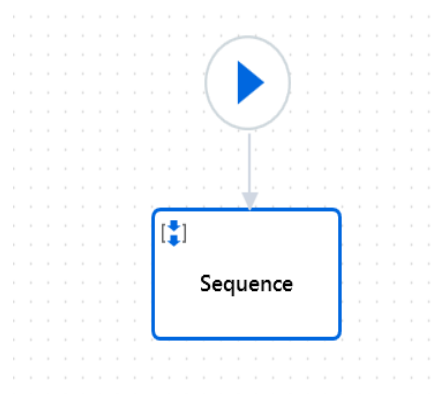


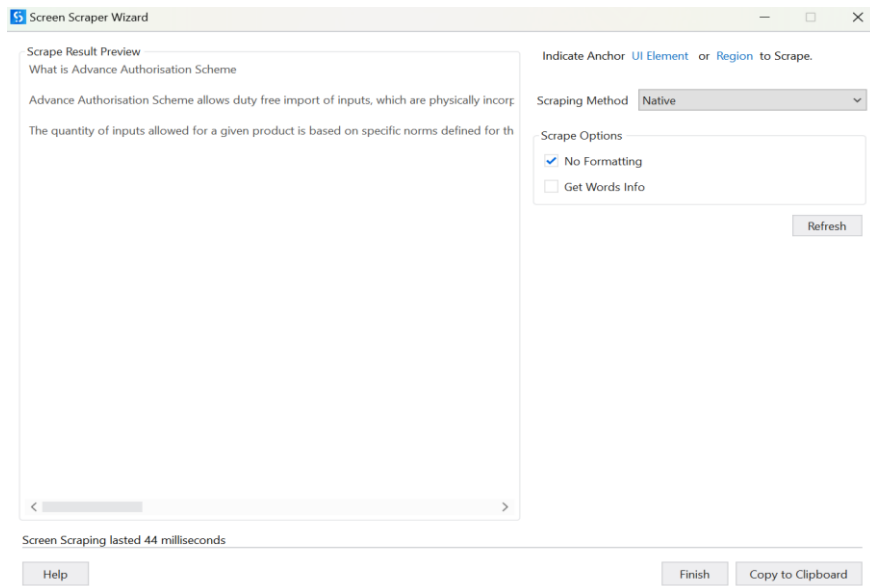
Name	Variable type	Scope	Default
res	String	Sequence	Enter a VB expression
Create Variable			

## Output



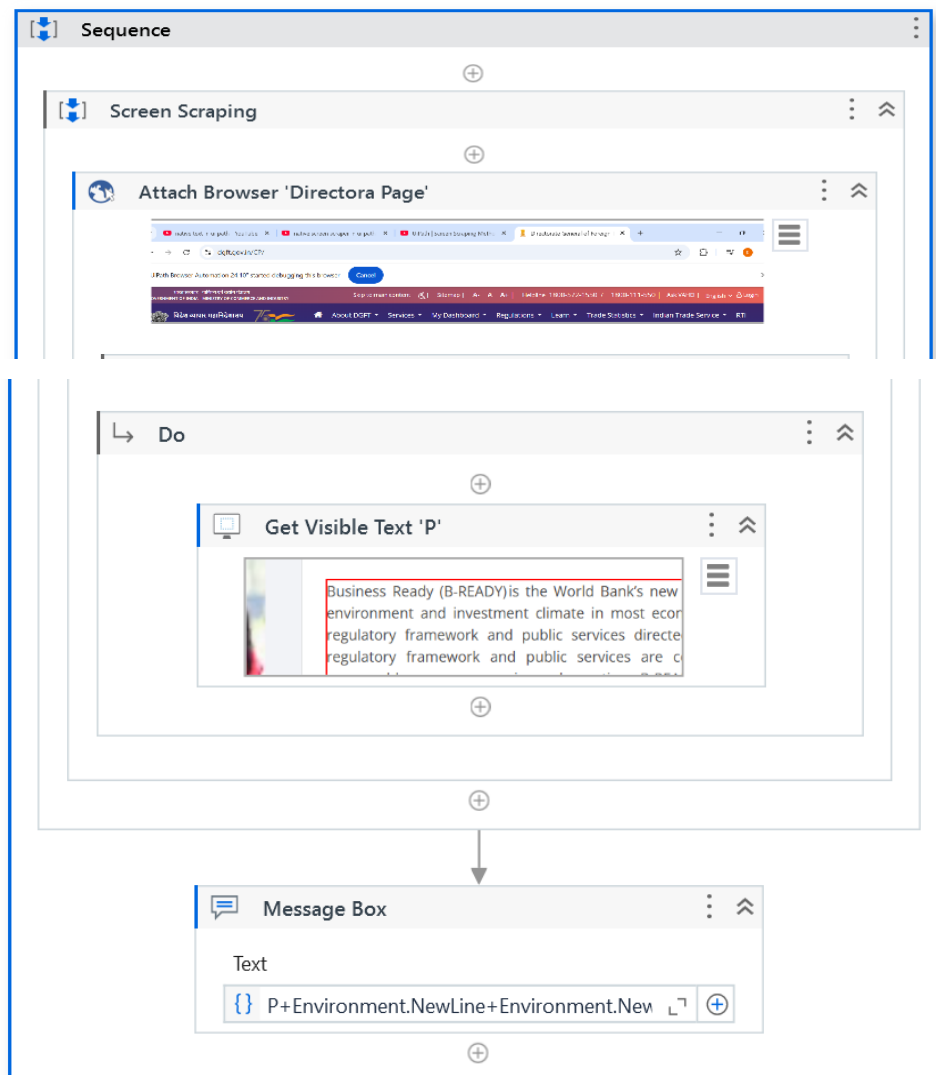
## II.) Native





screenscapper1 > Sequence

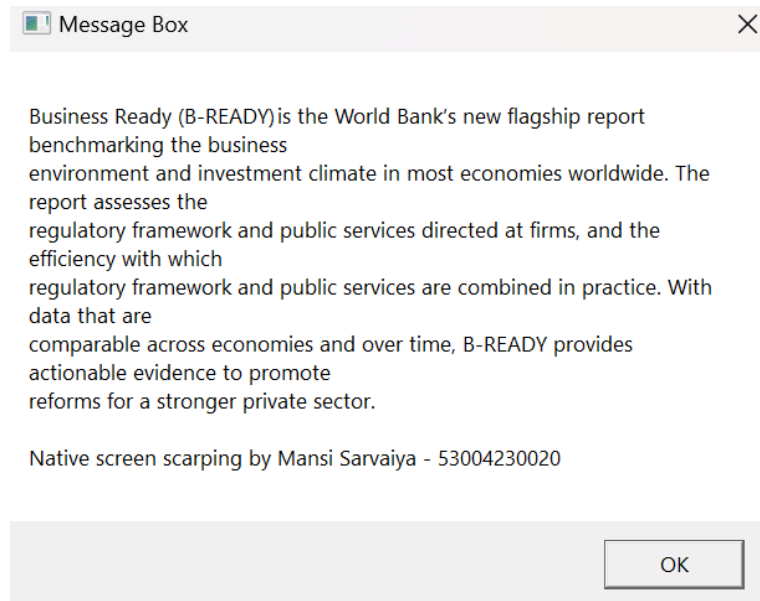
Expand All C



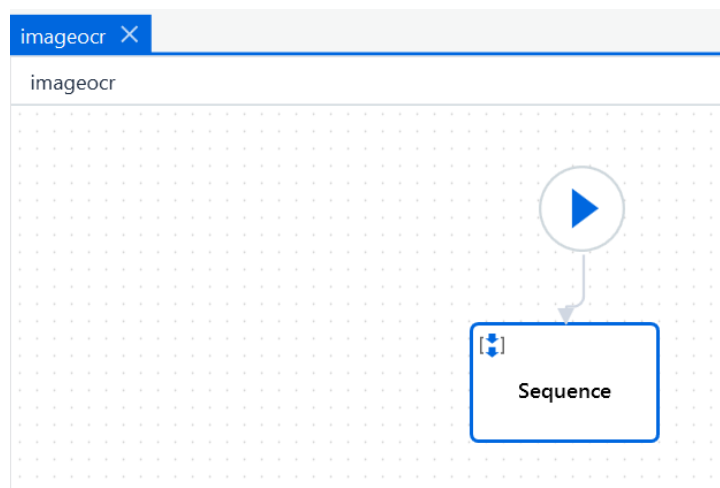
Name	Variable type	Scope	Default
P	GenericValue	Sequence	Enter a VB expression

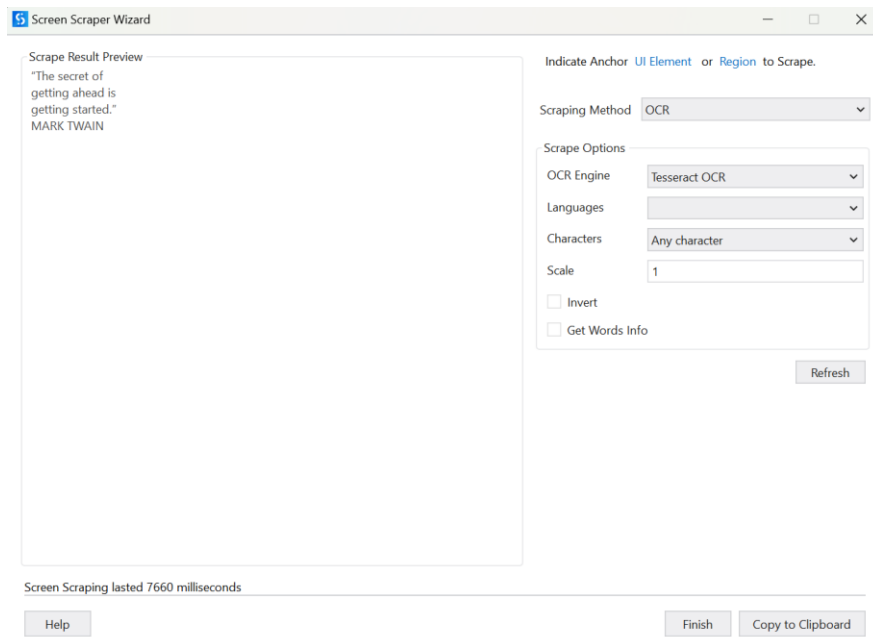
Create Variable

## Output



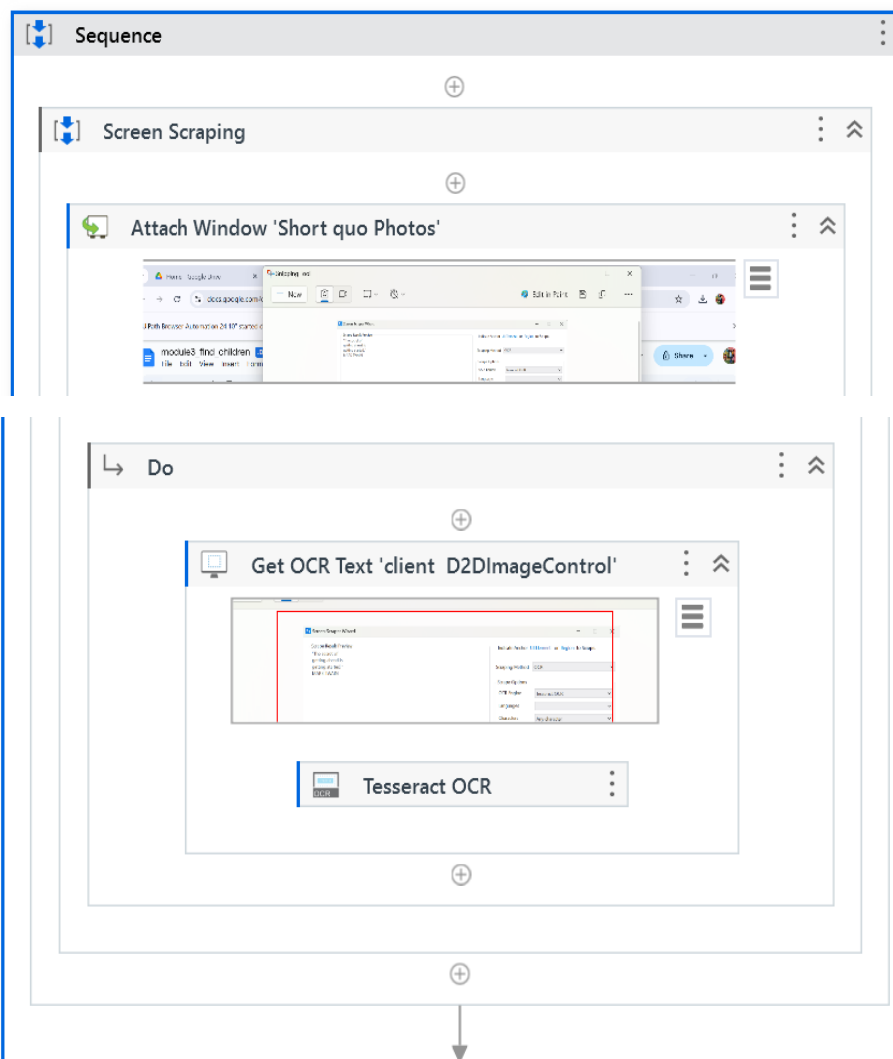
## II.) Image OCR

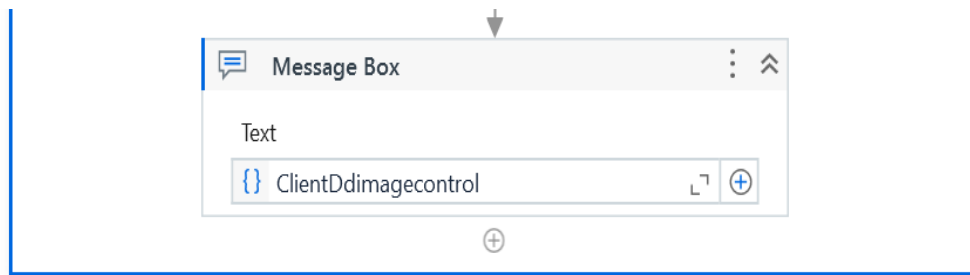




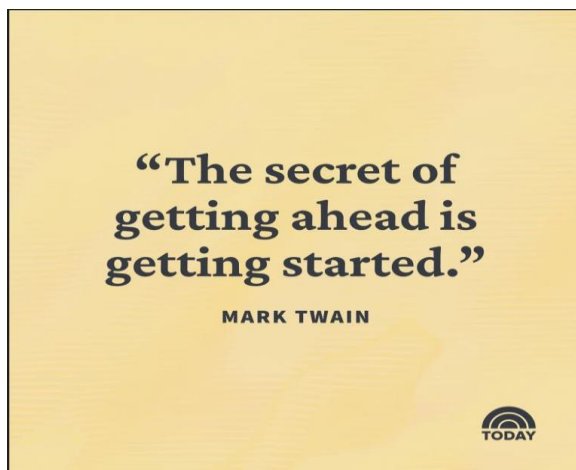
imageocr > Sequence

Expand All Col

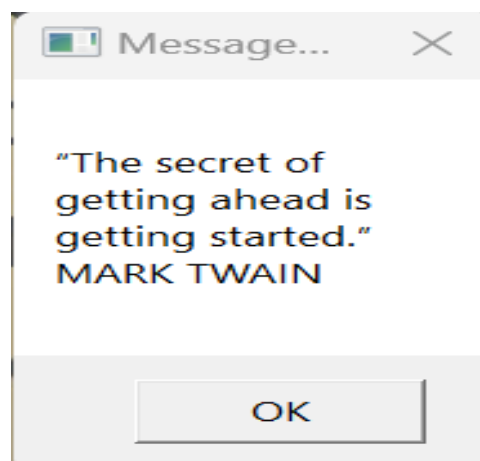




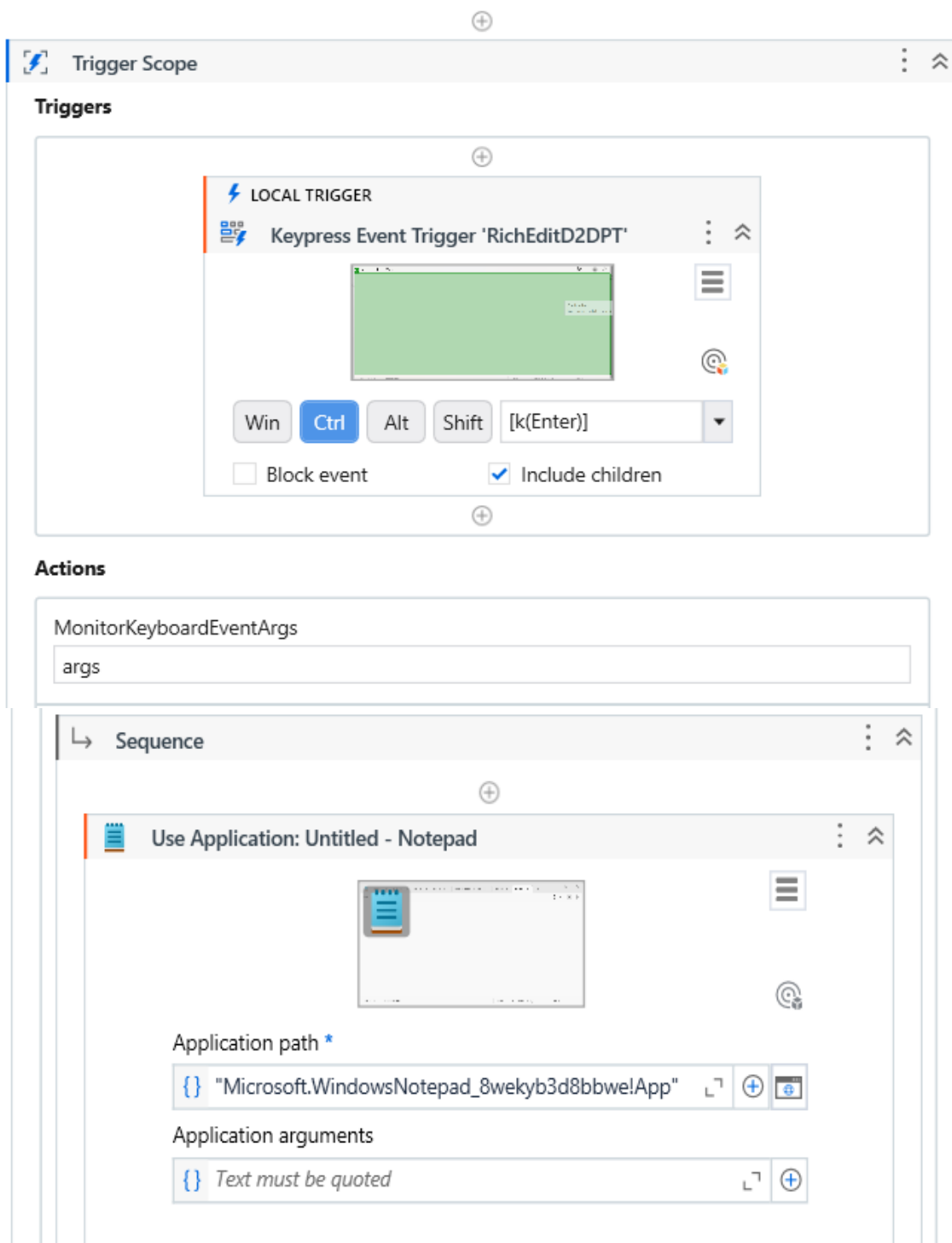
Name	Variable type	Scope	Default
ClientDdimagecontrol	GenericValue	Sequence	Enter a VB expression
Create Variable			

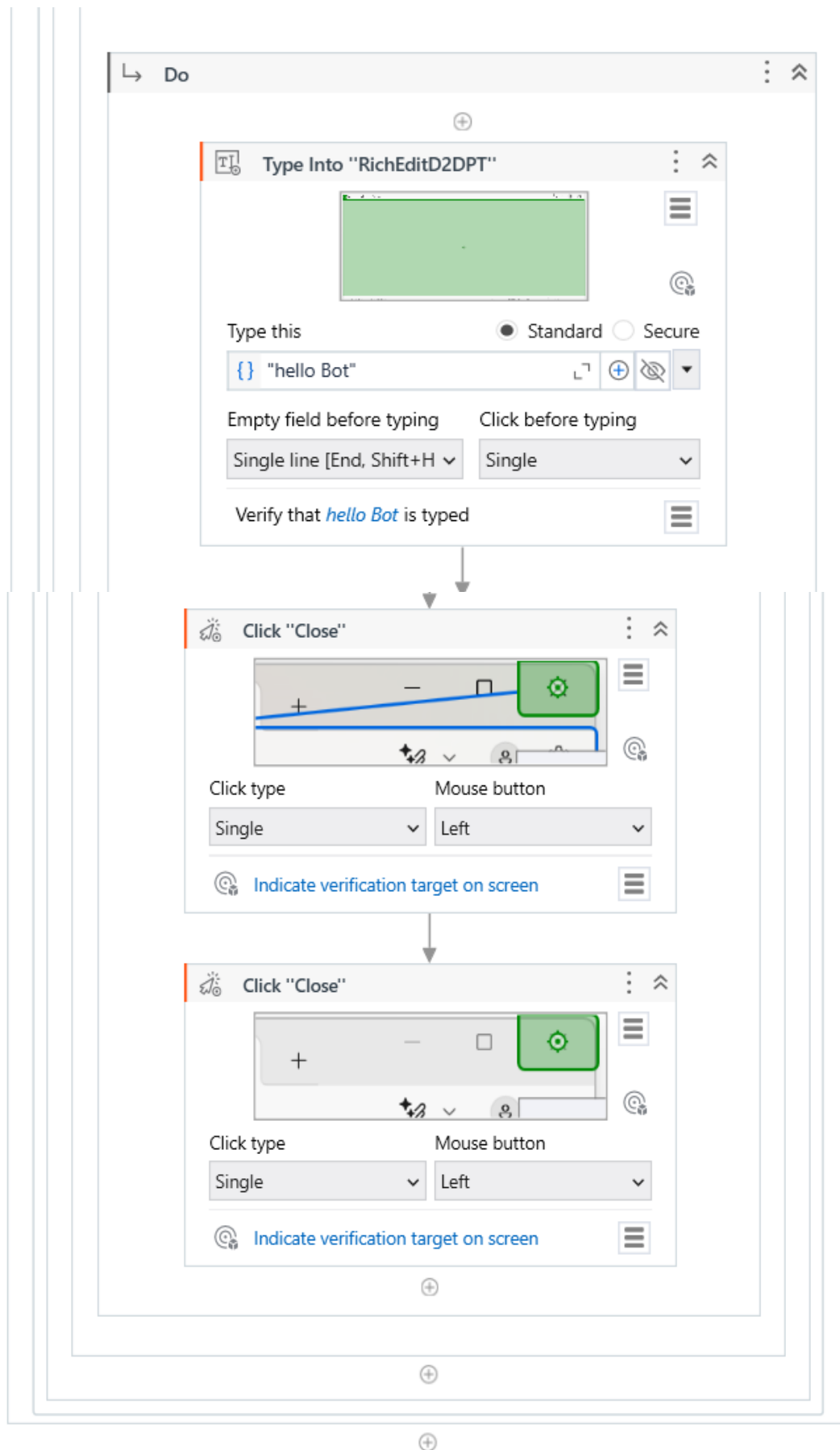


## Output

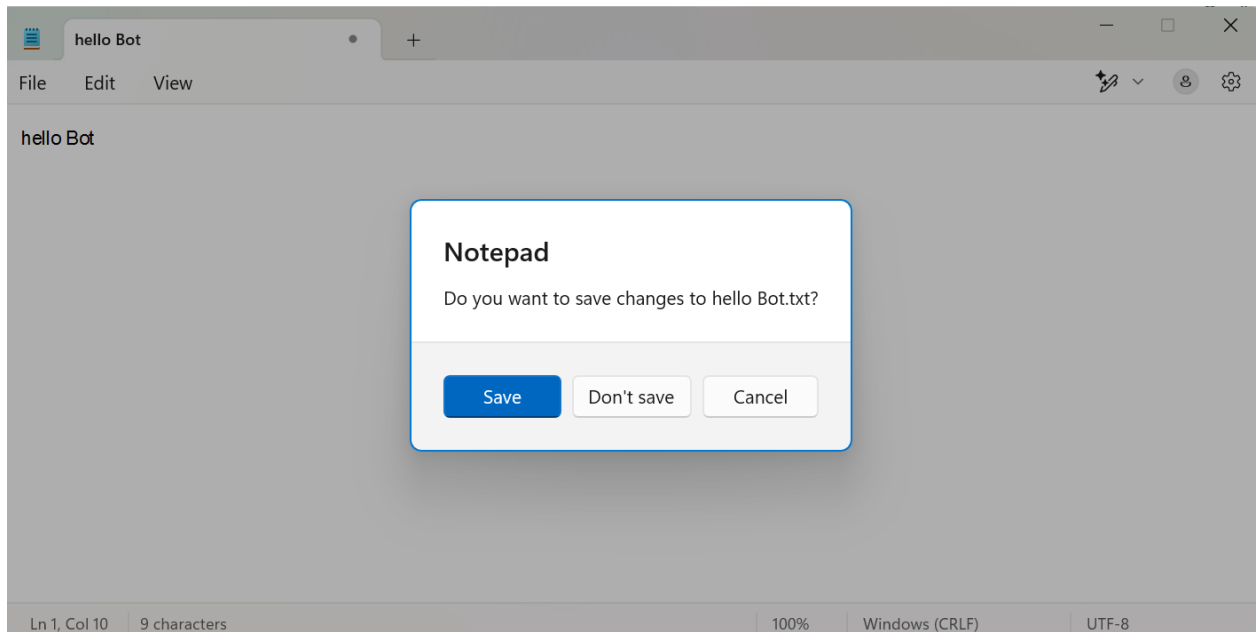


**F.) Automate the process of launching an assistant bot on a keyboard event**





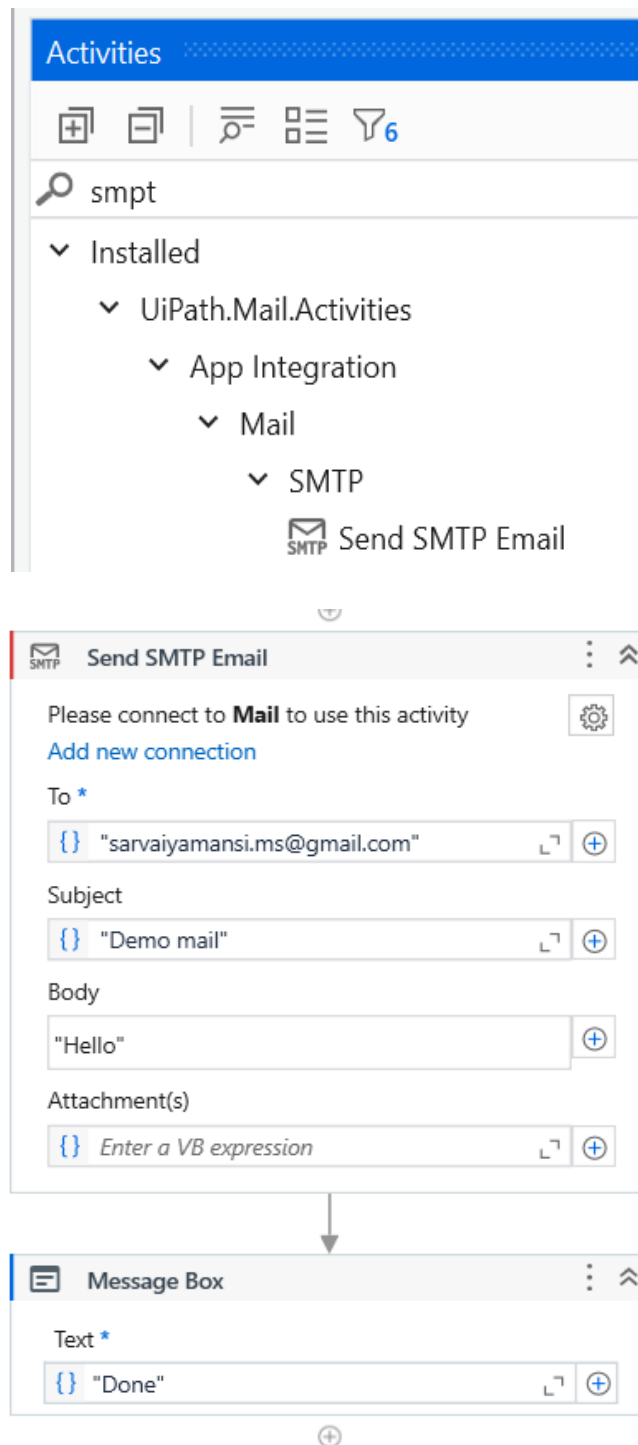
## Output





## **PRACTICAL IV**

A) Automate the process of send mail event (on any email).



Properties

UiPath.Mail.SMTP.Activities.SendMail

Common

TimeoutMS

{} Enter a VB expression

Connection Details

Use Integration Service

☒ True
☐ False

Forward

Mail message

{} Enter a VB expression

Options

Continue on error

☒ True
☐ False

Reply to

{} Enter a VB expression

Reply to

{} Enter a VB expression

Output

Status code

Out

{} result

Receiver

BCC

{} Enter a VB expression

CC

{} Enter a VB expression

Sender

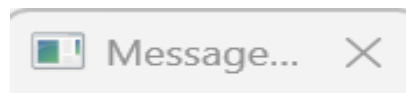
Name

{} "pm.ms103@gmail.com"

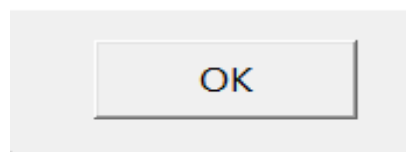
From

{} "pm.ms103@gmail.com"

## Output



Done



## B.) Demonstrate the Exception handling in UiPath.

Main Sequence > Try Catch

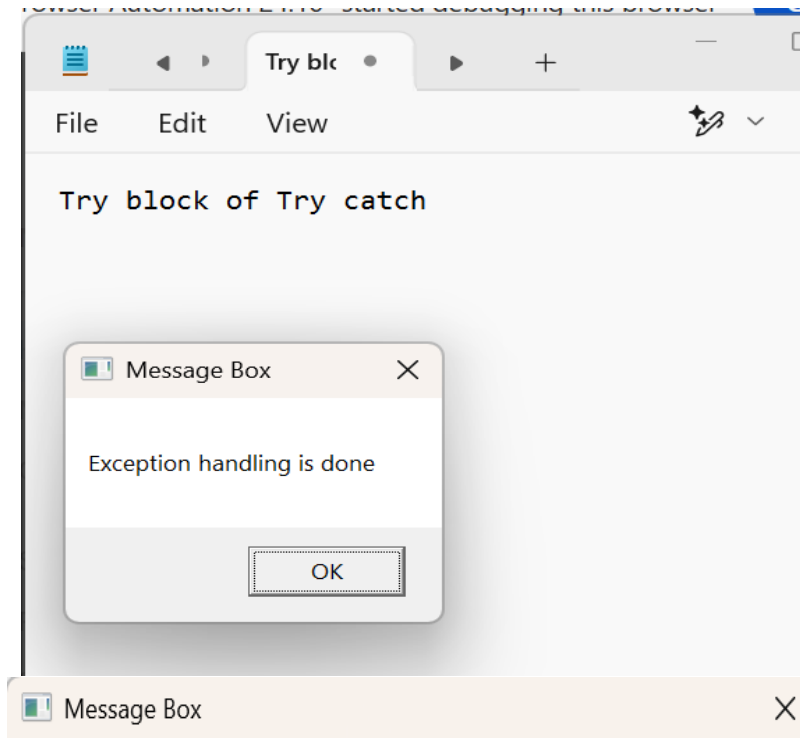
Expand A

The screenshot displays the configuration of a Try Catch activity in UiPath. The activity is expanded to show three sections: Try, Catch, and Finally.

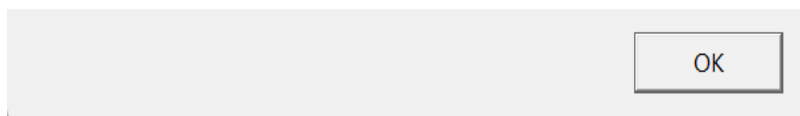
- Try Section:** Contains a 'Type Into' activity targeting 'RichEditD2DPT'. The text input field contains the string "Try block of Try catch".
- Catch Section:** The exception type is set to 'System.Exception'. It contains a 'Message Box' activity with the text input field set to 'exception.ToString'.
- Finally Section:** Contains a 'Message Box' activity with the text input field set to "Exception handling is done".

Below the Catch section, there is an 'Add catch' button.

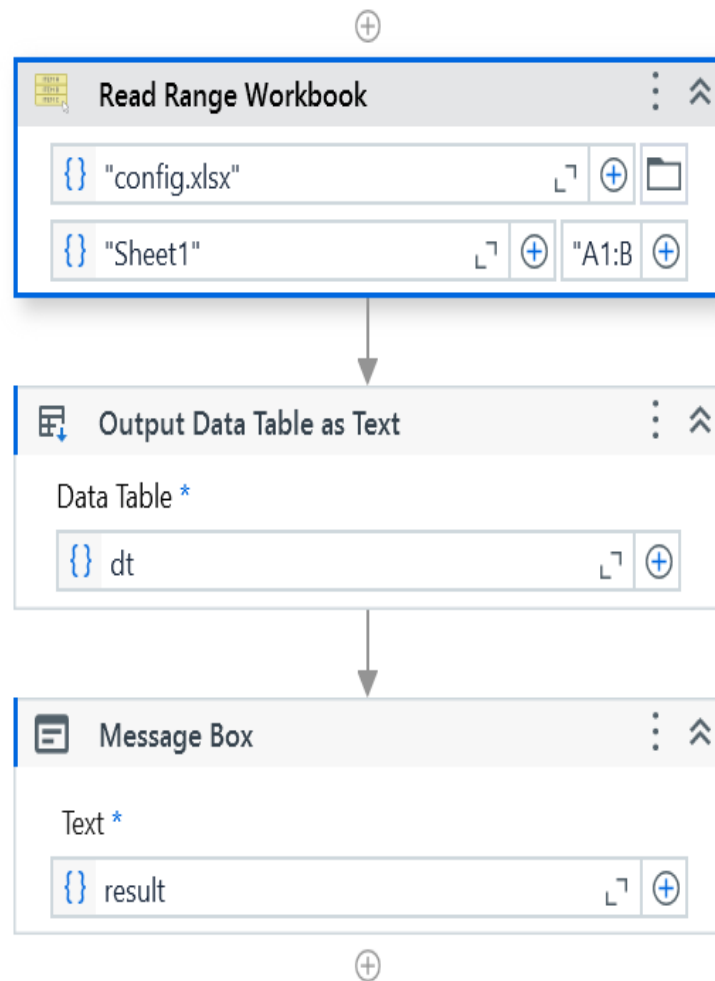
## Output



```
UiPath.Core.SelectorNotFoundException: No open windows found for  
'notepad.exe'. Please check if the application is running.  
at  
UiPath.Core.Activities.ObsoleteTaskAsyncCodeActivity`1.EndExecute(Asyn  
cCodeActivityContext context, IAsyncResult result)  
at  
System.Activities.AsyncCodeActivity.CompleteAsyncCodeActivityData.Co  
mpleteAsyncCodeActivityWorkItem.Execute(ActivityExecutor executor,  
BookmarkManager bookmarkManager)
```



**C.)** Demonstrate the use of config files in UiPath.



Properties ▼ 📌

UiPath.Excel.Activities.ReadRange

**Common**

DisplayName Read Range Workbo

**Input**

File The full pa 🔍 +

File (local path) "config.xls: 🔍 +

Range "A1:B3" 🔍 +

SheetName "Sheet1" 🔍 +

**Misc**

Private ☐

**Options**

Add headers ☒

Password The passw 🔍 +

Use display format ☐

**Output**

DataTable dt +

**Use Workbook**

Workbook Enter a VB 🔍 +

Properties ▼ 📌

UiPath.Core.Activities.OutputDataTable

**Common**

DisplayName Output Data Table a

**Input**

Data Table dt 🔍 +

**Misc**

Private ☐

**Output**

Text result +

Message... ✕

mansi,20  
prachi,21  
pass,1583

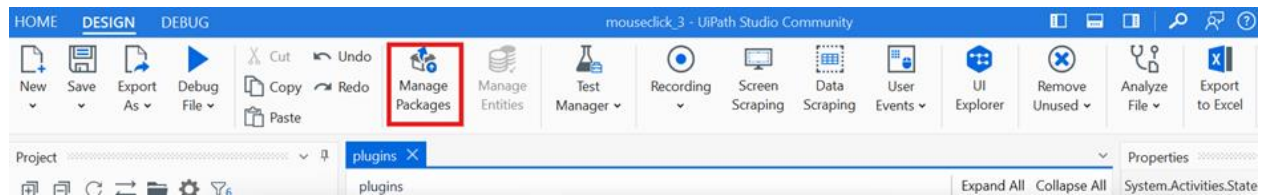
OK

**D.)** Install and automate any process using UiPath with the following plug-ins:

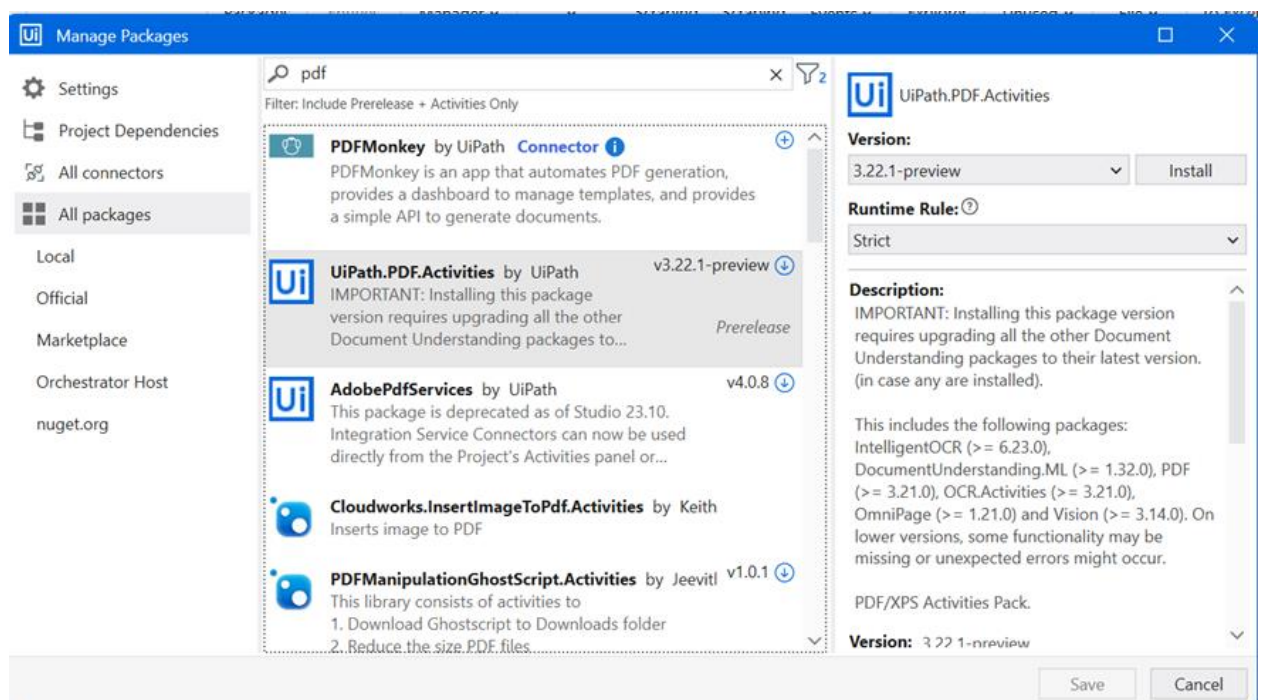
- i. PDF Plugin
- ii. Excel Plugin
- iii. Word Plugin

## **I.) PDF Plugin**

1. For PDF plugin, Click on Process and create process Practical8C\_iii, give description and click on create.

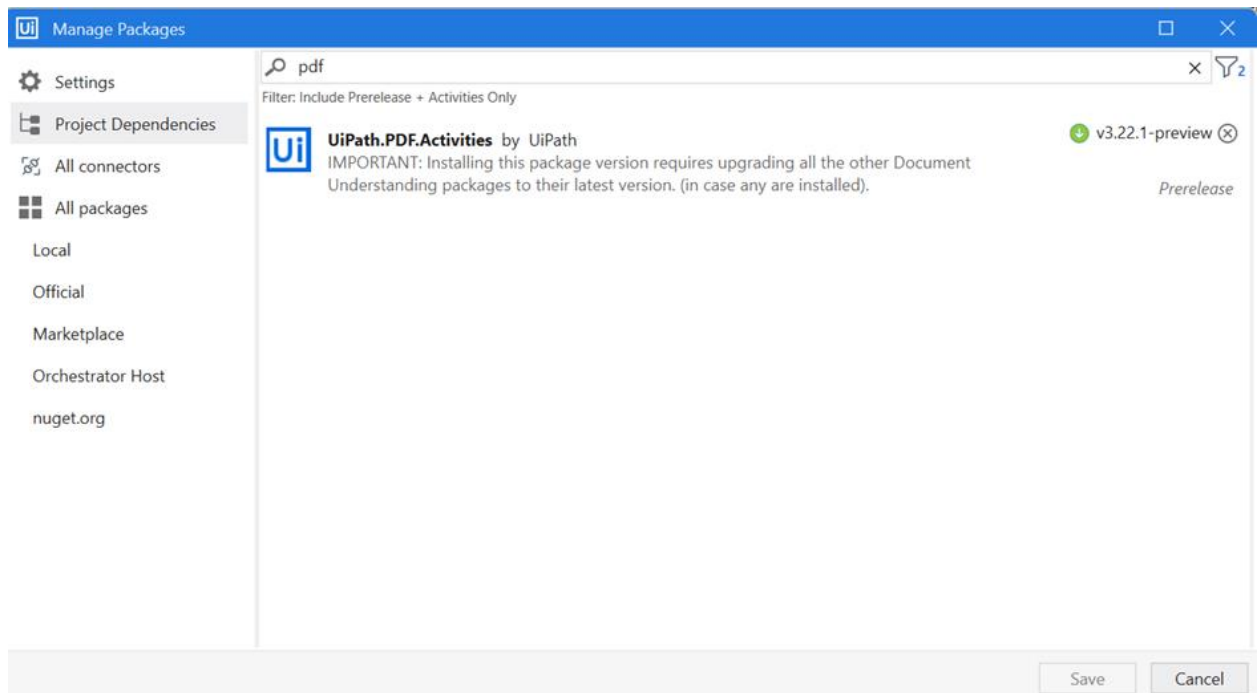


2. Click on Manage Packages, then click on All Packages and search for pdf.



3. Install 'UiPath.PDF.Activities' package and click save. After installation it will be displayed in project dependencies.





4. Create one pdf file
5. Search for read pdf text in activities, drag and drop it in main sequence. Locate the file.
6. In properties, set output as pdf variable.

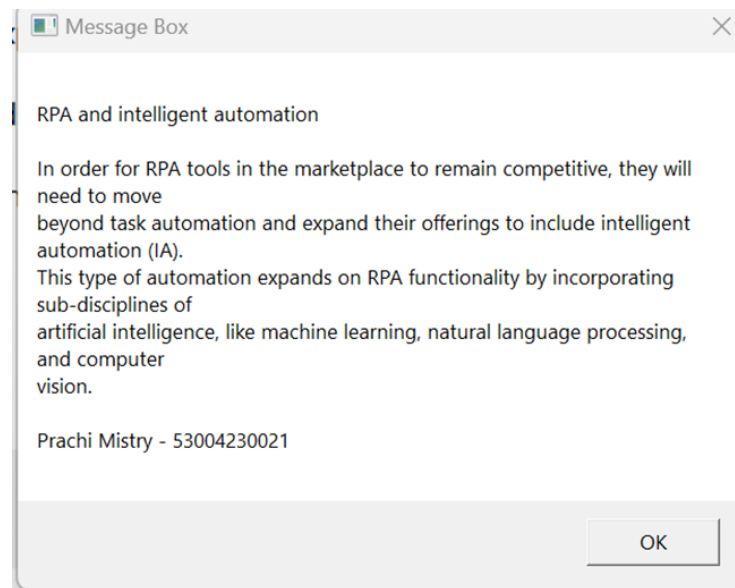
plugins Expand All Collapse All

Name	Variable type	Scope	Default
output	String	plugins	Enter a VB expression

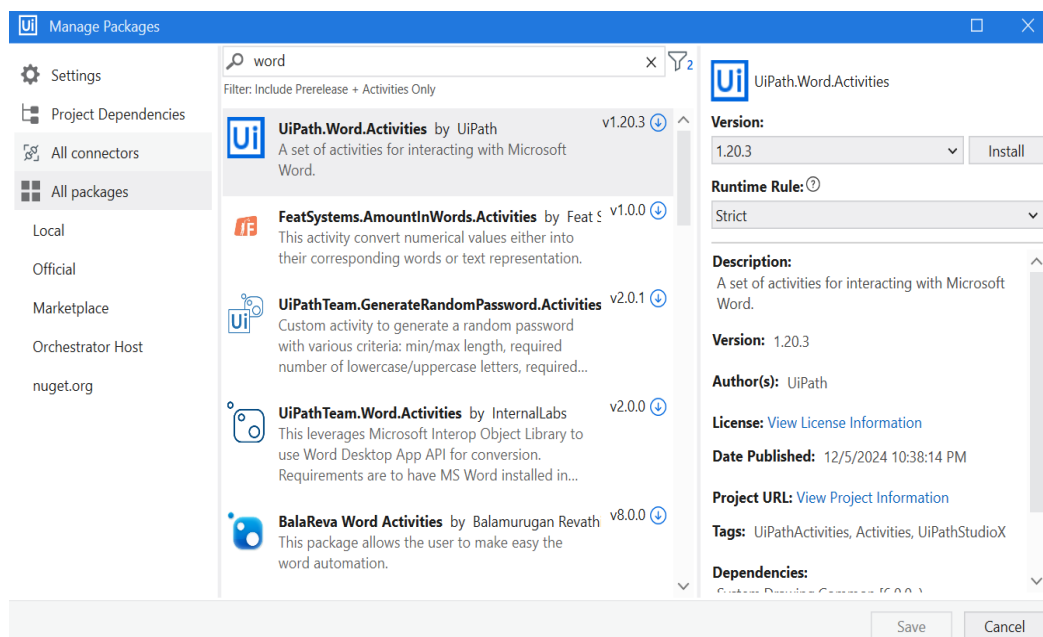
Create Variable

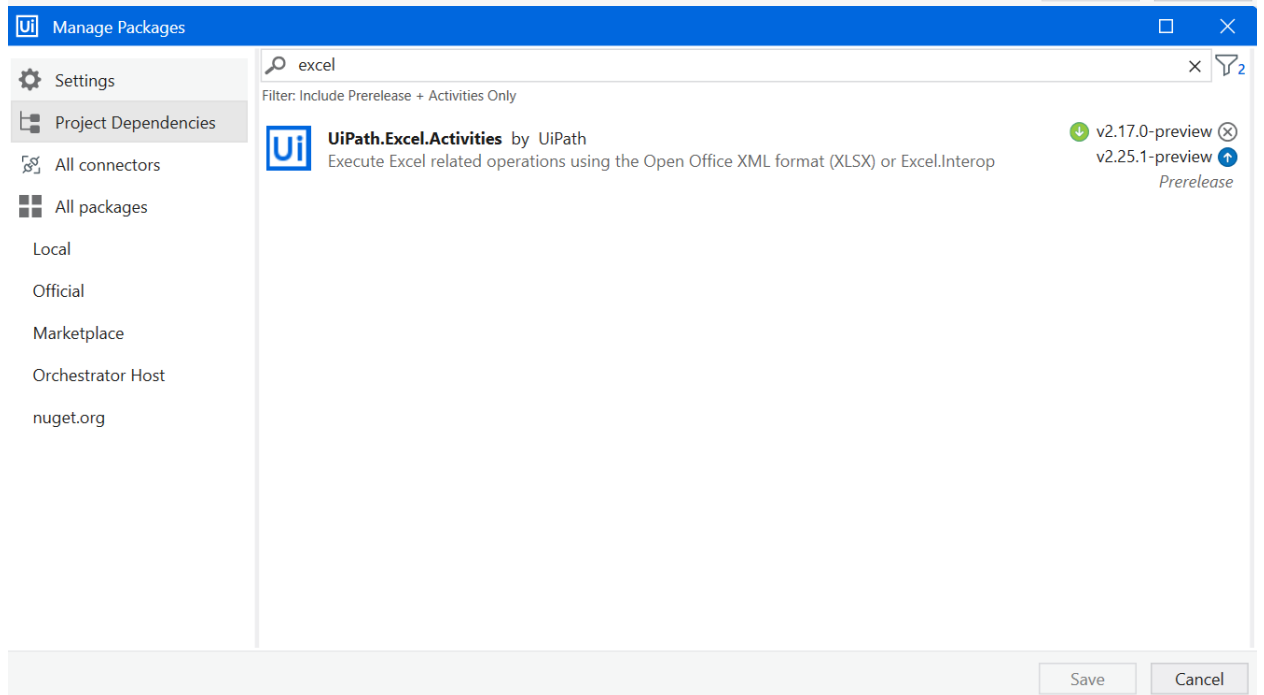
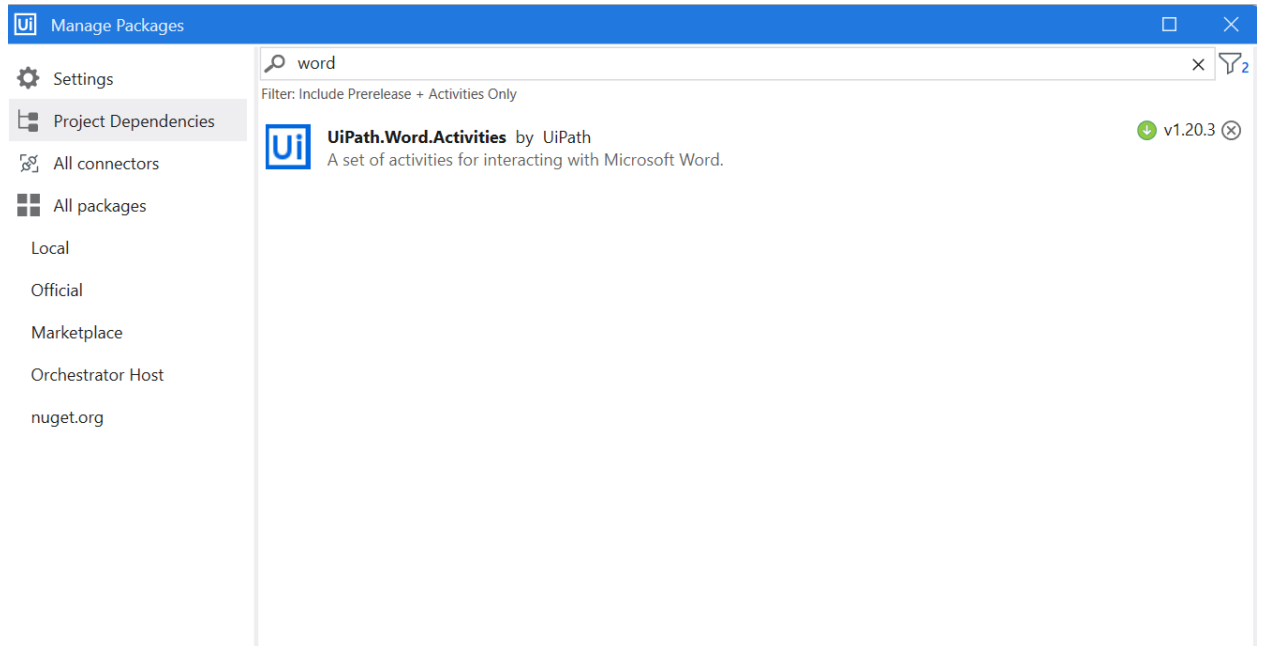
7. Drag message box below pdf activities. Display pdf variable in it and Click on run file or ctrl+F6.

## Output



## II.) Word plugin



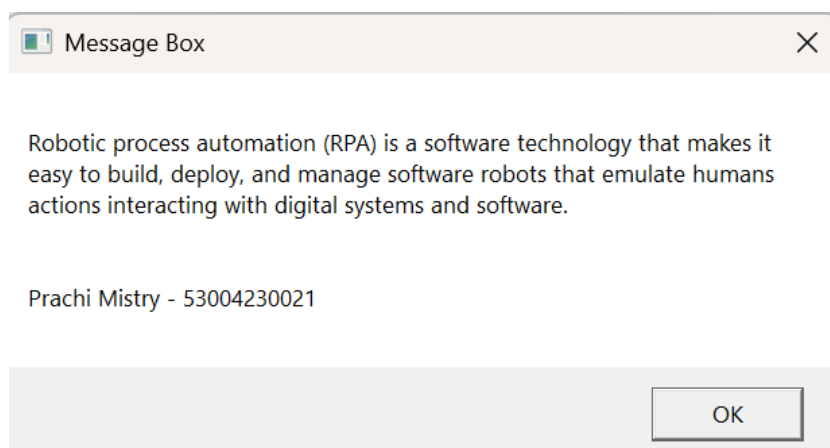


The screenshot shows the UiPath Main Sequence editor. At the top, there is a 'Word Application Scope' activity with the file path `"C:\Users\Home\Desktop\Robotic process automation.docx"`. Below it is a 'Do' loop containing a 'Read Text' activity. The 'Read Text' activity has a 'Save to' property set to a variable `r`. An arrow points from the 'Do' loop to a 'Message Box' activity. The 'Message Box' activity has a 'Text' property set to the expression `r + Environment.NewLine+Environment.NewLine`. Below the activities, there is a table with the following data:

Name	Variable type	Scope	Default
r	String	Main Sequence	Enter a VB expression

Below the table, there is a link that says 'Create Variable'.

## Output



### III.) Excel plugin

The screenshot shows the 'Manage Packages' window in UiPath. The left sidebar contains navigation options: Settings, Project Dependencies, All connectors, All packages (selected), Local, Official, Marketplace, Orchestrator Host, and nuget.org. The main search bar contains the text 'excel'. Below the search bar, a filter indicates 'Filter: Include Prerelease + Activities Only'. A list of search results is displayed, including 'UiPath.Excel.Activities' by UiPath (v2.25.1-preview, Prerelease), 'Auxiliobits.UtilityExcelToDictionary.Activities' by v2.0.1, 'BalaReva EasyExcel Activities' by Balamurugan Re v32.0.0, 'ExcelColumnWidth.Activities' by Om Prakash Dub, and 'ExceltoPDFConversionActivities' by Sreyas VS. The right pane shows details for 'UiPath.Excel.Activities', including its installed version (2.25.1-preview), a description, runtime rule (Strict), and other metadata. Buttons for 'Uninstall' and 'Update' are visible.

**Manage Packages**

Search: excel

Filter: Include Prerelease + Activities Only

**UiPath.Excel.Activities** by UiPath v2.25.1-preview (Prerelease)

Execute Excel related operations using the Open Office XML format (XLSX) or Excel.Interop

**Auxiliobits.UtilityExcelToDictionary.Activities** by v2.0.1

Effortlessly address the challenge of time-consuming tasks involved in reading configuration variables from an Excel file and subsequently...

**BalaReva EasyExcel Activities** by Balamurugan Re v32.0.0

This package's activities are to make easy automation in Excel.

**ExcelColumnWidth.Activities** by Om Prakash Dub

Excel Column Width

1. AllColumnAutoFit
2. ColumnAutoFit

**ExceltoPDFConversionActivities** by Sreyas VS

Converts a Worksheet in an Excel Workbook to an individual PDF File. If the Worksheet is left

**UiPath.Excel.Activities**

**Installed:** 2.25.1-preview [Uninstall]

**Version:** 2.25.1-preview [Update]

**Runtime Rule:** Strict

**Description:** Execute Excel related operations using the Open Office XML format (XLSX) or Excel.Interop

**Version:** 2.25.1-preview

**Author(s):** UiPath

**License:** [View License Information](#)

**Date Published:** 1/11/2025 6:21:56 AM

**Project URL:** [View Project Information](#)

**Tags:** UiPathActivities, Activities, UiPathStudioX

[Save] [Cancel]

This screenshot shows the same 'Manage Packages' window, but with only the 'UiPath.Excel.Activities' package listed in the search results. The package details pane on the right is empty. The search bar still contains 'excel' and the filter remains 'Filter: Include Prerelease + Activities Only'. The 'All packages' option is still selected in the left sidebar.

**Manage Packages**

Search: excel

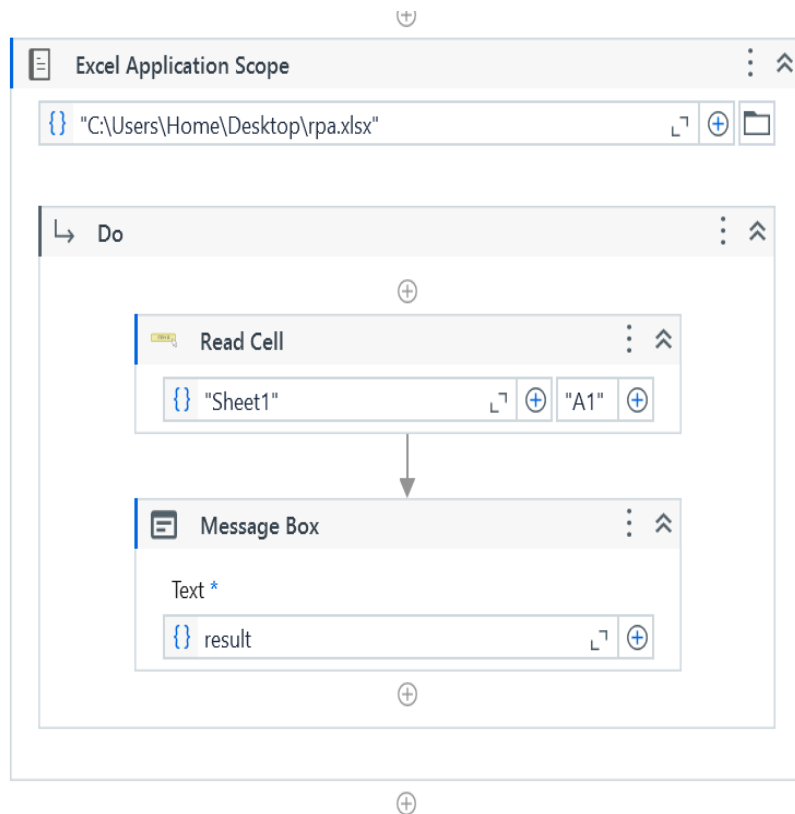
Filter: Include Prerelease + Activities Only

**UiPath.Excel.Activities** by UiPath v2.25.1-preview (Prerelease)

Execute Excel related operations using the Open Office XML format (XLSX) or Excel.Interop

**UiPath.Excel.Activities**

[Save] [Cancel]



## Output

