

INDEX

Sr. No.	Date	Practical Title	Sign
1		a. Create a simple sequence based project. b. Create a flowchart-based project. c. Create an UiPath Robot which can empty a folder in Gmail solely on basis of recording.	
2		a. Automate UiPath Number Calculation (Addition, Subtraction, Multiplication, Division of numbers). b. Create an automation UiPath project using different types of variables (number, datetime, Boolean, generic, array, data table)	
3		a. Create an automation UiPath Project using decision statements. b. Create an automation UiPath Project using looping statements.	
4		a. Automate any process using basic recording. b. Automate any process using desktop recording. c. Automate any process using web recording.	
5		a. 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.	
6		a. Create an application automating the read, write and append operation on excel file. b. Automate the process to extract data from an excel file into a data table and vice versa.	
7		a. Implement the attach window activity. b. Perform find element and element exist activities. c. Demonstrate the following activities in UiPath: i. Mouse (click, double click and hover) ii. Type into iii. Type Secure text	

8		A. Demonstrate the following events in UiPath: i. Element Triggering Event ii. Image Triggering Event iii. System Triggering Event	
		B. Automate the following screen scraping methods using UiPath i. OCR	
		C. Install and automate any process using UiPath with the following plug-ins: i. PDF Plugin ii. Word Plugin iii. Credential Management	
9		a. Automate the process of send mail event (on any email) b. Demonstrate the Exception handling in UiPath	
10		a. Automate any process using State Machine in UiPath. b. Demonstrate the use of publish utility. c. Do assets using orchestrator	

PRACTICAL NO: 1

AIM: Create a simple Sequence based project.

PROCEDURE: Method 1

Steps:

- 1) After opening UiPath Studio click on New Project and then Process.

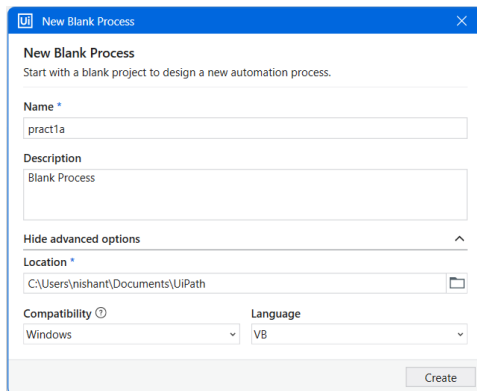
New Project



Process

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

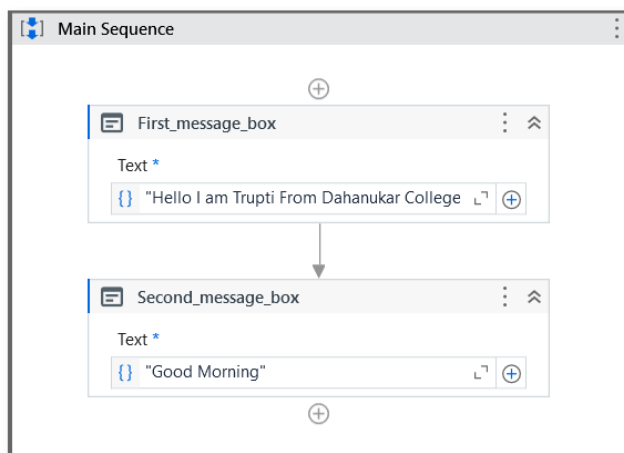
- 2) Create a blank process and give it a name.



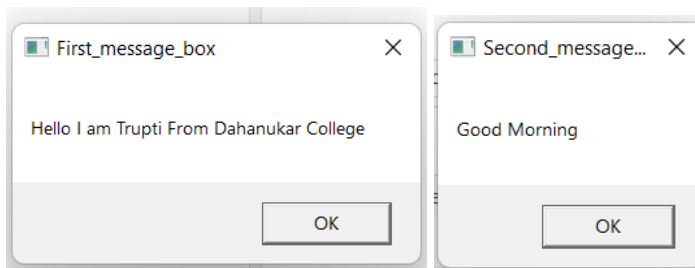
- 3) Open Main Workflow



- 4) Drag and Drop Sequence activity and within that Activity Drag and Drop Writeline Activity.



Output :



Conclusion: We have successfully implemented the simple sequence based project.

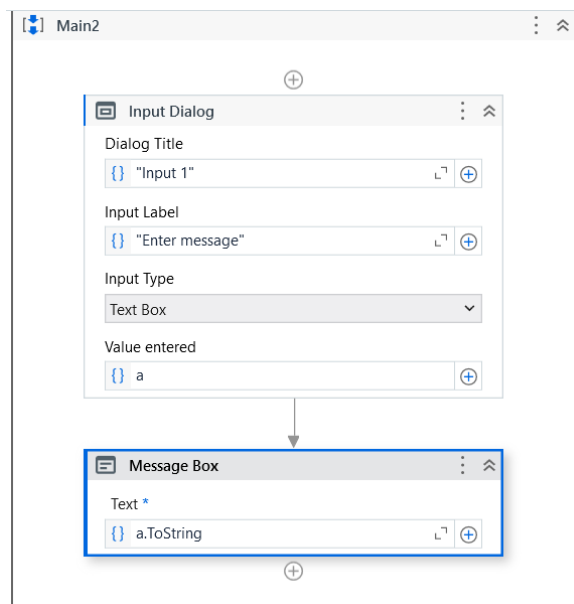
METHOD 2

Steps:

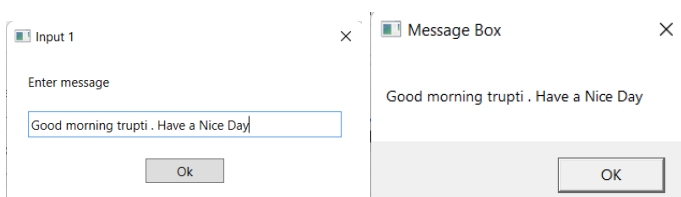
- 1) Drag and Drop Sequence activity and within that Activity Drag and Drop Input Dialog Box Activity.
- 2) Create variable in variables column with specific variable type and Scope

Name	Variable type	Scope	Default
a	String	Main2	Enter a VB expression

- 3) Fill the details



Output :

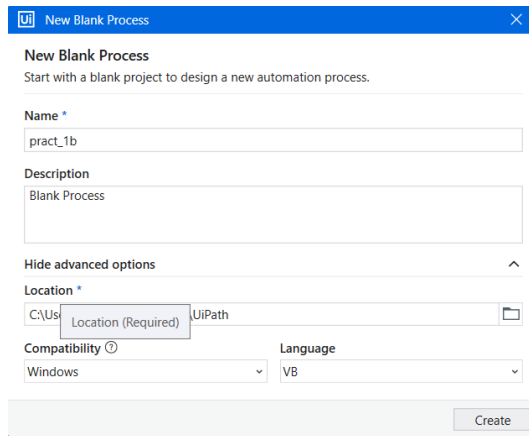


Conclusion: We have successfully implemented the simple sequence based project.

B.Create a Flowchart based project

Steps:

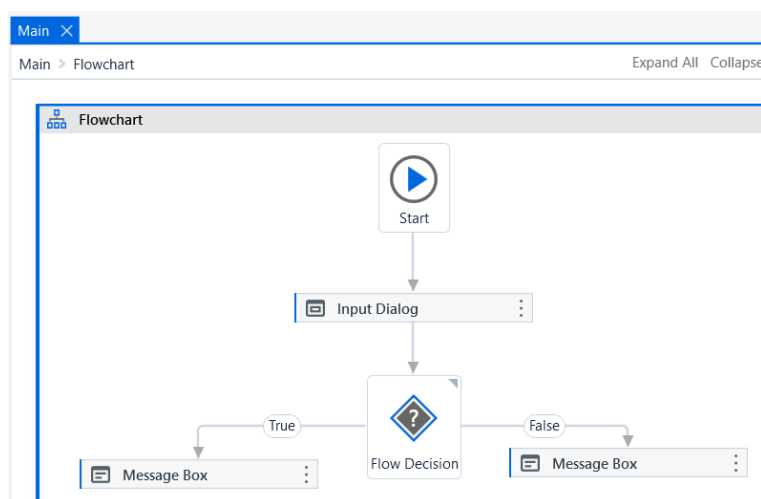
- 1) Create a blank project and give it a suitable name.



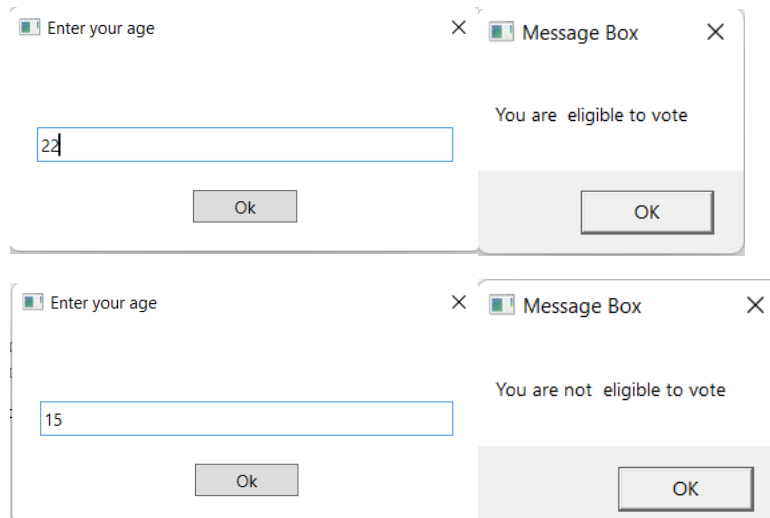
- 2) Drag and Drop Flowchart activity and within that Activity Drag and Drop Input Dialog Box Activity.
- 3) Create the variable and fill the details.

Name	Variable type	Scope	Default
var1	Int32	Flowchart	1

- 4) Drag and drop Flow decision Activity and give the condition in properties window
Check for the condition:- If Person is eligible to vote or not vote within specific age criteria.
 - a) Condition:- $\text{var1} \geq 21$
 - b) If “True”, person is eligible to vote.
 - c) If “False”, person is not eligible to vote.



Output: Run the Project

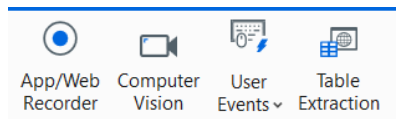


Conclusion: We have successfully implemented the flowchart based project.

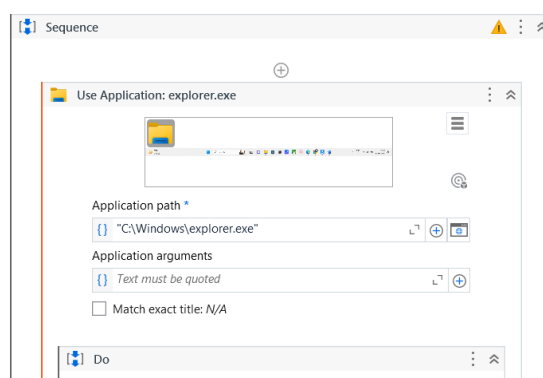
C. Create an UiPath-Robot which can empty a folder in Gmail solely on the basis of recording.

Steps:

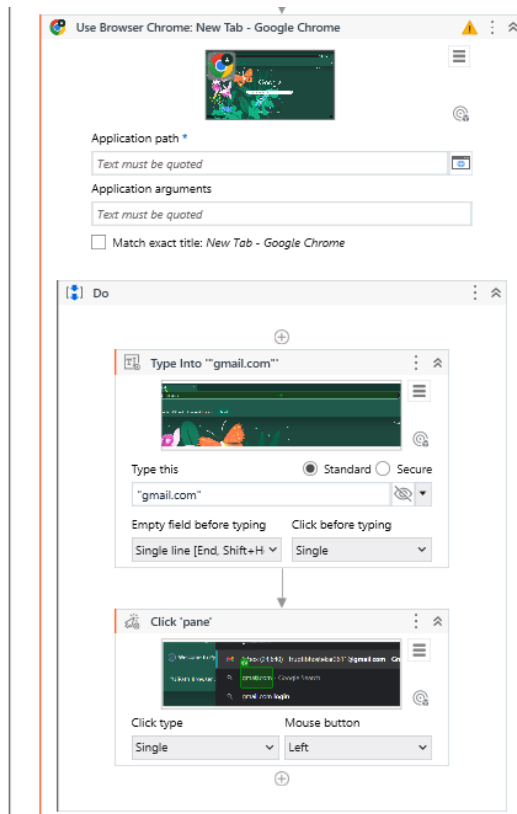
- 1) Drag and Drop Sequence Activity
- 2) Click on the App Web Recorder.



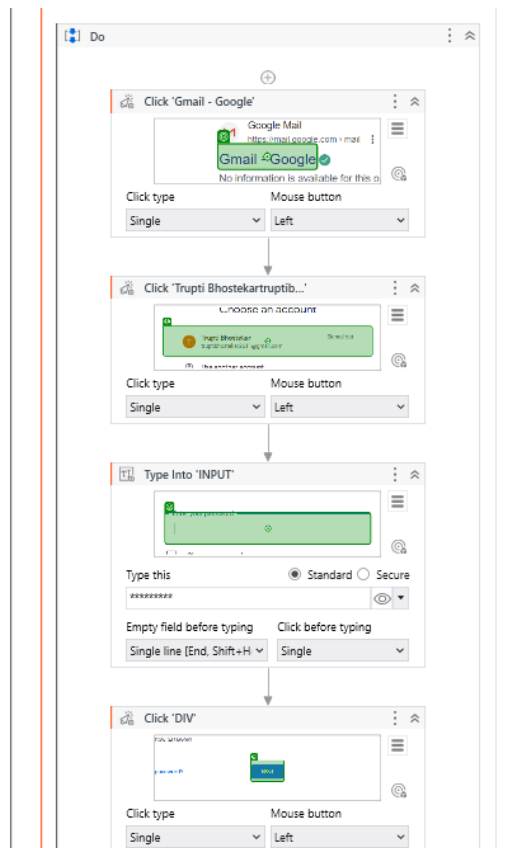
- 3) Recording of the steps will get start
- 4) Mouse hover to the Google icon and select “Click” Activity



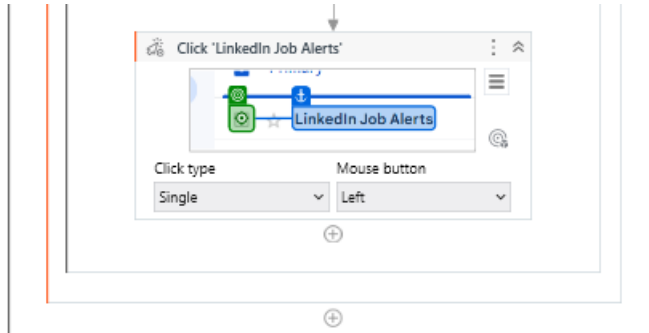
- 5) Mouse hover to the address bar and select “Click” activity and then select “Type Into” Activity and type “gmail.com”. Then select “Click” activity
- 6) Mouse hover to the Gmail website and select the “Click” activity.



- 7) First, we need to Login the Gmail Account. Select the account for login through “Click” activity. Type the Password by “Type Into” activity.
- 8) Click on Next, Go to “More” option through “Click” activity.



- 9) Select “Trash” option through “Click” activity. Then select the Mails that you want to delete
- 10) Select “Delete Forever” option through “Click” activity. And then go for Logging out of the Account by simply clicking on Google icon on the right hand side of the window through “Click” activity. Click on “Sign Out” button for Signing Out.



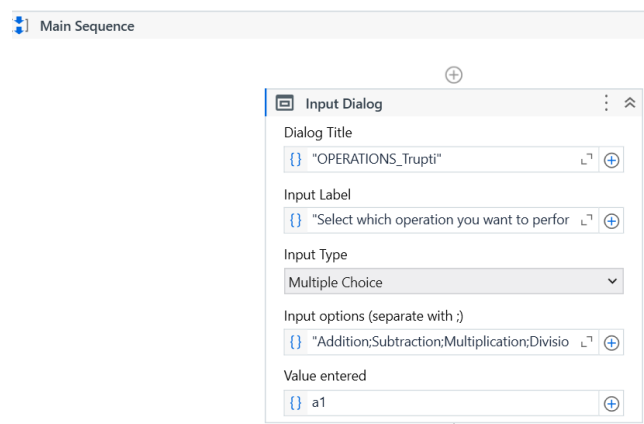
Conclusion: We have successfully implemented UiPath-Robot that can empty a folder in Gmail solely on the basis of recording.

PRACTICAL NO: 2

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

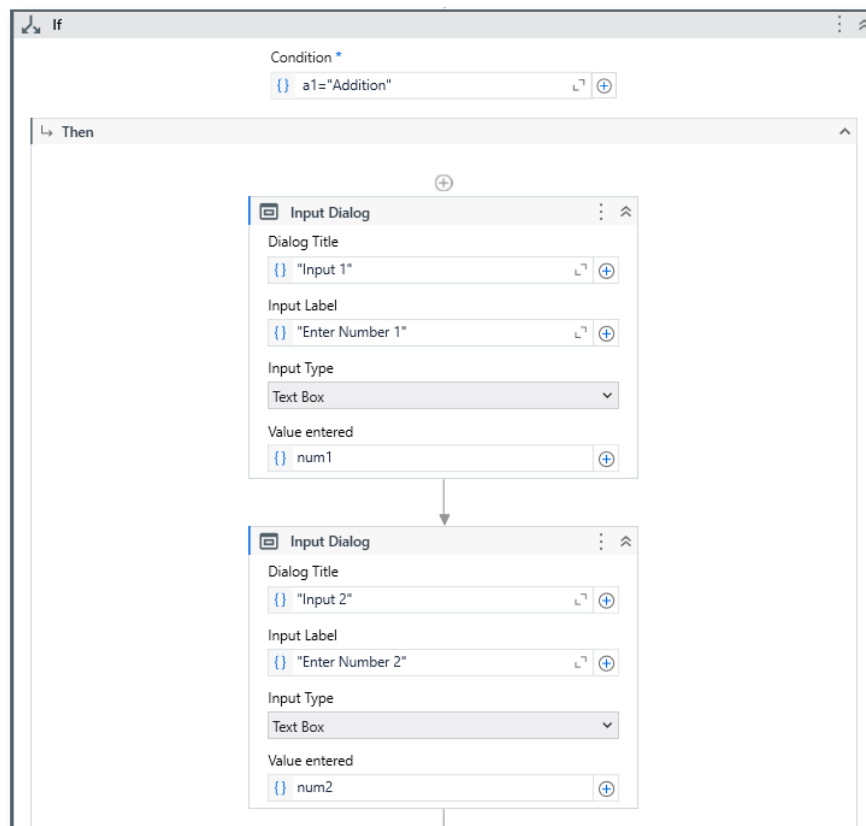
Steps:

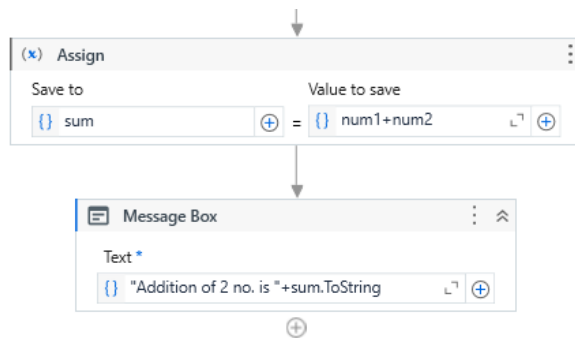
- 1) Create Blank Project, click on Main WorkFlow.
- 2) Drag and drop Sequence Activity. Insert “Input Dialog Box” Activity and fill the details.



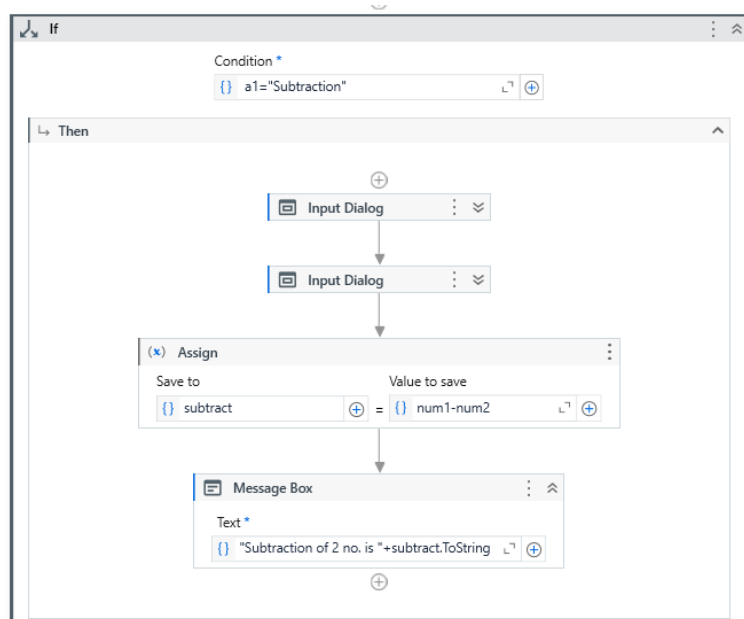
- 3) Drag and drop “If” activity and perform operations.

ADDITION:

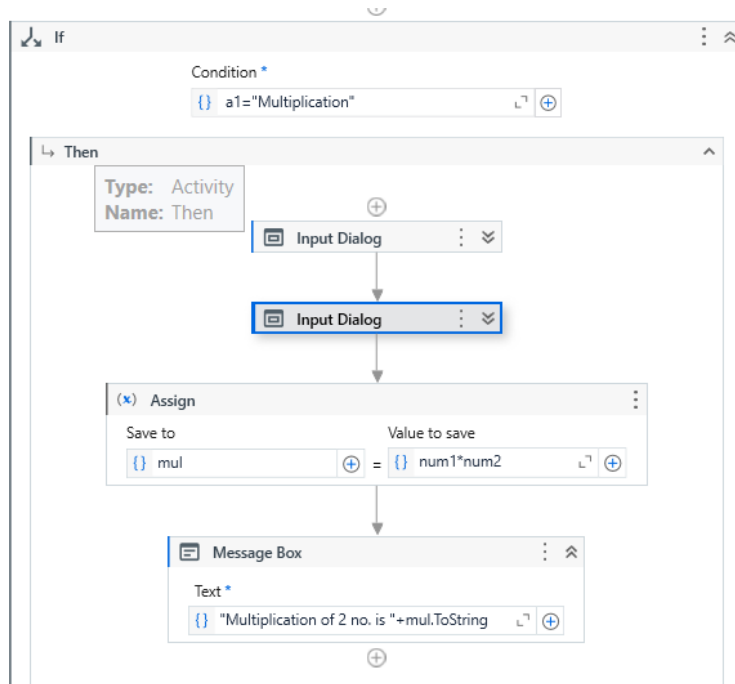




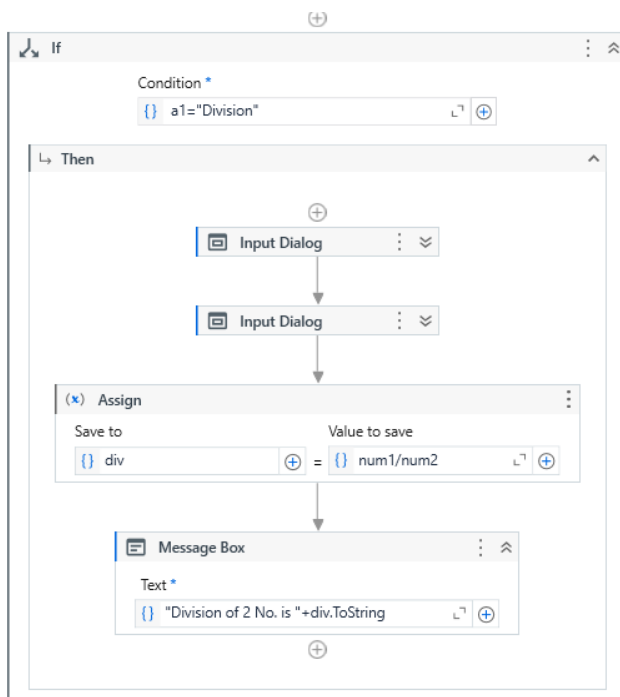
SUBTRACTION



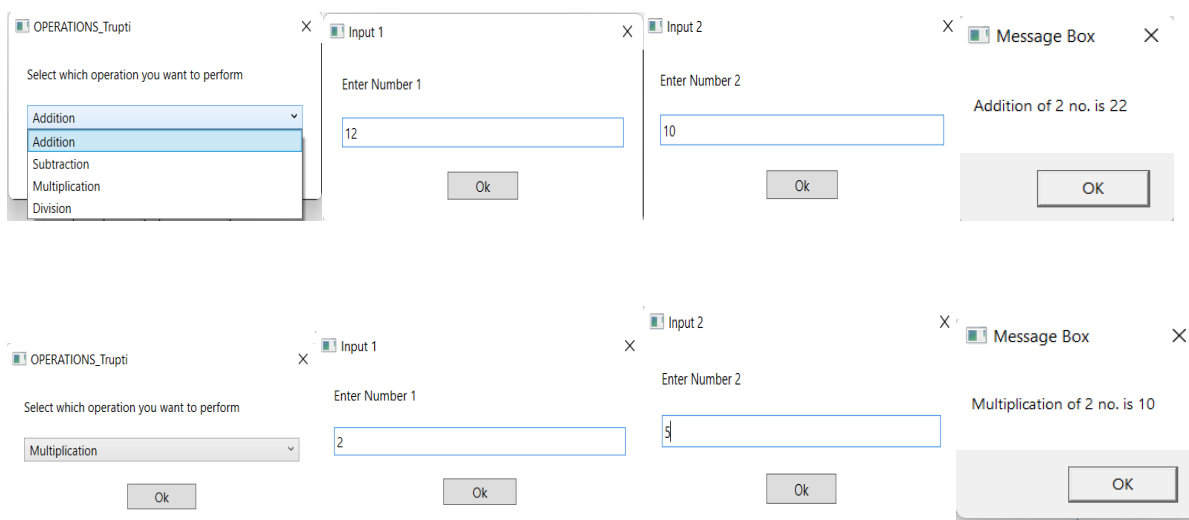
MULTIPLICATION



DIVISION



Output:



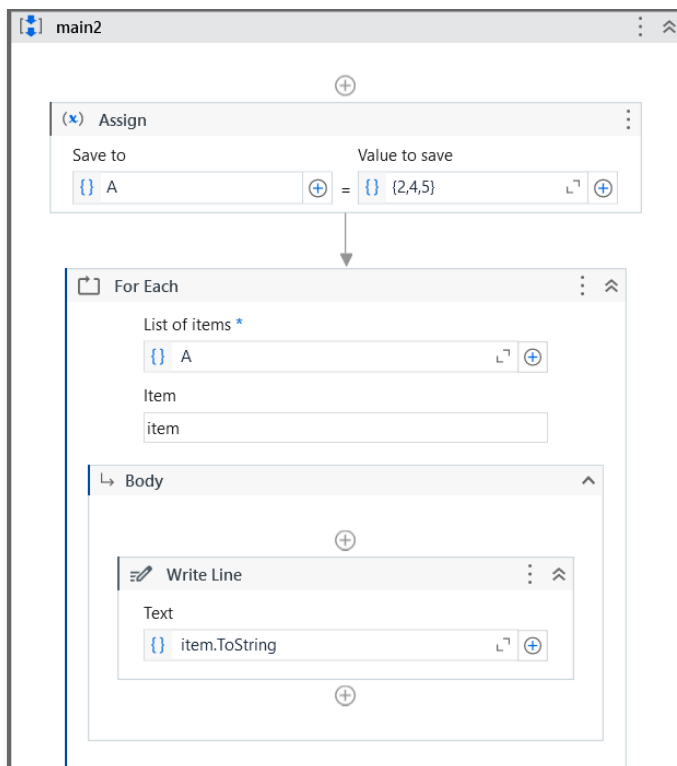
Conclusion: We have successfully automated UiPath Number Calculation(Subtraction, Multiplication, Division of Numbers).

B. Create an automation UiPath project on Array, sum of array counting numbers of vowels and consonants.

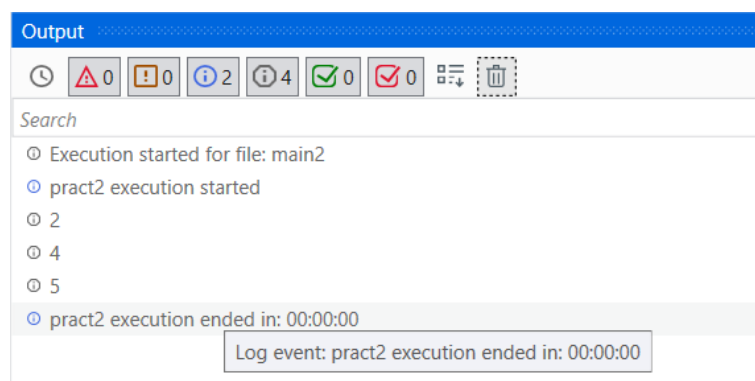
Steps:

ARRAY

- 1) Create Blank Project with suitable name and open main workflow.
- 2) Drag and drop Sequence Activity.
- 3) First use “Assign” activity for assigning array to the variable “A”.
- 4) Within “For Each” activity perform the step and in “Writeline” activity type the “item.ToString” for displaying items in the array of strings as the output.



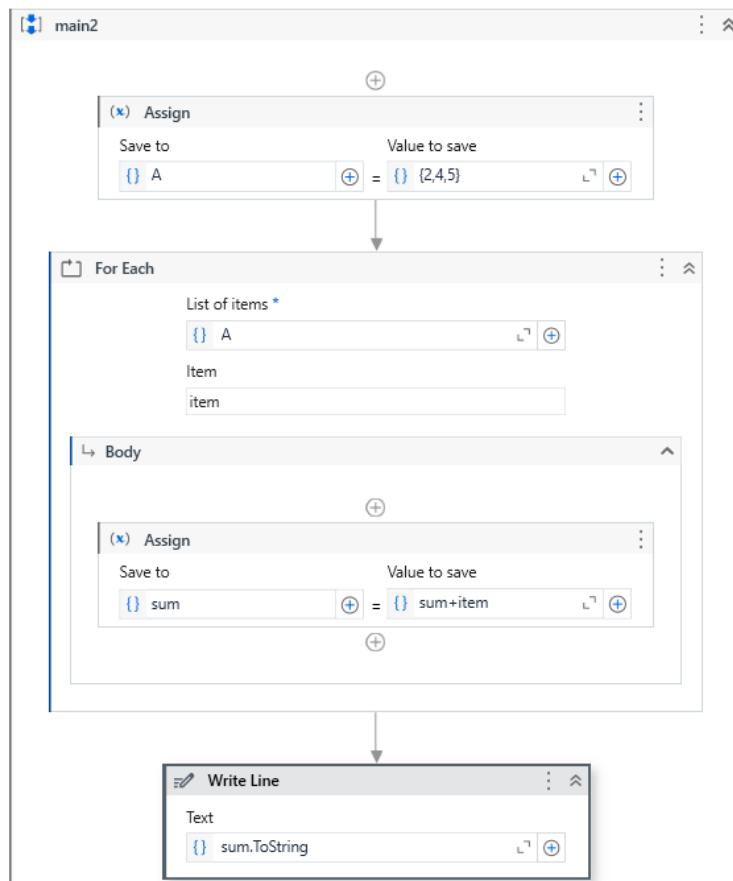
Output :



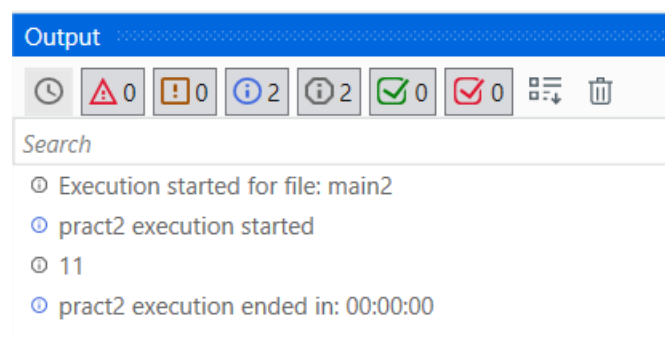
Conclusion: We have successfully implemented an automation UiPath project on Array.

SUM OF ARRAY

- 1) Drag and drop Sequence activity.
- 2) Within Sequence activity, drag and drop “Assign” activity.
- 3) After that drag and drop “ForEach” activity for performing operation on sum of arrays.
- 4) Drag and drop “Writeline” activity for displaying output.



Output :



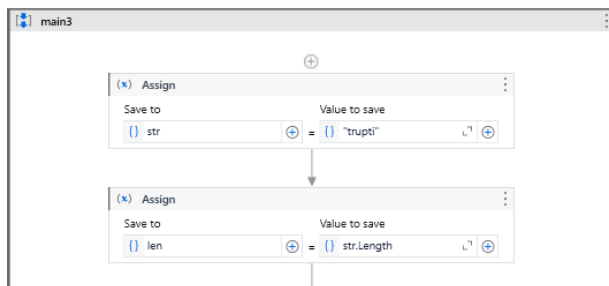
Conclusion: We have successfully implemented an automation UiPath project on Sum of Array.

COUNT OF VOWELS AND CONSONANTS

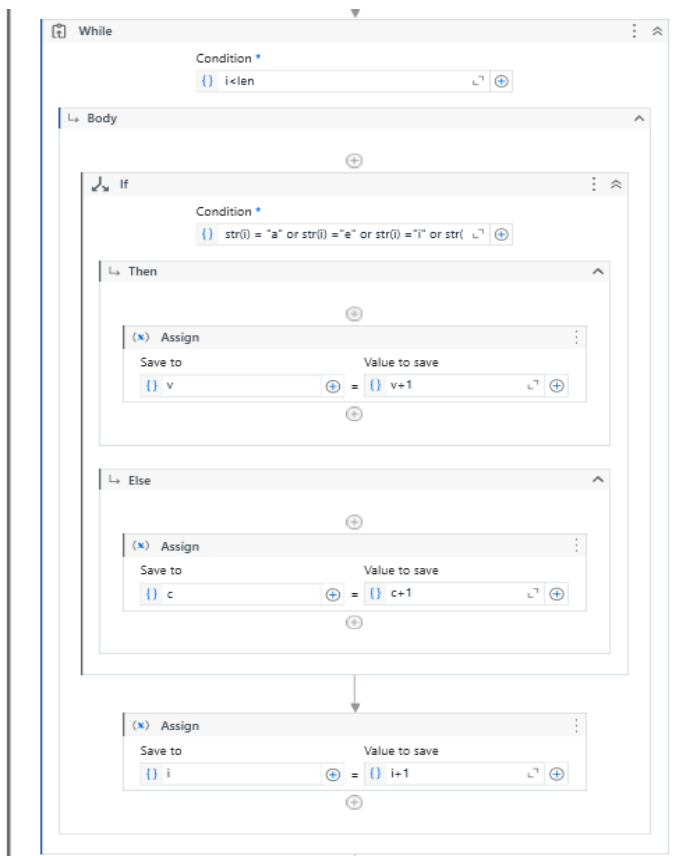
- 1) Drag and drop Sequence activity.
- 2) Within Sequence activity, drag and drop “Assign” activity and assign values to the variables.

Name	Variable type	Scope	Default
str	String	main3	Enter a VB expression
v	Int32	main3	Enter a VB expression
i	Int32	main3	Enter a VB expression
len	Int32	main3	Enter a VB expression
c	Int32	main3	Enter a VB expression

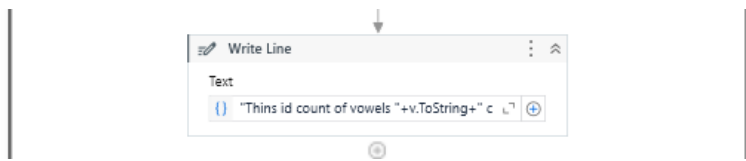
Create Variable



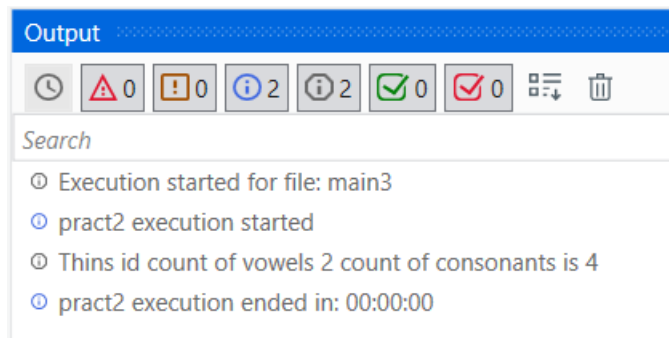
- 3) Drag and drop “While” activity and specify condition according to the requirement of the practical.
- 4) Under “While” activity, drag and drop “If” activity and specify condition according to the requirement of the practical.



5) Lastly, drag and drop “Writeline” activity for displaying result.



Output :



Conclusion: We have successfully implemented an automation UiPath project on counts on Vowels and Consonants.

PRACTICAL NO: 3

A. Create an automation UiPath project using decision statements.

1) Assign Number to the variable.

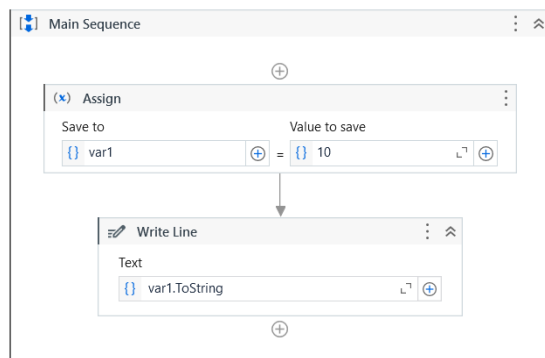
Steps :

a) Create variable “var1” and assign value to it.

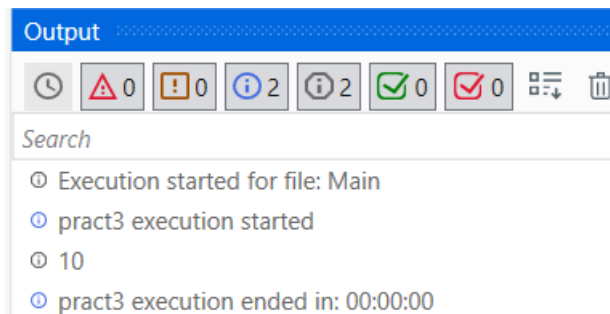
Name	Variable type	Scope	Default
var1	Int32	Main Sequence	Enter a VB expression

b) Drag and drop Sequence activity.

c) Inside Sequence drag and drop “Assign” and “Writeline” activity.



Output :



2) Working of Delay Activity

Steps :

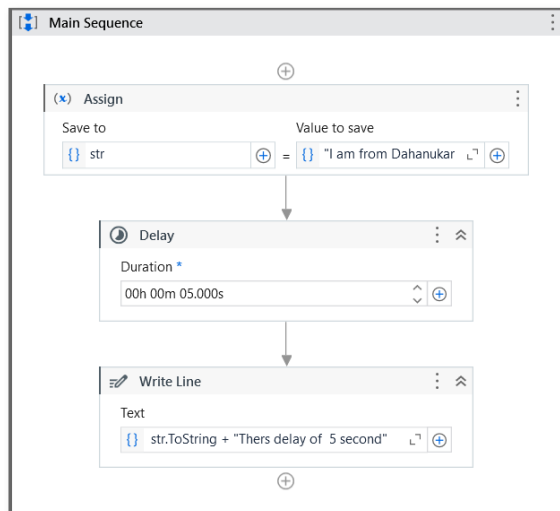
a) Create a string and assign a specific name.

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

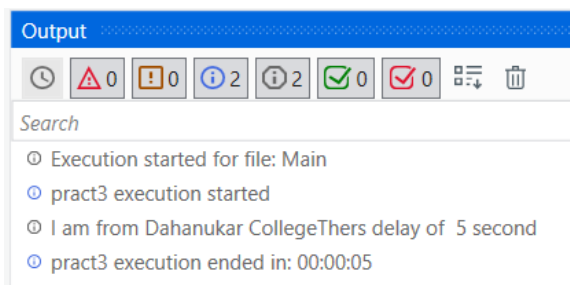
b) Drag and drop Sequence activity.

c) Under Sequence activity, drag and drop “assign”, “Delay” and “Writeline” activity.

d) Perform the steps given below.



Output :



3) Break Activity

Steps :

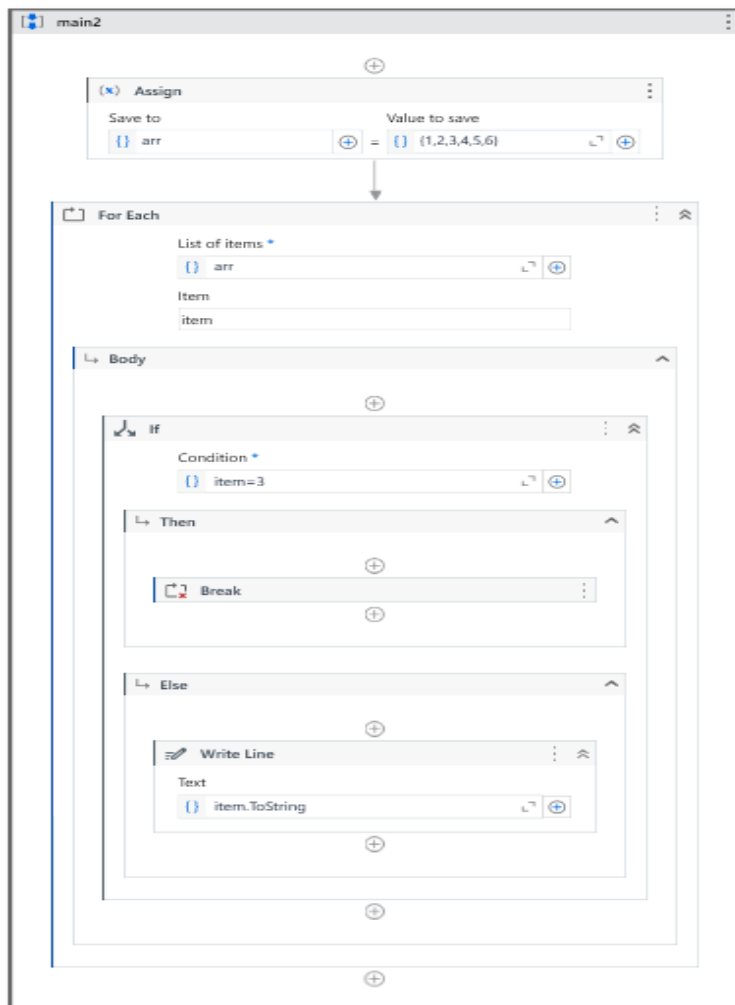
a) Create variable of integer array.

Name	Variable type	Scope	Default
arr	Int32[]	main2	Enter a VB expres

b) Drag and drop Sequence activity.

c) Under Sequence activity, drag and drop “Assign”, “ForEach” and “If” activity.

d) Perform the steps.



Output :

Output

⌚

⚠ 0

⚠ 0

ℹ 2

ℹ 3

✅ 0

❌ 0

⚙

🗑

Search

⌚ Execution started for file: main2

⌚ pract3 execution started

⌚ 1

⌚ 2

⌚ pract3 execution ended in: 00:00:00

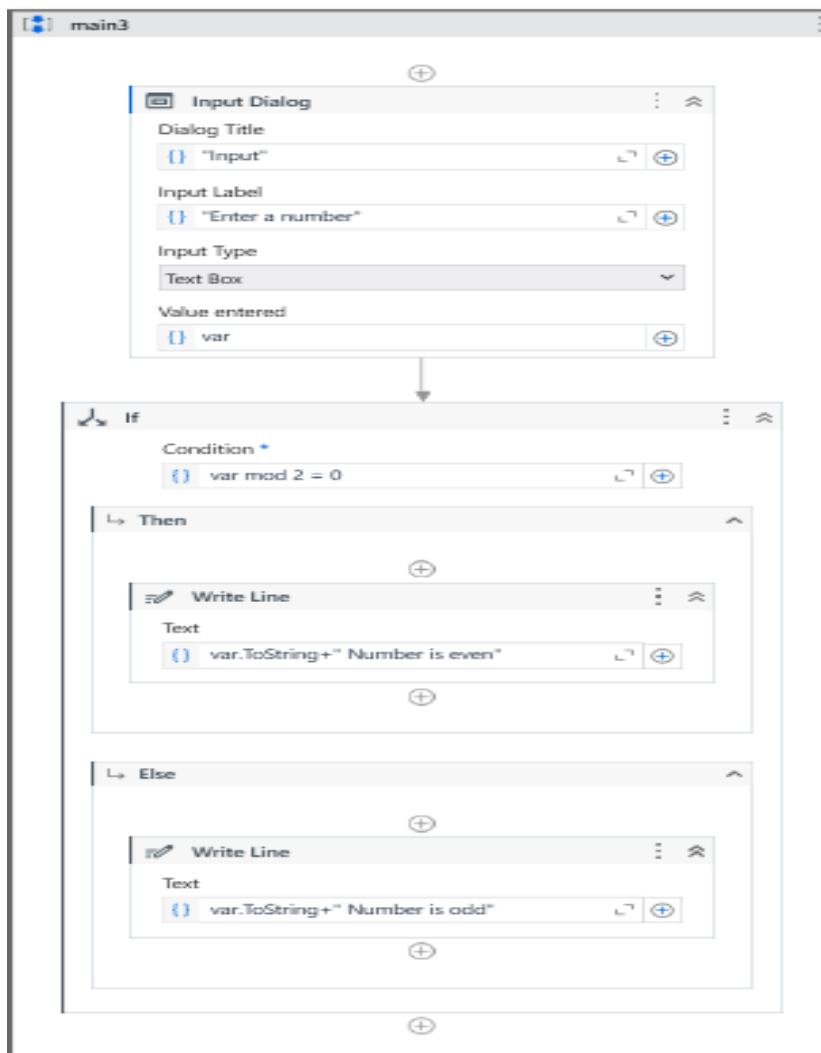
4) Even or Odd Number

Steps :

a) Create variable “var”.

Name	Variable type	Scope	Default
var	Int32	main3	Enter a VB expression

- b) Drag and drop Sequence activity.
- c) Under Sequence activity, drag and drop “Input dialog” and “If” activities.
- d) Perform the steps.



Output :

Input

Enter a number

6

Ok

Output

⌚ 0 ⚠ 0 ⓘ 2 ⓘ 2 ✅ 0 ✔ 0

Search

⌚ Execution started for file: main3

⌚ pract3 execution started

⌚ 6 Number is even

⌚ pract3 execution ended in: 00:00:17

5) Switch Case

Case 1: Finding factorial of the number.

Case 2: Swapping of two numbers.

Steps :

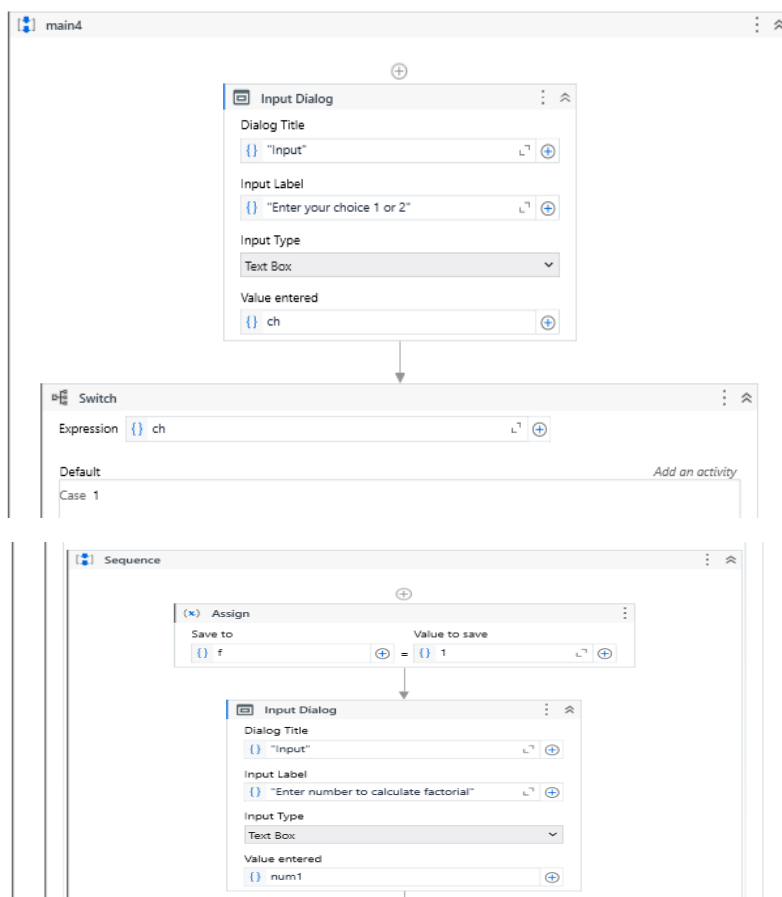
a) Create variables required for the practical.

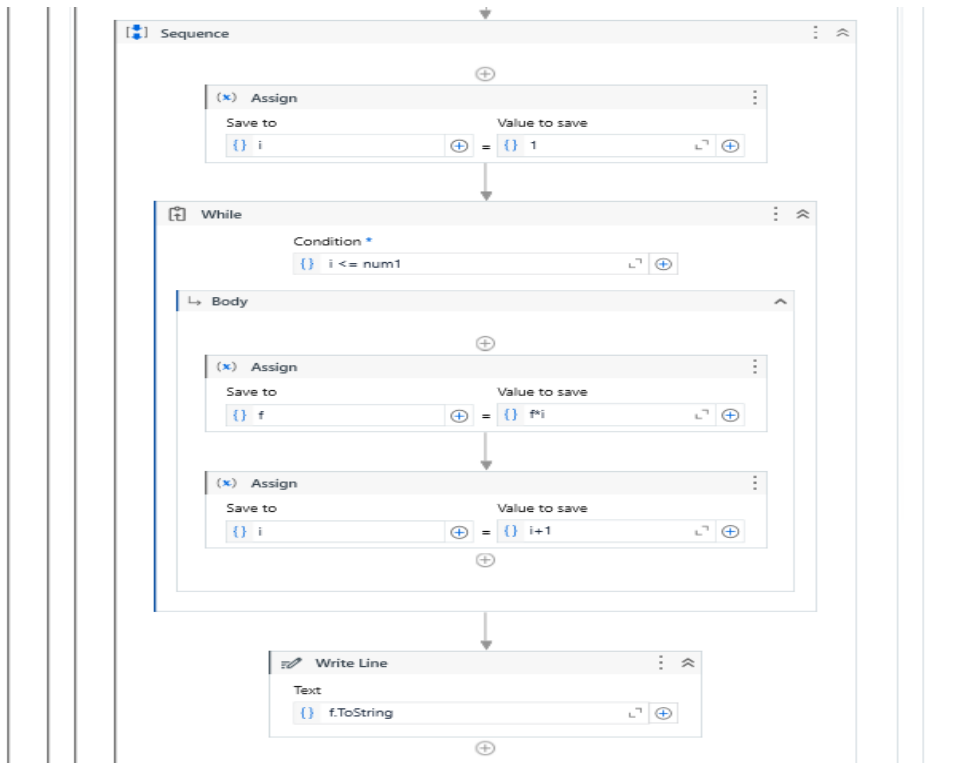
Name	Variable type	Scope	Default
n2	Int32	main4	Enter a VB expression
t	Int32	main4	Enter a VB expression
num1	Int32	main4	Enter a VB expression
ch	Int32	main4	Enter a VB expression
f	Int32	main4	Enter a VB expression
i	Int32	main4	Enter a VB expression
n1	Int32	main4	Enter a VB expression

b) Drag and drop sequence activity.

c) Inside Sequence activity, drag and drop “Input dialog” and “if” activities.

d) Perform the steps.





Output :

Input

Enter your choice 1 or 2

Ok

Input

Enter number to calculate factorial

Ok

Output

⌚

⚠ 0

⚠ 0

ℹ 2

ℹ 2

✅ 0

❌ 0

⚙

🗑

Search

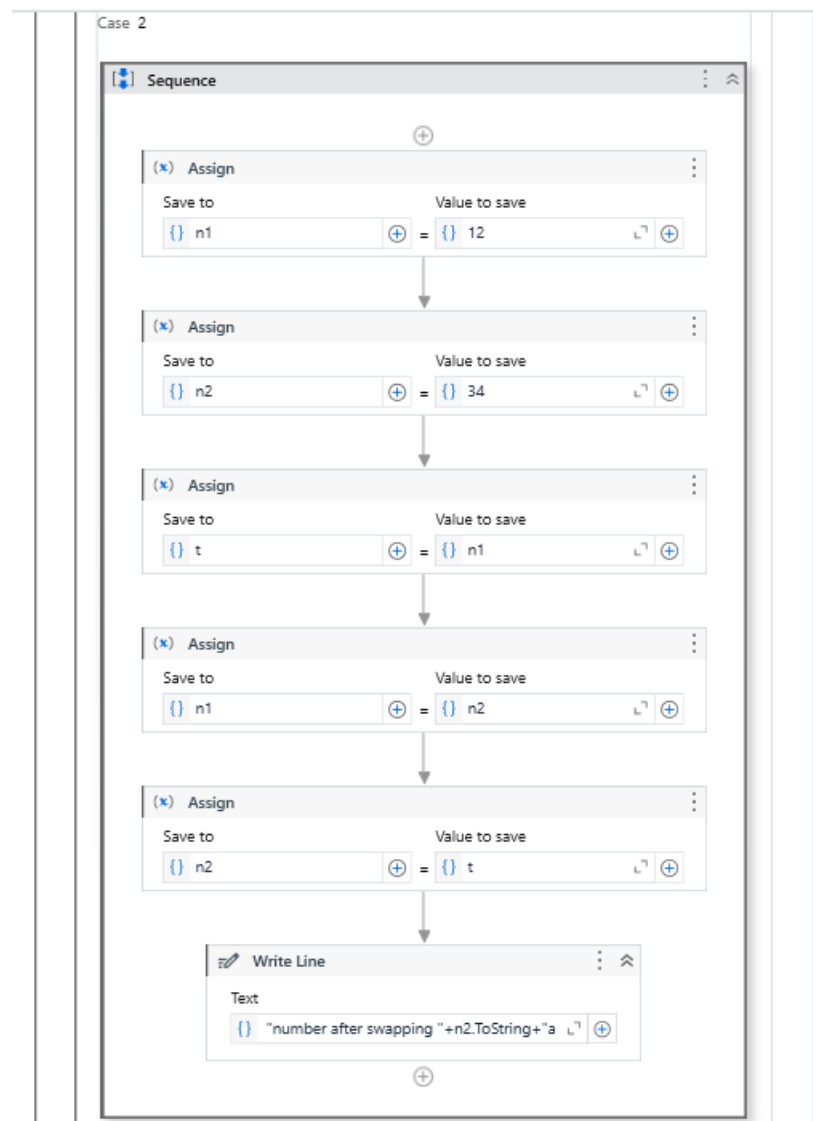
⌚ Execution started for file: main4

⌚ pract3 execution started

⌚ 24

⌚ pract3 execution ended in: 00:00:06

Case 2:



Output :

Output

⌚ ⚠ 0 ! 0 ⓘ 2 ⓘ 2 ✅ 0 ✔ 0 ⚙️ 🗑

Search

- ⌚ Execution started for file: main4
- ⌚ pract3 execution started
- ⌚ number after swapping 12and 34
- ⌚ pract3 execution ended in: 00:00:03

Conclusion: We have successfully automated the UiPath project using decision statements.

B. Create an automation UiPath Project using looping statements.

1) Find the number which is divisible by 2 from integer array.

Steps :

a) Create integer array variable.

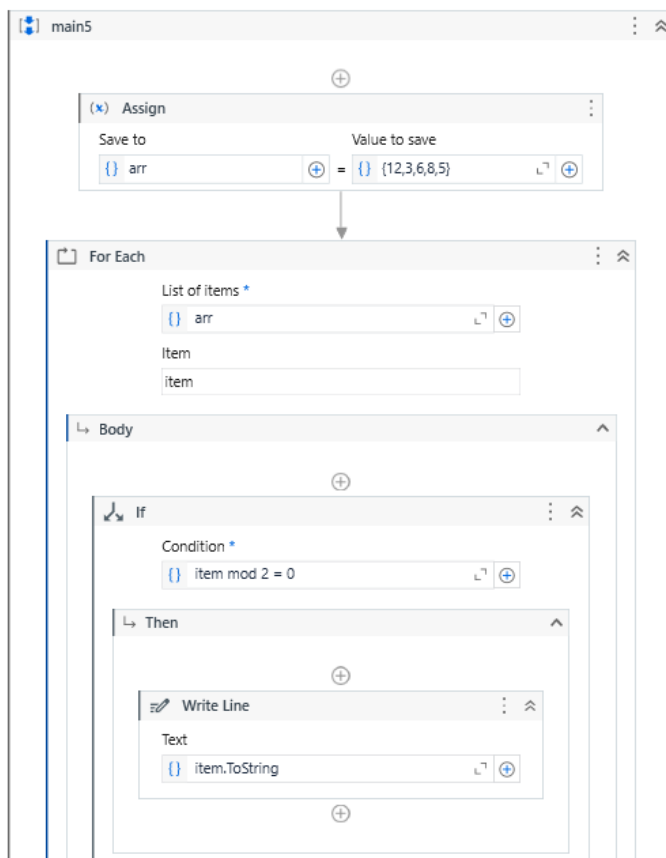
Name	Variable type	Scope	Default
arr	Int32[]	main5	Enter a VB expression

b) Drag and drop Sequence activity.

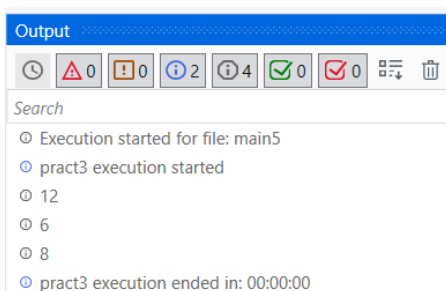
c) Under Sequence activity, Drag and drop “assign” and “For Each” activity.

d) Inside “For Each” activity, drag and drop “If” activity.

e) Perform the steps.



Output :



2) To print the table

Steps :

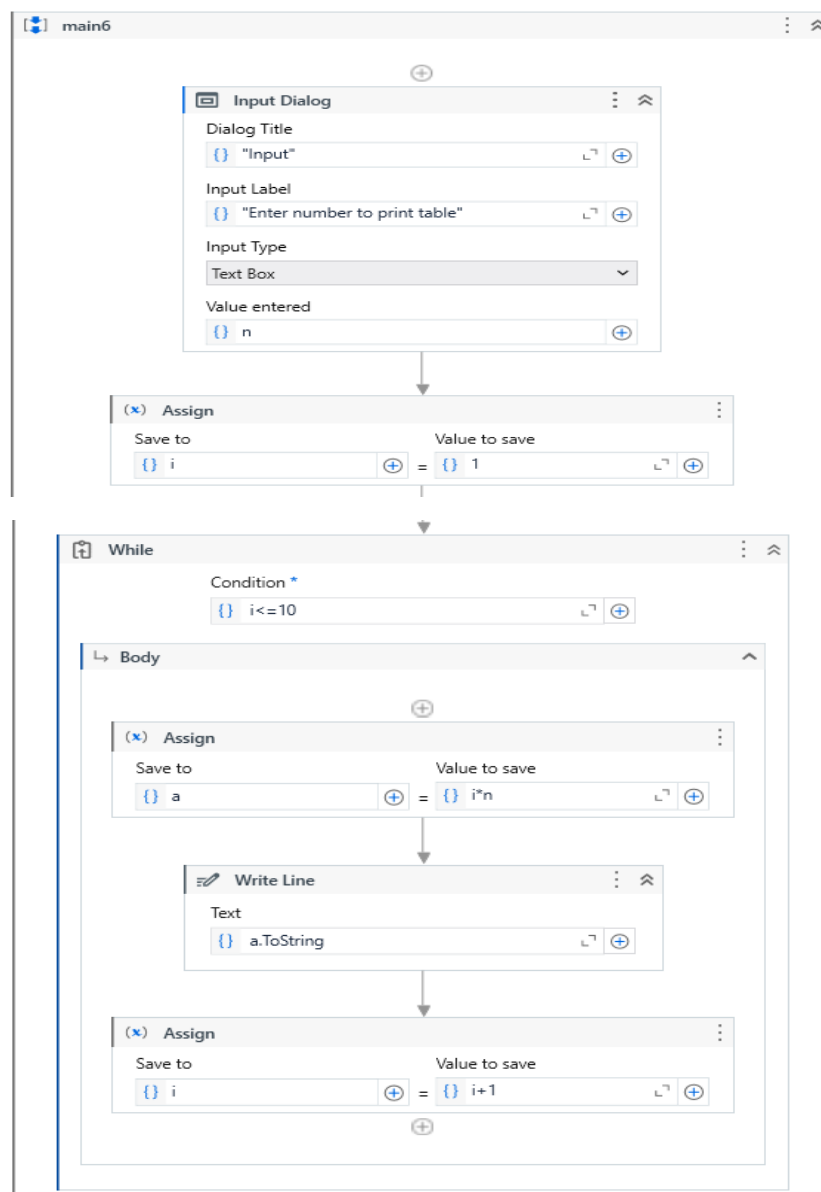
a) Create required variables list.

Name	Variable type	Scope	Default
a	Int32	main6	Enter a VB expression
n	Int32	main6	Enter a VB expression
i	Int32	main6	Enter a VB expression

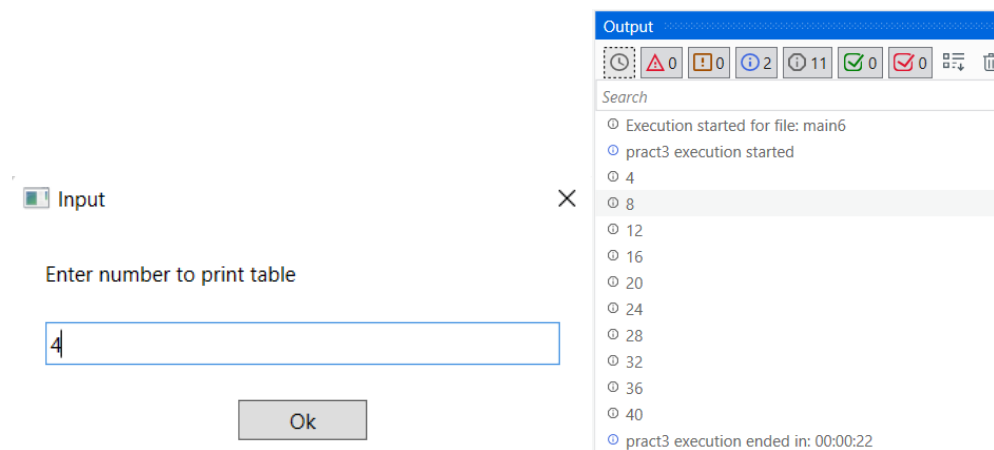
b) Drag and drop Sequence activity.

c) Under Sequence activity, Drag and drop “Input Dialog”, “assign” and “While” activities.

d) Perform the steps.



Output :



3) To Reverse the string

Steps :

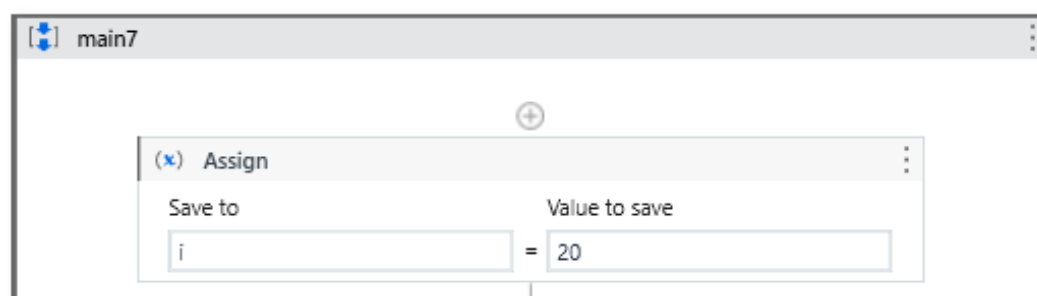
a) Create required variables list

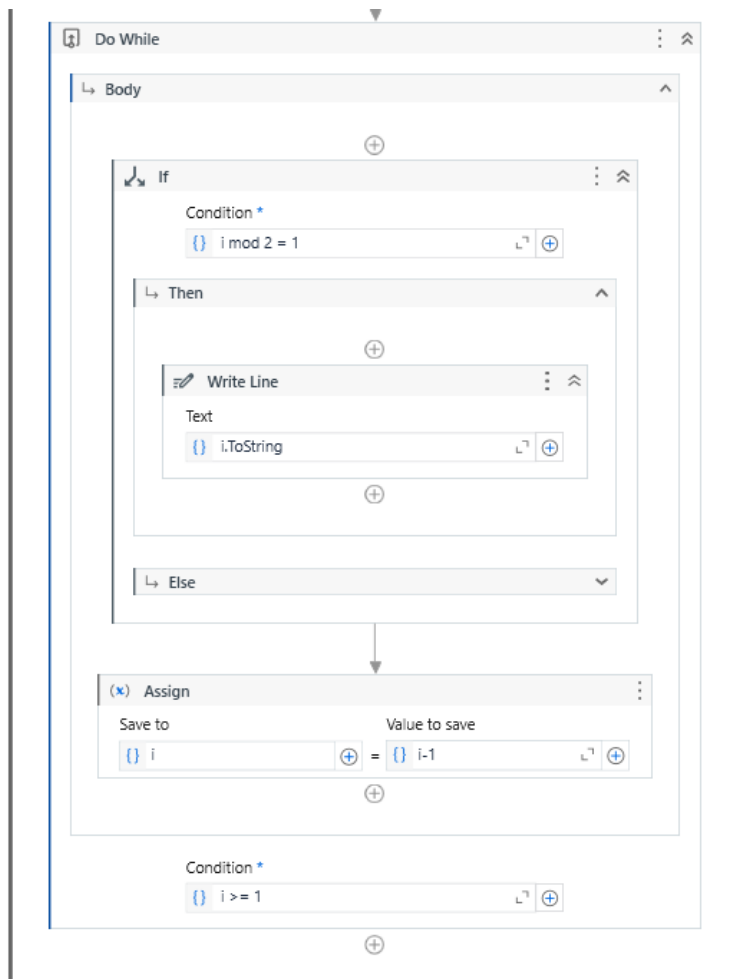
Name	Variable type	Scope	Default
i	int32	main7	Enter a VB expression

b) Drag and drop Sequence activity.

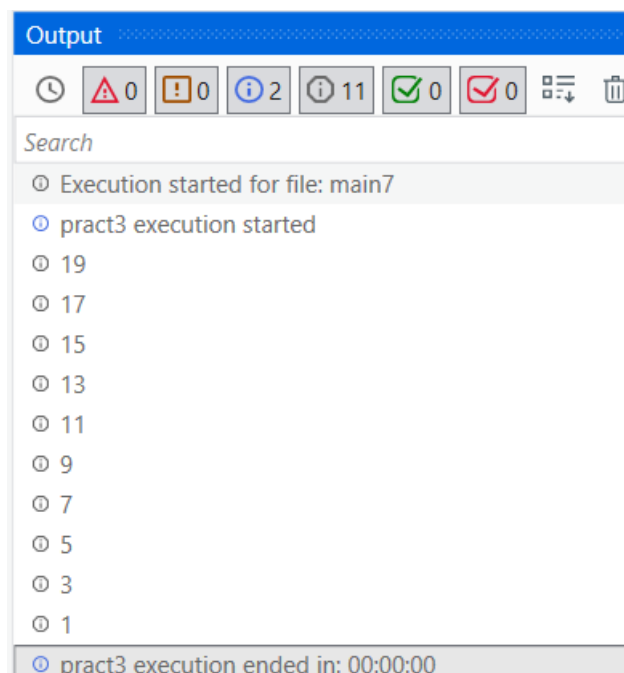
c) Under Sequence activity, Drag and drop “Input dialog”, “assign” and “While” activities.

d) Perform the steps.





Output :

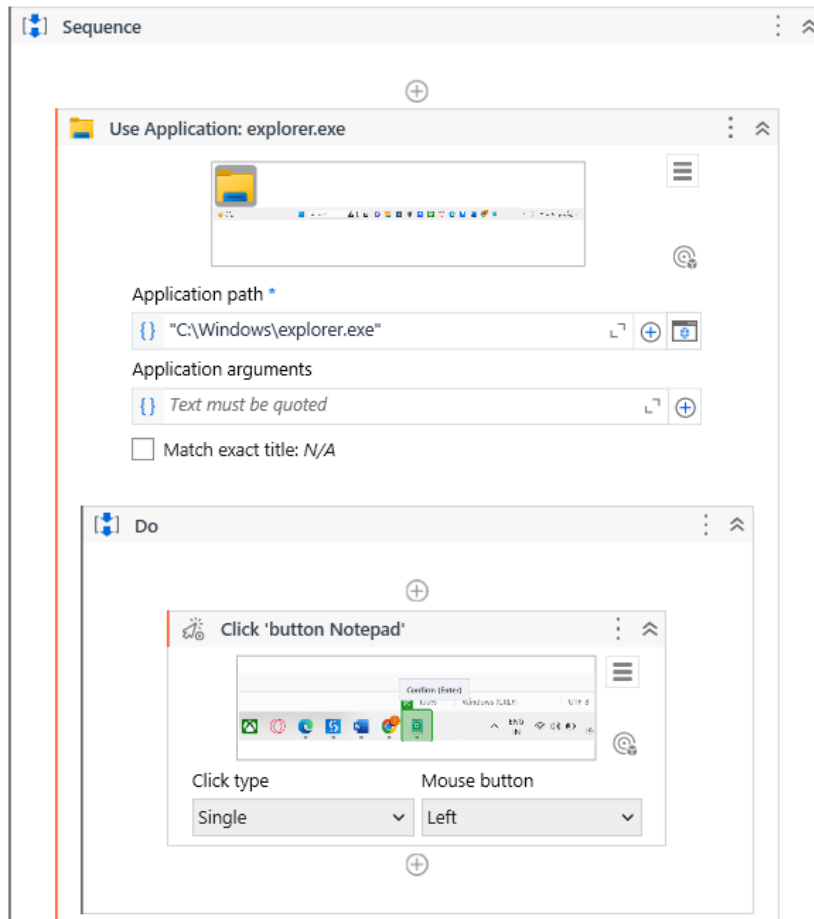


PRACTICAL NO: 4

A. Automate any process using basic recording.

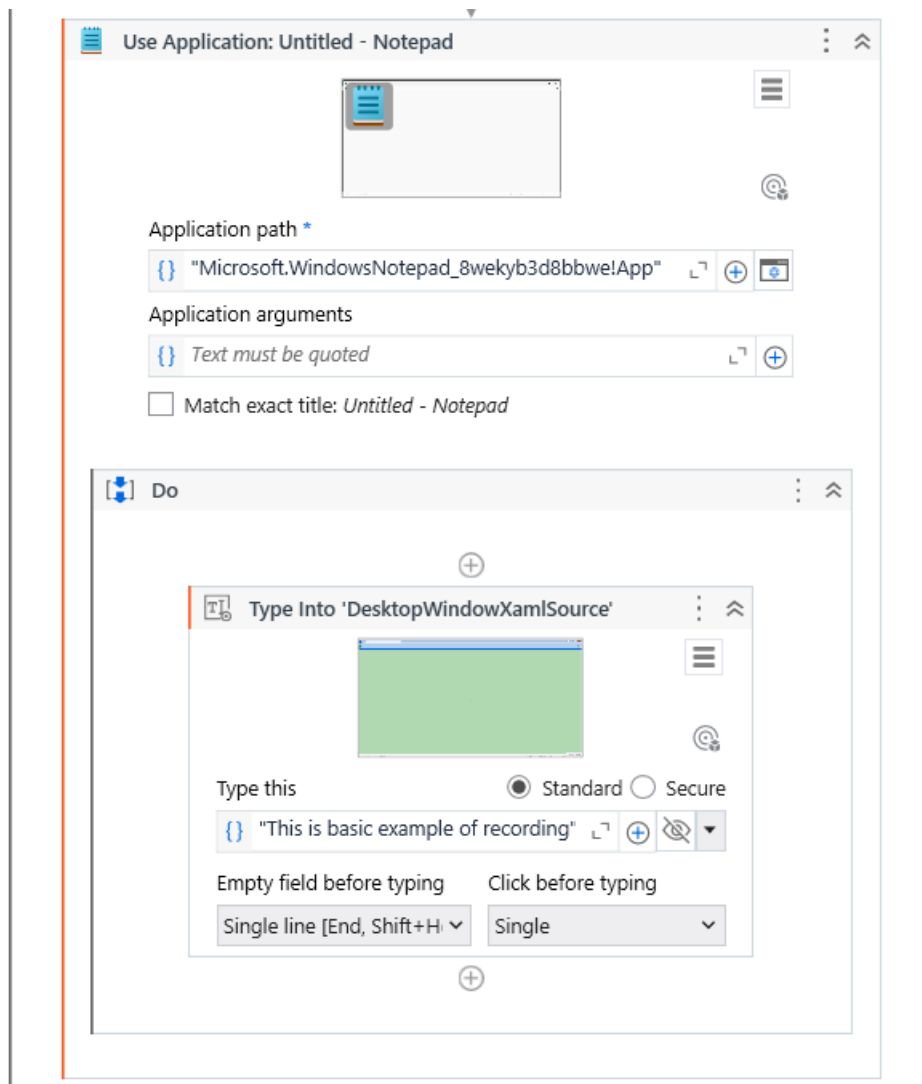
Steps :

1) Drag and drop Sequence Activity.



2) Click on App/Web recorder to record the steps for writing the text on Notepad.

3) Perform the steps.

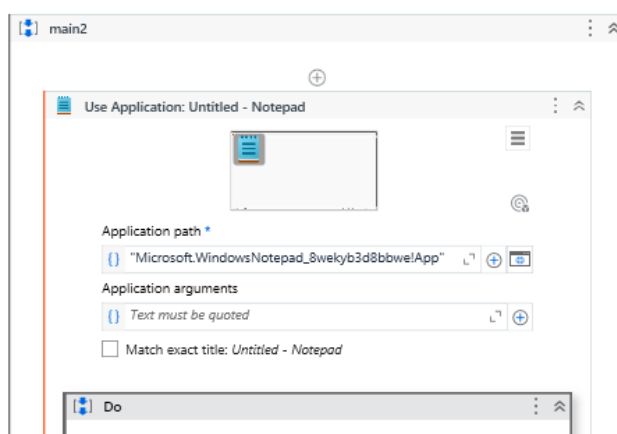


Conclusion : We have successfully automated the process using basic recording.

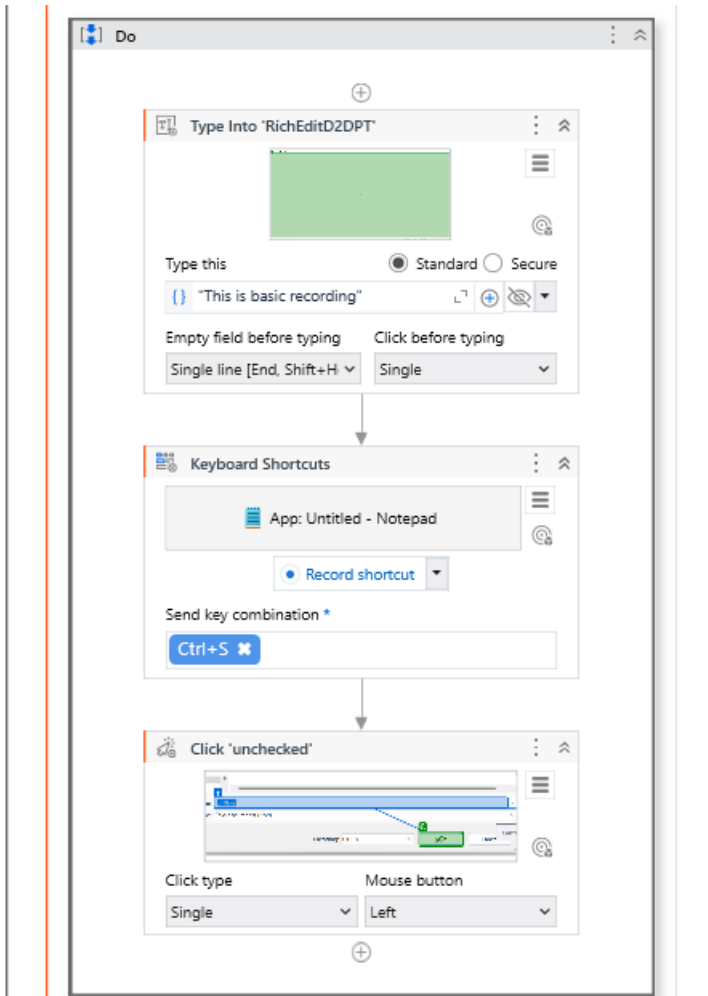
B. Automate any process using Desktop Recording.

Steps :

1) Drag and drop Sequence activity.



- 2) Click on the App/Web recorder to record the steps for writing the text on notepad.
- 3) Perform the steps.

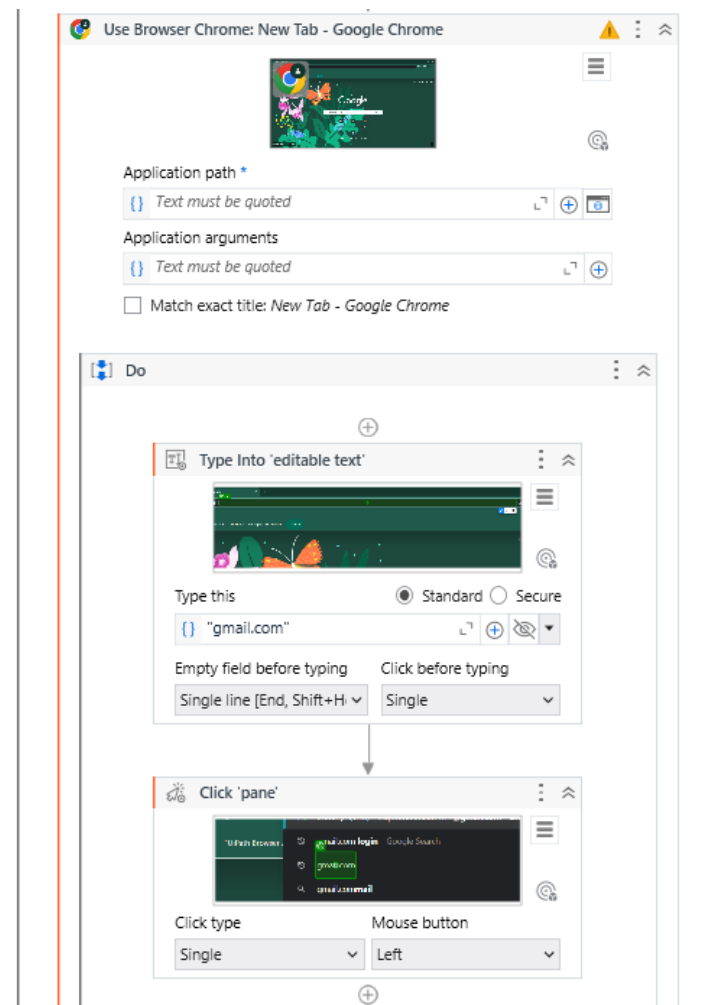
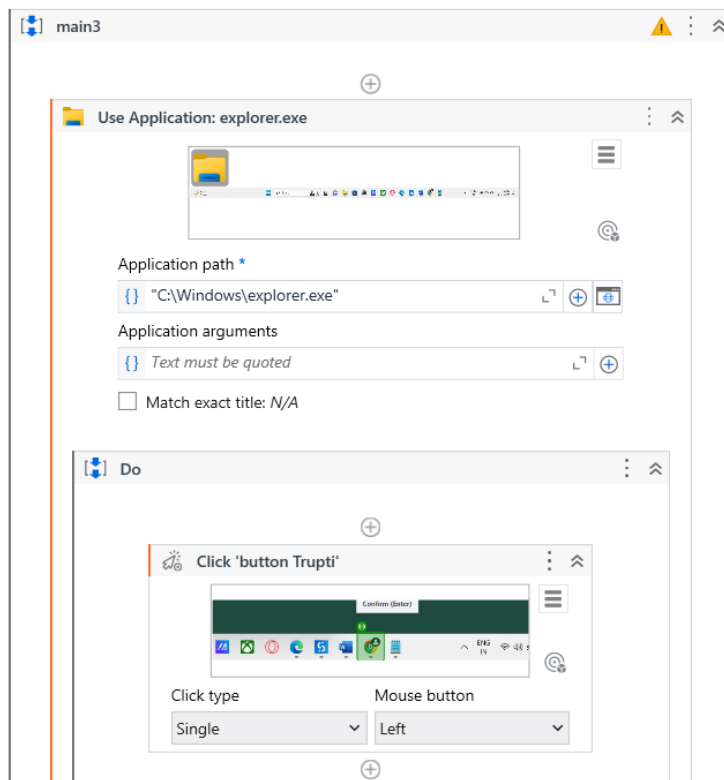


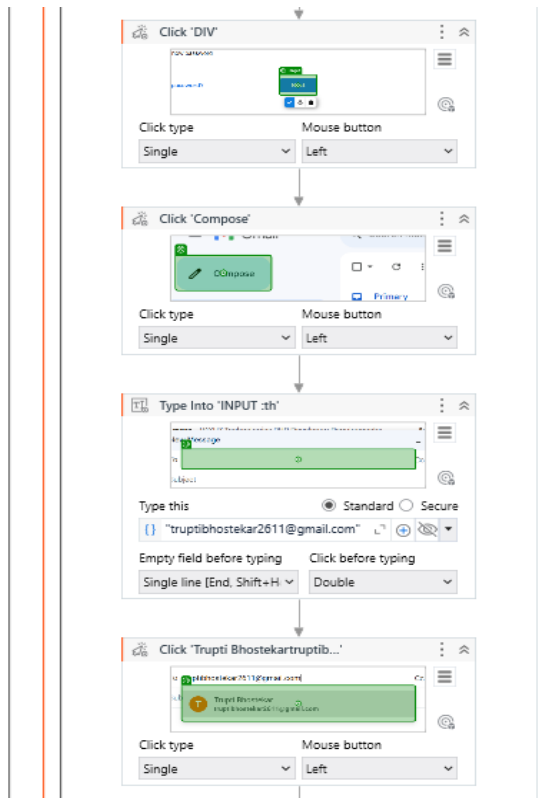
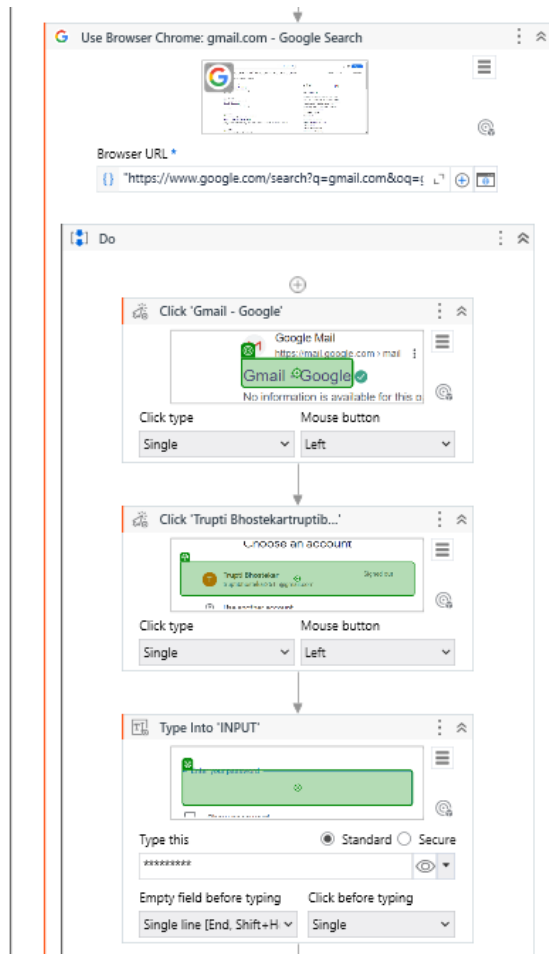
Conclusion: We have successfully automated the process using Desktop recording.

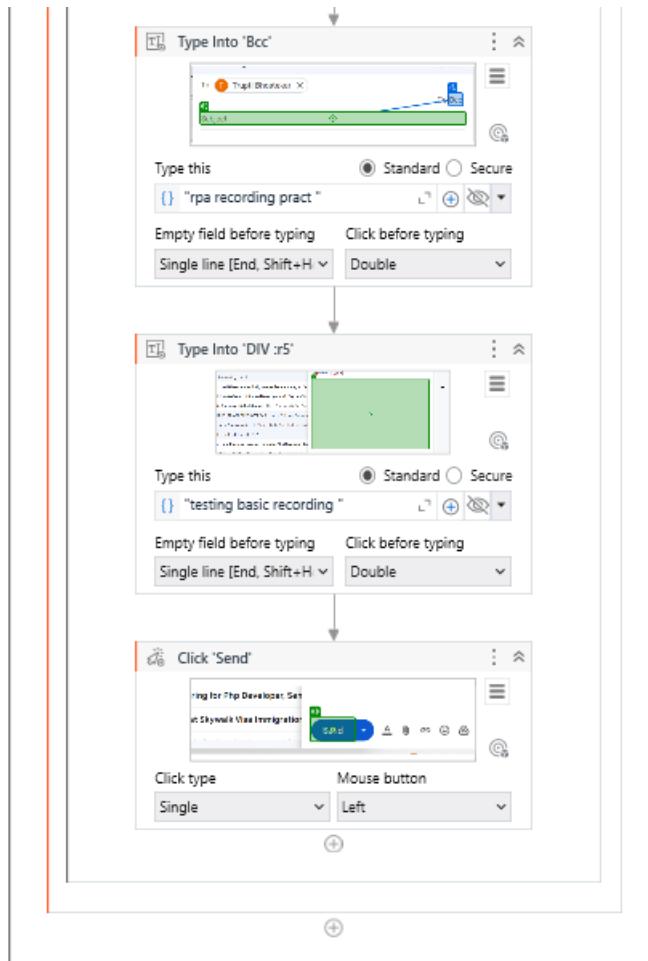
C. Automate any process using Web Recording.

Steps :

- 1) Drag and drop Sequence activity.
- 2) Click on App/Web recorder to record the steps for writing the text on Notepad.
- 3) Perform the steps.







Conclusion: We have successfully automated the process using web recording.

PRACTICAL NO: 5

A. 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.

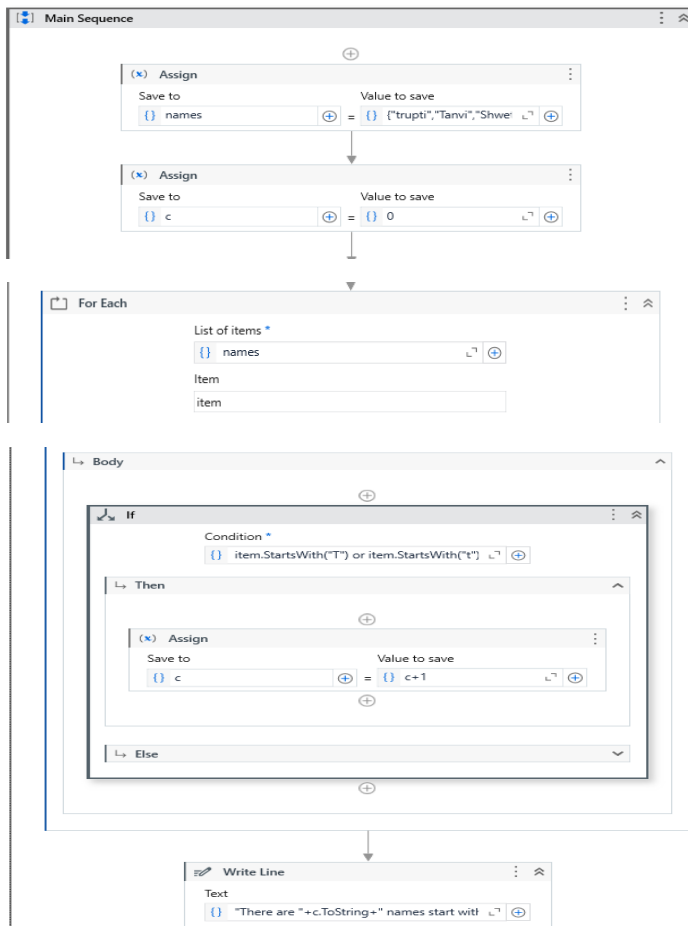
Steps :

1) Create variable “names” and “c” and assign value to it.

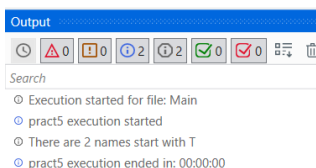
Name	Variable type	Scope	Default
names	String[]	Main Sequence	Enter a VB expression
c	int32	Main Sequence	Enter a VB expression

2) Drag and drop Sequence activity.

3) Perform the steps.



Output :



Conclusion: We have successfully automated the process where the number of names starting with “a” or “A”.

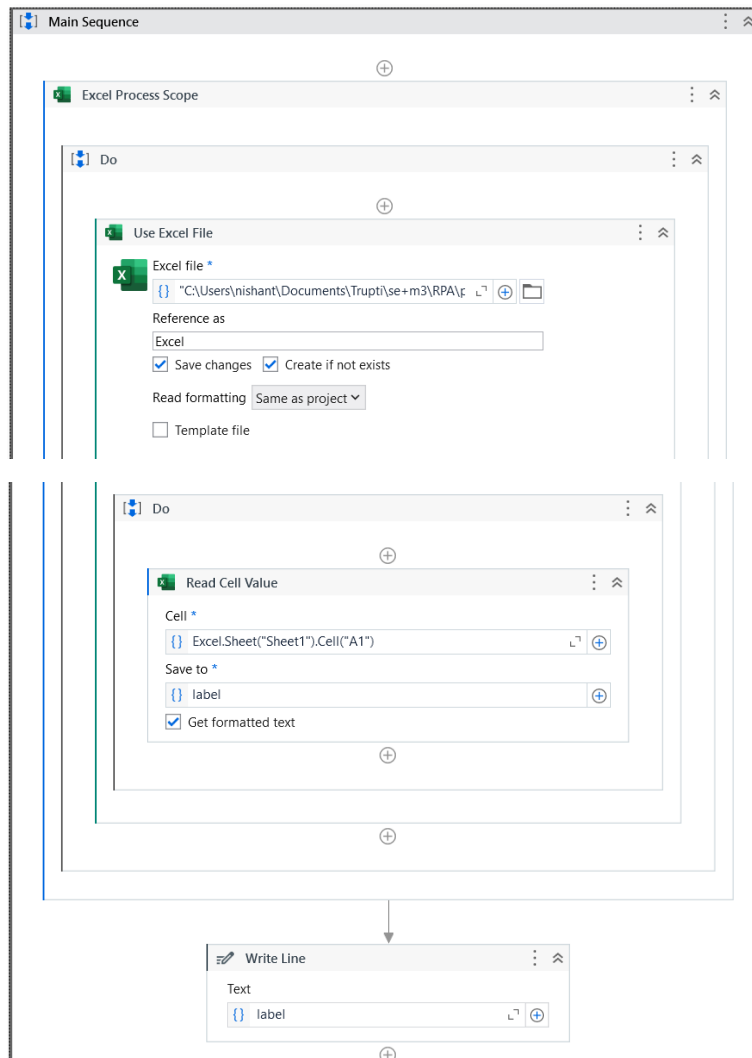
PRACTICAL NO: 6

A. Create an application automating the read, write and append operation on excel file.

a) Read Operation on excel file.

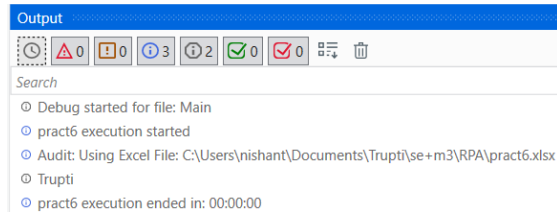
Steps :

- 1) Create variables in the variable column.
- 2) Drag and drop Sequence activity.
- 3) Under Sequence activity, drag and drop “Excel Process Scope” and “Use Excel File” activity.
- 4) Under “Use Excel File” activity, drag and drop “Read cell” activity.
- 5) Perform the steps.



A1	
	A
1	Trupti
2	Tanvi
3	Shweta

Output :



b) Write Operation on Excel file.

Steps :

1) Create the variables.

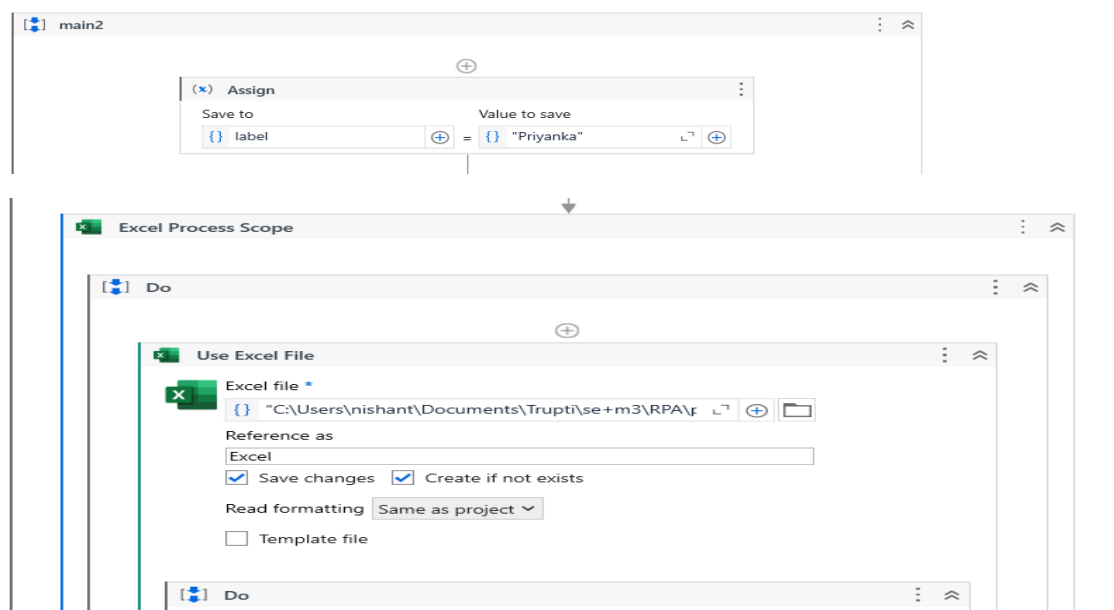
Name	Variable type	Scope	Default
var	String	main2	Enter a VB expression
label	String	main2	Enter a VB expression

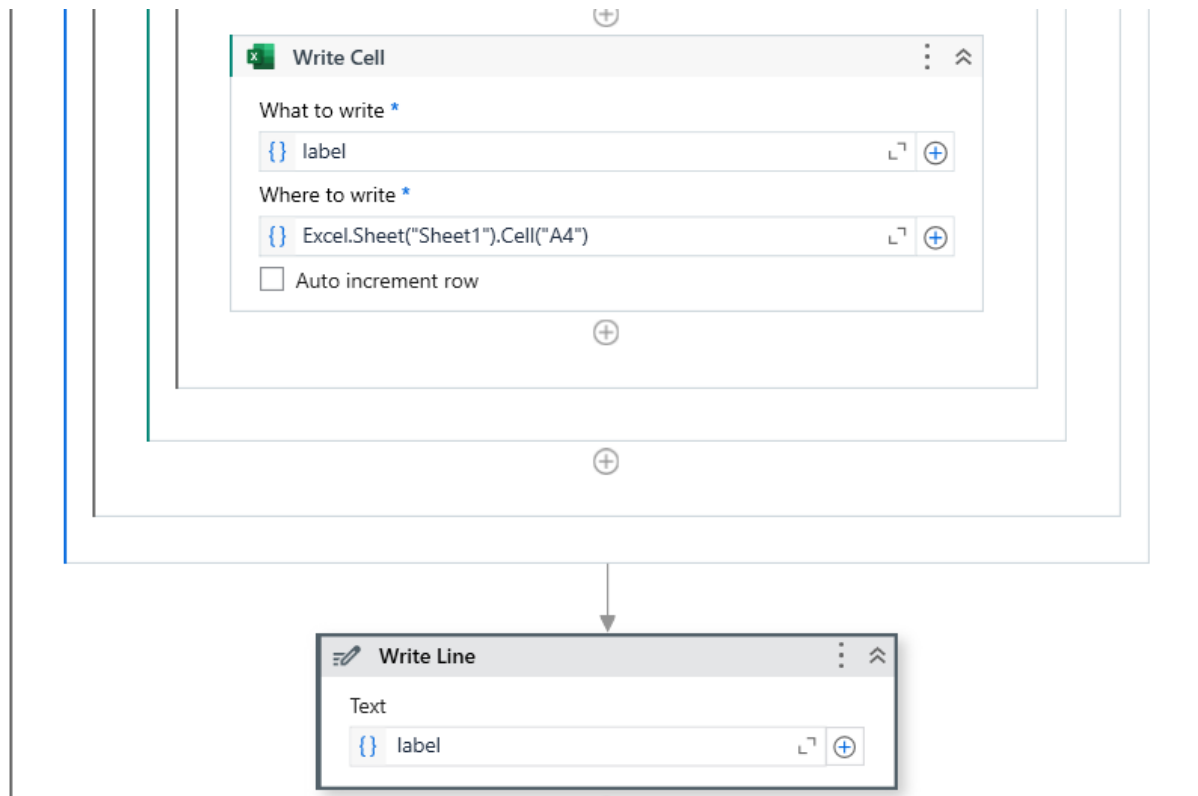
2) Drag and drop Sequence activity.

3) Under Sequence activity, drag and drop “Excel Process Scope” and “Use Excel file” activity.

4) Under “use Excel File” activity, drag and drop “Write cell” activity.

5) Perform the steps.





Output :

A4

	A
1	Trupti
2	Tanvi
3	Shweta
4	Priyanka
5	

Output

⌚ 0

⚠ 0

ℹ 3

ⓘ 2

✅ 0

❌ 0

⚙

🗑

Search

⌚ Debug started for file: main2

⌚ pract6 execution started

⌚ Audit: Using Excel File: C:\Users\nishant\Documents\Trupti\se+m3\RPA\pract6.xlsx

⌚ Priyanka

⌚ pract6 execution ended in: 00:00:00

C) Append operation on excel file.

1) Create the variables.

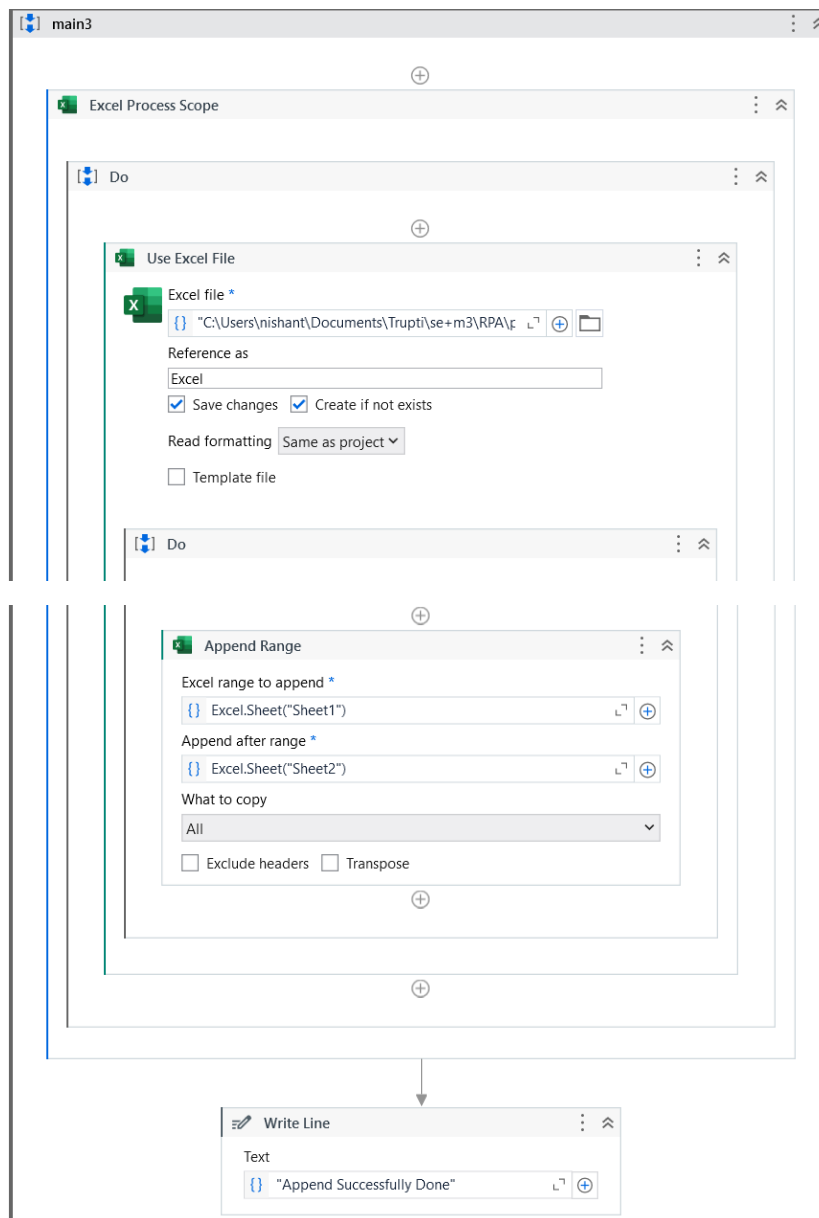
Name	Variable type	Scope	Default
var	String	main3	Enter a VB expression
label	String	main3	Enter a VB expression

2) Drag and drop Sequence activity.

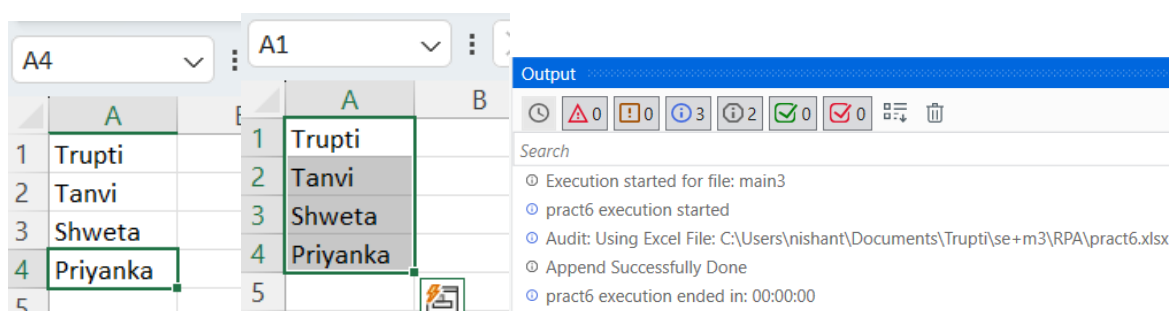
3) Under Sequence activity, drag and drop “Excel Process Scope” and “Use Excel file” activity.

4) Under “use Excel File” activity, drag and drop “Append cell” activity.

5) Perform the steps.



Output :



Conclusion: We have successfully automated the read, write and append operations on excel file.

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

a) Extract data from an Excel file into a data table.

Steps :

1) Create the variables.

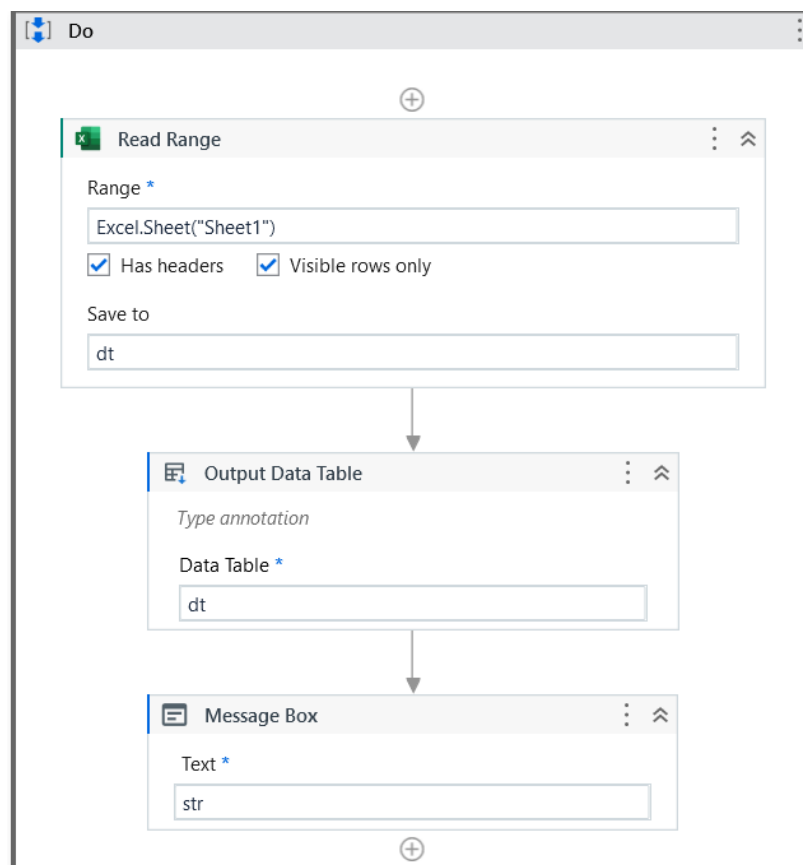
Name	Variable type	Scope	Default
dt	DataTable	main4	<i>Enter a VB expression</i>
str	String	main4	<i>Enter a VB expression</i>

2) Drag and drop Sequence activity.

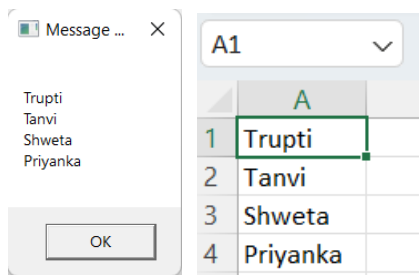
3) Under Sequence activity, drag and drop “Excel Process Scope” and “Use Excel File” activity.

4) Under “Use Excel File” activity, drag and drop “Read Range”, “Output data table”, “Writeline” activity.

5) Perform the steps.



Output :



b) Extract data from an Data Table into Excel file.

Steps :

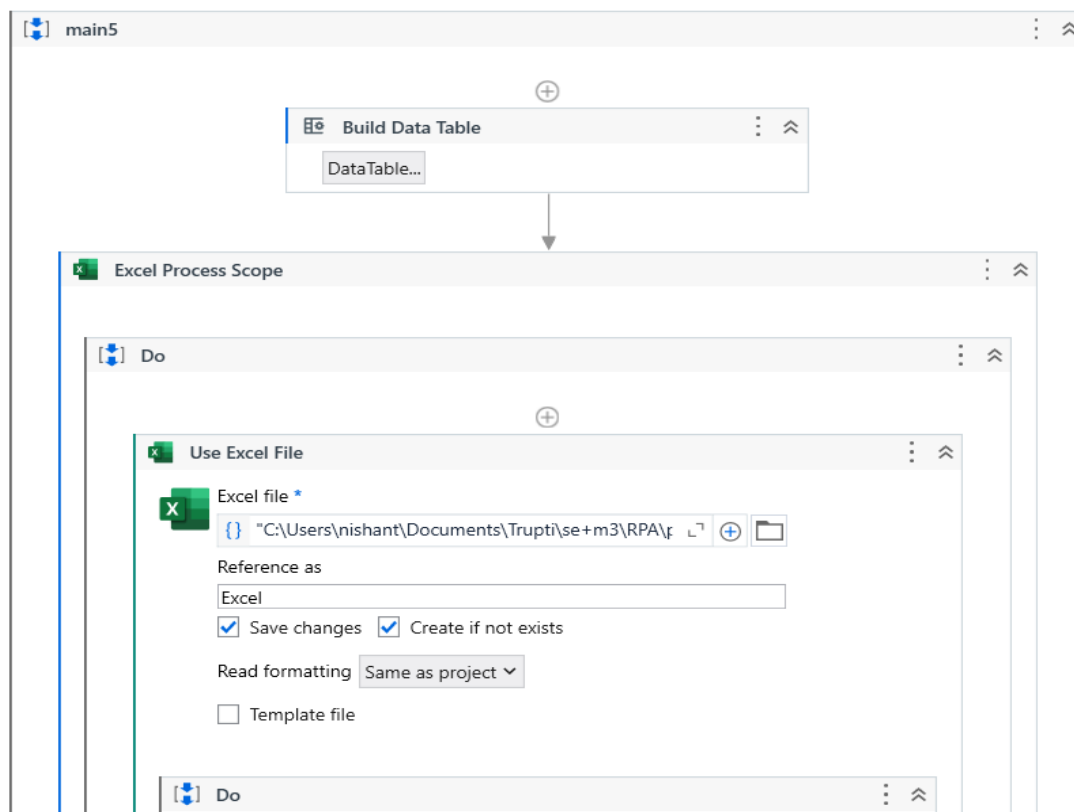
1) Create a variable. And drag and drop Sequence activity.

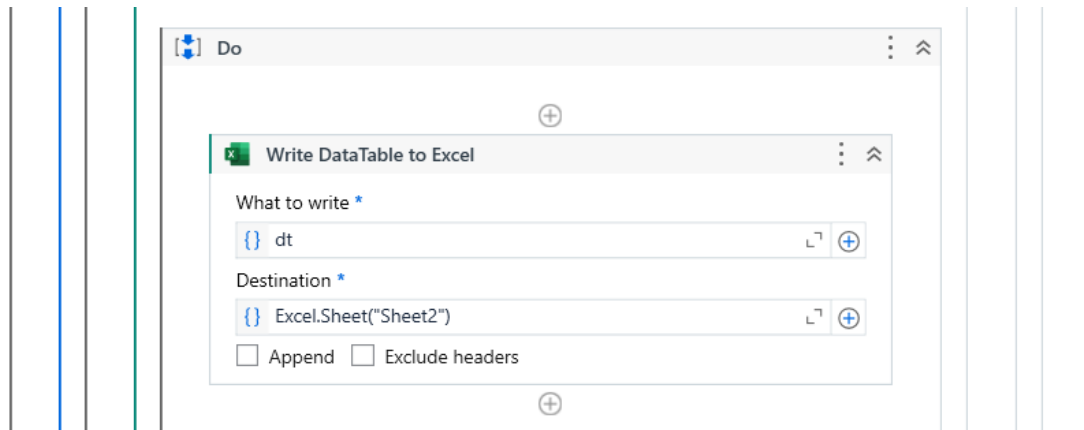
Name	Variable type	Scope	Default
dt	DataTable	main5	Enter a VB expression

2) Under Sequence activity, drag and drop “Build data table”, Excel Process Scope” and “Use Excel File” activity.

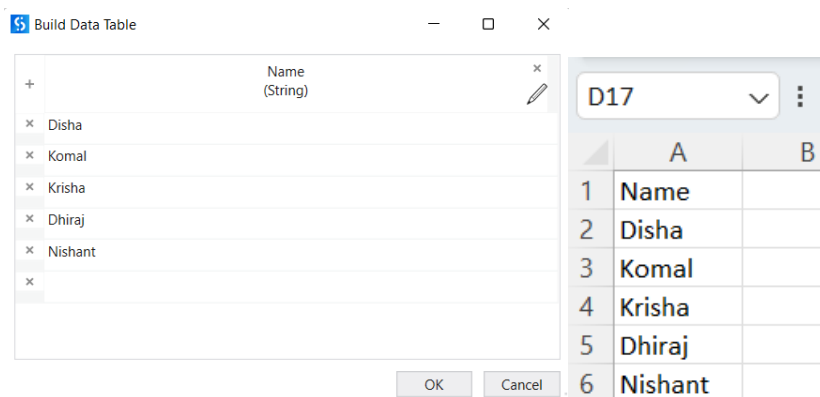
3) Under “Use Excel File” activity, drag and drop “Write debatable to Excel” activity.

4) Perform the steps.





Output :



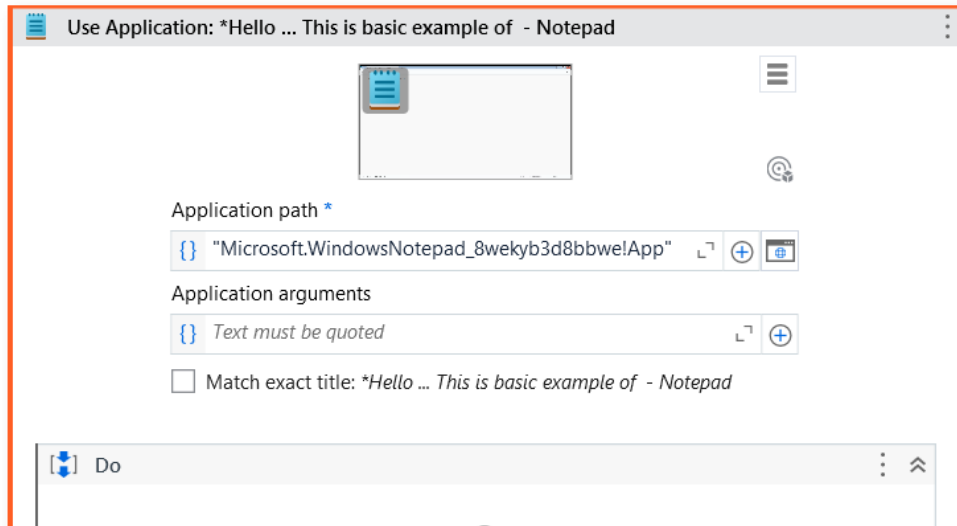
Conclusion: We have successfully automated the process of extracting data from an excel file into a data table and vice versa.

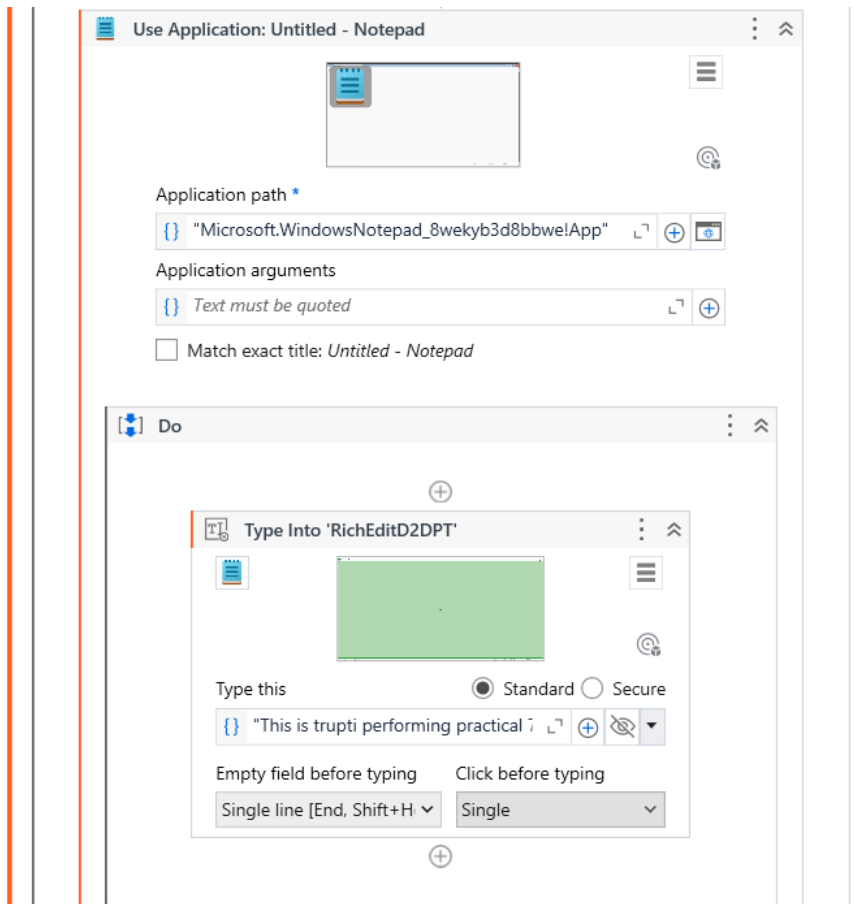
PRACTICAL NO: 7

A. Implement the attach window activity.

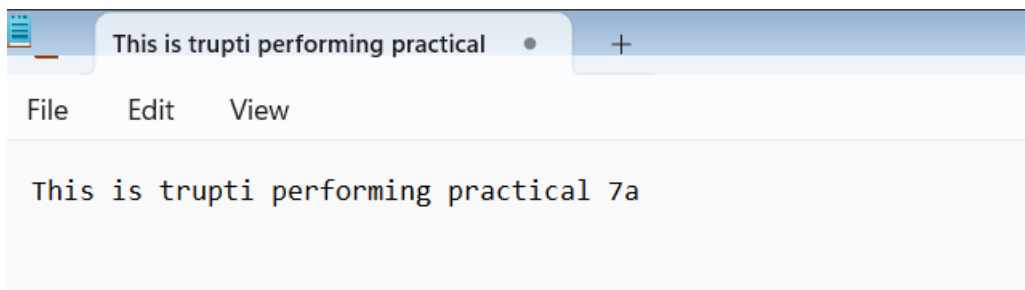
Steps :

- 1) Drag and drop Flowchart Activity into the designer panel.
- 2) Drag and drop User application browser activity into designer panel.
- 3) Drag and drop a “Click” activity inside the Designer panel. Set this “Click” activity as the “Start” node.
- 4) Double click on the “Click” activity and then click on “Indicate on screen”. Locate the notepad icon.
- 5) Drag and drop the “Attach Window” activity on the main Designer panel, Connect the “attach window” activity to the “Click” activity.
- 6) Double click on the “Attach window” activity. Click on “Click Window on Screen” and indicate the Notepad window. The Notepad window is now attached to the previous activity.
- 7) Add a “Type into” activity. Just drag and drop the “type into” activity, inside the “Attach the window” Activity. Click on the “Indicate element” inside window and locate the notepad window where you want to write the text.
- 8) Write the text in the Text property of the “Type into” the activity.





Output :



Conclusion: We have successfully implemented the attach window activity.

B. Find different controls using UiPath

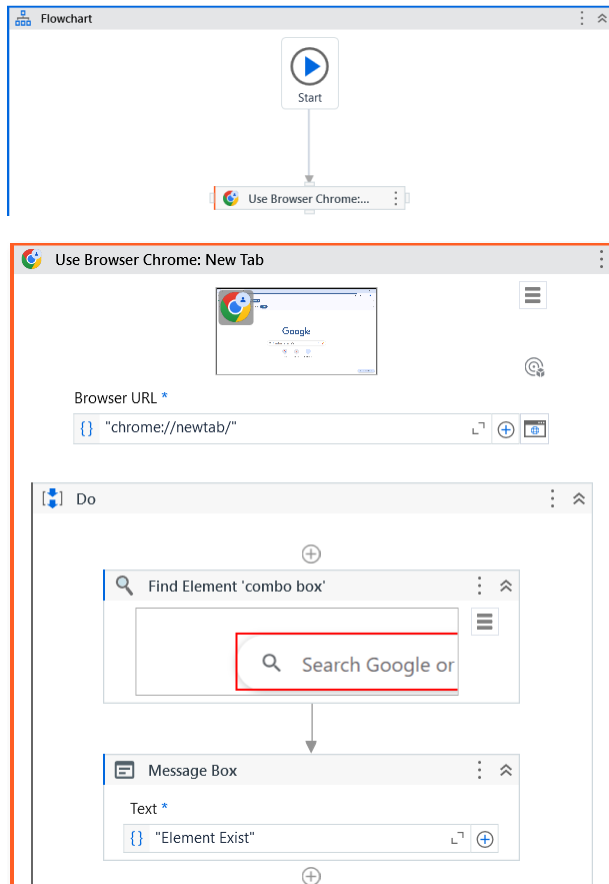
a) Find Element

Steps :

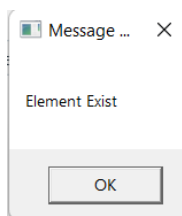
- 1) Drag and drop Flowchart activity.
- 2) Within Flowchart activity, drag and drop “Use application Browser” activity.
- 3) Now, indicate the specific website on screen.
- 4) Drag and drop “Find Element” activity. Indicate specific element on screen.

5) Drag and drop “Writeline” activity.

6) Perform the steps.



Output :

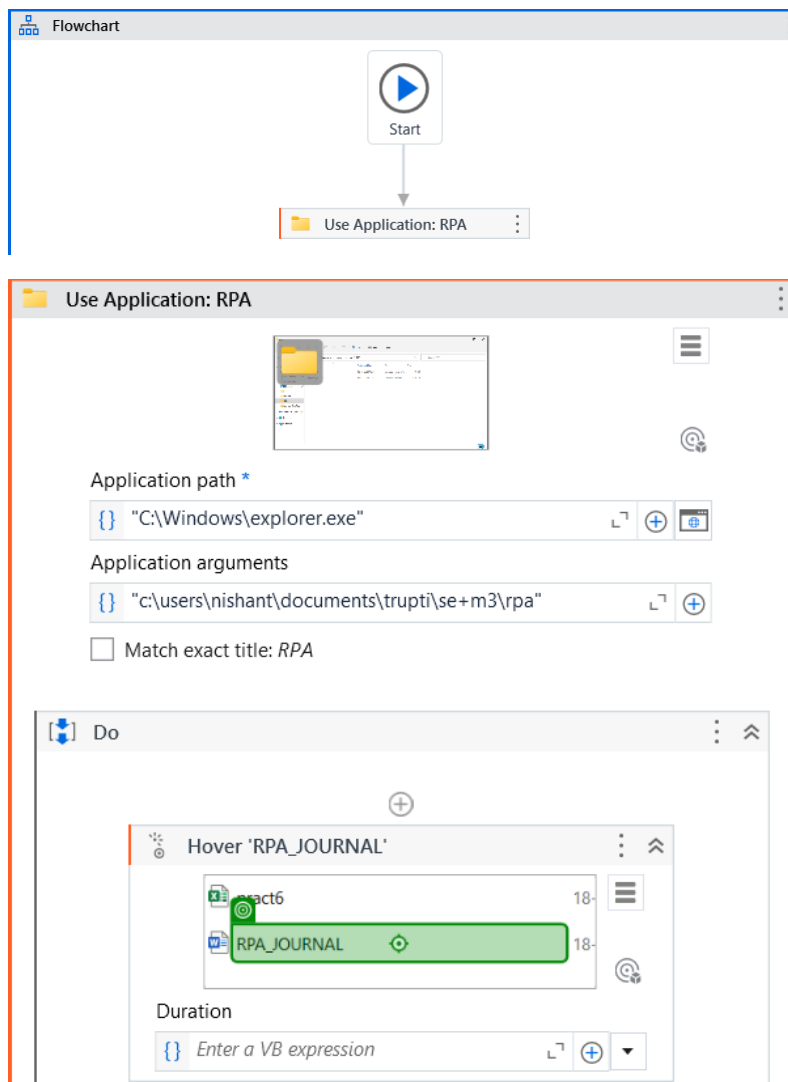


C. Demonstrate the Type Secure Text activities in UiPath.

a) Mouse Hover

Steps :

- 1) Drag and drop Flowchart activity.
- 2) Within Flowchart activity, drag and drop “Use Application Browser” activity.
- 3) Now, indicate the specific website on screen.
- 4) Drag and drop “Hover” activity and indicate on Screen.
- 5) Perform the steps.



Output :

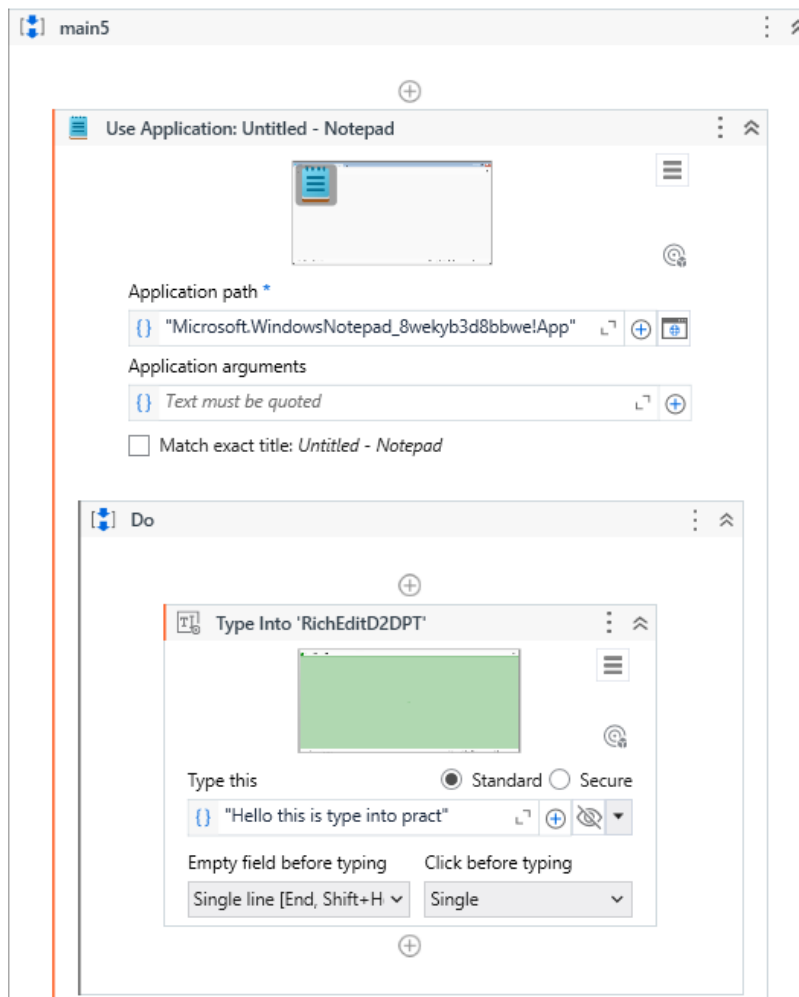
Name	Date modified	Type
pract6	18-02-2024 19:21	Microsoft E
RPA_JOURNAL	18-02-2024 19:52	Microsoft V

Type: Microsoft Word Document
Authors: Nishant Bhostekar

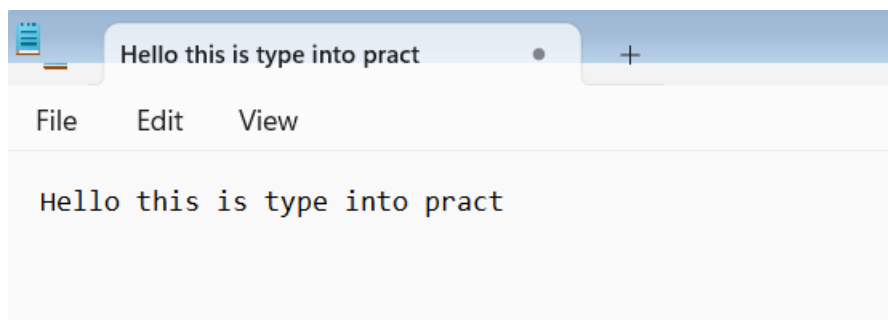
b) Type Into Activity

Steps :

- 1) Drag and drop Sequence activity.
- 2) Within Sequence activity, drag and drop “Use Application Browser” activity.
- 3) Now, indicate the specific website on screen.
- 4) Drag and drop “Type Into” Activity and indicate on Screen.
- 5) Perform the steps.



Output :



Conclusion: We have successfully demonstrated the UiPath Activities.

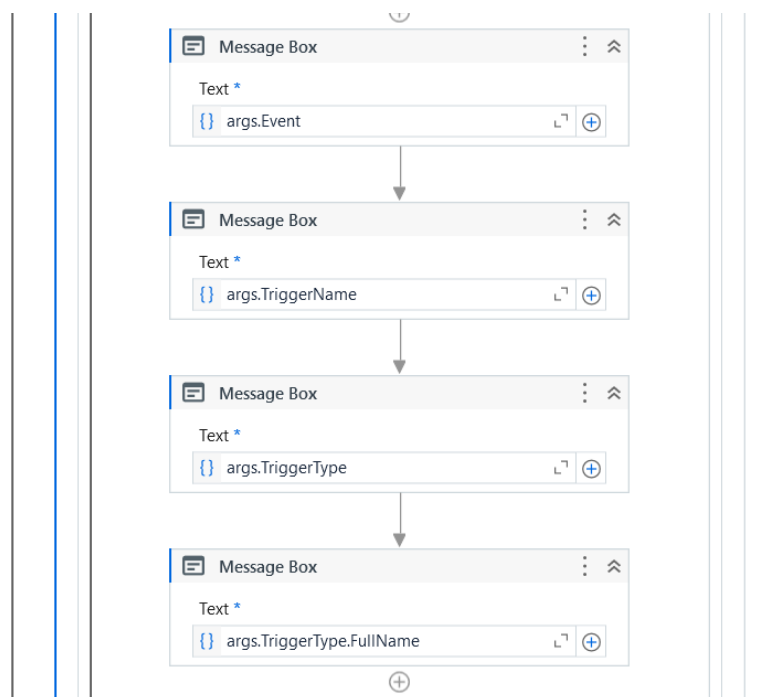
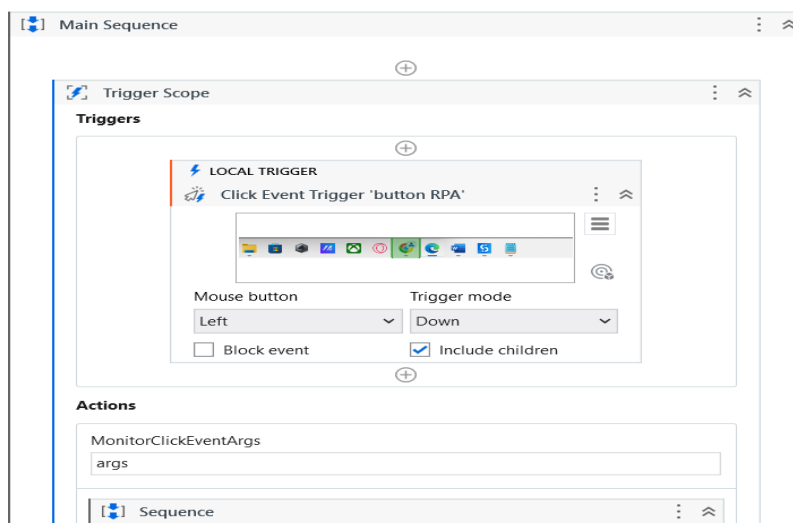
PRACTICAL NO: 8

A. Demonstrate the following events in Uipath

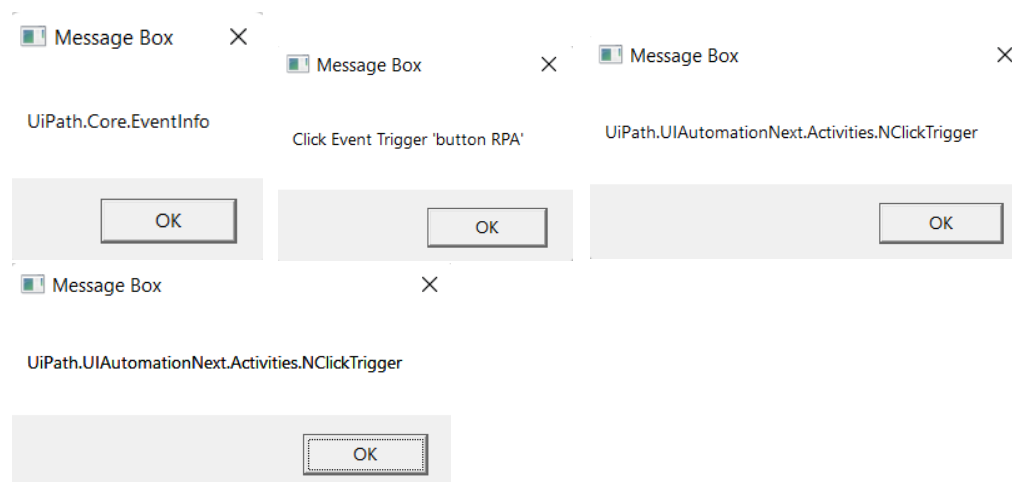
a) Element Triggering event

Steps :

- 1) Drag and drop Sequence activity.
- 2) Drag and drop Trigger Scope.
- 3) Drag and drop Click Trigger and indicate on screen.
- 4) Drag and drop 4 times “writeline” and specify appropriate value.
- 5) Perform the steps.



Output :

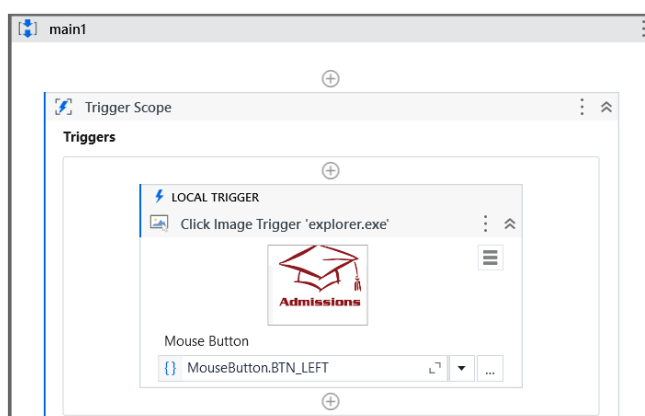


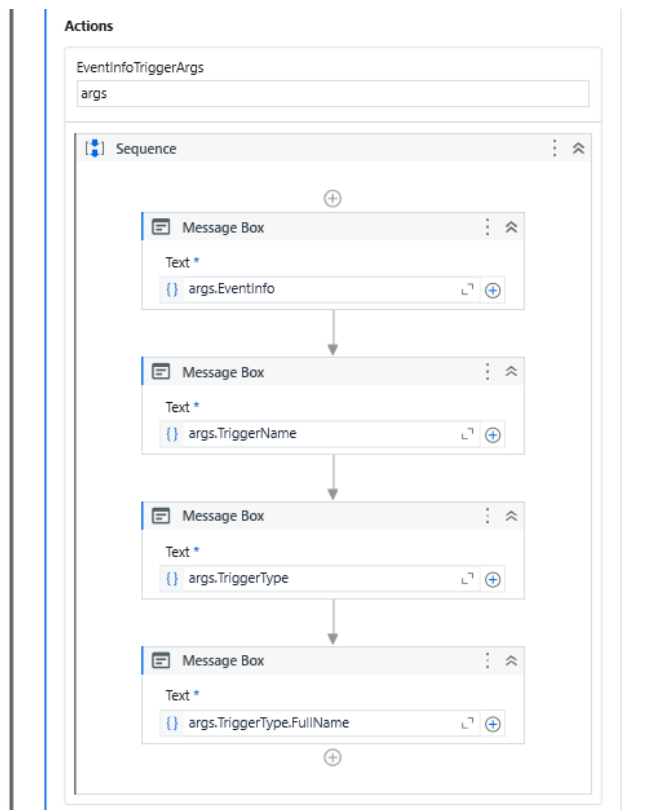
Conclusion: We have successfully implemented Element triggering event.

b) Image triggering event

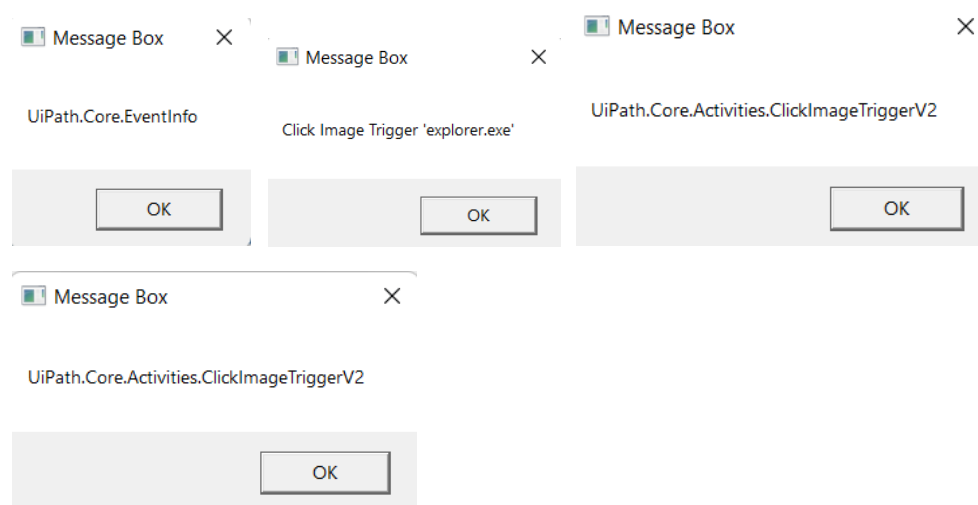
Steps :

- 1) Drag and drop Sequence activity.
- 2) Drag and drop Trigger Scope.
- 3) Drag and click Image Trigger and indicate on screen.
- 4) Under Click Image Trigger, Drag and drop 4 times. Writeline with appropriate values.
- 5) Perform steps.





Output :

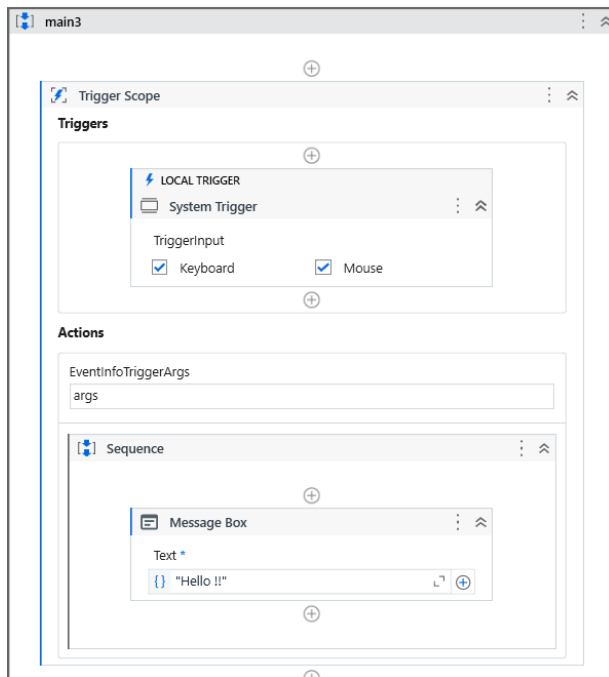


Conclusion: We have successfully implemented Image triggering event.

c) System Triggering Event

- 1) Drag and drop Sequence activity.
- 2) Drag and drop Trigger Scope.
- 3) Drag and drop System Trigger.
- 4) Under System Trigger, Drag and drop Writeline.

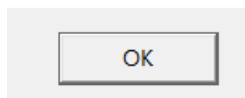
5) Perform the steps.



Output :

Message ... X

Hello !!



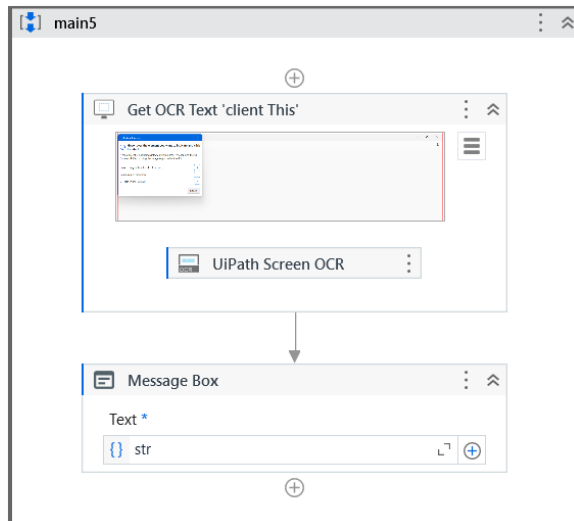
Conclusion: We have successfully implemented System Triggering event.

B. Automate the following screen scraping methods using UiPath

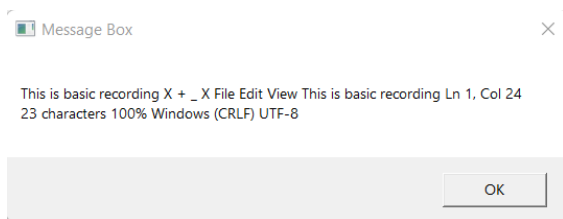
a) OCR

Steps :

- 1) Drag and drop Sequence Activity.
- 2) Drag and drop Get OCR text and indicate on screen.
- 3) Drag and drop Writeline.
- 4) Perform the steps.



Output :



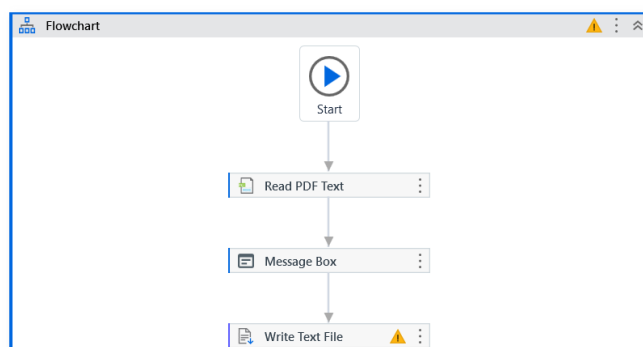
Conclusion: We have successfully implemented screen scraping methods using UiPath.

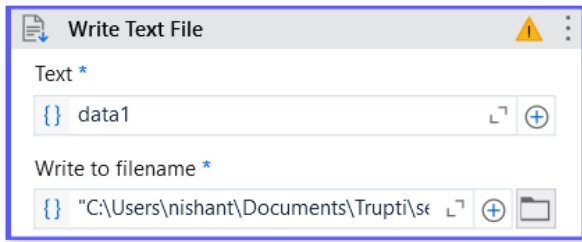
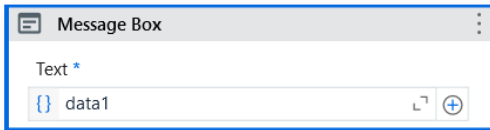
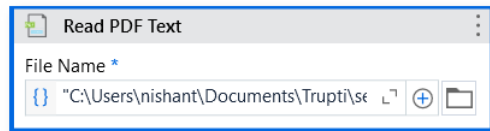
C. Install and automate any process using UiPath with the following plugins.

a) PDF Plugin

Steps :

- 1) Drag and drop Flowchart activity.
- 2) Drag and drop Read Pdf Text.
- 3) Drag and drop Writeline.
- 4) Drag and drop Write Text File.
- 5) Perform steps.



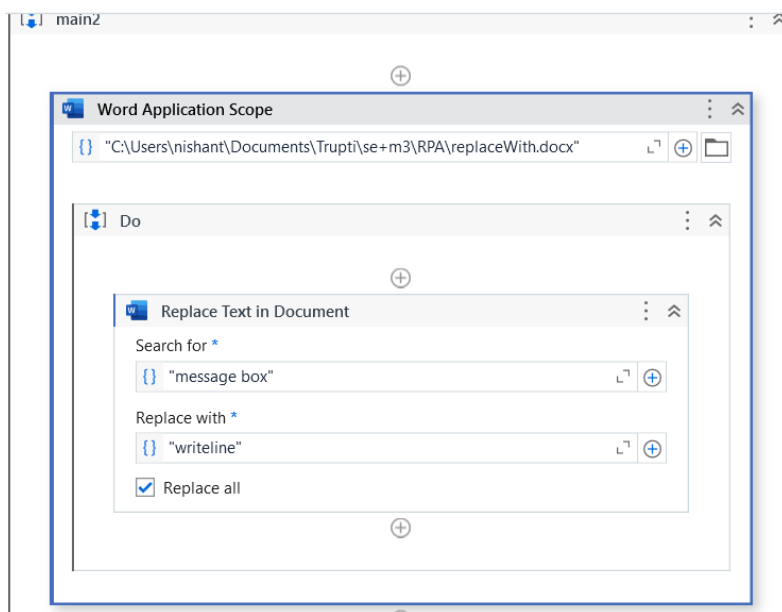


Conclusion: We have successfully automated the process using UiPath with the PDF plugin.

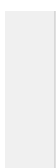
b) Word Plugin

Replace text in document

Step 1: Drag and drop the sequence activity inside that drop the word application scope after that drag the replace text in document activity.



Output :

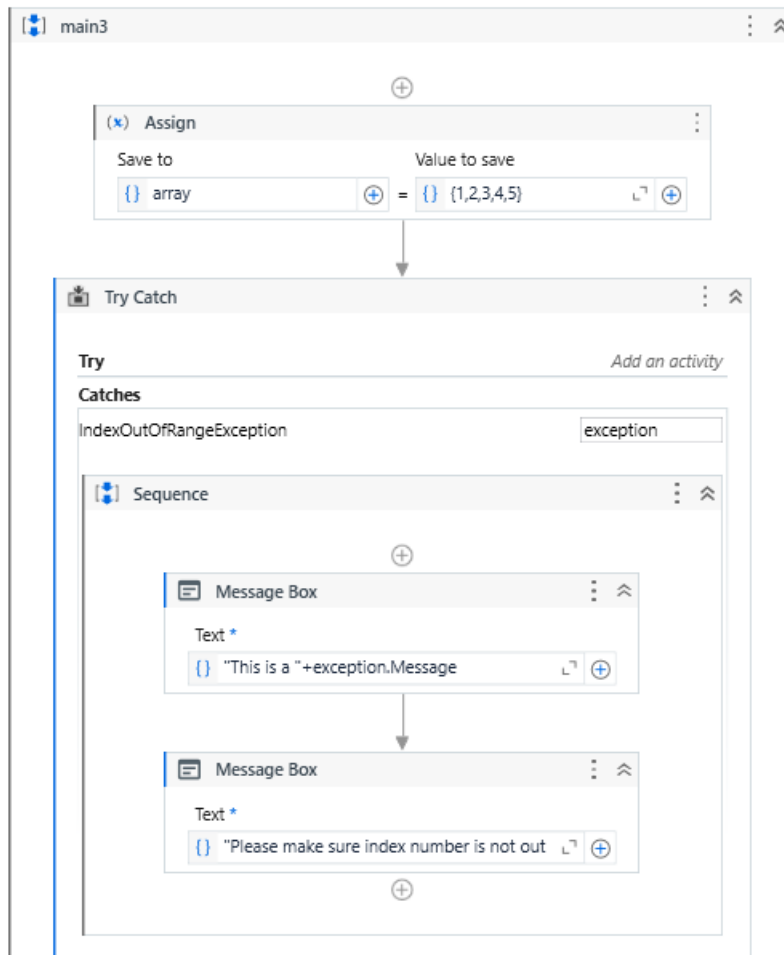


This contain writeline inside the doc to replaces

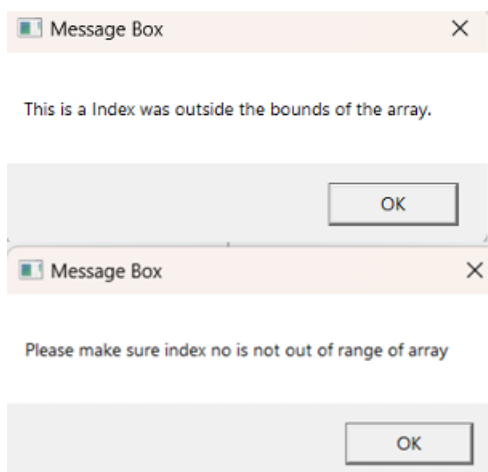
c) Credential Management

Steps :

- 1) Drag and drop the sequence activity, assign activity to print the array of number.
- 2) Drag and drop the writeline to print the array. To handle the exception right click on it and select try catch block option. In each section of try block mention the exception name.



Output :

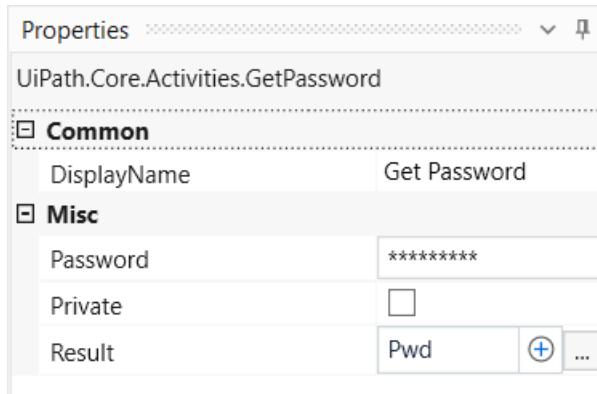


PRACTICAL NO:9

A. Automate the process of send email event.

Steps :

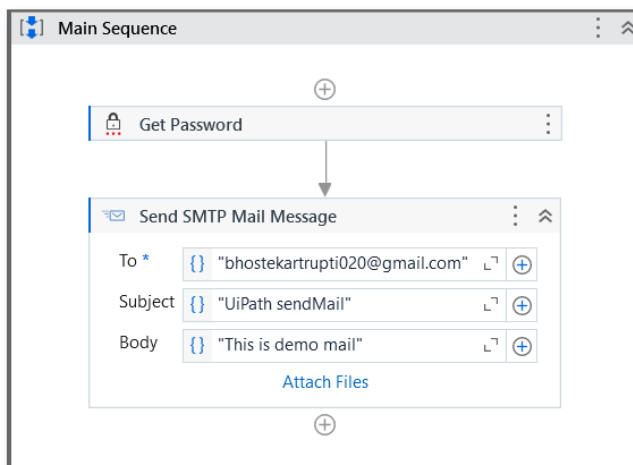
1) Drag and drop the get password activity and give required parameter to it.



2) Drag and drop send smtp mail message activity and provide required parameters.

Remember make sure you email less secure features should be enable.

<https://myaccount.google.com/lesssecureapps?pli=1>



B. To perform the credential management in UiPath.

Steps :

1) Drag and drop the sequence activity in UiPath the get secure Credentials.

2) Go to settings of your window search for credential manager and then do these steps.

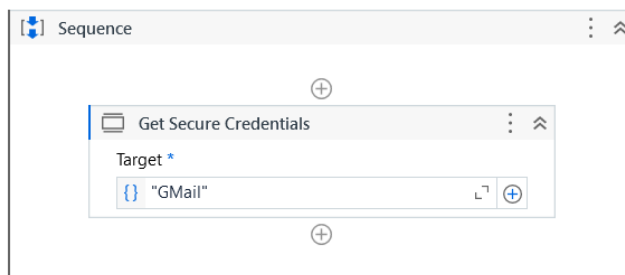
Type the website address and your credential information

Make sure that the user name and password that you type can be used to access the location.

Internet or network address:	GMail
User name:	truptibhostekar2611@gmail.com
Password:	*****

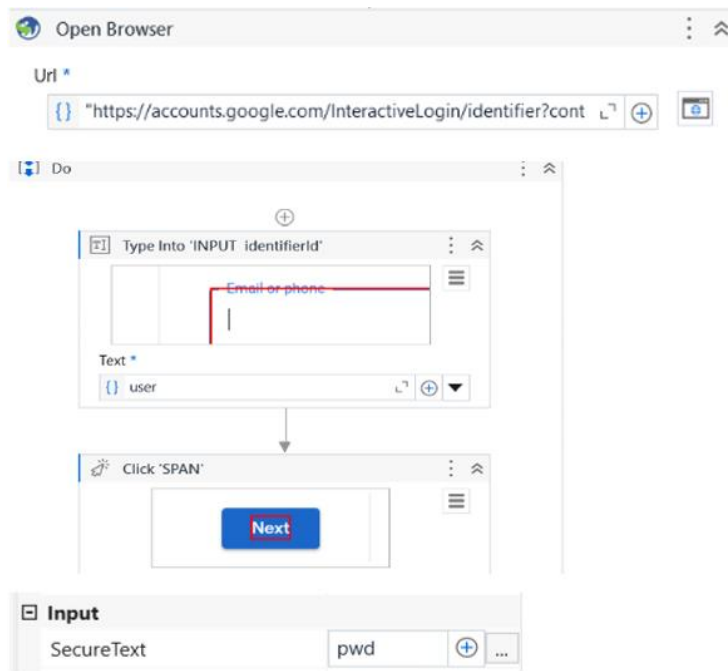
OK Cancel

- 3) Go to the properties panel of get secure credentials and provide following details.
Remember “GMail” case sensitive. In Output section give variable name “pwd” as password and “user” as username.

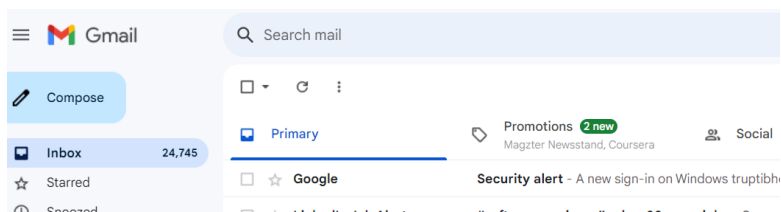


Properties	
UiPath.Credentials.Activities.GetSecureCredential	
Common	
DisplayName	Get Secure Credential
Input	
CredentialType	Generic
PersistenceType	Enterprise
Target	"GMail"
Misc	
Private	<input type="checkbox"/>
Output	
Password	pwd
Result	Result
Username	user

- 4) Drag and drop the open browser and provide the url of the email Login page. Then drag and drop type into activity of keyboard to Enter the password after that drop the click activity then type Secure text activity and give secure text as “pwd” in the input of properties panel.



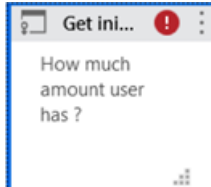
Output :



PRACTICAL NO: 10

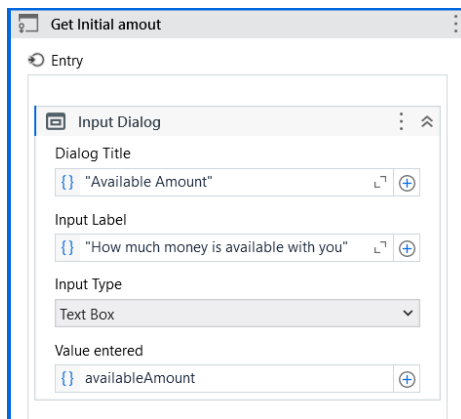
A. Automate any process using State Machine in UiPath.

- 1) Drag and drop the state machine activity and then expand it.
- 2) Drag and drop the state activity in state machine, change name as get initial amount, right click and click on annotation and add it. Then double click on it state activity.

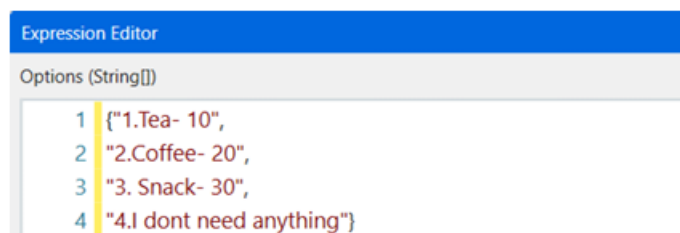


- 3) Drag and drop the assign activity in the entry section of state. And provide following.

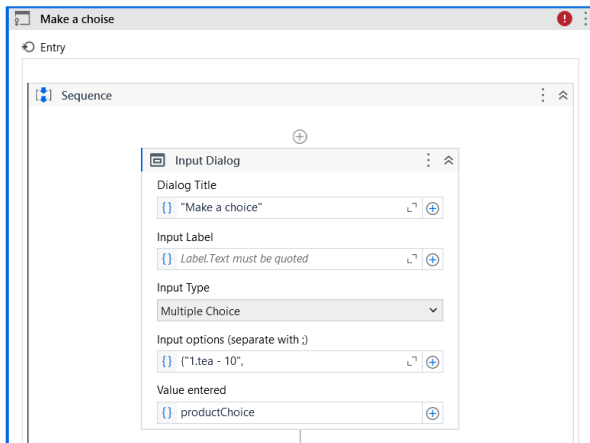
Remember: make sure your all the variable's scope should be in state machine so that we can use it anywhere of state machine.



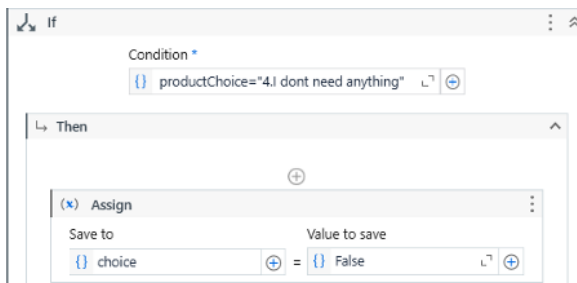
- 4) Drag and drop the another State activity change name to make a choice then double click on it.



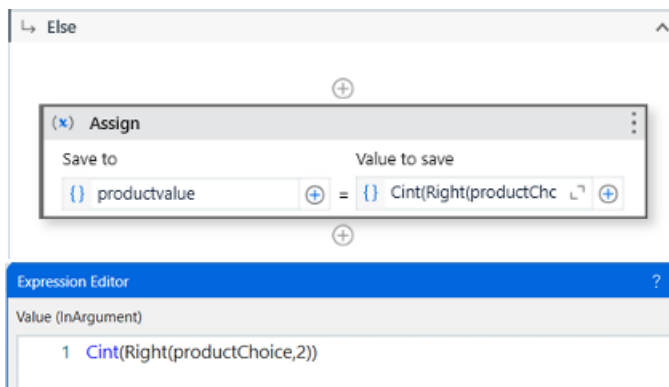
- 5) Give required details, for input label click on the options button of the input in the properties panel and provide this.



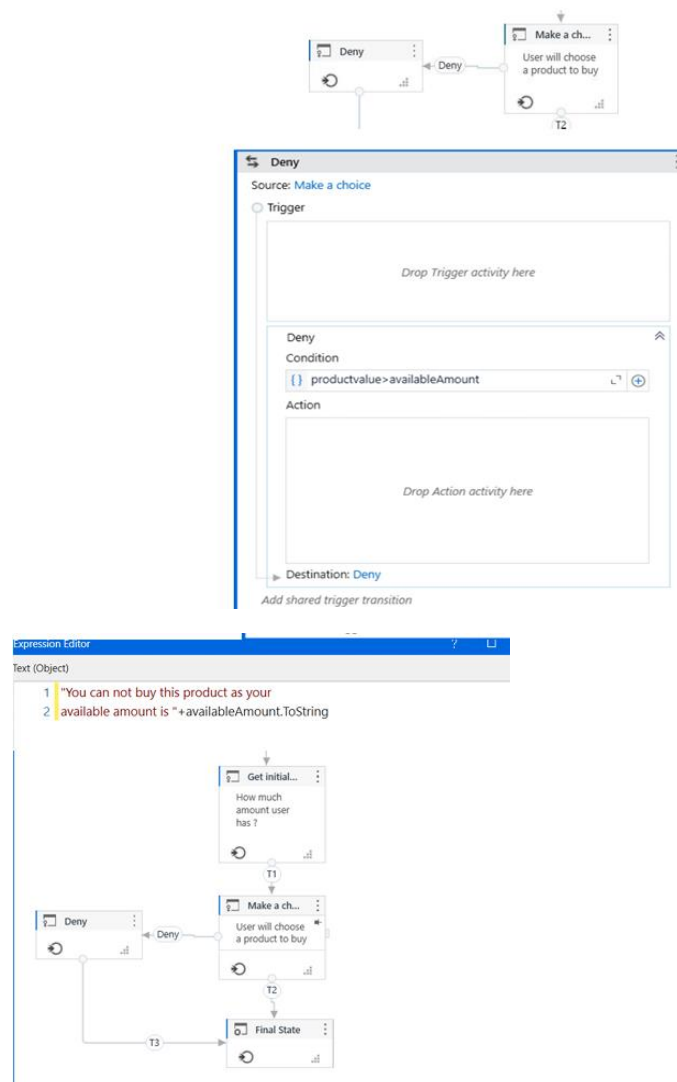
6) Drag and drop the If activity just after this Input dialog. Create a variable choice as a datatype of Boolean and make it true.



7) In else part of the If block, drag and drop the assign activity, create a variable name “productvalue” as integer type and in the properties panel in the value section click on 3 dots.



8) Drag and drop a state activity and give it name Deny. Connect it with the make a choice state and change transition to Deny and give this condition. And in Deny state drag and drop writeline.



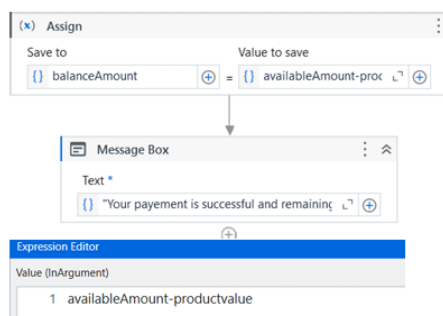
9) Drag and drop State activity and give transition name and state name as “Allow” and provide this condition in allow transition.

Condition

{ } availableAmount>productvalue

Action

10) Double click on Allow state and then drag and drop an assign activity and one writeline and provide follow details.



Output :

Text (Object)

```
1 | Your payment is successful and remaining amount is "+balanceAmount.ToString
```

This screenshot shows the initial state of the application. The 'Available Amount' dialog box is open, with the input field containing '50'. The 'Make a choice' dialog box is also open, with the dropdown menu set to '3. Snack- 30'. Below these, two 'Message Box' dialog boxes are shown: the first displays 'Your payment is successful and remaining amount is 20', and the second displays 'Final State Processed.'.

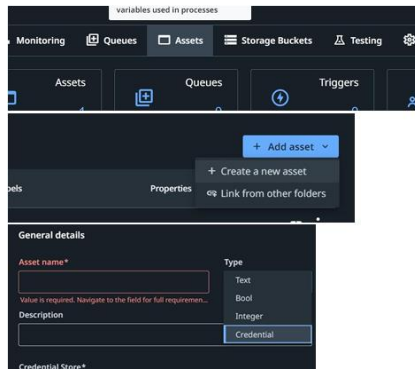
This screenshot illustrates a failed transaction. In the 'Available Amount' dialog box, the input is '20'. The 'Make a choice' dialog box remains at '3. Snack- 30'. The first 'Message Box' dialog box now displays 'You can not buy this product as your available amount is 20'. The second 'Message Box' dialog box still displays 'Final State Processed.'.

This screenshot shows a successful transaction for a different item. The 'Available Amount' dialog box has the input '5'. The 'Make a choice' dialog box dropdown is now set to '4.I dont need anything'. A single 'Message Box' dialog box at the bottom displays 'Final State Processed.'.

B. Demonstrate the use of assets in orchestrator.

Steps :

1) Go to “cloud.uipath.com” then click on the orchestrator. Then click on the assets icon. Click on the credentials(username and password) and then give asset name as GmailCredential.

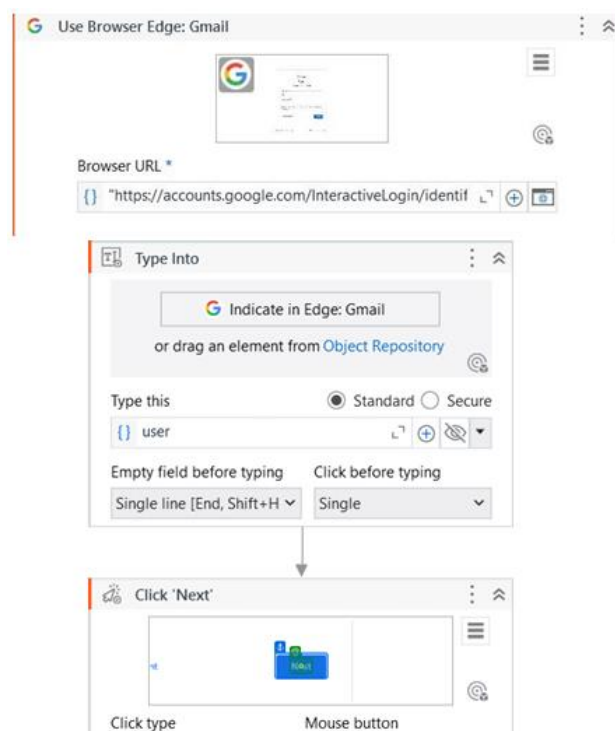


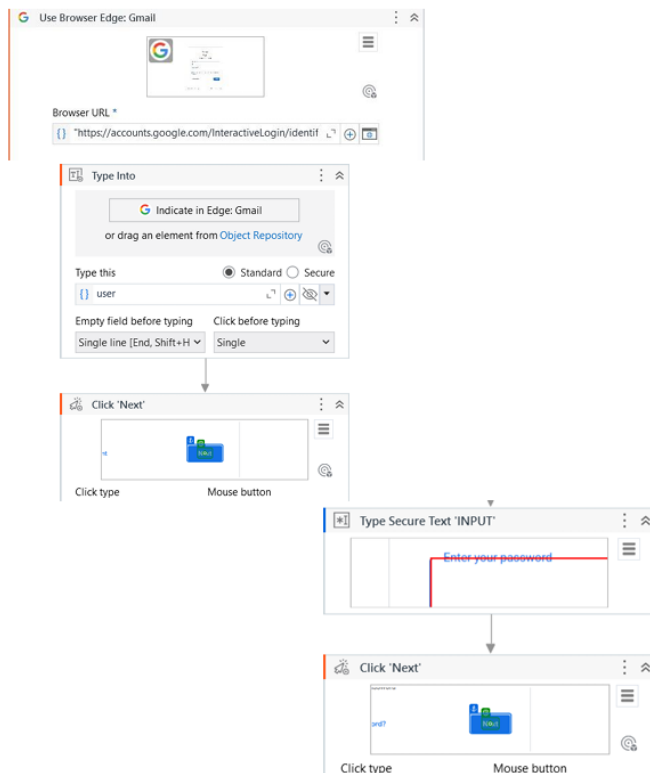
2) Drag and drop the get credential activity. And choose proper path and name.

3) Drag and drop user application activity, type into activity, click activity, type secure text



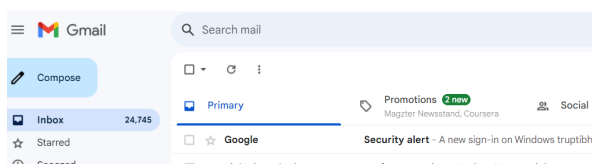
activity and click activity respectively



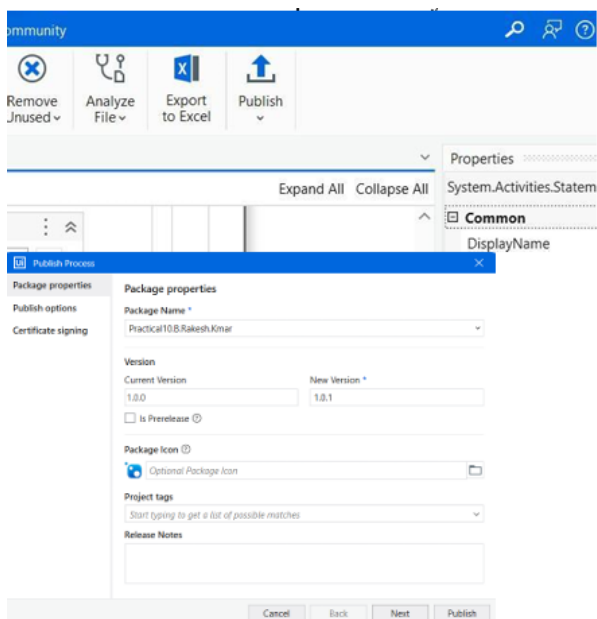


In the properties panel of the secure text activity in input section give this parameters.

Output :



C. Demonstrate the use of publish utility



/SSS

The image displays three sequential screenshots of the 'Publish Process' dialog box in UiPath, showing the steps to publish a process.

First Screenshot: Publish options

- Package properties**
- Publish options**
- Certificate signing**

Publish options

- Publish to**: A dropdown menu is open, showing options: Orchestrator Tenant Processes Feed, Orchestrator Tenant Processes Feed, Orchestrator Personal Workspace Feed, and Custom (selected).
- API Key**: Optional API Key

Second Screenshot: Publish options

- Package properties**
- Publish options**
- Certificate signing**

Publish options

- Publish to**: Custom
- Custom URL**: C:\Users\rakes\OneDrive\Documents\UiPath\UipathPackageDownloadLocally
- API Key**: Optional API Key
- Compilation Settings**: ☐ Remove Unused Dependencies ⓘ

Third Screenshot: Certificate signing

- Package properties**
- Publish options**
- Certificate signing**

Certificate signing

- Certificate**: [Field]
- Certificate Password**: [Field]
- Timestamping**: Optional Certificate Timestamping

Click on publish