PRACTICAL NO. 1

A. Aim: Create a Sequence based project.

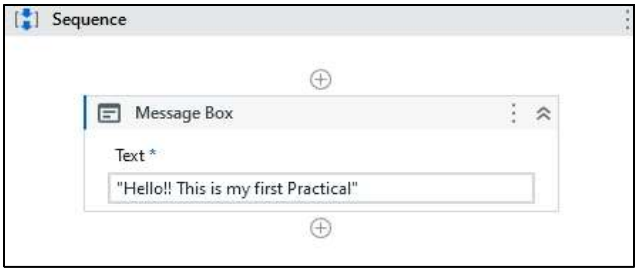
Steps: -

Step 1: Open UiPath Studio. Start a Blank Process and give a name to it.

Step 2: Drag and Drop a Sequence Activity from the Activity Panel in the workflow.

Step 3: Drag and drop a Message Box Activity in the Sequence Activity and type anything that you want to print. (e.g.”Hello!This is my first Practical”.)

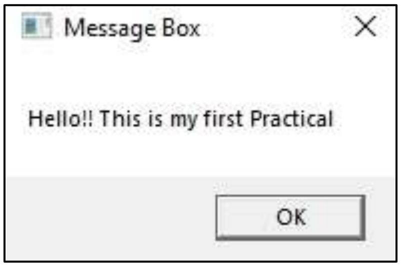
Step 4: Run



Text *

"Hello!! This is my first Practical"

Output:



Hello!! This is my first Practical

Conclusion:

The practical to demonstrate Sequence based project was successfully executed.

B. Aim: Create a Flowchart based project.

Steps: -

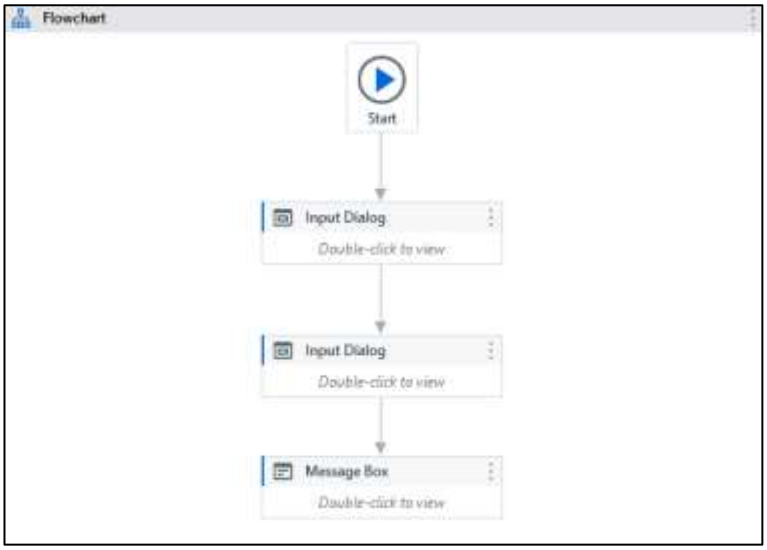
Step 1: First, add a Flowchart from the Activities panel into the Designer panel.

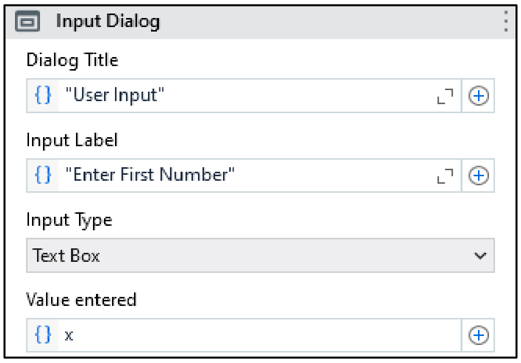
Step 2: Take two Input dialog activities (for entering the numbers to be added) inside flowchart

Step 3: Create the variables x and y to save the values.

Step 4: Next, add a Message box activity to perform a mathematical operation (addition). To show sum of the two numbers write: x + y

Step 5: Run



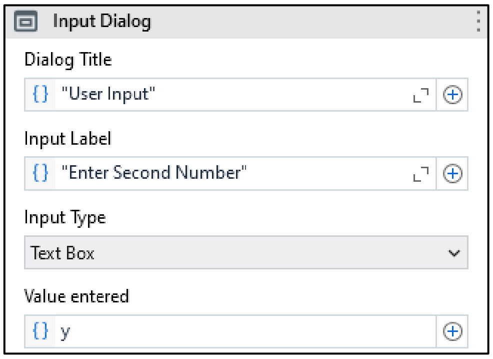

Input Dialog

Dialog Title: "User Input"

Input Label: "Enter First Number"

Input Type: Text Box

Value entered: x

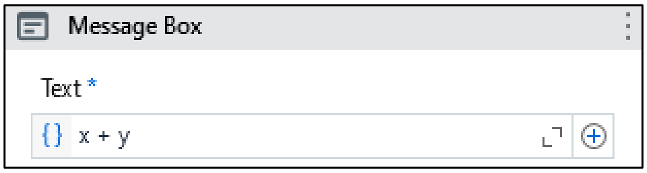

Input Dialog

Dialog Title: "User Input"

Input Label: "Enter Second Number"

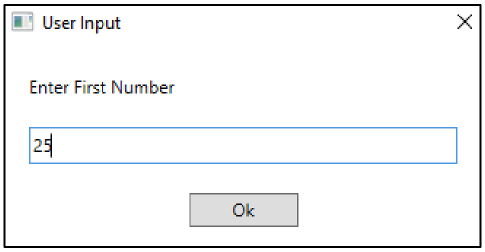
Input Type: Text Box

Value entered: y


Message Box

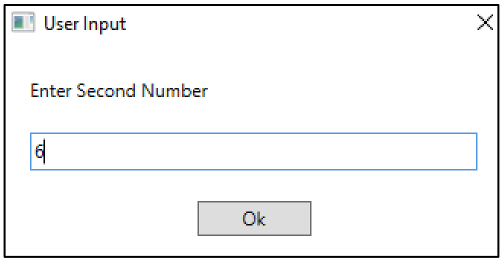
Text *: x + y

Output:


User Input

Enter First Number

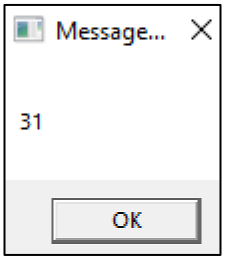
25


User Input

Enter Second Number

6

Addition of two numbers:


Message...

31

Conclusion:

The practical to demonstrate Flowchart based project was successfully executed.

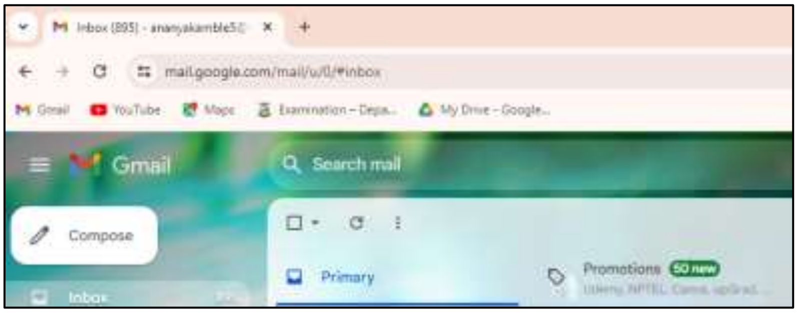
C. Aim: Create an UiPath Robot which can empty a folder in Gmail solely on basis of recording.

Steps: -

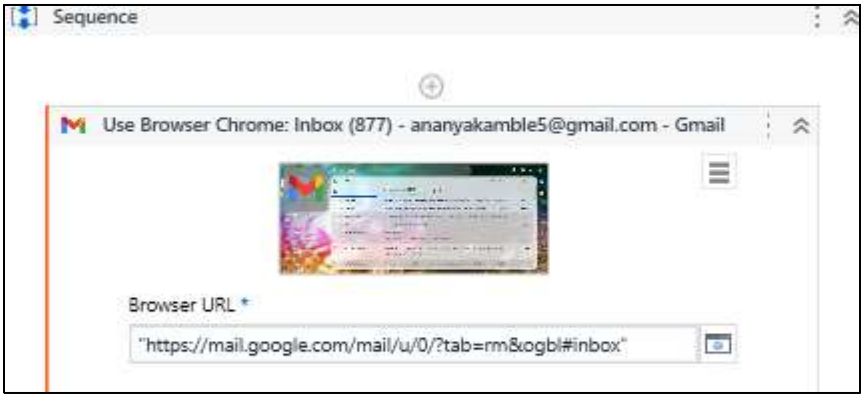
Step 1: Open UiPath Studio. Start a blank Process and give it a meaningful name.

Step 2: Drag and drop "Sequence" activity in the designer panel.

Step 3: Open Gmail.



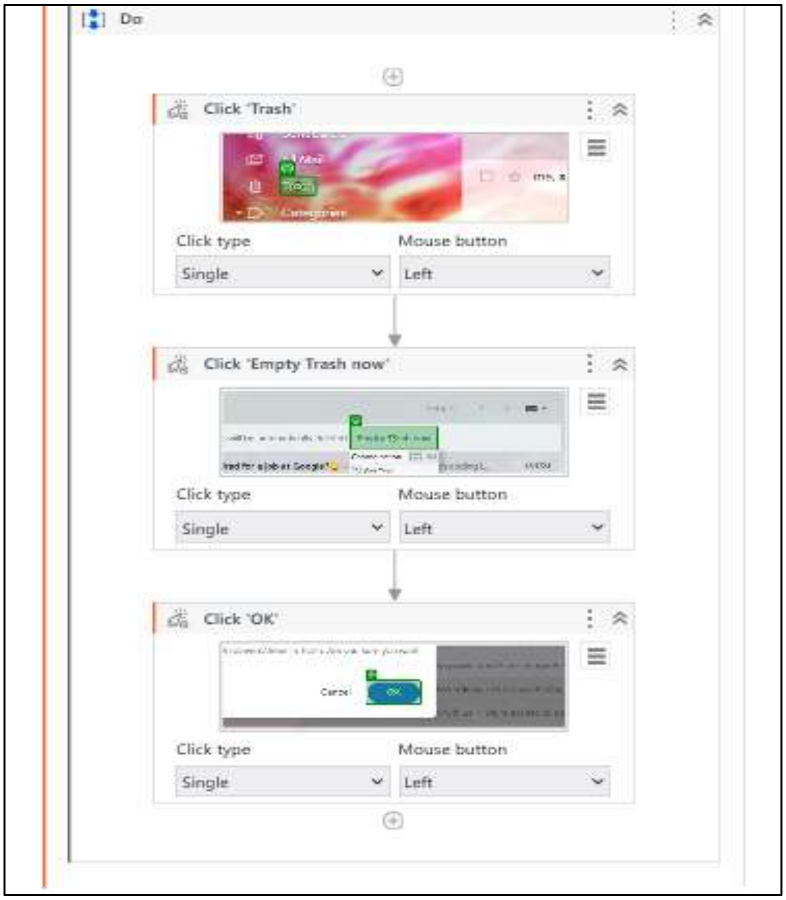
Step 4: Click on "App/ Web Recorder" Icon to record the following steps using the "Use Browser" Activity.


Sequence
Use Browser Chrome: Inbox (877) - ananyakamble5@gmail.com - Gmail

Browser URL *

"https://mail.google.com/mail/u/0/?tab=rm&ogbl#inbox"

Step 5: Record the following steps Click on the "Bin", then click on "Empty Bin" and Click on Yes to Confirm the Empty Bin action. Save and confirm to return back to UiPath Studio. This will create a Recorder Sequence in the workspace.



Do

Click 'Trash'

Click type: Single
Mouse button: Left

Click 'Empty Trash now'

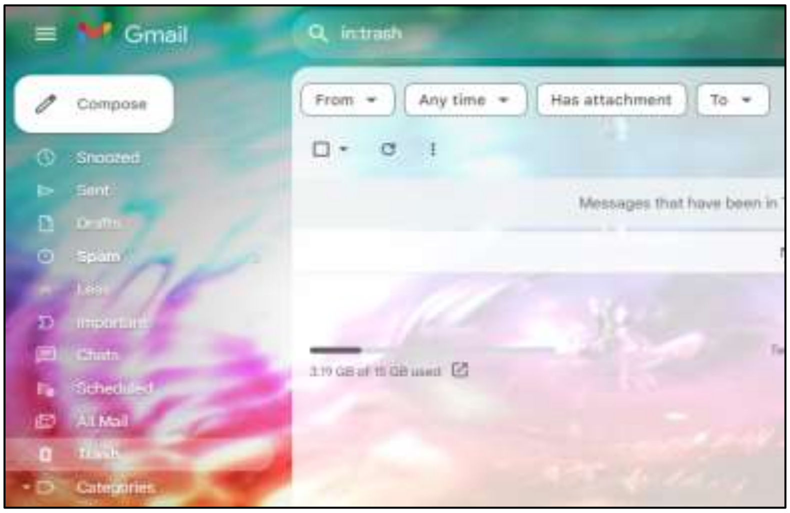
Click type: Single
Mouse button: Left

Click 'OK'

Click type: Single
Mouse button: Left

Step 6: Click the Run button and see the result.

Output:



Conclusion:

The practical to empty a folder in Gmail solely on basis of recording was successfully executed.

PRACTICAL NO. 2

A. Aim: Automate UiPath Number Calculation (Addition, Subtraction, Multiplication, Division of numbers).

Steps: -

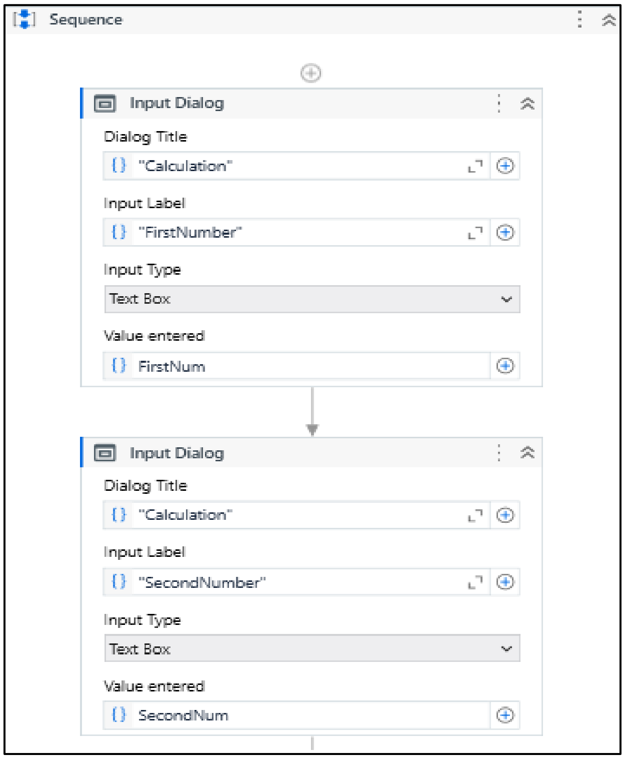
Step 1: First Drag and Drop a two input Activity in the sequence from the Activity Panel.

Step 2: In First input dialog type “Calculation” for Dialog Title and then Input Label as a “FirstNumber” and Value entered as FirstNum.

Step 3: In Second input dialog Dialog Title same as First Input dialog and then Input Label as a “SecondNumber” and Value entered a SecondNum.

Step 4: Again, take four message box from Activity Panel. In the text field type "Addition:"+" "+(FirstNum+SecondNum).ToString and It is same for all Subtraction, Division and Multiplication.

Step 5: Run.



Sequence

Input Dialog

Dialog Title: "Calculation"

Input Label: "FirstNumber"

Input Type: Text Box

Value entered: FirstNum

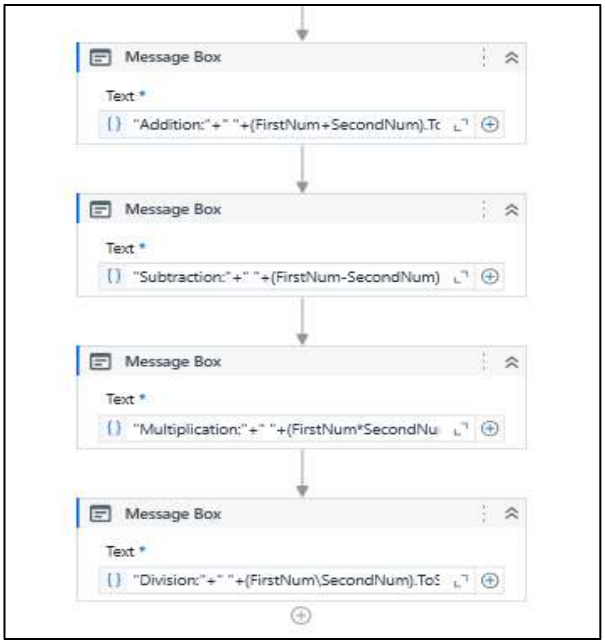
Input Dialog

Dialog Title: "Calculation"

Input Label: "SecondNumber"

Input Type: Text Box

Value entered: SecondNum



Message Box

Text *

"Addition:"+" "+(FirstNum+SecondNum).Tc

Message Box

Text *

"Subtraction:"+" "+(FirstNum-SecondNum)

Message Box

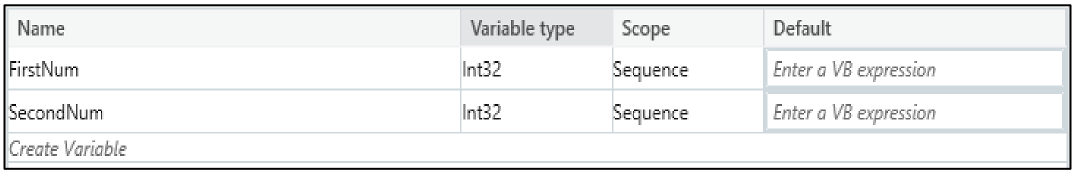
Text *

"Multiplication:"+" "+(FirstNum*SecondNu

Message Box

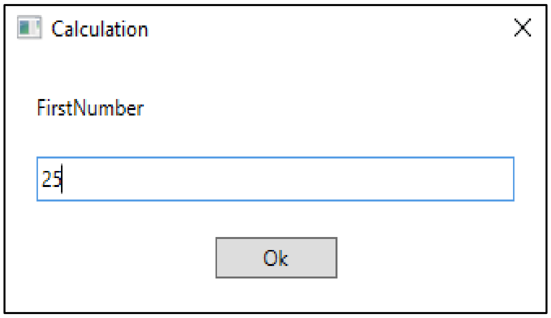
Text *

"Division:"+" "+(FirstNum\SecondNum).To£



Name	Variable type	Scope	Default
FirstNum	Int32	Sequence	*Enter a VB expression*
SecondNum	Int32	Sequence	*Enter a VB expression*
Create Variable			

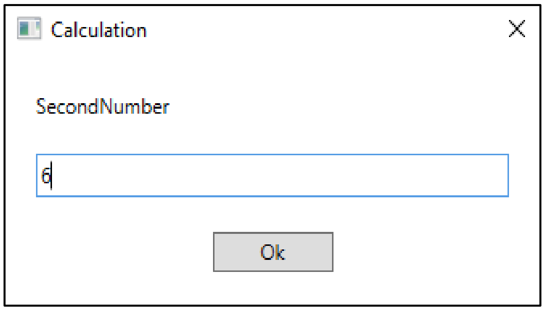
Output:



Calculation

FirstNumber

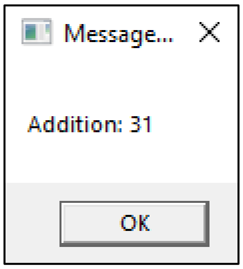
25



Calculation

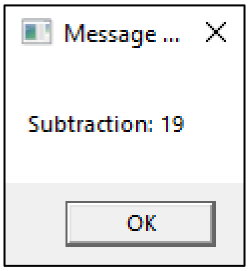
SecondNumber

6



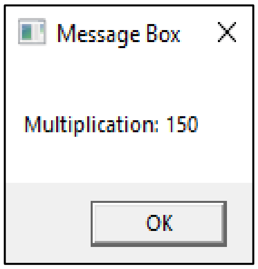
Message...

Addition: 31



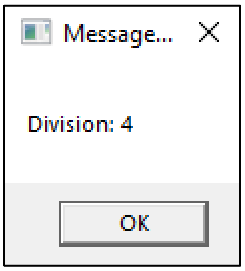
Message ...

Subtraction: 19



Message Box

Multiplication: 150



Message...

Division: 4

Conclusion:

The practical to automate UiPath number calculation for Addition, Subtraction, Multiplication, Division was Successfully executed.

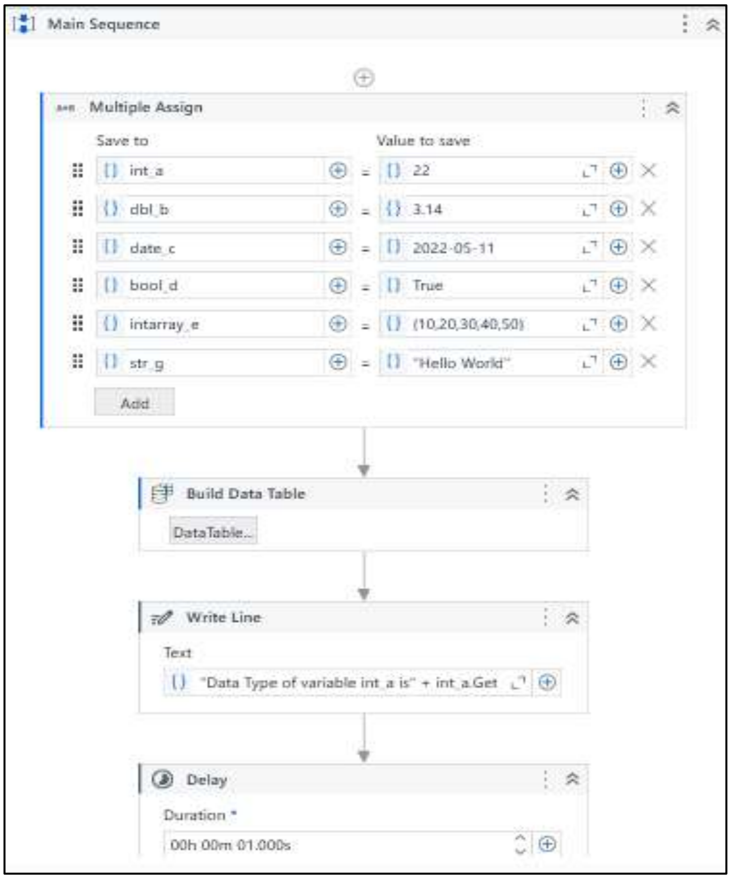
B. Aim: Create an automation UiPath project using different types of variables (number, datetime, Boolean, generic, array, datatable).

Steps: -

Step 1: Drag and drop Sequence Activity from the Activity Panel.

Step 2: Now drag and drop a Multiple Assign Activity in the flowchart.

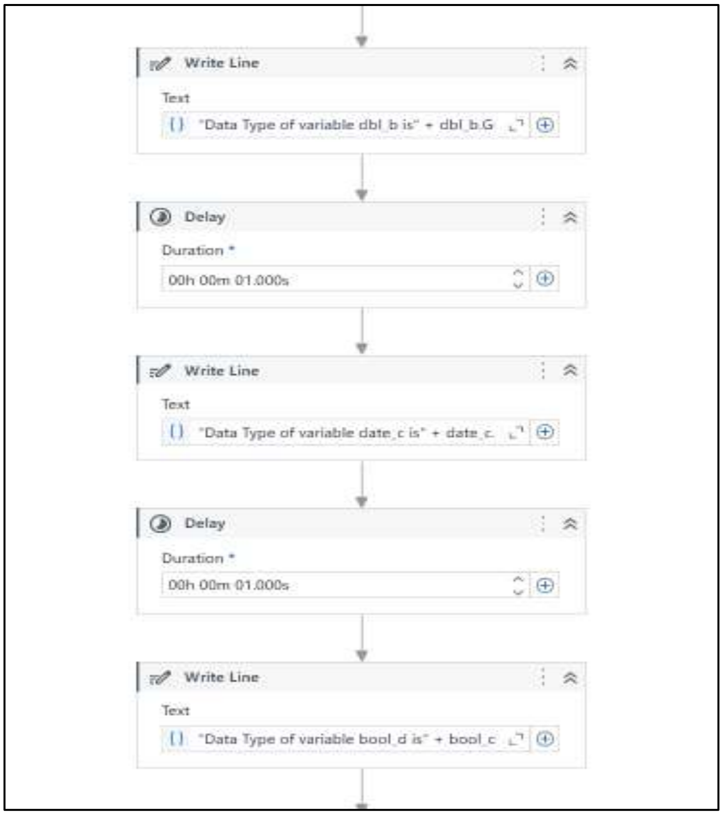
Step 3: Add six Multiple Assign Activity (assign int_a, dbl_b, date_c, bool_d intarray_e, str_g , variables). Create a variable for each Multiple Assign Activity and save it.



Save to		Value to save
int_a	=	22
dbl_b	=	3.14
date_c	=	2022-05-11
bool_d	=	True
intarray_e	=	(10,20,30,40,50)
str_g	=	"Hello World"

Text: "Data Type of variable int_a is" + int_a.Get

Duration *: 00h 00m 01.000s



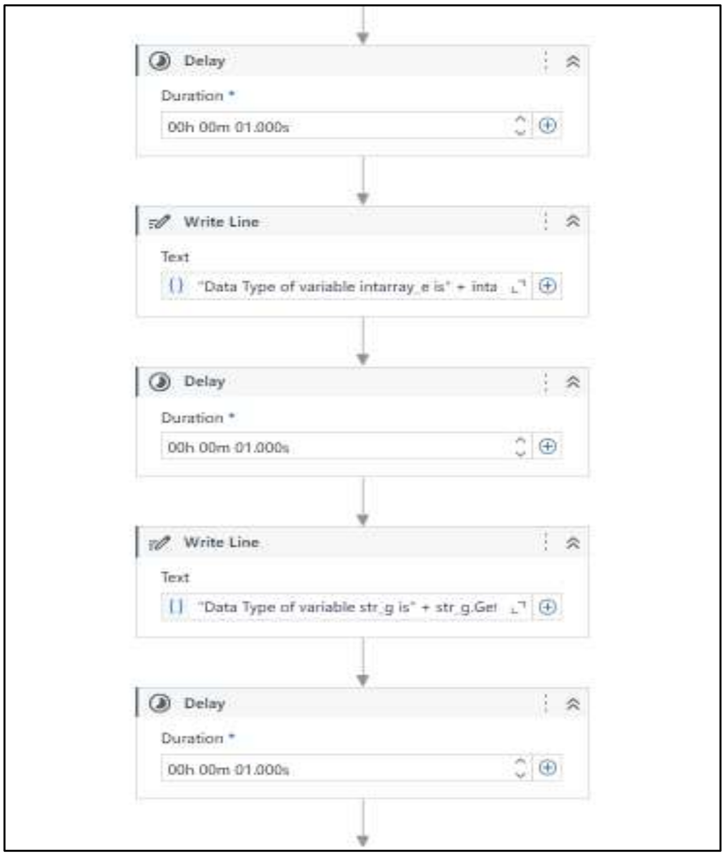
Write Line
Text
"Data Type of variable dbl_b is" + dbl_b.G

Delay
Duration *
00h 00m 01.000s

Write Line
Text
"Data Type of variable date_c is" + date_c.

Delay
Duration *
00h 00m 01.000s

Write Line
Text
"Data Type of variable bool_d is" + bool_c



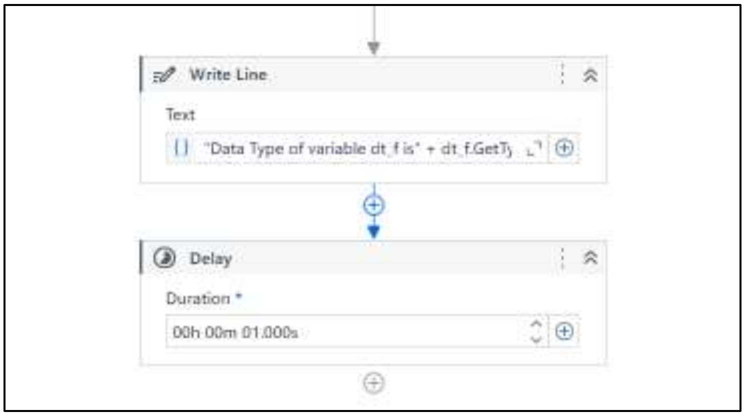
Delay
Duration *
00h 00m 01.000s

Write Line
Text
"Data Type of variable intarray_e is" + inta

Delay
Duration *
00h 00m 01.000s

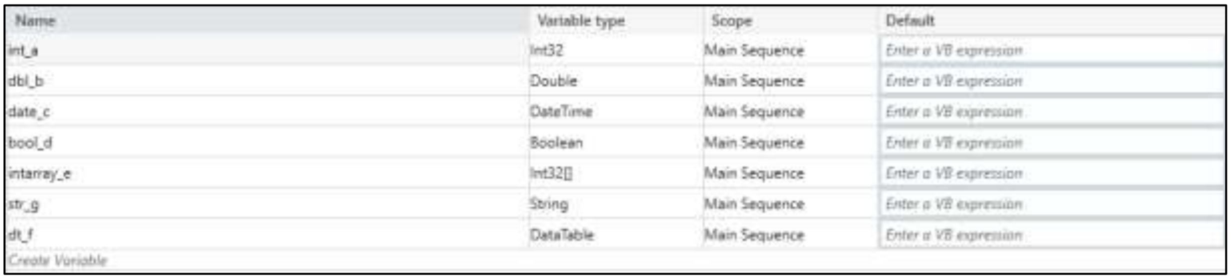
Write Line
Text
"Data Type of variable str_g is" + str_g.Get

Delay
Duration *
00h 00m 01.000s



"Data Type of variable dt_f is" + dt_f.GetTy

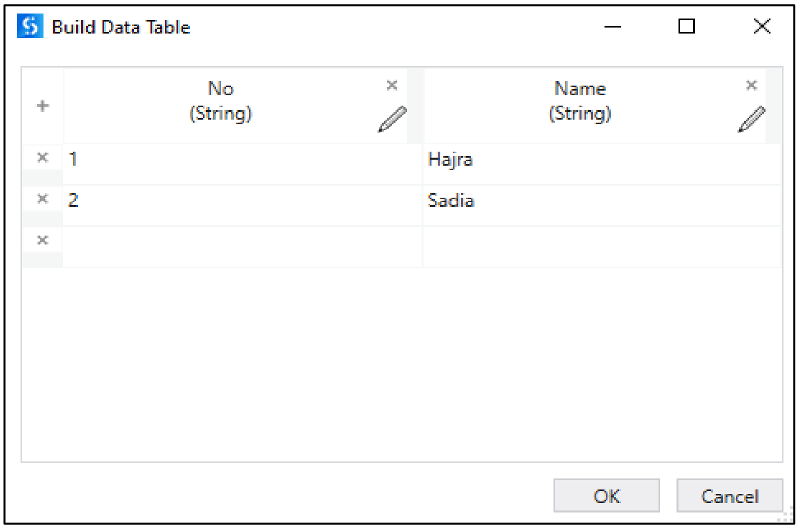
00h 00m 01.000s



Name	Variable type	Scope	Default
int_a	Int32	Main Sequence	Enter a VB expression
dbl_b	Double	Main Sequence	Enter a VB expression
date_c	DateTime	Main Sequence	Enter a VB expression
bool_d	Boolean	Main Sequence	Enter a VB expression
intarray_e	Int32[]	Main Sequence	Enter a VB expression
str_g	String	Main Sequence	Enter a VB expression
dt_f	DataTable	Main Sequence	Enter a VB expression
Create Variable			

Step 4: For Data Table drag and drop Build Data Table Activity under Multiple assign activity.

Step 5: Add a column in Build Data Table and name it as No and Name. In Property Panel of Build Data Table in output type dbl_b.(variable created in Step 5).



No (String)	Name (String)
1	Hajra
2	Sadia

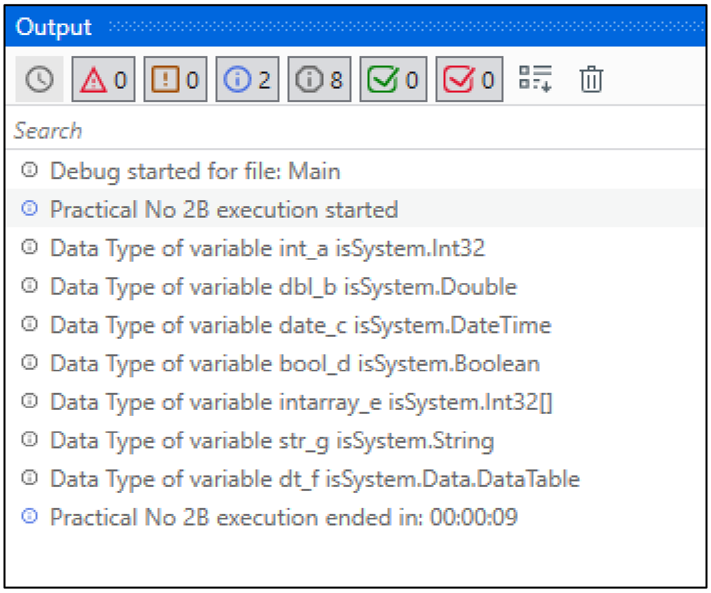
Step 6: Now take a Write Line and Delay Activity.

Step 7: In the text Field of Write line Activity for number type "Data type of variable int_a is " + int_a.GetTypeOf.ToString and set duration property if Delay Activity.

Step 8: Repeat Step 8 and Step 9 for other Multiple Assign Activity as well(dbl_b, bool_d, intarray_e, dt_f, str_g).

Step 9: Run

Output:



```
Debug started for file: Main
Practical No 2B execution started
Data Type of variable int_a isSystem.Int32
Data Type of variable dbl_b isSystem.Double
Data Type of variable date_c isSystem.DateTime
Data Type of variable bool_d isSystem.Boolean
Data Type of variable intarray_e isSystem.Int32[]
Data Type of variable str_g isSystem.String
Data Type of variable dt_f isSystem.Data.DataTable
Practical No 2B execution ended in: 00:00:09
```

Conclusion:

The practical to automate UiPath project using different types of variables (number, datetime, Boolean, generic, array, datatable) was successfully executed.

PRACTICAL NO. 3

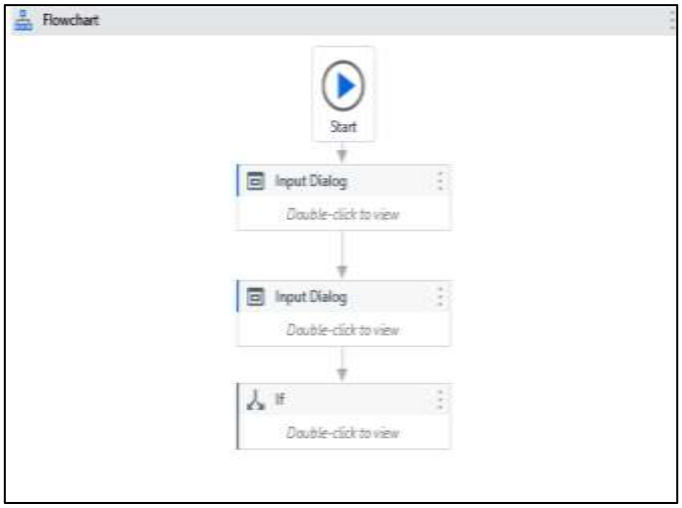
A. Aim: Create an automation UiPath using decision statements.

i. If Activity:

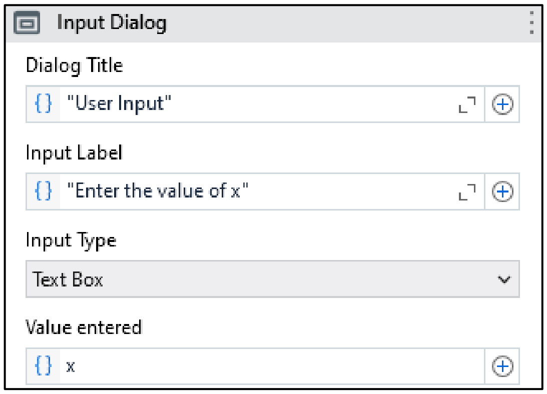
Steps: -

Step 1: Open UiPath Studio. Start a BlankProcess.

Step 2: Add a Flowchart from the Activities panel.



Step 3: Add two Input dialog activities. Create two integer variables, x and y.



Input Dialog

Dialog Title

"User Input"

Input Label

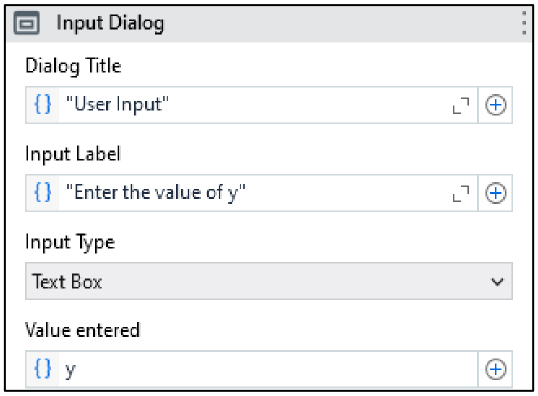
"Enter the value of x"

Input Type

Text Box

Value entered

x



Input Dialog

Dialog Title

"User Input"

Input Label

"Enter the value of y"

Input Type

Text Box

Value entered

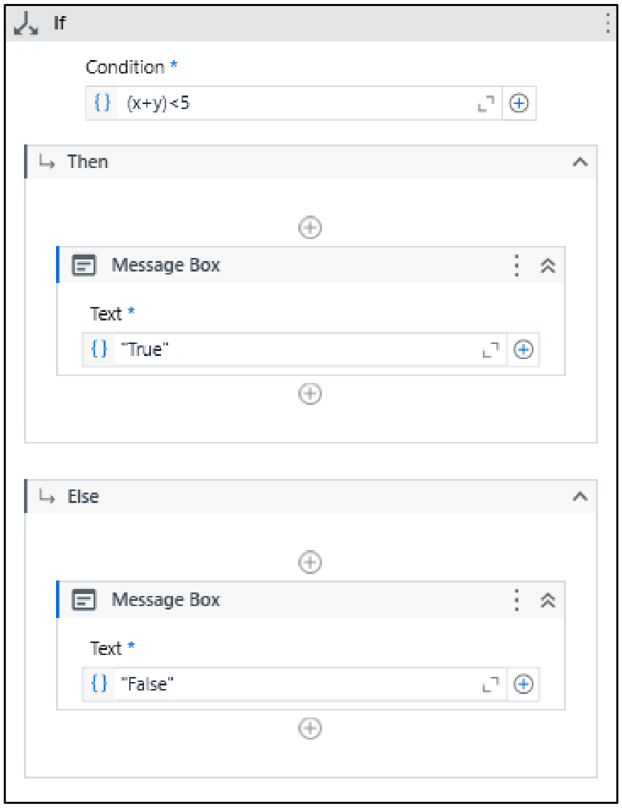
y

Step 4: In the Properties panel, change the label name and title name of both the Input dialog activities.

Step 5: Now, specify these names of these two variables in the Result property of both the Input dialog activities.

Step 6: Now add the If activity to the Designer panel:

Step 7: In the condition part, x+y<2, check whether it is true or false. Add two Write line activities and type “True” in one and “False” in the other:



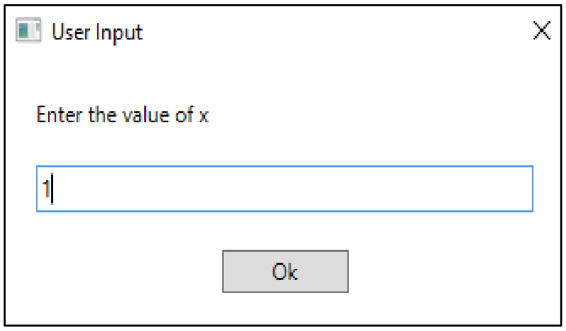
Condition * (x+y)<5

Text * "True"

Text * "False"

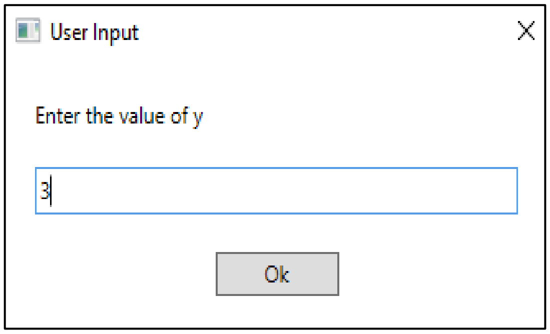
Step 8: Run

Output:



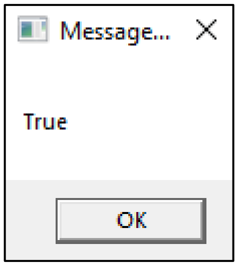
Enter the value of x

1

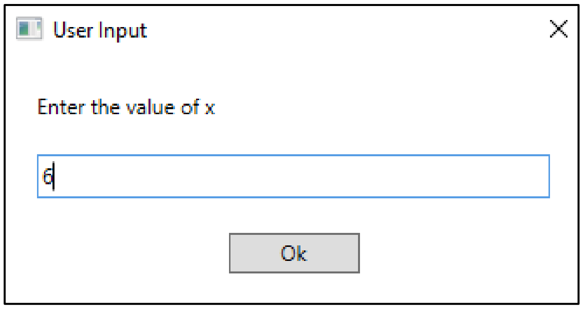


Enter the value of y

3

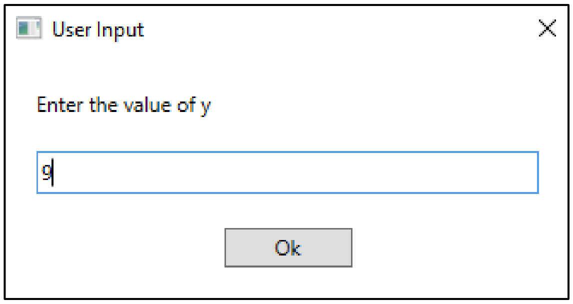


True



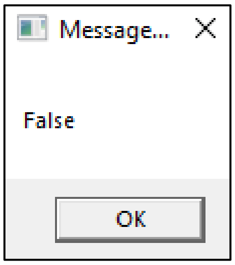
Enter the value of x

6



Enter the value of y

9



False

ii. Flow decision:

Steps: -

Step 1: First, add a Flowchart from the Activities panel into the Designer panel.

Step 2: Add a Sequence activity within the Flowchart.

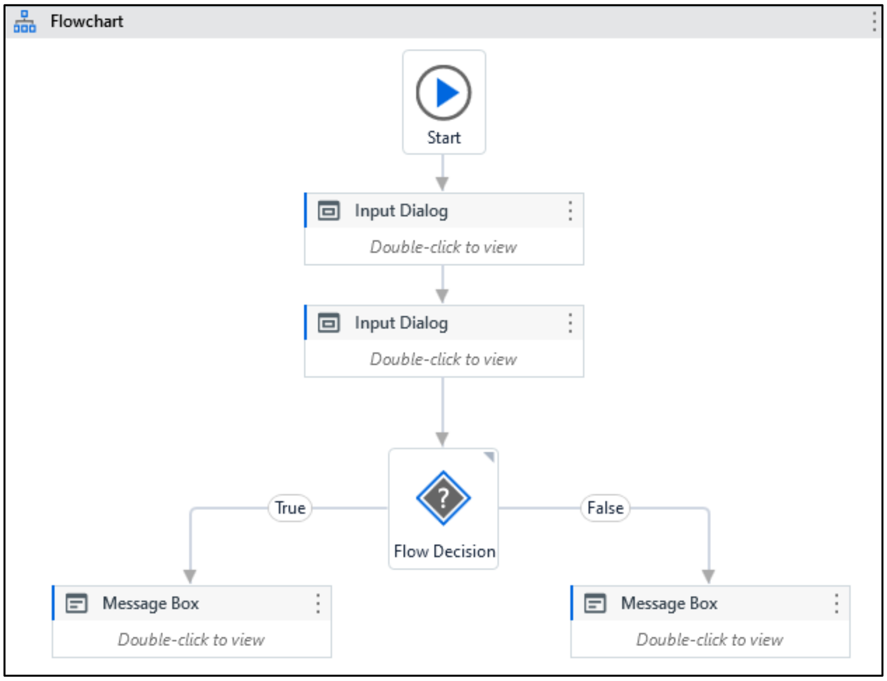
Step 3: Take two Input dialog activities (for entering the numbers to be added) inside the Sequence activity.

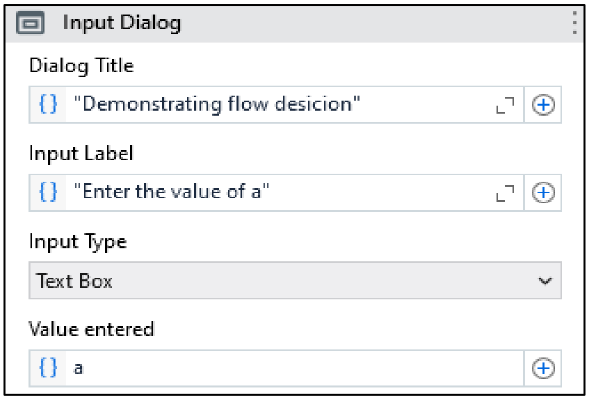
Step 4: Create the variables a and b to save the values. Assign these variables in Input dialog activity.

Step 5: Next, add a Message box activity to perform a mathematical operation. In our case, the sum of the two numbers is less than 20: a + b < 20

Step 6: Now, add a Flow Decision activity to check the mathematical operation.

Step 7: If true, the Flow Decision will flow toward the true branch. Otherwise, it will flow towards false branch.





Input Dialog

Dialog Title

{} "Demonstrating flow desicion"

Input Label

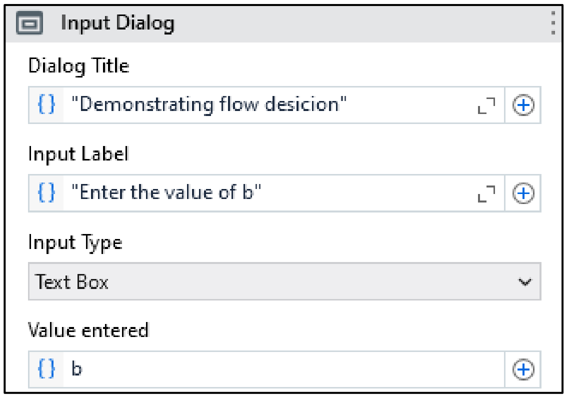
{} "Enter the value of a"

Input Type

Text Box

Value entered

{} a



Input Dialog

Dialog Title

{} "Demonstrating flow desicion"

Input Label

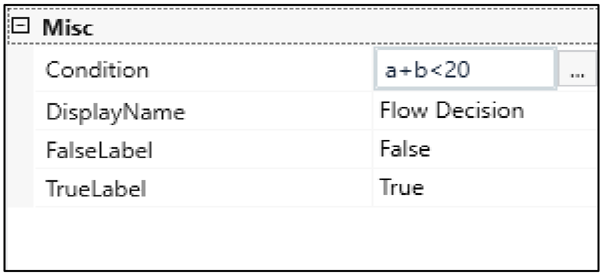
{} "Enter the value of b"

Input Type

Text Box

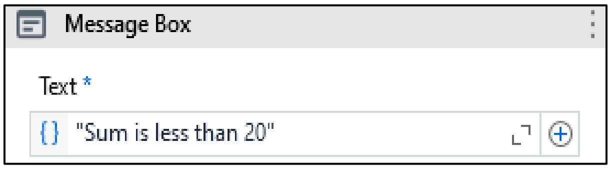
Value entered

{} b



⊟ Misc

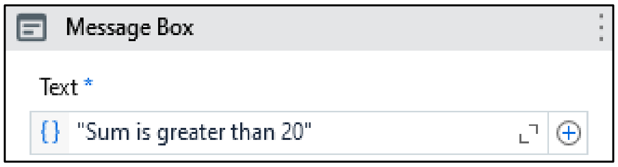
Condition	a+b<20
DisplayName	Flow Decision
FalseLabel	False
TrueLabel	True



Message Box

Text *

"Sum is less than 20"



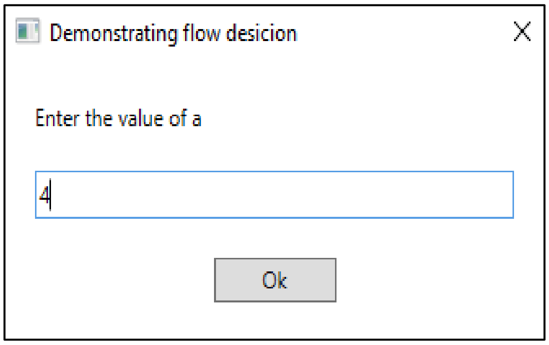
Message Box

Text *

"Sum is greater than 20"

Output:

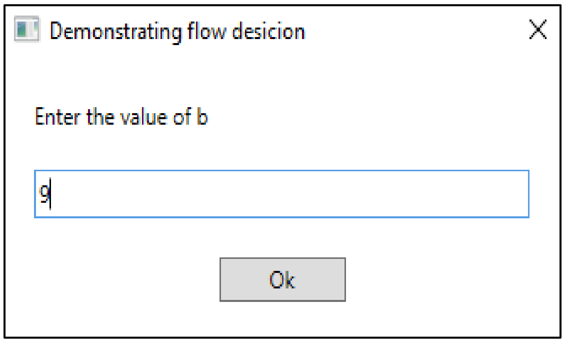
1) **Sum is less than 20**:



Demonstrating flow desicion

Enter the value of a

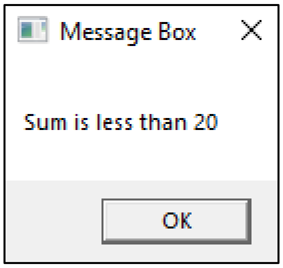
4



Demonstrating flow desicion

Enter the value of b

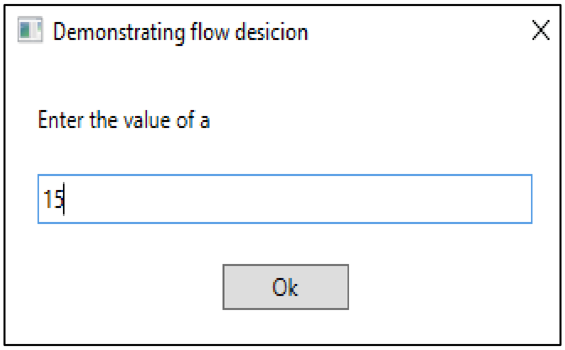
9



Message Box

Sum is less than 20

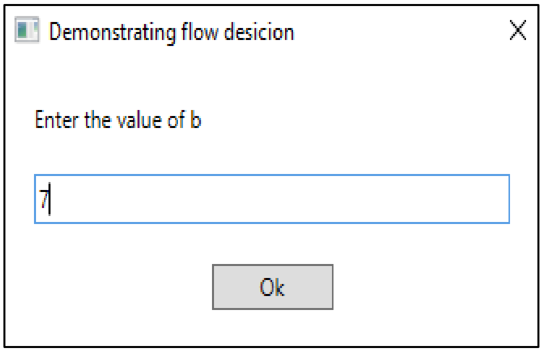
2) **Sum is greater than 20:**



Demonstrating flow desicion

Enter the value of a

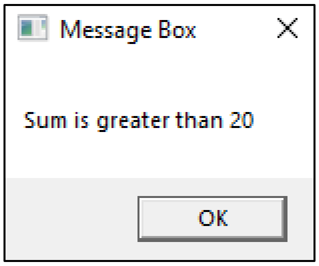
15



Demonstrating flow desicion

Enter the value of b

7



Sum is greater than 20

Conclusion:

The practical to demonstrate an automation in UiPath using decision statements was successfully executed.

B. Aim: Create an automation UiPath using looping statements.

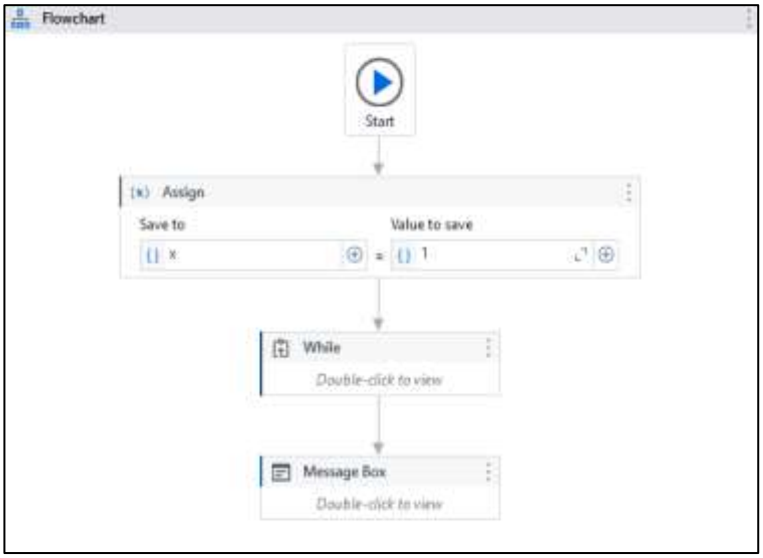
i. While:

Steps: -

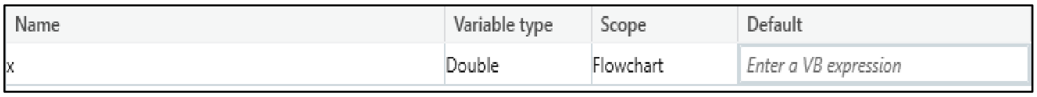
Step 1: Open UiPath Studio. Start a BlankProcess. Give it a name.

Step 2: Add flowchart in the Designer Panel, then add a Sequence.

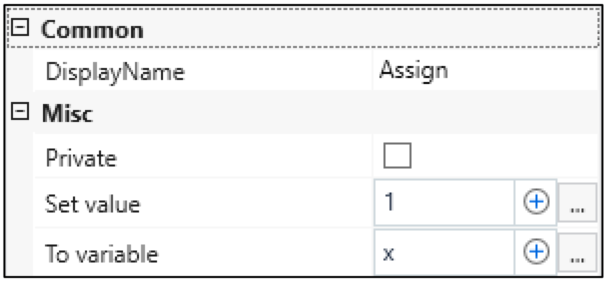
Step 3: Add Assign Activity under sequence.



Save to: x = Value to save: 1



Name	Variable type	Scope	Default
x	Double	Flowchart	Enter a VB expression



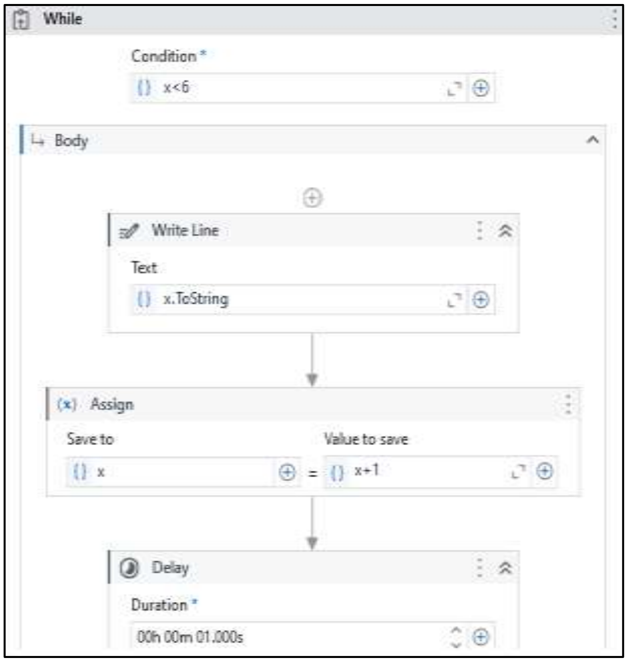
⊟ Common

DisplayName	Assign

⊟ Misc

Private	□
Set value	1
To variable	x

Step 4: Create an integer variable x in the result under property panel and save it. Assign x=1



While

Condition *: x<6

Body

Write Line
Text: x.ToString

Assign
Save to: x = Value to save: x+1

Delay
Duration *: 00h 00m 01.000s

Step 5: Add a While activity from the Activities panel.

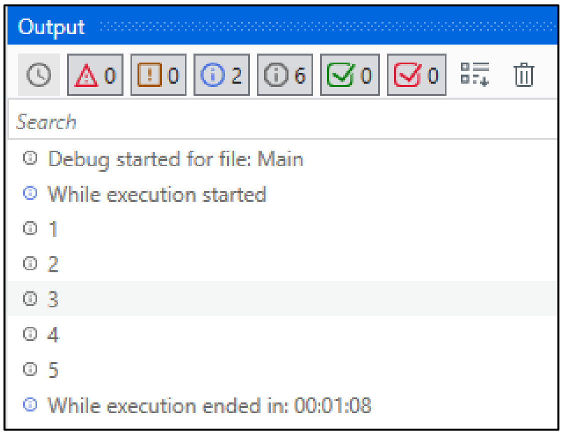
Step 6: In the body section of the While activity, add an Writeline activity and type in text field as: x.ToString.

Step 7: Under Writeline Activity again take Assign Activity. Set x = x+1 in the value section of the Assign activity to increment the result each time by 1 until the loop is executed.

Step 8: In the condition section, set the condition x<6. The loop will continue until the condition holds true.

Step 9: Run.

Output:



```
Debug started for file: Main
While execution started
1
2
3
4
5
While execution ended in: 00:01:08
```

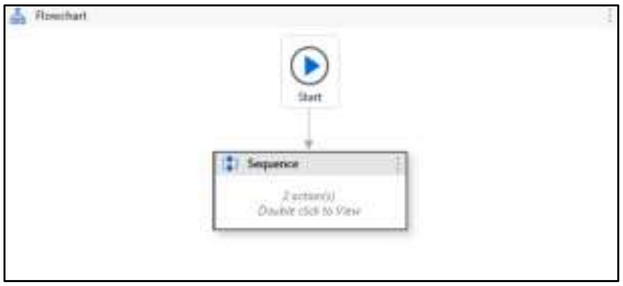
ii. Do…While:

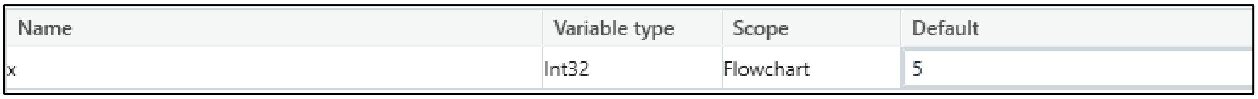
Steps: -

Step 1: Open UiPath Studio. Start a BlankProcess. Give a name to it.

Step 2: Add flowchart in the Designer Panel, then add a Sequence.

Step 3: Add Assign Activity under sequence.





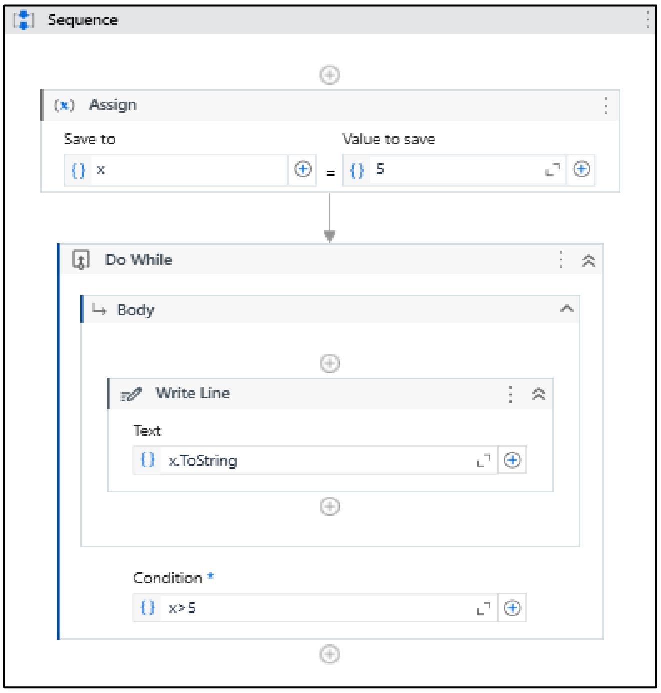
Name	Variable type	Scope	Default
x	Int32	Flowchart	5

Step 4: Create an integer variable x in the result under property panel and save it. Assign x=5

Step 5: Add a Do while activity from the Activities panel.

Step 6: In the body section of the Do while activity, add an Writeline activity and type in text field as: x.ToString.

Step 7: In the condition section, set the condition x>5.



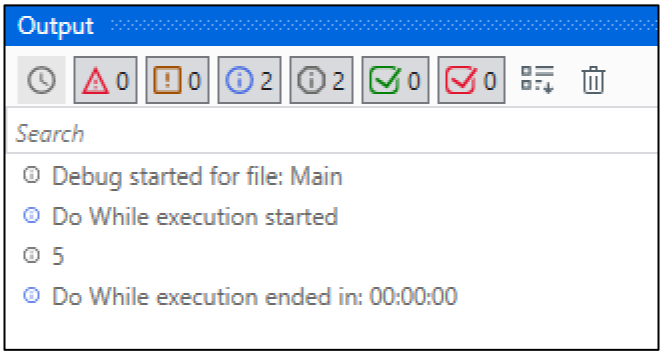
Save to: x = Value to save: 5

Text: x.ToString

Condition *: x>5

Step 8: Run

Output:



```
Debug started for file: Main
Do While execution started
5
Do While execution ended in: 00:00:00
```

iii. For each:

Steps: -

Step 1: Open UiPath Studio. Start a Blank Process and give a name to it.

Step 2: Add a Flowchart activity in the workflow.

Step 3: Next, add a For each activity inside the flowchart.

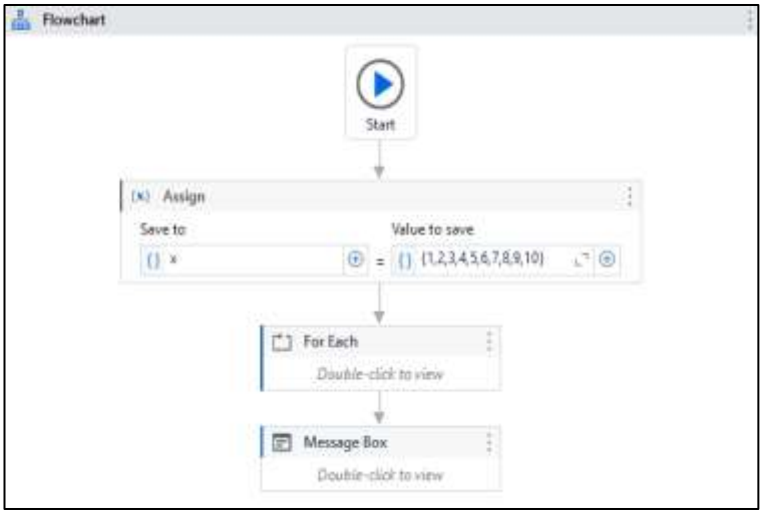
Step 4: Create two variables; an integer variable named item, and an array integer variable named x. Then, set them to the text field.

Step 5: Now, assign a default value to the integer variable x.

Step 6: Under the For Each activity, add a Write line activity.

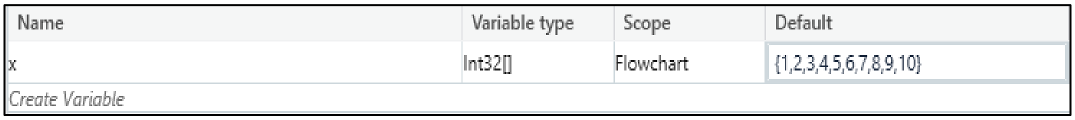
Step 7: In the Write line activity, type item.ToString in the text field.

Step 8: Run.

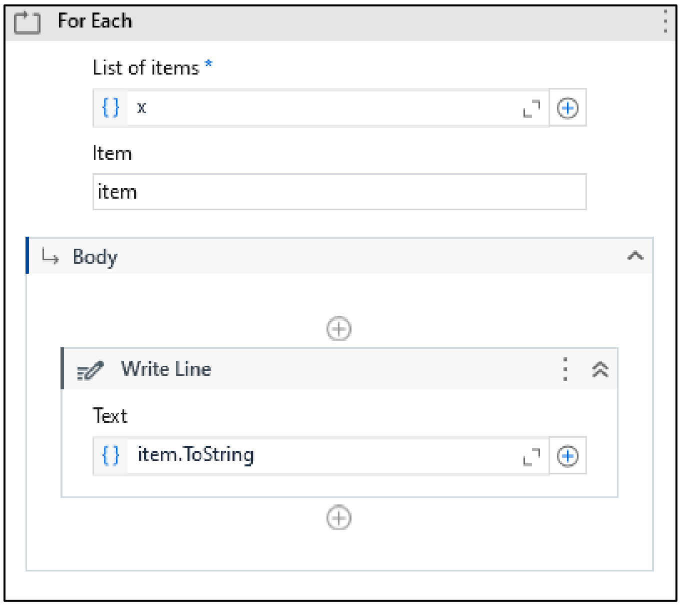


Assign

Save to: x = Value to save: {1,2,3,4,5,6,7,8,9,10}



Name	Variable type	Scope	Default
x	Int32[]	Flowchart	{1,2,3,4,5,6,7,8,9,10}
Create Variable			



For Each

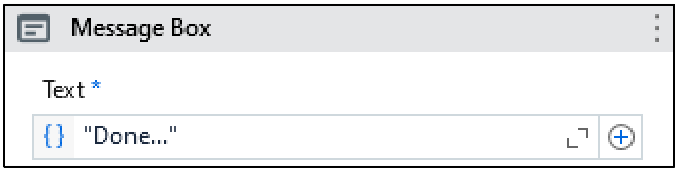
List of items *: x

Item: item

Body

Write Line

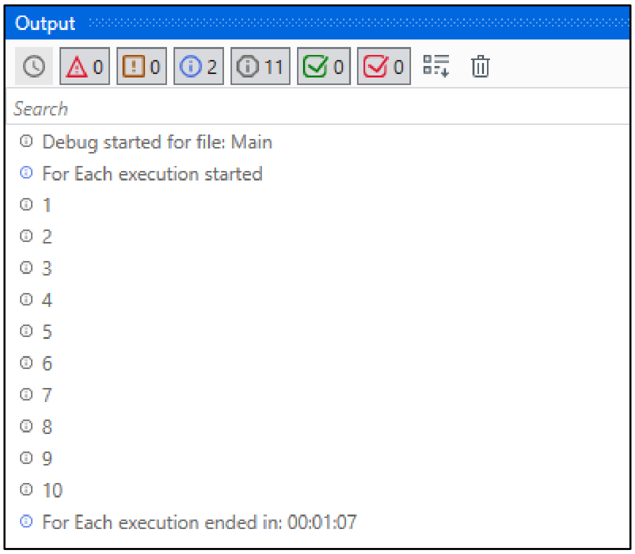
Text: item.ToString



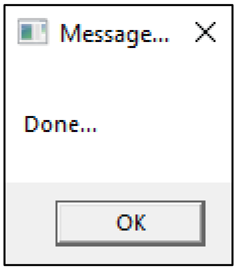
Message Box

Text *: "Done..."

Output:



```
Debug started for file: Main
For Each execution started
1
2
3
4
5
6
7
8
9
10
For Each execution ended in: 00:01:07
```



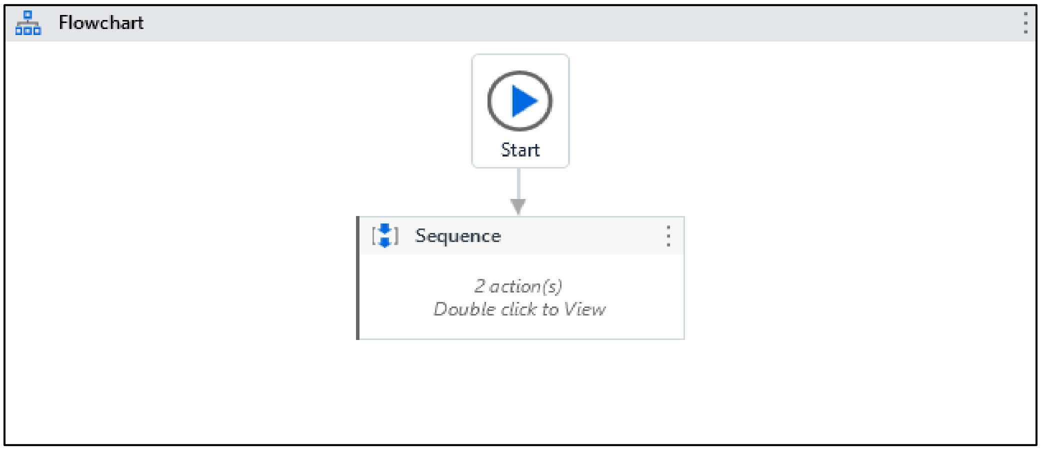
Done...

iv. Switch:

Steps: -

Step 1: Open UiPath Studio.Start a Blank Process and give a name to it.

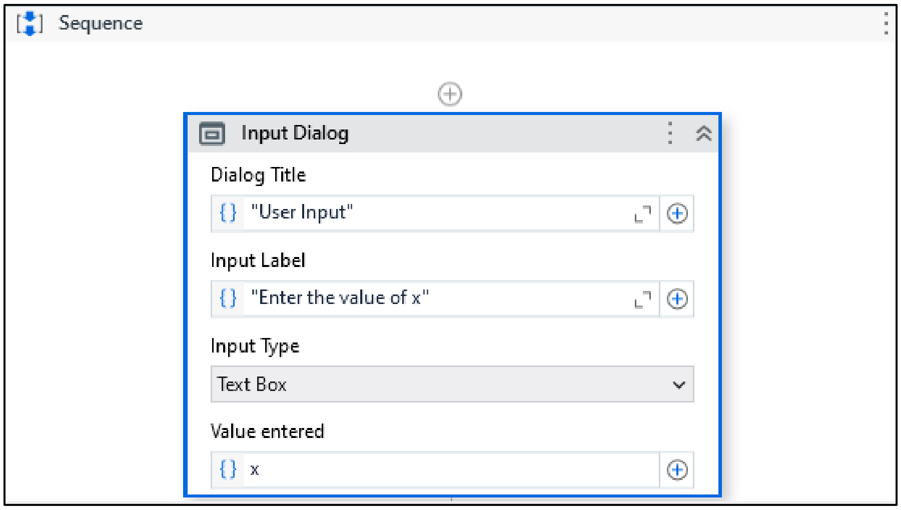
Step 2: Add flowchart and inside it add a Sequence activity.



Step 3: Add an Input dialog activity inside the Sequence. Create variable x of type int.

Step 4: Add the Switch activity under the Input dialog activity.

Step 5: In the Expression field, set x Mod 2 to check whether the number is divisible by 2 or not.

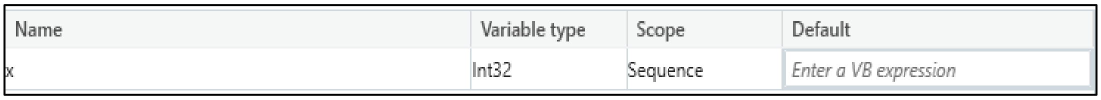


Dialog Title: "User Input"

Input Label: "Enter the value of x"

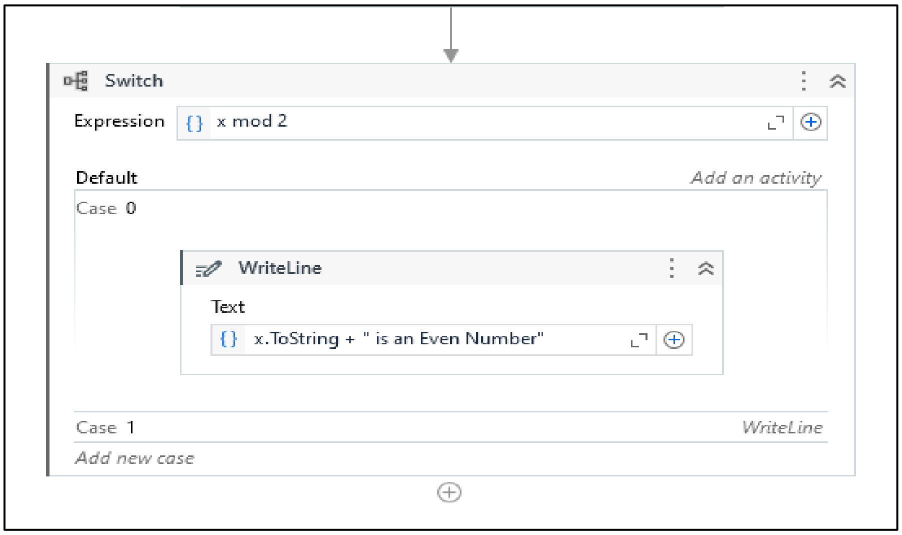
Input Type: Text Box

Value entered: x



Name	Variable type	Scope	Default
x	Int32	Sequence	Enter a VB expression

Step 6: Add a Write line activity to the Default section i.e. case 0 and type in the text field, x.Tostring + " is an even number.



Expression: x mod 2

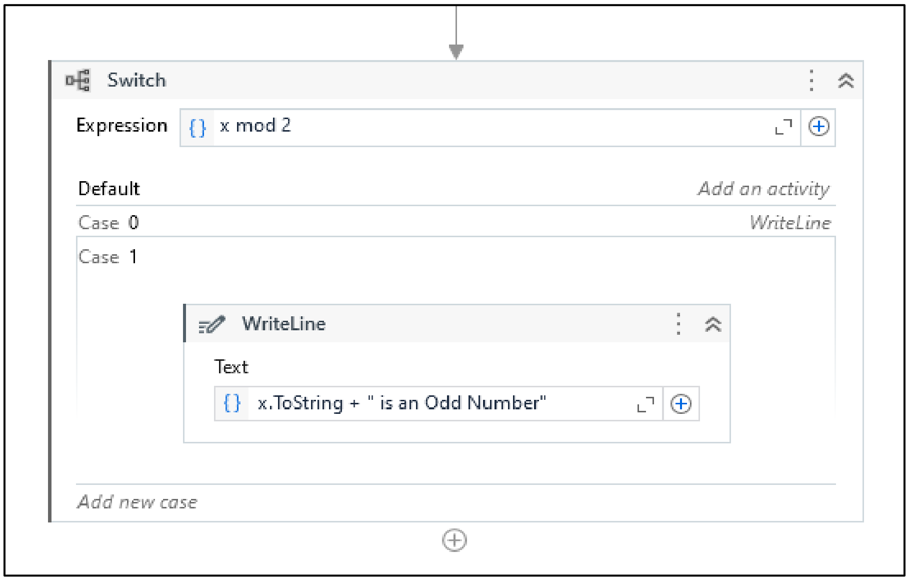
Default

Case 0

Text: x.ToString + " is an Even Number"

Case 1

Step 7: Now, create Case 1, add the one other Write line activity to it, and in the text field, x.Tostring + " is an odd number.



Expression {} x mod 2

Default

Case 0

Case 1

WriteLine

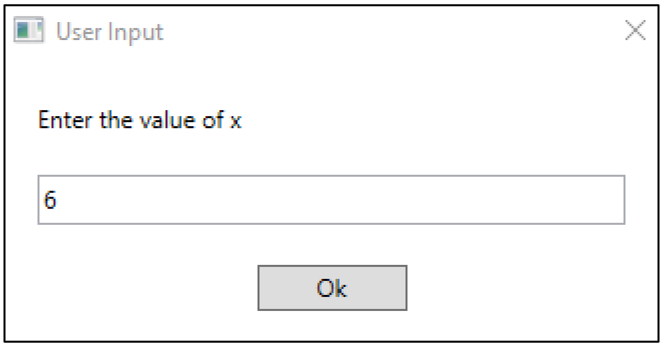
Text

{} x.ToString + " is an Odd Number"

Step 8: Run

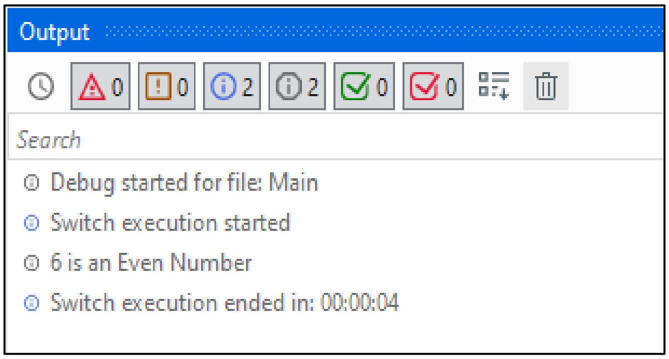
Output:

Checking the condition for an Even number:



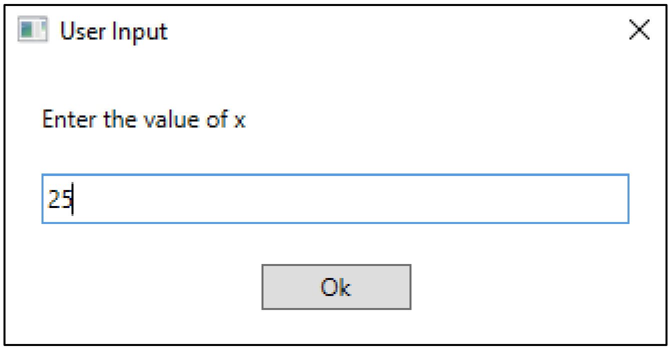
Enter the value of x

6



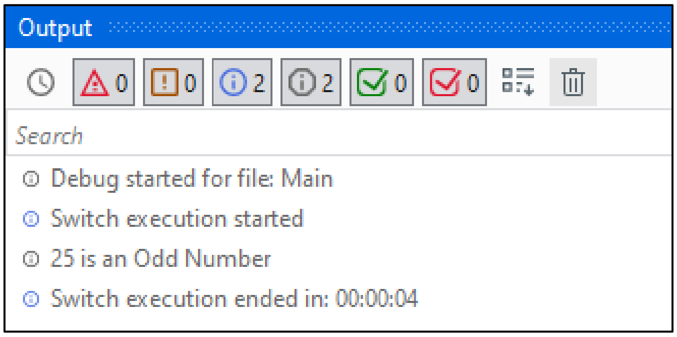
```
Debug started for file: Main
Switch execution started
6 is an Even Number
Switch execution ended in: 00:00:04
```

Checking the condition for an Odd number:



Enter the value of x

25



```
Debug started for file: Main
Switch execution started
25 is an Odd Number
Switch execution ended in: 00:00:04
```

Conclusion:

The practical to create an automation in UiPath project using decision statements was successfully executed.

PRACTICAL NO. 4

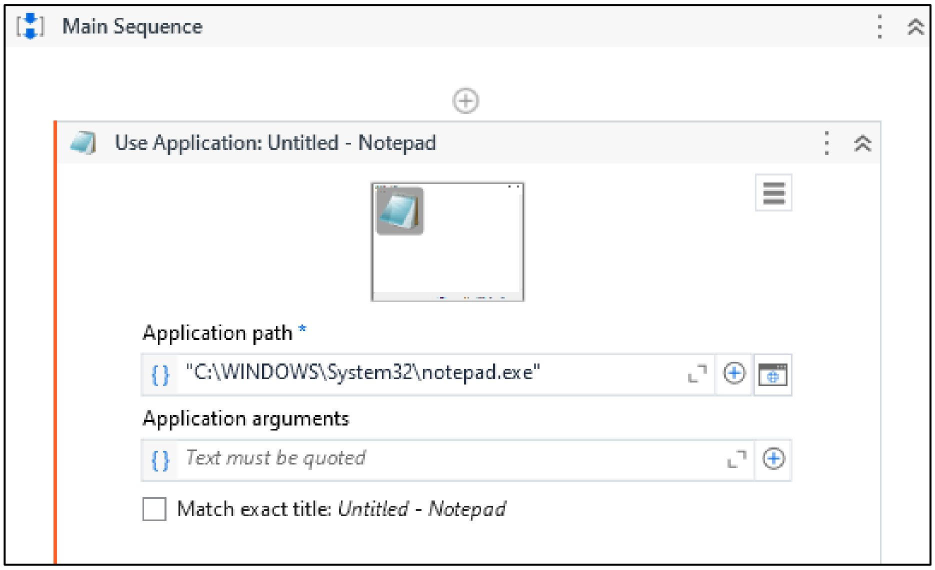
A. Aim: Automate any process using basic recording.

Steps: -

Step 1: Open UiPath Studio. Start a BlankProcess. Give it a name.

Step 2: Drag and drop a Flowchart activity. Now, click on the Recording icon and choose Basic recording. You can record your actions on the desktop on your own and then save it.

Step 3: Click on basic recorder.



Main Sequence

Use Application: Untitled - Notepad

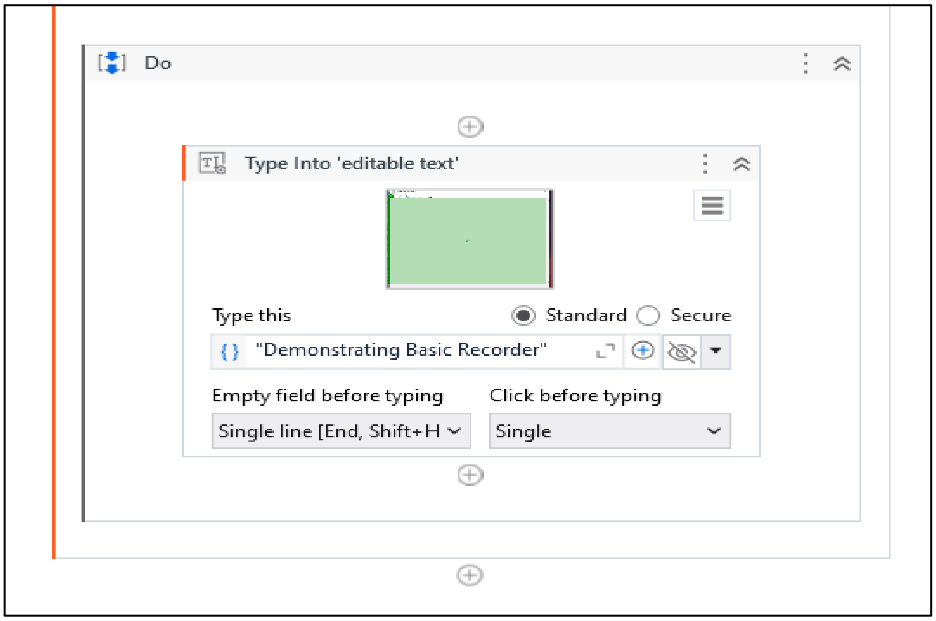
Application path *

"C:\WINDOWS\System32\notepad.exe"

Application arguments

Text must be quoted

□ Match exact title: *Untitled - Notepad*



Do

Type Into 'editable text'

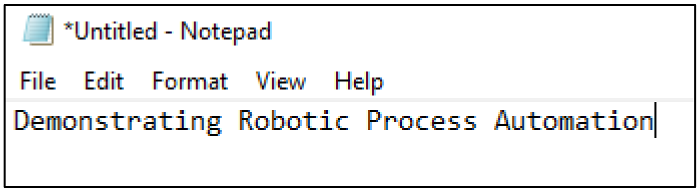
Type this ● Standard ○ Secure

"Demonstrating Basic Recorder"

Empty field before typing: Single line [End, Shift+H

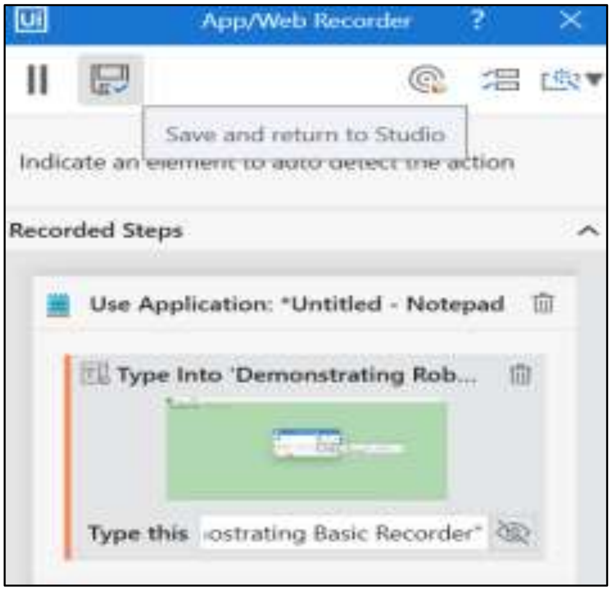
Click before typing: Single

Step 4: Next, type some text in the notepad.



```
Demonstrating Robotic Process Automation
```

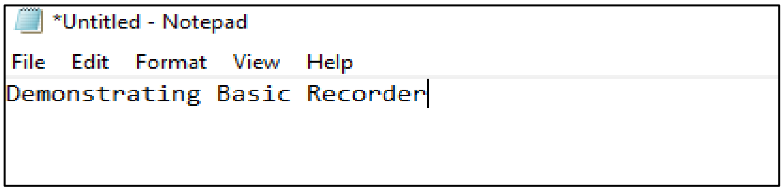
Step 5: Pressed the Esc key to exit the recording and click on the Save and Exit button.



App/Web Recorder
Save and return to Studio
Indicate an element to auto detect the action
Recorded Steps
Use Application: *Untitled - Notepad
Type Into 'Demonstrating Rob...
Type this
ıostrating Basic Recorder"

Step 6: Now, a recording sequence is generated in our Designer panel. Connect this sequence to the Start node.

Step 7: Run



```
Demonstrating Basic Recorder
```

Conclusion:

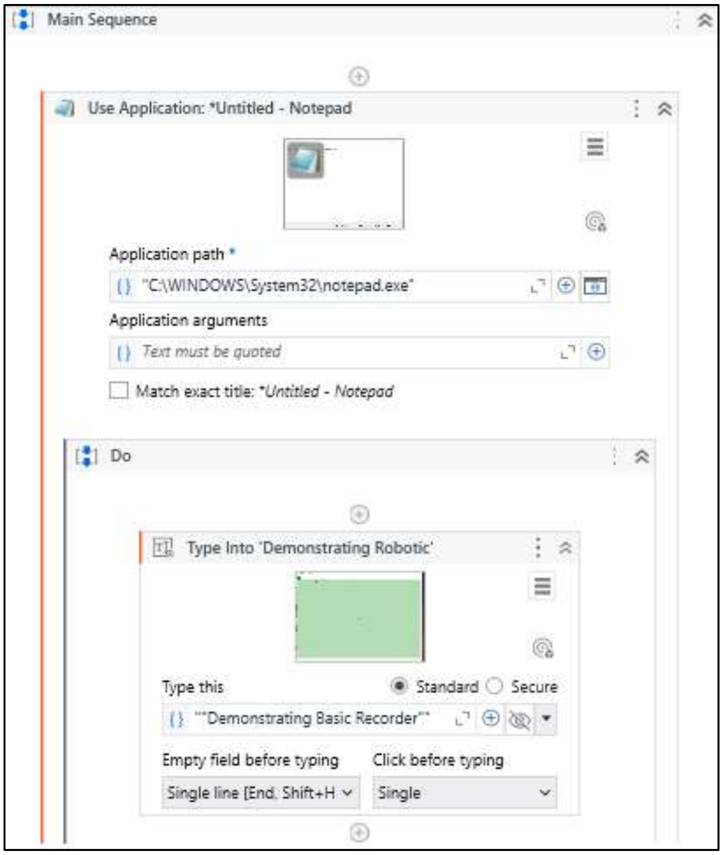
The practical to automate any process using basic recording was successfully executed.

B. Aim: Automate any process using desktop recording.

Steps: -

Step 1: Open UiPath Studio. Start a BlankProcess and give a name to it.

Step 2: Drag and drop a Flowchart activity. Now, click on the Recording icon and choose Desktop recording.


Main Sequence
Use Application: *Untitled - Notepad
Do
Type Into 'Demonstrating Robotic'

Application path * "C:\WINDOWS\System32\notepad.exe"

Application arguments Text must be quoted

□ Match exact title: *Untitled - Notepad

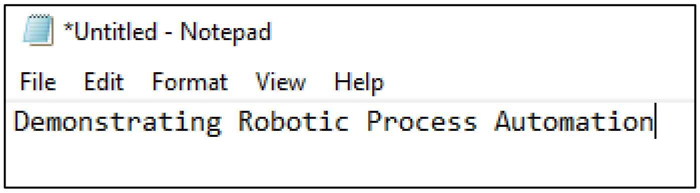
Type this ● Standard ○ Secure

""Demonstrating Basic Recorder""

Empty field before typing: Single line [End, Shift+H

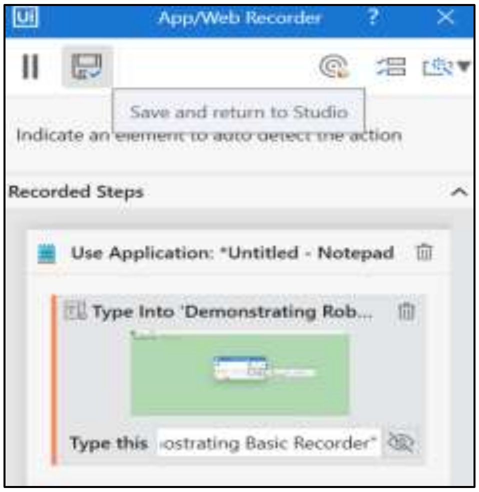
Click before typing: Single

Step 3: Next, type some text in the notepad.



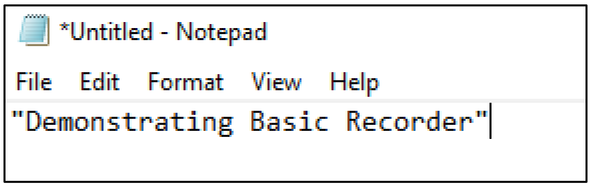
Demonstrating Robotic Process Automation

Step 4: Then, press the Esc key to exit the recording and clicked on the Save and Exit button.


App/Web Recorder
Save and return to Studio
Indicate an element to auto detect the action
Recorded Steps
Use Application: *Untitled - Notepad
Type Into 'Demonstrating Rob...
Type this
ostrating Basic Recorder"

Step 5: Now, a recording sequence is generated in our Designer panel. Connect this sequence to the Start node.

Step 6: Hit the Run button to see the result. In the following screenshot, you can see the sequence generated by the Basic recorder.



```
"Demonstrating Basic Recorder"
```

Conclusion:

The practical to automate any process using desktop recording was successfully executed.

C. Aim: Automate any process using web recording.

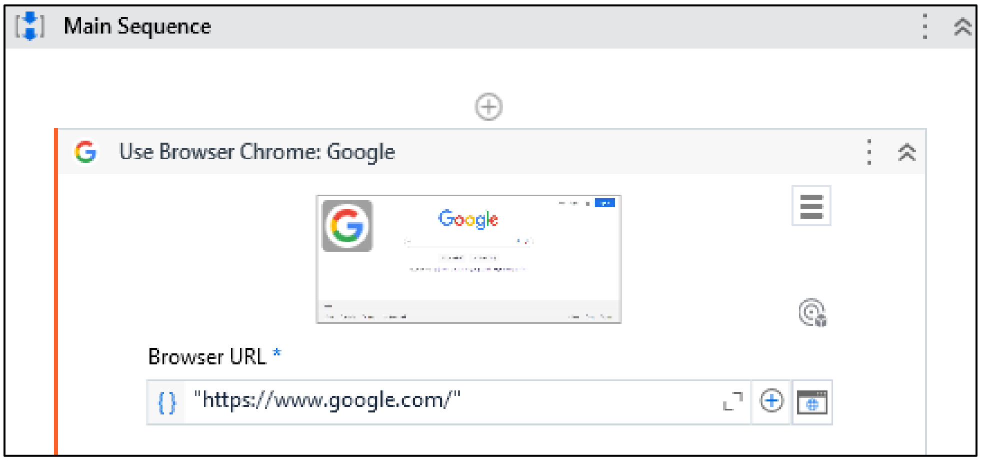
Steps: -

Step 1: Open UiPath Studio. Start a BlankProcess. Give the BlankProcess a name.

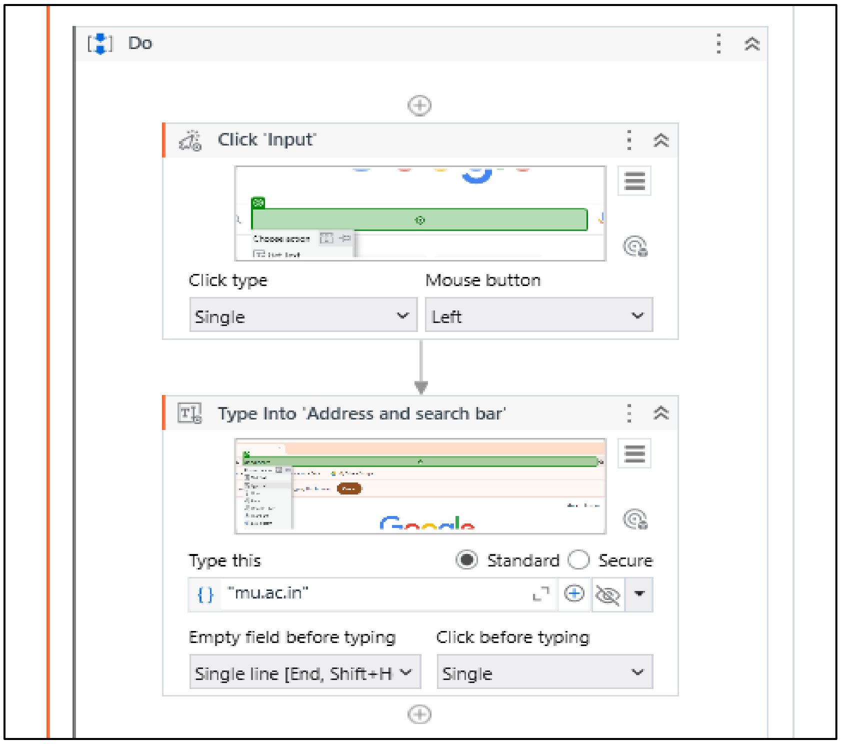
Step 2: Drag and drop a Flowchart activity.

Step 3: Then, start the recording by clicking on the Record button of the web recorder.

Step 4: Next, type some text in the search bar of Google and performed the Click activity.



Browser URL * "https://www.google.com/"

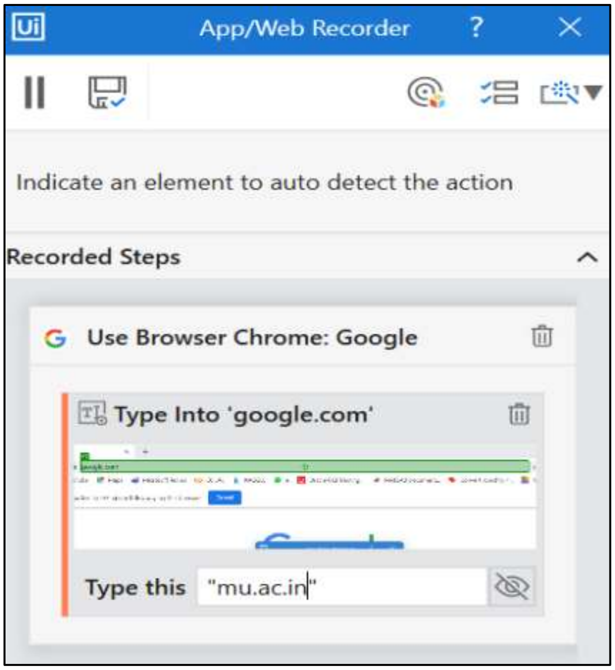


Click type: Single
Mouse button: Left

Type this: ● Standard ○ Secure
"mu.ac.in"

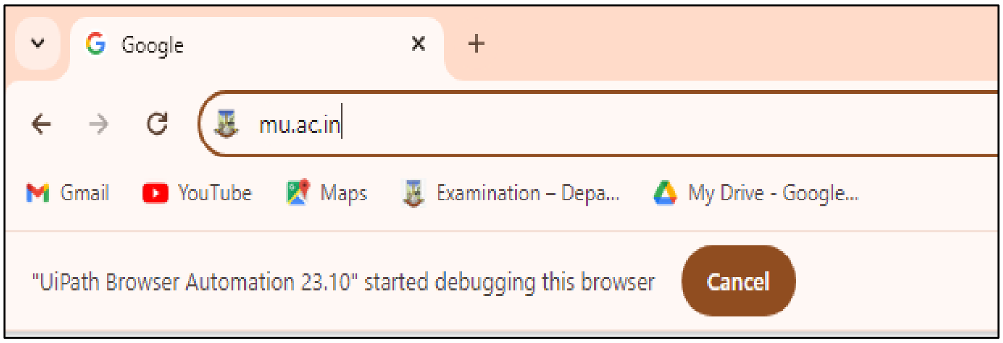
Empty field before typing: Single line [End, Shift+H
Click before typing: Single

Step 5: Then, we pressed the Esc key to exit the recording and clicked on the Save and Exit button.



Step 6: Now, a recording sequence is generated in our Designer panel. Connect this sequence to the Start node.

Step 7: Hit the Run button to see the result. In the following screenshot, you can see the sequence generated by the Web recorder.



"UiPath Browser Automation 23.10" started debugging this browser

Conclusion:

The practical to automate any process using web recording was successfully executed.

PRACTICAL NO. 5

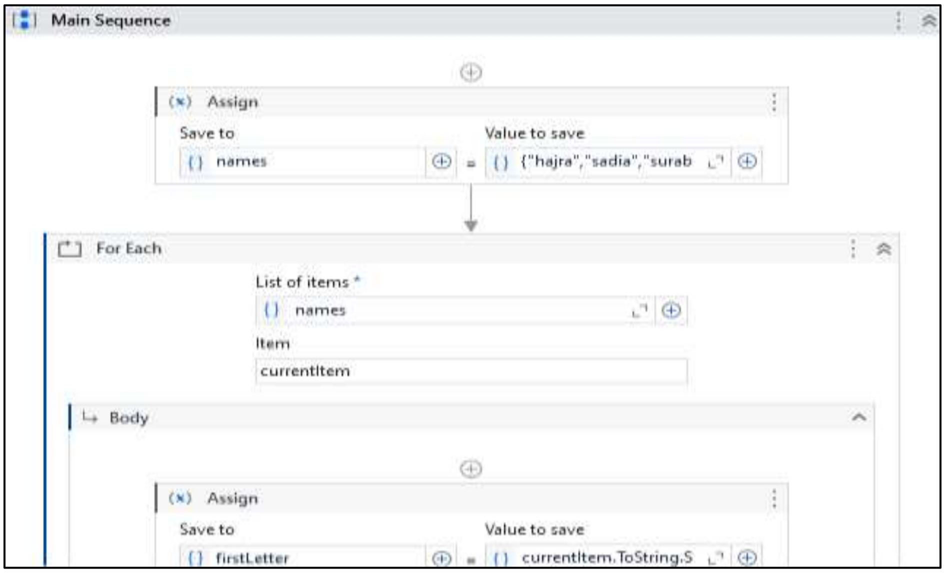
A. Aim: Consider an array of names. We have to find out how many of them start with the letter “a”. Create an automation where the number of names starting with “a” is counted and the result is displayed.

Steps: -

Step 1: Open UiPath Studio. Start a BlankProcess and give a name to it.

Step 2: Drag and Drop Sequence Activity from the Activity Panel.

Step 3: Add an Assign Activity from the Activities panel and assign a variable names with Array of String Type and assign name = {“hajra”,”sadia”,”surabhi”,”ahmad”,”abuzar”,”arif”,”aamna”} .



Main Sequence

Assign

Save to: names = Value to save: {"hajra","sadia","surab

For Each

List of items *: names

Item: currentItem

Body

Assign

Save to: firstLetter = Value to save: currentItem.ToString.S

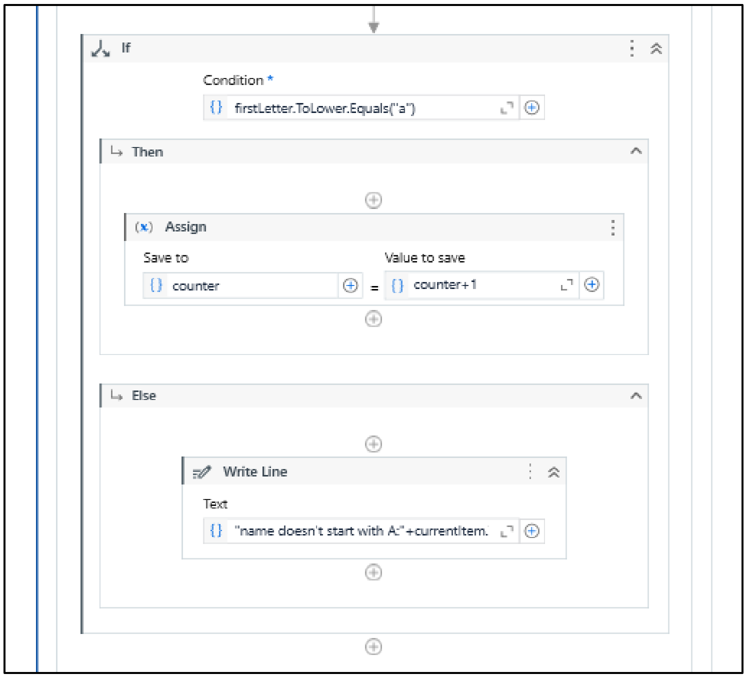
Step 4: Now take a For Each Activity. Assign the default variable “currentitem” as name. For the body part drag and drop If Activity.

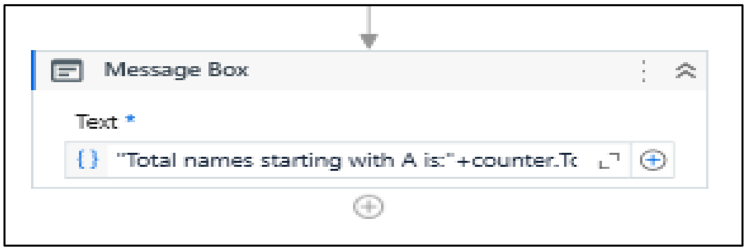
Step 5: Set the condition for If Activity as firstLetter.ToLower.Equals(“a”) and assign a variable name as a firstLetter.

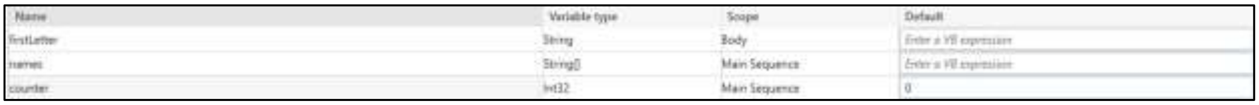
Step 6: In the then part of If Activity drag and drop an Assign Activity and set it as counter = counter+1 and assign a variable name as a counter.

Step 7: In the Else part of If Activity drag and drop Writeline Activity and set it as “name doesn’t start with A:” +currentItem.ToString.

Step 8: Now take Message Box Activity under Sequence Activity and in text field type “Total names starting with A is:”+counter.ToString.



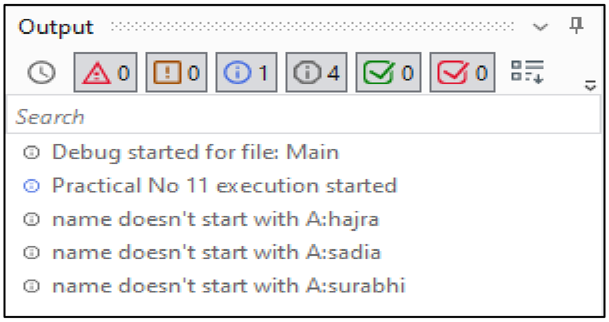




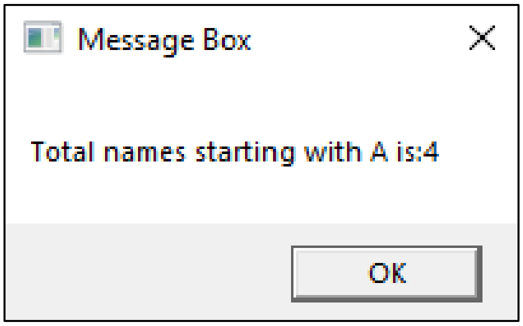
Name	Variable type	Scope	Default
firstLetter	String	Body	Enter a VB expression
names	String[]	Main Sequence	Enter a VB expression
counter	Int32	Main Sequence	0

Step 9: Run.

Output:



```
Debug started for file: Main
Practical No 11 execution started
name doesn't start with A:hajra
name doesn't start with A:sadia
name doesn't start with A:surabhi
```



Total names starting with A is:4

Conclusion:

The practical to create an automation where the number of names starting with “a” is counted and the result is displayed successfully.

PRACTICAL NO. 6

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

- **Read Cell**

Steps: -

Step 1: Drag and drop the Sequence Activity.

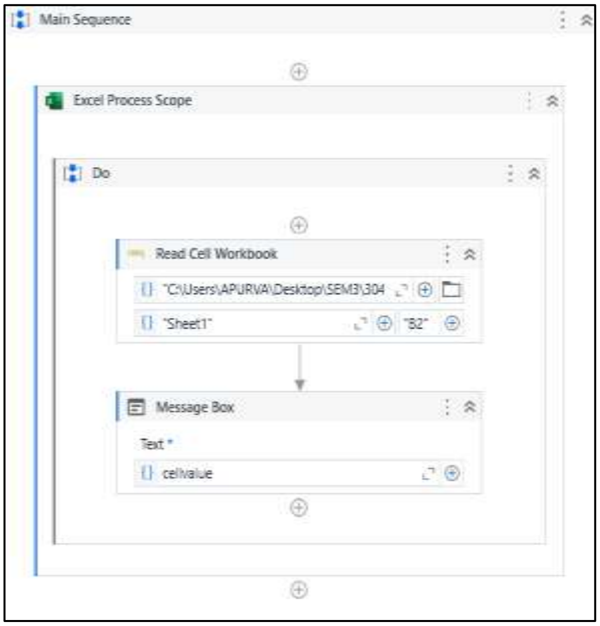
Step 2: Drag and drop Excel Process Scope Activity in the Sequence Activity.

Step 3: In Excel Process Scope drag and drop the Read Cell Workbook Activity.

Step 4: Create an excel file with some data and save it. Give a desired path of excel file in the Read Cell Workbook. Also give the "sheet name" (Sheet1) and assign the cell you want to read("b2"). Create a variable cellvalue by pressing ctrl+k. In the output filed of Rad cell Activity write created variable: cellvalue

Step 5: Add Message Box Activity and connect it to Read Cell Workbook. In the Text field, type variable "cellvalue" created in Step 5.

Step 6: Run.



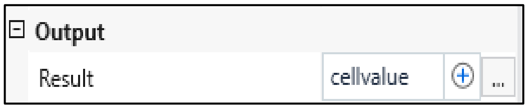
"C:\Users\APURVA\Desktop\SEM3\304

"Sheet1"

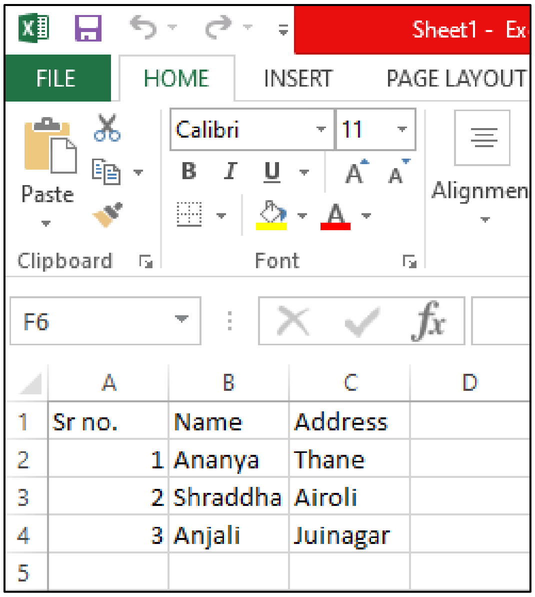
"B2"

Text *

cellvalue

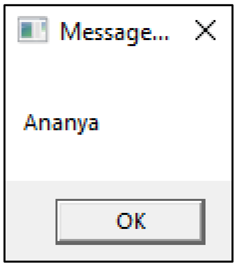


Result cellvalue



	A	B	C	D
1	Sr no.	Name	Address	
2	1	Ananya	Thane	
3	2	Shraddha	Airoli	
4	3	Anjali	Juinagar	
5				

Output:



Ananya

- **Write Cell**

Steps: -

Step 1: Drag and drop the Sequence Activity from the Activity Panel.

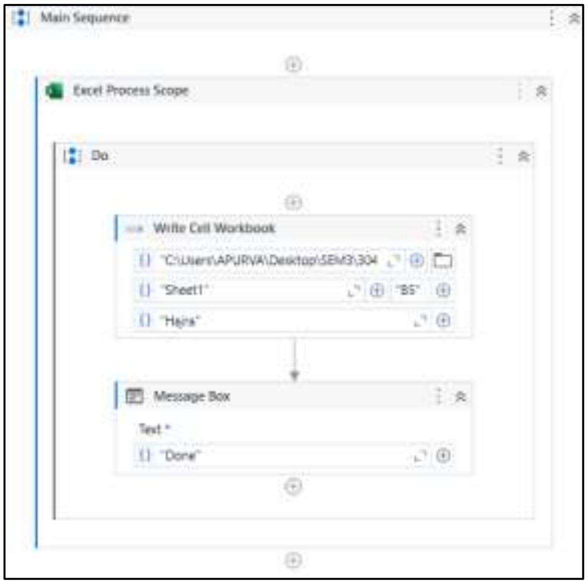
Step 2: Drag and drop Excel Process Scope Activity in the Sequence Activity.

Step 3: In Excel Process Scope drag and drop the Write Cell Workbook Activity.

Step 4: Give a desired path of already existing excel file in the Write Cell Workbook. Also give the “sheet name” (Sheet1) and assign the cell you want to write(“b5”). Type anything you want in quotes for text field.

Step 5: Add Message Box Activity and connect it to Write Cell Workbook. Write ”done”

Step 6: Run.


Main Sequence

Excel Process Scope

Do

Write Cell Workbook

"C:\Users\APURVA\Desktop\SEM3\304

"Sheet1" "B5"

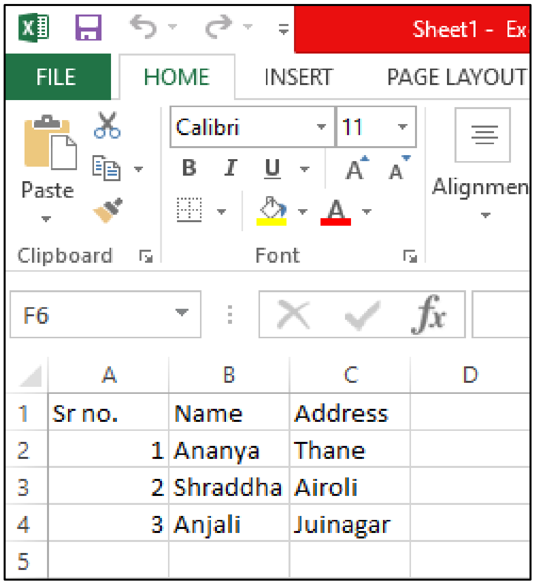
"Hajra"

Message Box

Text *

"Done"

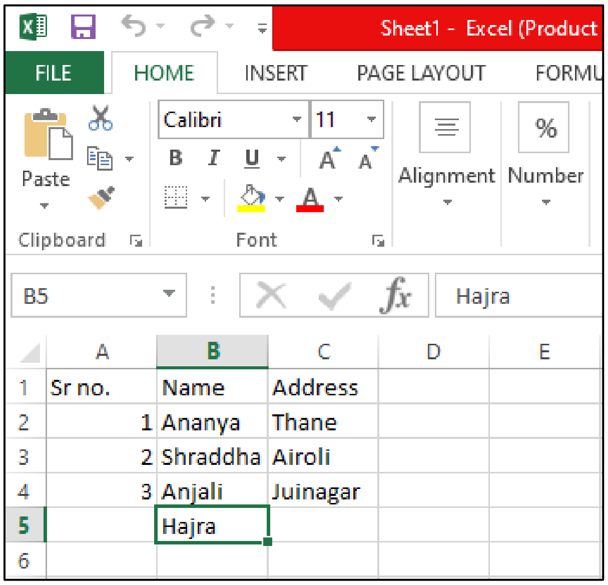
Existing workbook:



F6

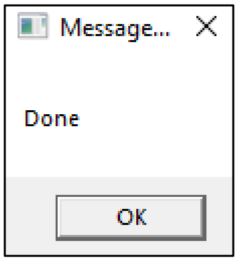
	A	B	C	D
1	Sr no.	Name	Address	
2	1	Ananya	Thane	
3	2	Shraddha	Airoli	
4	3	Anjali	Juinagar	
5				

Output:



B5 Hajra

	A	B	C	D	E
1	Sr no.	Name	Address		
2	1	Ananya	Thane		
3	2	Shraddha	Airoli		
4	3	Anjali	Juinagar		
5		Hajra			
6					



Done

- **Read Range**

Steps: -

Step 1: Drag and drop the Sequence Activity from the Activity Panel.

Step 2: Drag and drop Excel Process Scope Activity in the Sequence Activity.

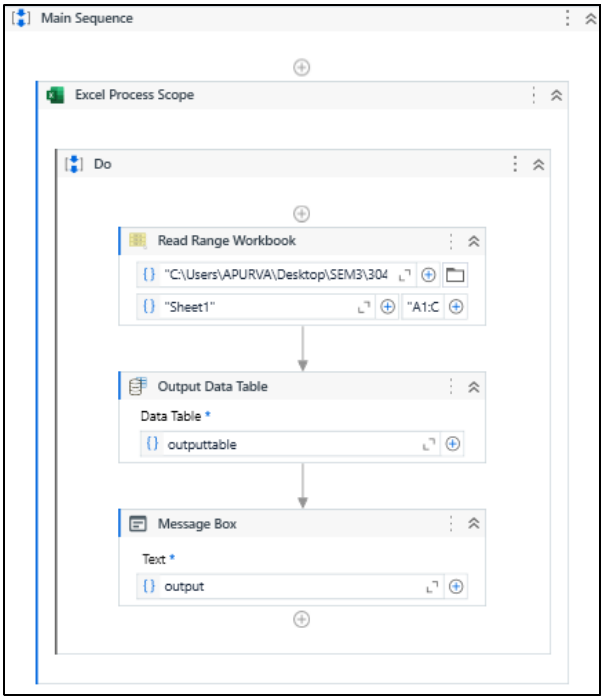
Step 3: In Excel Process Scope drag and drop the Read Range Workbook Activity.

Step 4: Create an excel file with some data and save it. Give a desired path of excel file in the Read Range Workbook. Also give the “sheet name” (Sheet1) and assign the cell you want to read (“A1:C4”). Create a variable outputtable by pressing ctrl+k.

Step 5: Add Output Data Table Activity under Read Range Workbook Activity. Set output of Read range activity-outputtable. Create a variable “output” of string type and set its input to outputtable and output to “output”

Step 6: Add Message Box Activity and connect it to Read Range Workbook. In the Text field, type variable “output”

Step 7: Run.



Main Sequence

Excel Process Scope

Do

Read Range Workbook

"C:\Users\APURVA\Desktop\SEM3\304

"Sheet1" "A1:C

Output Data Table

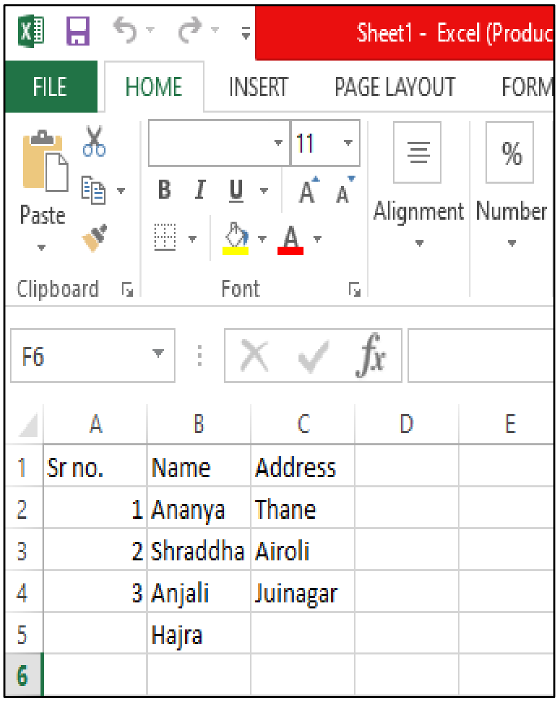
Data Table *

outputtable

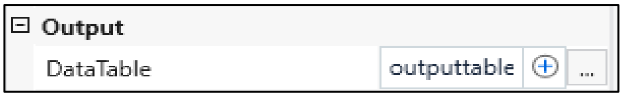
Message Box

Text *

output

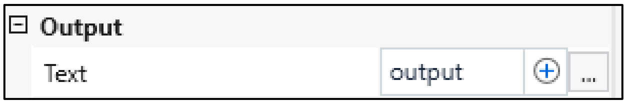


	A	B	C	D	E
1	Sr no.	Name	Address		
2	1	Ananya	Thane		
3	2	Shraddha	Airoli		
4	3	Anjali	Juinagar		
5		Hajra			
6					



Output

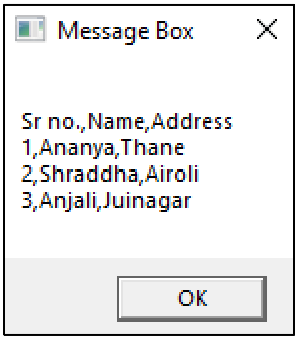
DataTable outputtable



Output

Text output

Output:



```
Sr no.,Name,Address
1,Ananya,Thane
2,Shraddha,Airoli
3,Anjali,Juinagar
```

- **Write Range**

Steps: -

Step 1: Drag and drop the Sequence Activity from the Activity Panel.

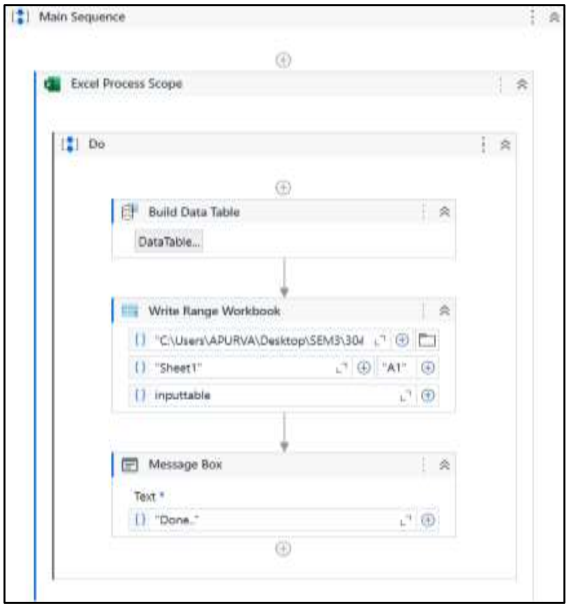
Step 2: Now drag and drop the Build Data Table. Create three columns Roll No, Name and Location. Create a variable inputtable by pressing ctr+k.

Step 3: Take Write Range Workbook Activity under Build Data Table.

Step 4: Create an empty excel file with and save it. Give a desired path of excel file in the Write Range Workbook. Also give the “sheet name” (Sheet1) and assign the cell you want to write from(“A1”). Type the created variable inputtable in the text.

Step 5: Add Message Box Activity and connect it to Write Range Workbook. In the Text field, type “Done”.

Step 6: Run.



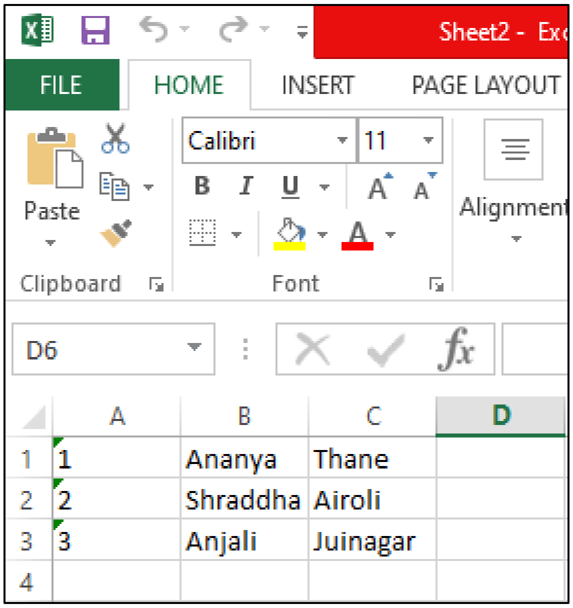
"C:\Users\APURVA\Desktop\SEM3\30(

"Sheet1" "A1"

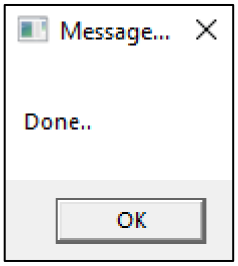
inputtable

"Done."

Output:



	A	B	C	D
1	1	Ananya	Thane	
2	2	Shraddha	Airoli	
3	3	Anjali	Juinagar	
4				



Done..

- **Append Range**

Steps: -

Step 1: Drag and drop the Sequence Activity from the Activity Panel.

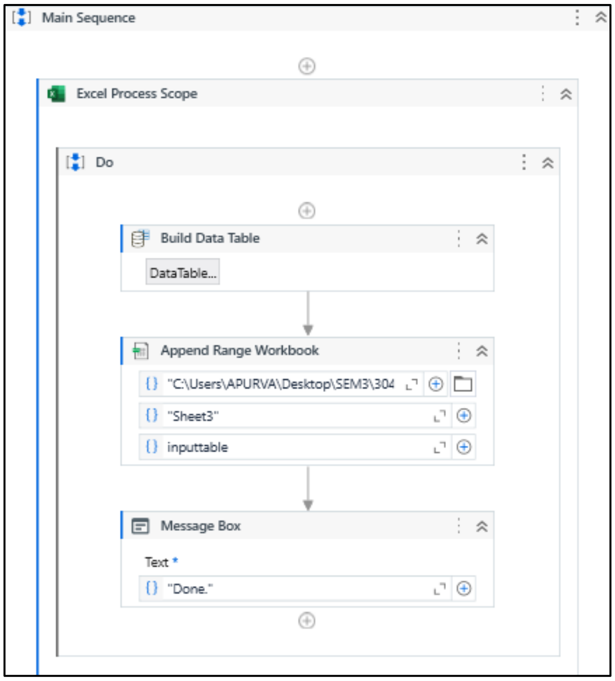
Step 2: Now drag and drop the Build Data Table. Create three columns Roll No, Name and Location. Create a variable inputtable by pressing ctrl+k.

Step 3: Take Append Range Workbook Activity under Build Data Table.

Step 4: Create an excel file with some data and save it. Give a desired path of excel file in the Append Range Workbook. Also give the “sheet name” (Sheet1). Type the created variable inputtable in the text field.

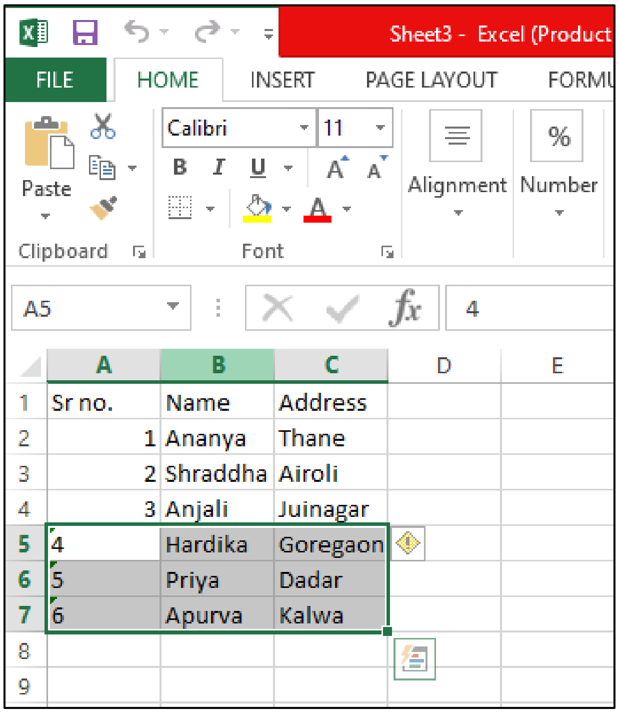
Step 5: Add Message Box Activity and connect it to Write Range Workbook. In the Text field, type “Done”

Step 6: Run.



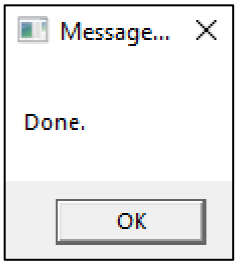
- Main Sequence
  - Excel Process Scope
    - Do
      - Build Data Table: DataTable...
      - Append Range Workbook: "C:\Users\APURVA\Desktop\SEM3\304 | "Sheet3" | inputtable
      - Message Box: Text * "Done."

Output:



A5 | 4

	A	B	C	D	E
1	Sr no.	Name	Address		
2	1	Ananya	Thane		
3	2	Shraddha	Airoli		
4	3	Anjali	Juinagar		
5	4	Hardika	Goregaon		
6	5	Priya	Dadar		
7	6	Apurva	Kalwa		
8					
9					



Done.

Conclusion:

The practical to automate read, write and append operation on excel file was successfully executed.

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

Steps: -

Step 1: Open UiPath Studio. Start a BlankProcess. Give the BlankProcess a name.

Step 2: Drag and drop the Sequence Activity from the Activity Panel.

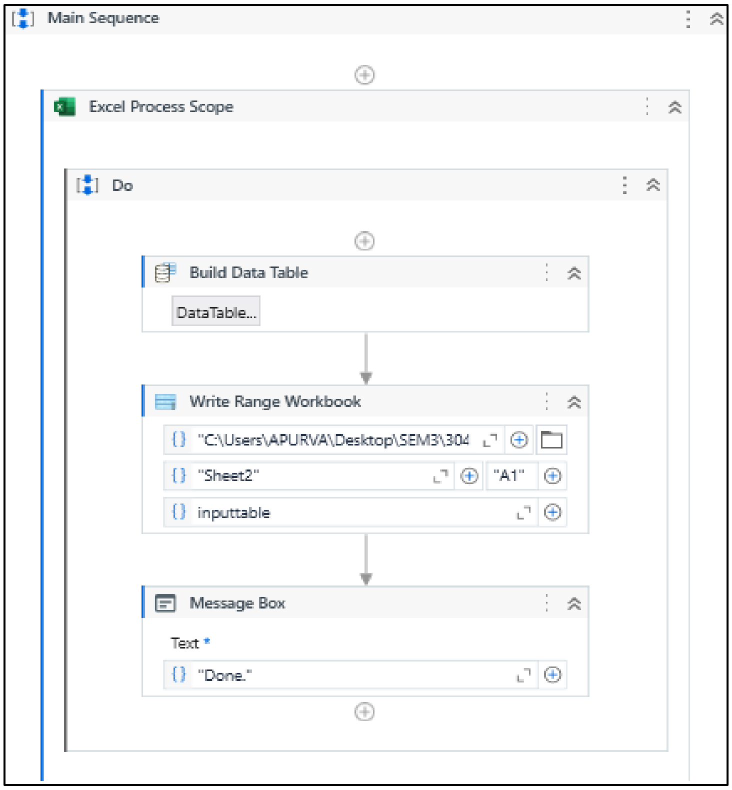
Step 3: Now drag and drop the Build Data Table. Create three columns Roll No, Name and Location. Create a variable inputtable by pressing ctrl+k.

Step 4: Take Write Range Workbook Activity under Build Data Table.

Step 5: Create an empty excel file with and save it. Give a desired path of excel file in the Write Range Workbook. Also give the “sheet name” (Sheet2) and assign the cell you want to write from(“A1”). Type the created variable inputtable in the text field.

Step 6: Add Message Box Activity and connect it to Write Range Workbook. In the Text field, type “Done”.

Step 7: Run.



"C:\Users\APURVA\Desktop\SEM3\304

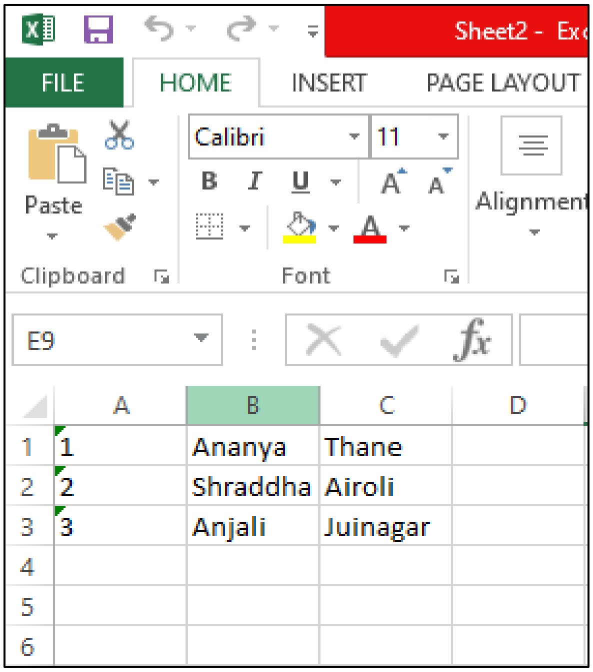
"Sheet2" "A1"

inputtable

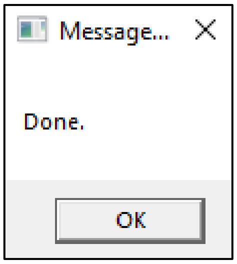
Text *

"Done."

Output:



	A	B	C	D
1	1	Ananya	Thane	
2	2	Shraddha	Airoli	
3	3	Anjali	Juinagar	
4				
5				
6				



Done.

Conclusion:

The practical to automate the process to extract data from an excel file into a data table and vice versa was successfully executed.

PRACTICAL NO. 7

A. Aim: Implement the attach window activity.

Table Extraction:

Steps: -

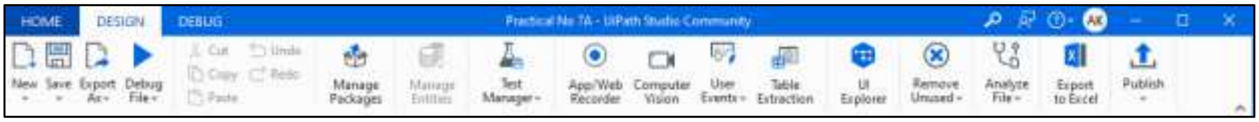
Step 1: Open UiPath Studio.

Step 2: Start a BlankProcess. Give the BlankProcess a name.

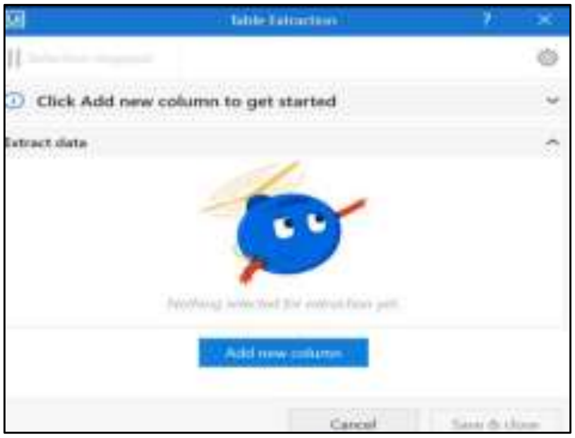
Step 3: Drag and drop the Sequence Activity from the Activity Panel.

Step 4: Now drag and drop the Use Application/Browser. Indicate the screen where you want to extract data(Google Chrome -> https://www.w3schools.com/html/html_tables.asp).

Step 5: In Ribbon Panel go to the Design and click on Table Extraction. Add Table Extraction in Do part of Use Application/Browser.



Step 6: Open the website where you want to extract data. Click on Add new Column then click on Extract data.



Click Add new column to get started

Nothing selected for extraction yet.

Step 7: It will display all the data as shown in the image below.

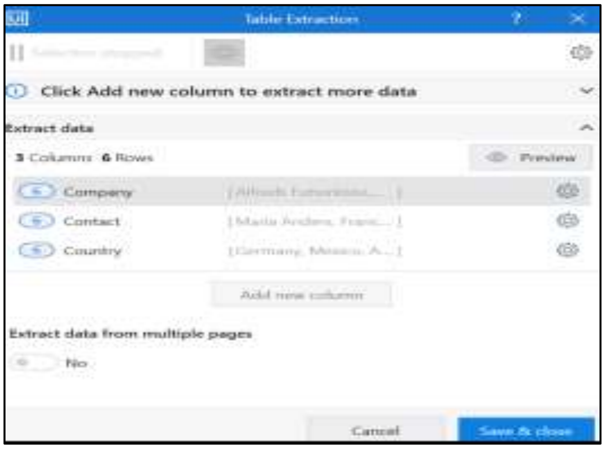


Table Extraction

Selection stopped

Click Add new column to extract more data

Extract data

3 Columns 6 Rows

Preview

Company [Alfreds Futterkiste, ...]

Contact [Maria Anders, Franc...]

Country [Germany, Mexico, A...]

Add new column

Extract data from multiple pages

No

Cancel

Save & close

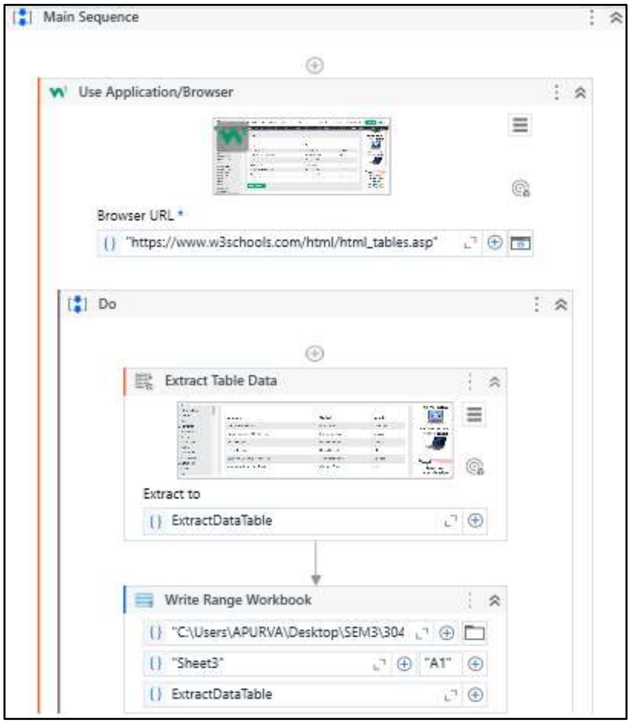
Step 7: Next click on Save and Close. If you wish to extract multiple pages then press the on button for Extract data for Multiple pages

Step 8: A default variable of Sytem.Datatable "ExtractData Table" is created, set its scope from Sequence.

Step 9: Take Write Range Workbook Activity.

Step 10: Create an empty excel file with and save it. Give a desired path of excel file in the Write Range Workbook. Also give the "sheet name" (Sheet3) and assign the cell you want to write from("A1"). Type the created variable ExtractData Table in the text field.

Step 11: Run.



Main Sequence

Use Application/Browser

Browser URL *

"https://www.w3schools.com/html/html_tables.asp"

Do

Extract Table Data

Extract to

ExtractDataTable

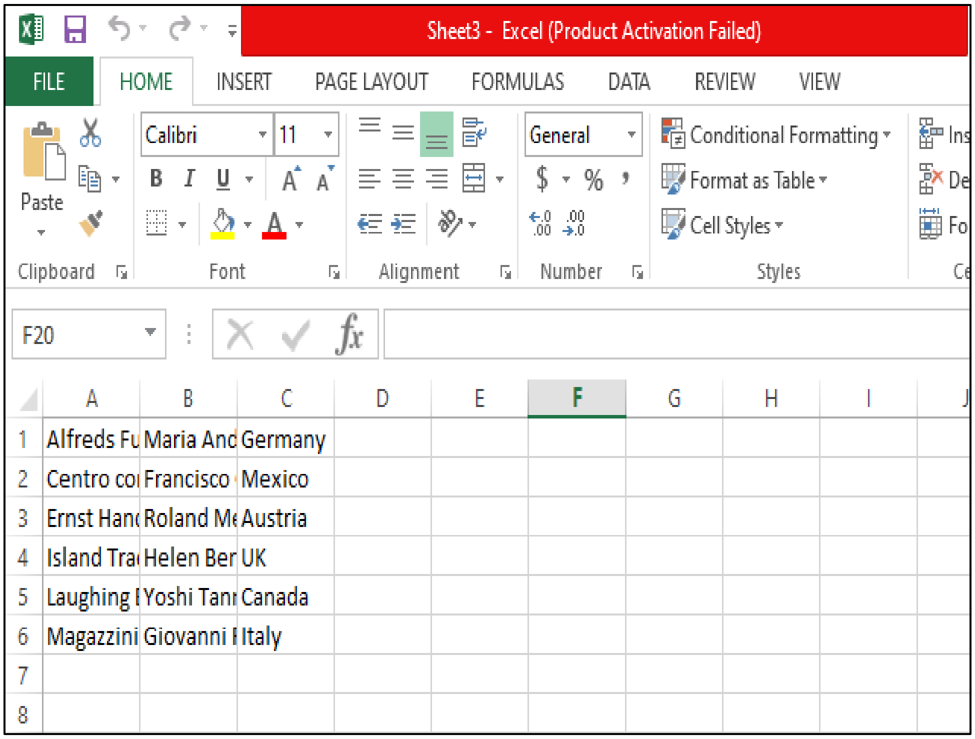
Write Range Workbook

"C:\Users\APURVA\Desktop\SEM3\304

"Sheet3" "A1"

ExtractDataTable

Output:



	A	B	C	D	E	F	G	H	I
1	Alfreds Fu	Maria And	Germany						
2	Centro co	Francisco	Mexico						
3	Ernst Han	Roland M	Austria						
4	Island Tra	Helen Ber	UK						
5	Laughing	Yoshi Tan	Canada						
6	Magazzini	Giovanni	Italy						
7									
8									

Conclusion:

The practical to implement attach window was successfully executed.

B. Aim: Find different controls using UiPath.

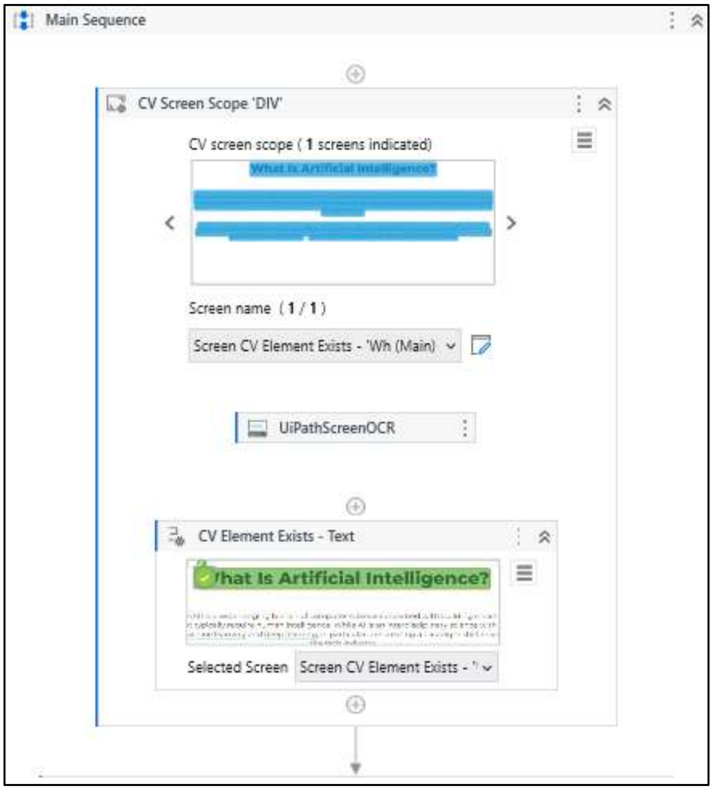
1. Element Exists:

Steps: -

Step 1: Drag and drop sequence activity in the workflow.

Step 2: Drag and drop “CV Screen Scope” Activity. Indicate the screen.

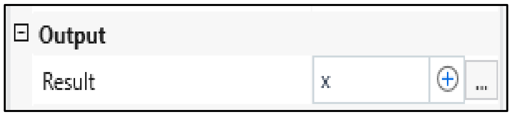
Step 3: Drag and drop “CV Element Exists” Activity. Indicate the Element. Create and set an output variable to store the Boolean Value Output.


Main Sequence
CV Screen Scope 'DIV'
CV screen scope (1 screens indicated)
What is Artificial Intelligence?
UiPathScreenOCR
CV Element Exists - Text
What Is Artificial Intelligence?

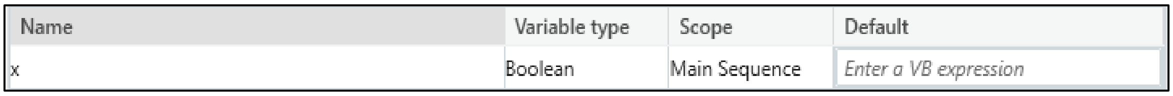
Screen name (1 / 1)

Screen CV Element Exists - 'Wh (Main)

Selected Screen: Screen CV Element Exists - '



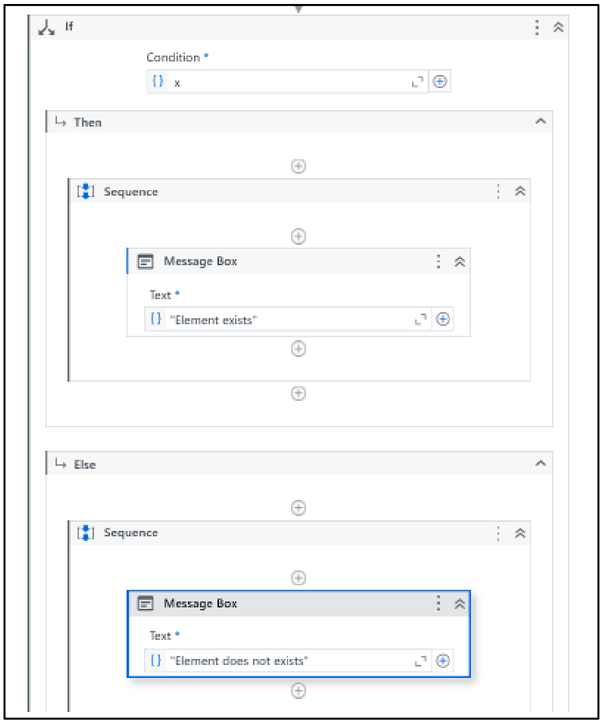
Result: x



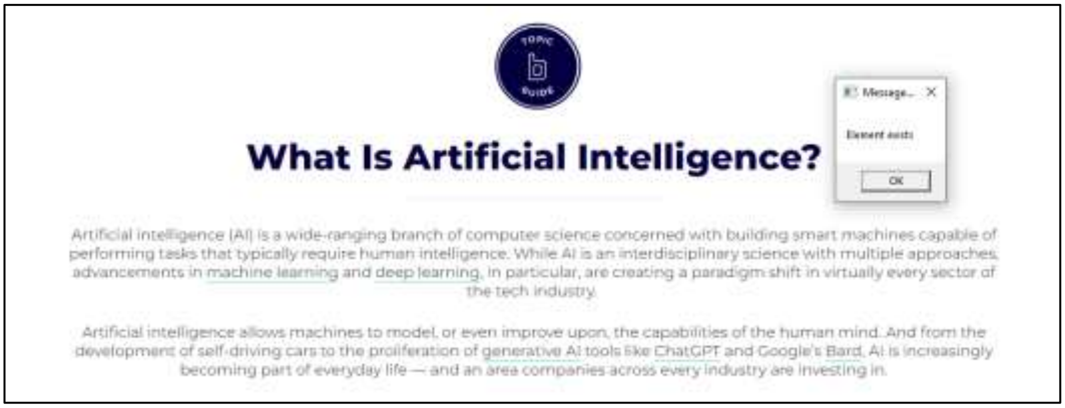
Name	Variable type	Scope	Default
x	Boolean	Main Sequence	Enter a VB expression

Step 4: drag and drop If activity and set its condition.

Step 5: Add two Message Box: one in Then part and another in Else Part to check whether element is exists or not. And Run.



Output:



What Is Artificial Intelligence?

Artificial intelligence (AI) is a wide-ranging branch of computer science concerned with building smart machines capable of performing tasks that typically require human intelligence. While AI is an interdisciplinary science with multiple approaches, advancements in machine learning and deep learning, in particular, are creating a paradigm shift in virtually every sector of the tech industry.

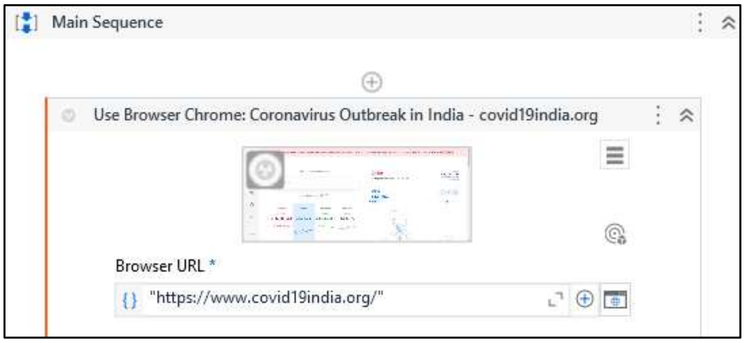
Artificial intelligence allows machines to model, or even improve upon, the capabilities of the human mind. And from the development of self-driving cars to the proliferation of generative AI tools like ChatGPT and Google's Bard, AI is increasingly becoming part of everyday life — and an area companies across every industry are investing in.

2. Find Element:

Steps: -

Step 1: Drag and drop “Sequence” in the Activities panel and then drag and drop it onto the Designer Panel.

Step 2: Drag and drop “Use Application/ Browser” activity Indicate the screen you want to include in the workflow.



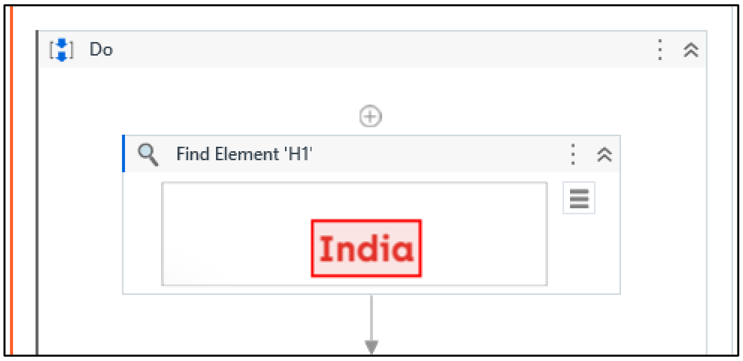
Main Sequence

Use Browser Chrome: Coronavirus Outbreak in India - covid19india.org

Browser URL *

"https://www.covid19india.org/"

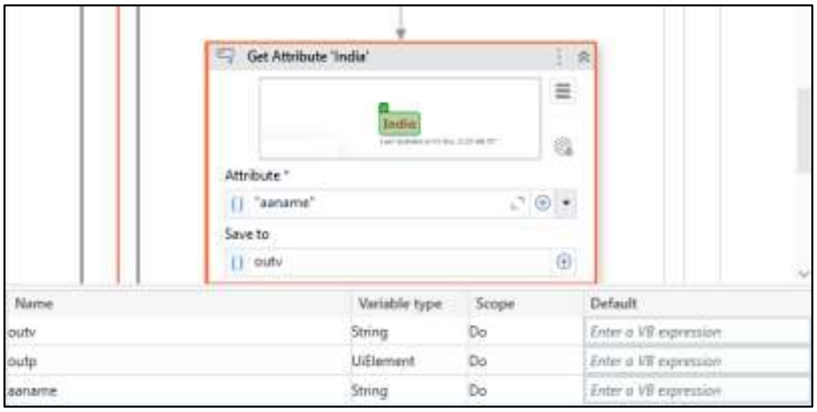
Step 3: Add “Find Element” Activity in the Activities Panel and drag it inside the sequence workflow. Indicate the Element you want to look for and Click on Save & Close. Create and set an output variable to store the Attribute Value Output.



Do

Find Element 'H1'

Step 4: Search for “Get Attribute” Activity in the Activities Panel and drag it inside the sequence workflow. Input element as the Find Element output, create and set an attribute value and and String output variable.



Get Attribute 'India'

Attribute *

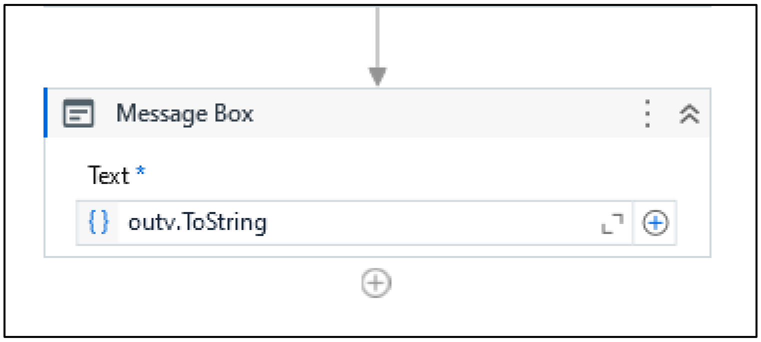
"aaname"

Save to

outv

Name	Variable type	Scope	Default
outv	String	Do	Enter a VB expression
outp	UiElement	Do	Enter a VB expression
aaname	String	Do	Enter a VB expression

Step 5: Search for “Message Box” Activity in the Activities Panel and drag it inside the sequence. Enter the Output value.

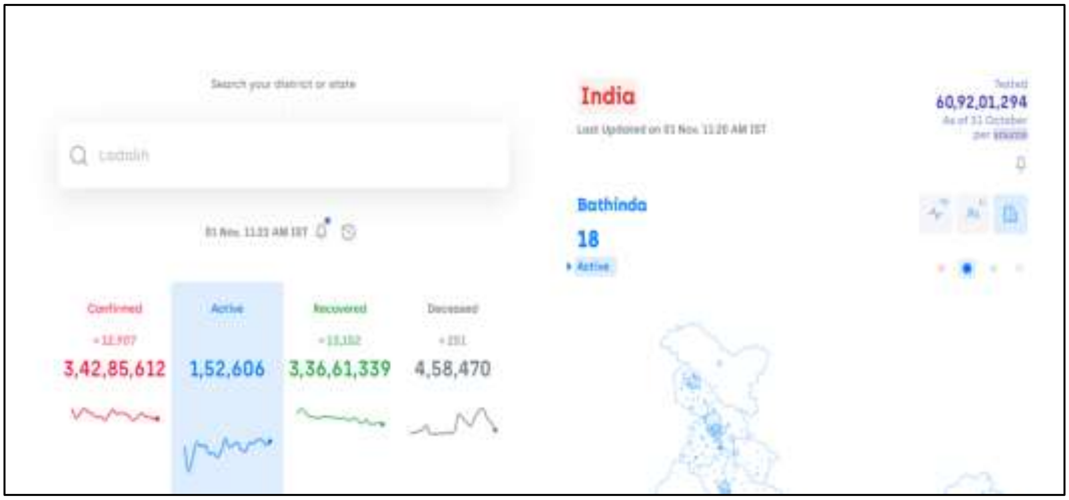


Message Box

Text *

outv.ToString

Step 6: Click the Run button and see the result.



Search your district or state

Ladakh

01 Nov. 11:23 AM IST

Confirmed	Active	Recovered	Deceased
+12,907		+13,152	+251
3,42,85,612	1,52,606	3,36,61,339	4,58,470

India

Last Updated on 01 Nov. 11:20 AM IST

Tested

60,92,01,294

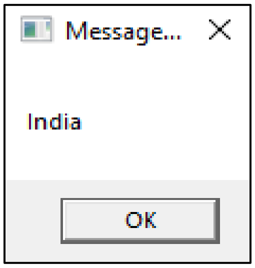
As of 31 October

per source

Bathinda

18

Active



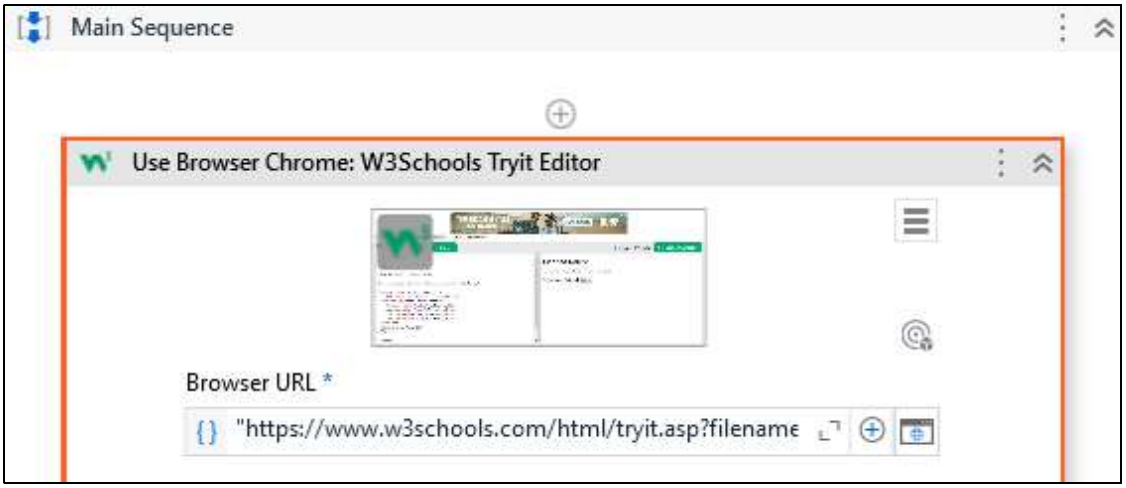
India

3. Find Children:

Steps: -

Step 1: Drag and drop “Sequence” activity in main workflow.

Step 2: Drag and drop “Use Application/ Browser” Activity inside sequence. Indicate the screen you want to include in the workflow.



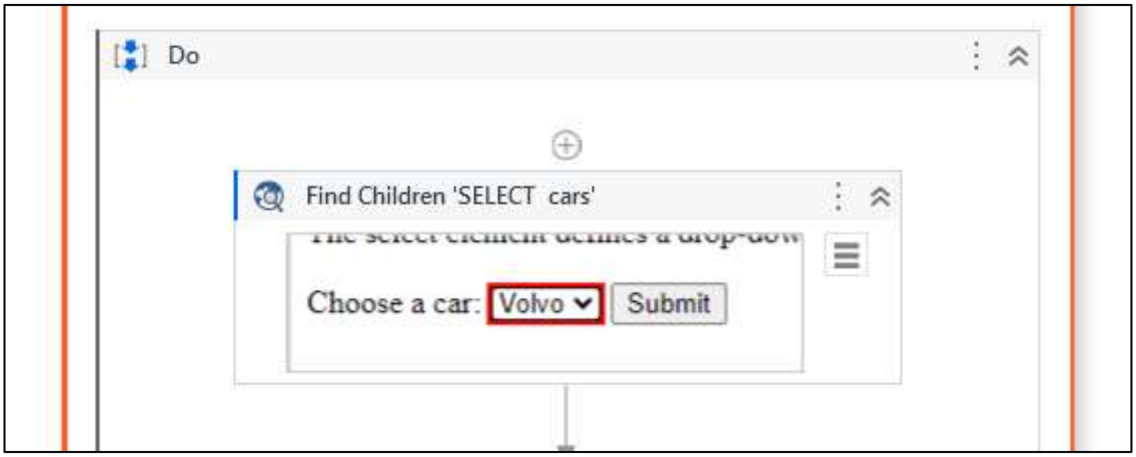
Main Sequence

Use Browser Chrome: W3Schools Tryit Editor

Browser URL *

"https://www.w3schools.com/html/tryit.asp?filename

Step 3: Add “Find Children” Activity in the Activities Panel and drag it inside the sequence workflow. Indicate the Element you want to look for and Click on Save & Close. Create and set an output variable to store the Attribute Value Output.

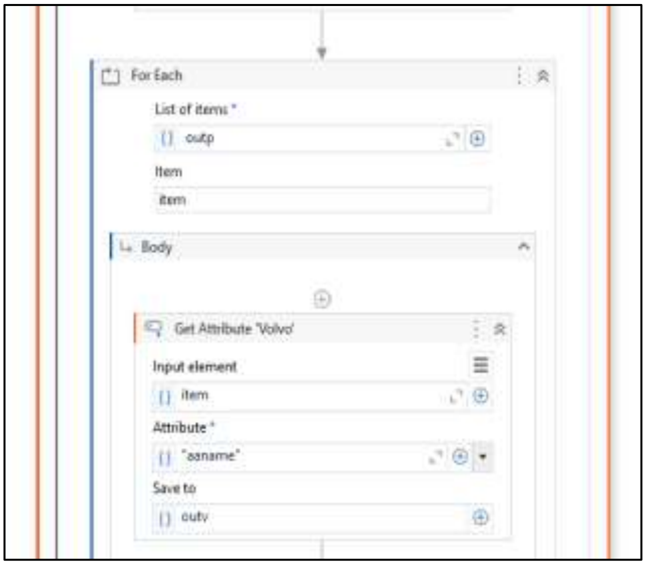


Do

Find Children 'SELECT cars'

Step 4: Search for “For Each” Activity in the Activities Panel and drag it inside the sequence workflow.

Step 5: Search for “Get Attribute” Activity in the Activities Panel and drag it inside the sequence workflow. Input element as the Find Element ouput, create and set an attribute value and and String output variable.



For Each

List of items *

outp

Item

item

Body

Get Attribute 'Volvo'

Input element

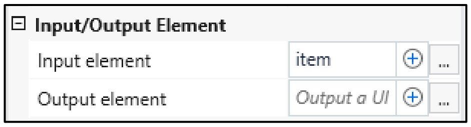
item

Attribute *

"aaname"

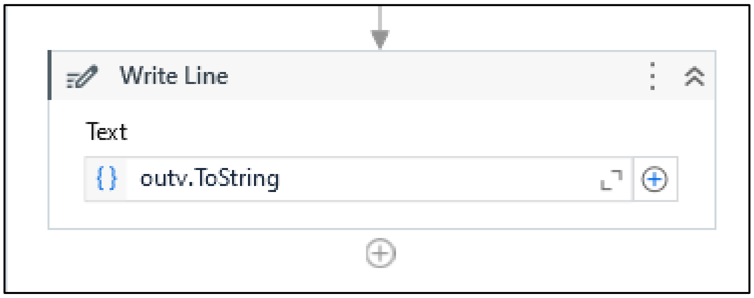
Save to

outv



Input/Output Element	
Input element	item
Output element	Output a UI

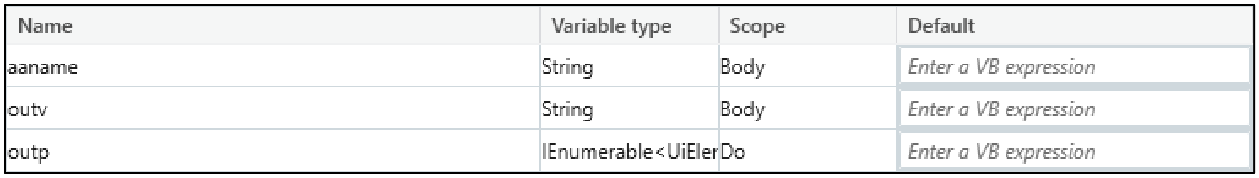
Step 6: Search for "Write Line" Activity in the Activities Panel and drag it inside the sequence. Enter the Output value.



Write Line

Text

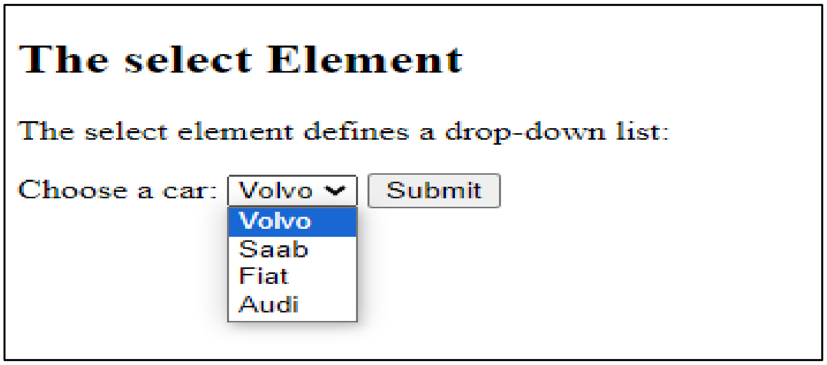
outv.ToString



Name	Variable type	Scope	Default
aaname	String	Body	Enter a VB expression
outv	String	Body	Enter a VB expression
outp	IEnumerable<UiEler	Do	Enter a VB expression

Step 7: Click the Run button and see the result.

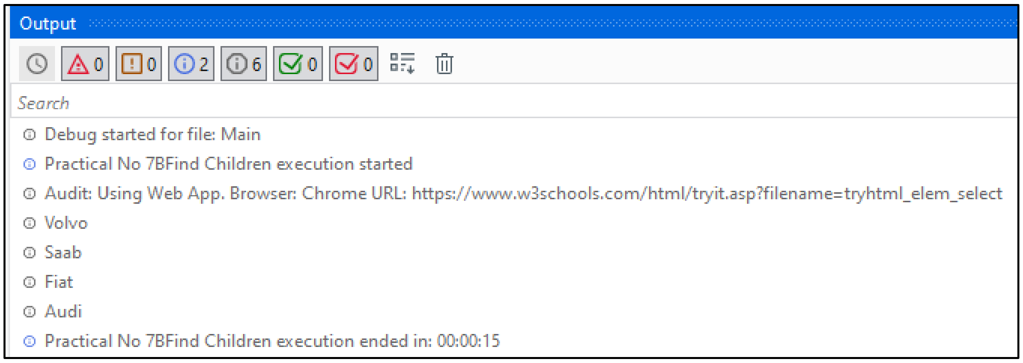
Output:



The select Element

The select element defines a drop-down list:

Choose a car: Volvo



```
Debug started for file: Main
Practical No 7BFind Children execution started
Audit: Using Web App. Browser: Chrome URL: https://www.w3schools.com/html/tryit.asp?filename=tryhtml_elem_select
Volvo
Saab
Fiat
Audi
Practical No 7BFind Children execution ended in: 00:00:15
```

Conclusion:

The practical to find different controls using UiPath is successfully completed.

C. Aim: Demonstrate the following activities in UiPath:

1. Mouse (click, double click and hover)

- **Mouse Click**

Steps: -

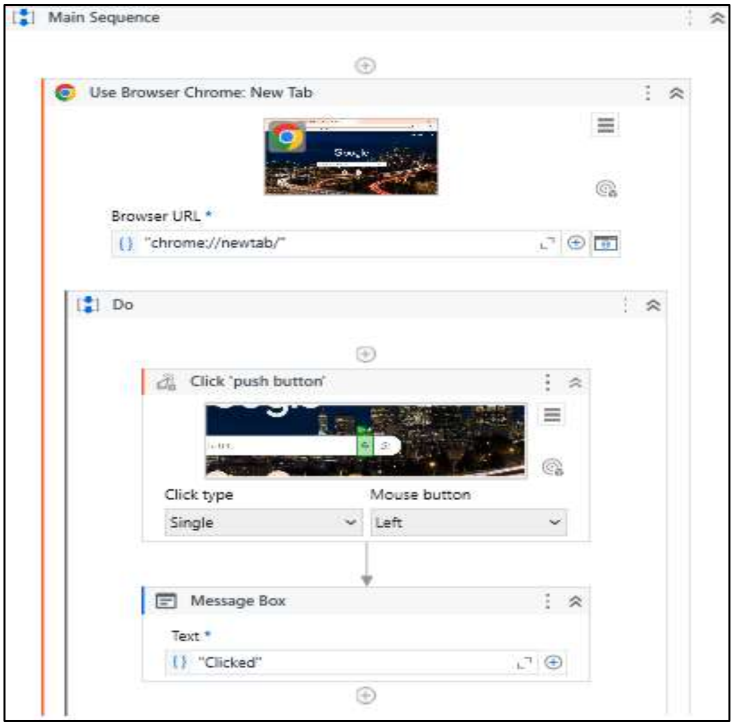
Step 1: Drag and drop a Sequence activity on the Designer panel.

Step 2: Drag and drop use Application/Browser activity.

Step 3: Drag and drop the Click activity.

Step 4: Click on Indicate on screen and indicate the UI element you want to click on:

Hit the Run button to the see the result.



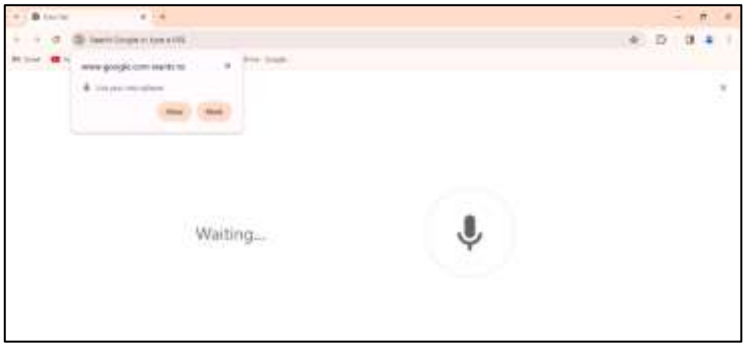
Browser URL * "chrome://newtab/"

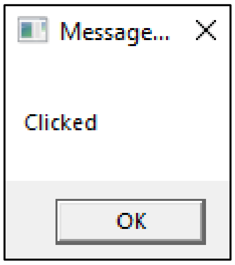
Click type: Single

Mouse button: Left

Text * "Clicked"

Output:





Message...

Clicked

- **Double Click**

Steps: -

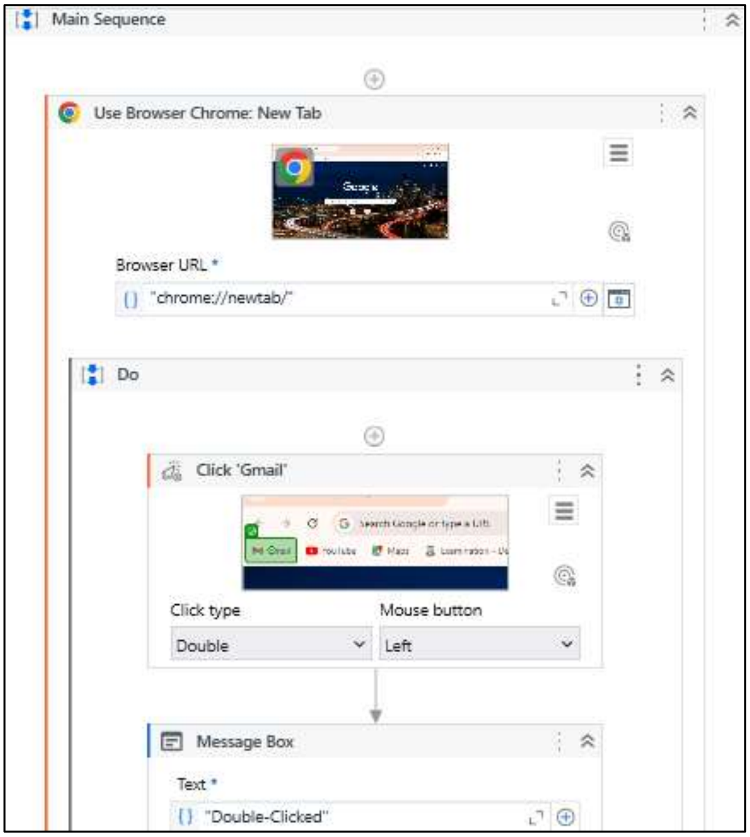
Step 1: Drag and drop a Sequence activity in the Designer panel.

Step 2: Drag and drop use Application/Browser activity.

Step 3: Drag and drop the Click activity.

Step 4: Indicate the Element you want to double-click on and Click on Save & Close. Select Click Type as “Double”. Click on Indicate on screen and indicate the UI element you want to double-click on

Step 5: Run.



Main Sequence

Use Browser Chrome: New Tab

Browser URL * "chrome://newtab/"

Do

Click 'Gmail'

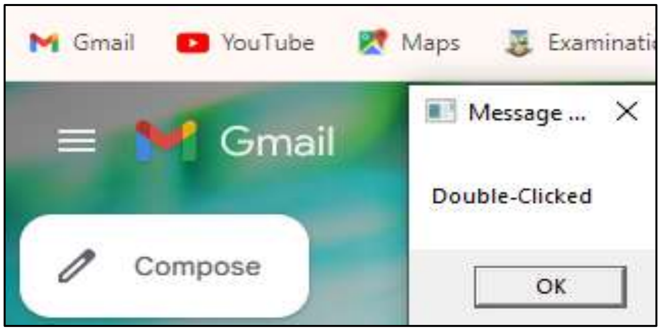
Click type: Double

Mouse button: Left

Message Box

Text * "Double-Clicked"

Output:



Message ...

Double-Clicked

OK

- **Mouse Hover**

Steps: -

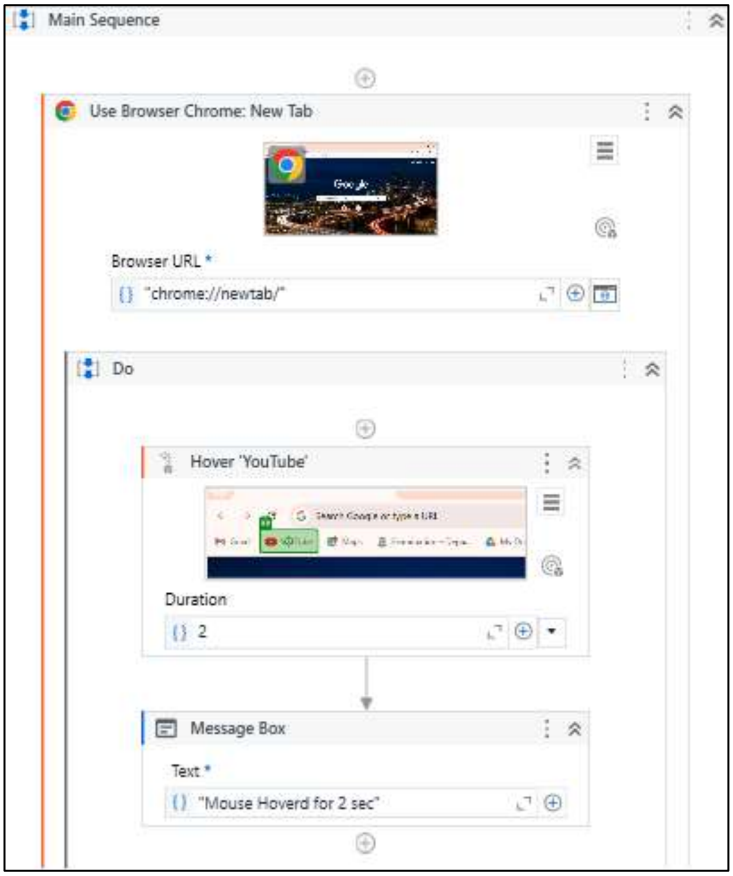
Step 1: Drag and drop a Sequence activity in the Designer panel.

Step 2: Drag and drop use Application/Browser activity.

Step 3: Drag and drop the Hover activity.

Step 4: Click on Indicate on screen and indicate the UI element you want to hover on and set duration of 2 sec.

Step 5: Hit the Run button to the see the result.



Main Sequence

Use Browser Chrome: New Tab

Browser URL * "chrome://newtab/"

Do

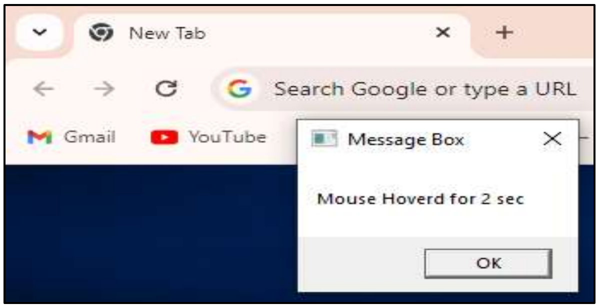
Hover 'YouTube'

Duration 2

Message Box

Text * "Mouse Hoverd for 2 sec"

Output:



Message Box

Mouse Hoverd for 2 sec

OK

2. Type into:

Steps: -

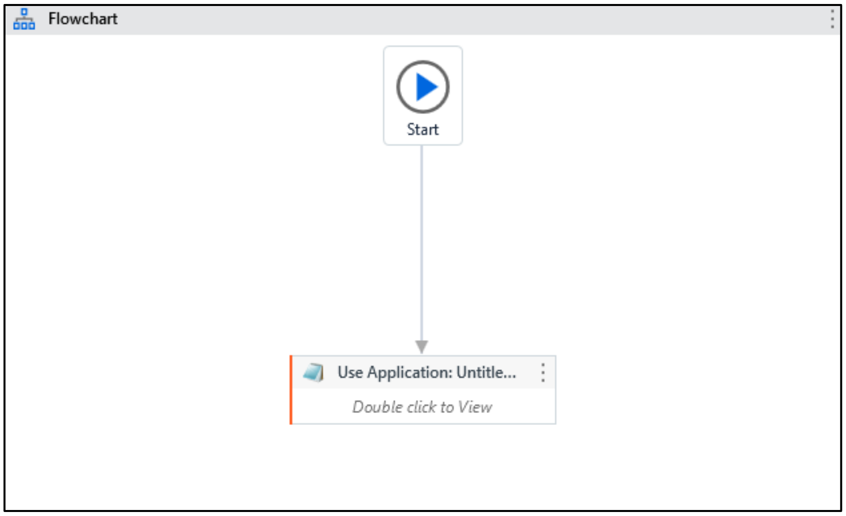
Step 1: Drag and drop Flowchart activity in workflow.

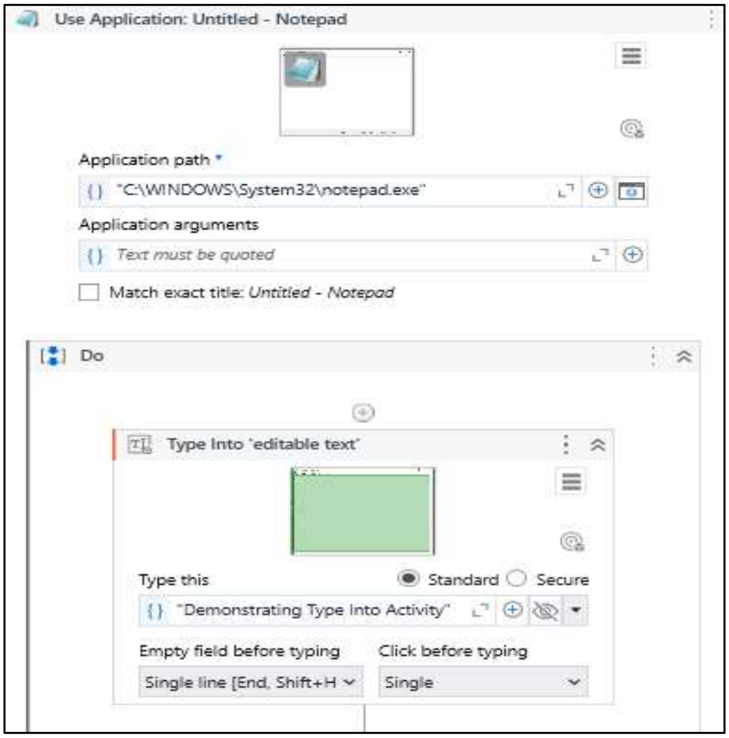
Step 2: Drag and drop Use Application/Browser.

Step 3: Click on “Indicate on screen”. Locate the Notepad screen.

Step 4: Add a Type into Activity and again indicate your screen to Notepad window.

Step 5: Add message box activity to check the project is successful.





Use Application: Untitled - Notepad

Application path *

"C:\WINDOWS\System32\notepad.exe"

Application arguments

Text must be quoted

□ Match exact title: *Untitled - Notepad*

Do

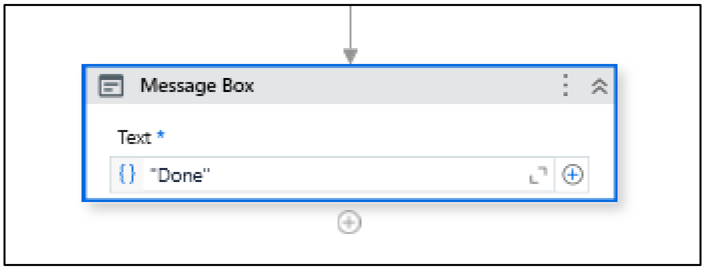
Type Into 'editable text'

Type this ● Standard ○ Secure

"Demonstrating Type Into Activity"

Empty field before typing: Single line [End, Shift+H

Click before typing: Single

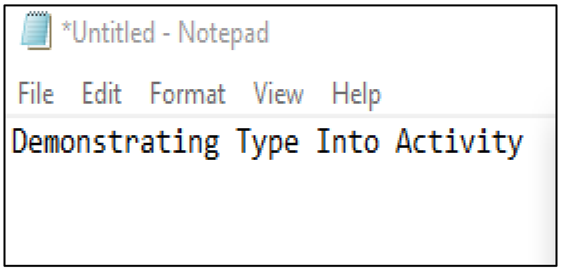


Text *

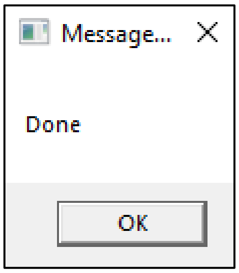
"Done"

Step 6: Run

Output:



Demonstrating Type Into Activity



Done

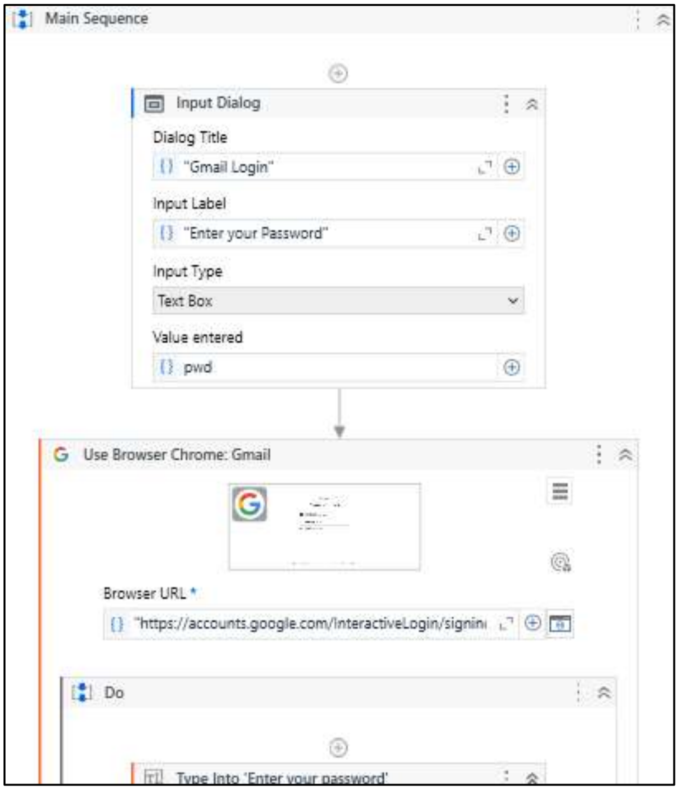
3. Type secure text:

Steps: -

Step 1: Select sequence activity.

Step 2: Drag and drop Input dialog activity inside the Sequence. Write the appropriate message on the Label of the Input dialog. Create a variable and specify the variable in the Result property of the Input dialog box. Check the IsPassword property.

Step 3: Drag and drop “Use Browser/ Application” inside the sequence workflow. Indicate the screen you want to include in the workflow.



Main Sequence

Input Dialog

Dialog Title

"Gmail Login"

Input Label

"Enter your Password"

Input Type

Text Box

Value entered

pwd

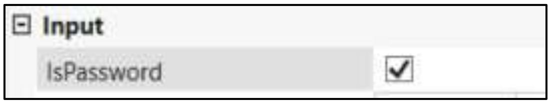
Use Browser Chrome: Gmail

Browser URL *

"https://accounts.google.com/InteractiveLogin/signin

Do

Type Into 'Enter your password'



Input

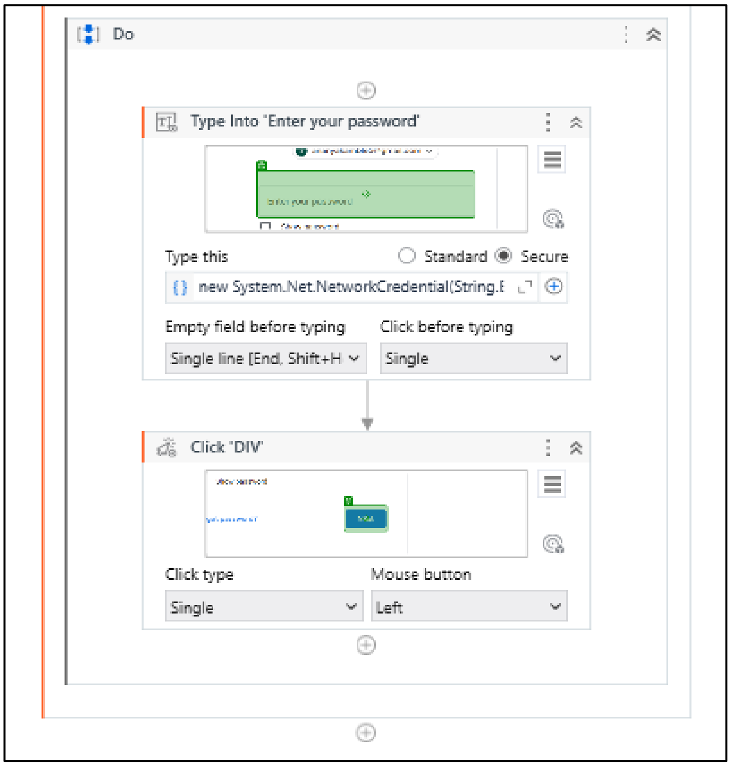
IsPassword ☑

Step 4: Drag and "Type Into" Activity inside the sequence workflow. Indicate the Element you want to click on and Click on Save & Close.

Step 5: Select the Secure Radio Button. Set the variable as Secure String using the code – "new System.Net.NetworkCredential(String.Empty, pwd).SecurePassword".

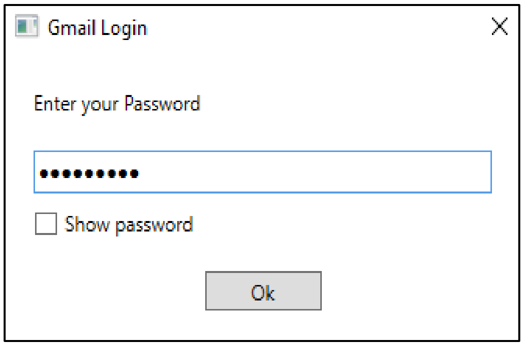
Step 6: Add "Click" Activity and Indicate the "Next" button.

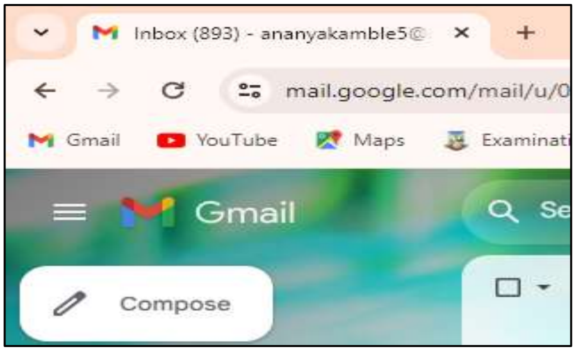
Step 7: Click the Run button and see the result.



Do
Type Into 'Enter your password'
Type this
○ Standard ● Secure
new System.Net.NetworkCredential(String.E
Empty field before typing
Single line [End, Shift+H
Click before typing
Single
Click 'DIV'
Click type
Single
Mouse button
Left

Output:





Conclusion:

The practical to demonstrate the mouse, type into, type secure text activity using UiPath is successfully completed.

PRACTICAL NO. 8

A. Aim: Demonstrate the following events in UiPath:

1. Element triggering event

- **Click Trigger**

Steps: -

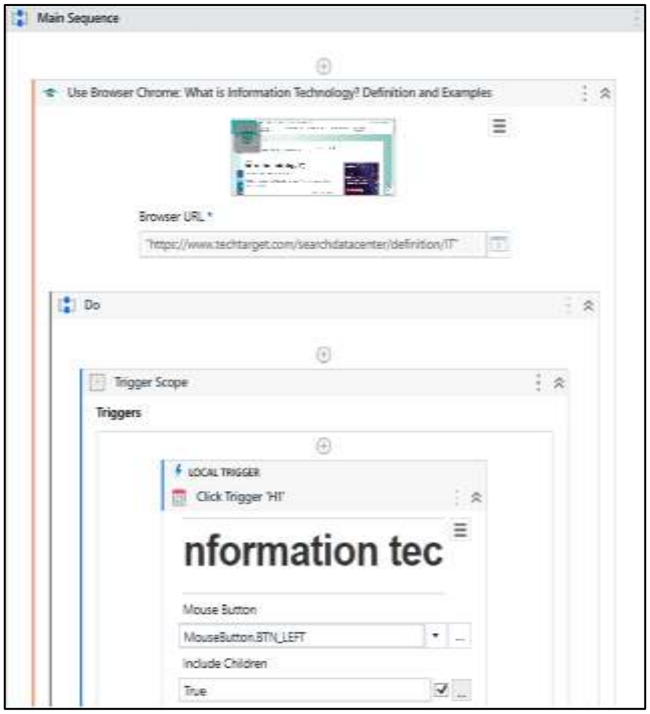
Step 1: Drag and drop a Sequence Activity.

Step 2: Take Use Application/Browser Activity. Indicate the screen where you want

Step 3: Add Trigger Scope Activity. In the Trigger Action drag and drop a Click Trigger. Indicate the screen on a particular thing.

Step 4: Select BTN_LEFT of Mouse Button and check true for Include Children.

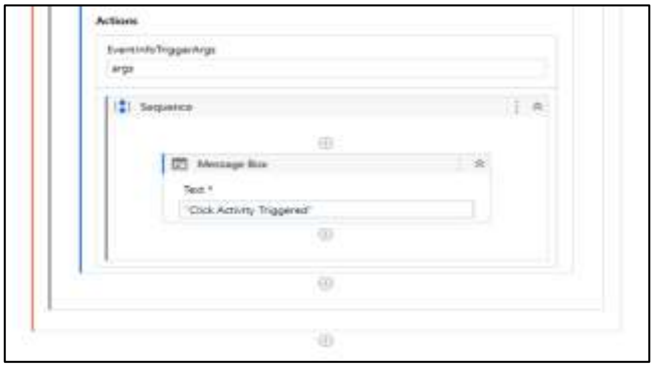
Step 5: For Actions drag and drop the Message Box Activity. Hit the Run button.



Browser URL *
"https://www.techtarget.com/searchdatacenter/definition/IT"

Mouse Button
MouseButton.BTN_LEFT

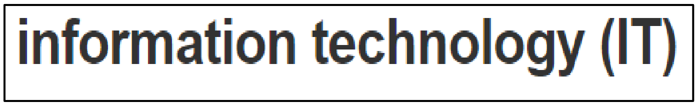
Include Children
True ☑

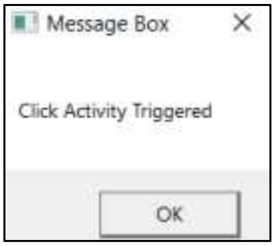


EventInfo/TriggerArgs
args

Text *
"Click Activity Triggered"

Output:


information technology (IT)


Message Box

Click Activity Triggered

- **Key press**

Steps: -

Step 1: Open UiPath Studio.

Step 2: Start a BlankProcess. Give the BlankProcess a name.

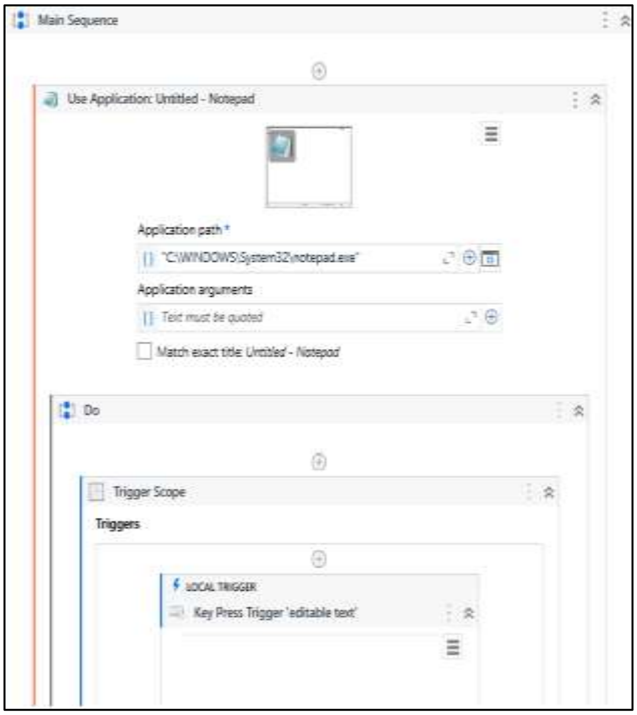
Step 3: Drag and drop a Sequence Activity.

Step 4: Take Use Application/Browser Activity. Create a Notepad file and indicate the screen on Notepad.

Step 5: Add Trigger Scope Activity. In the Trigger Action drag and drop a Key Press Trigger. Select ctrl + left key.

Step 6: For Actions take a Type into Activity and indicate screen on notepad.

Step 7: Run.


Main Sequence

Use Application: Untitled - Notepad

Application path *

"C:\WINDOWS\System32\notepad.exe"

Application arguments

Text must be quoted

☐ Match exact title *Untitled - Notepad*

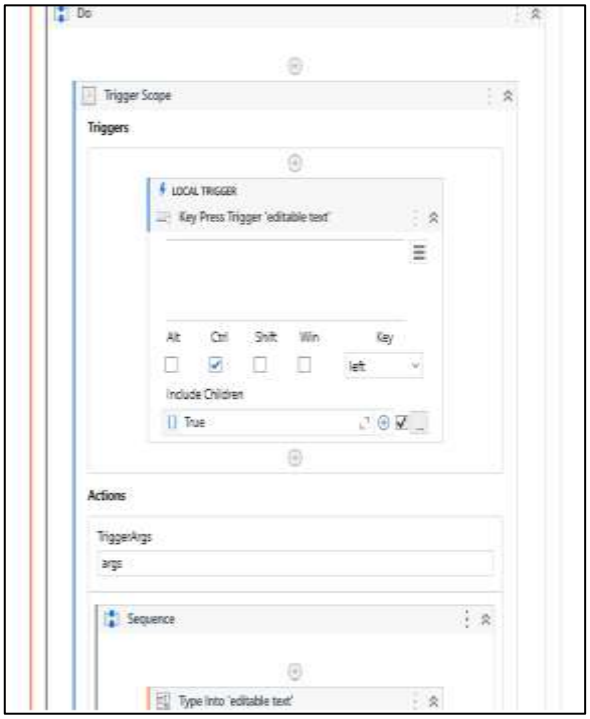
Do

Trigger Scope

Triggers

LOCAL TRIGGER

Key Press Trigger 'editable text'


Do

Trigger Scope

Triggers

LOCAL TRIGGER

Key Press Trigger 'editable text'

Alt	Ctrl	Shift	Win	Key
☐	☑	☐	☐	left

Include Children

True

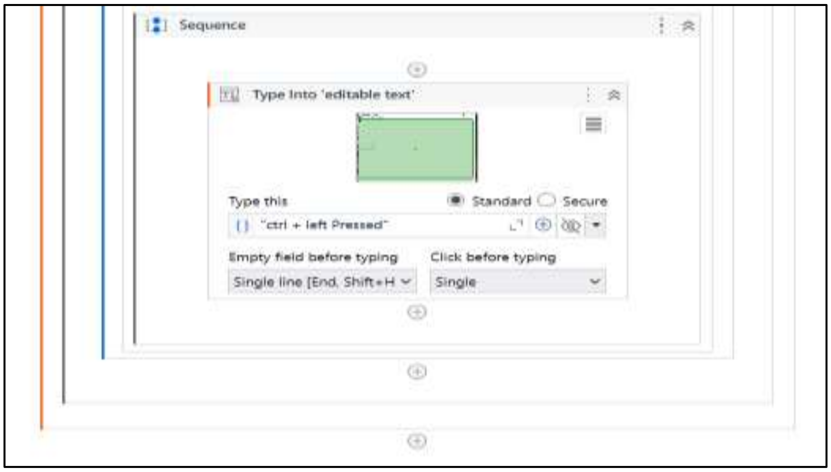
Actions

TriggerArgs

args

Sequence

Type Into 'editable text'



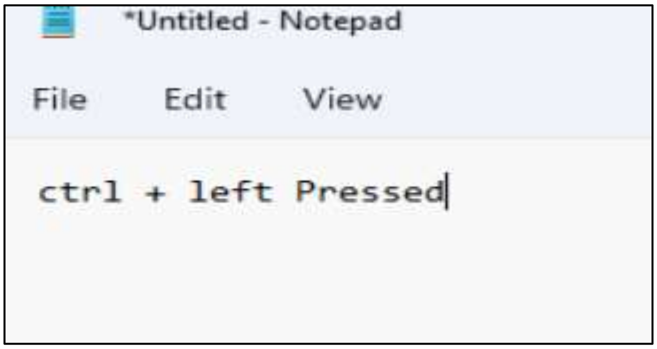
Type this ● Standard ○ Secure

"ctrl + left Pressed"

Empty field before typing: Single line (End, Shift+H

Click before typing: Single

Output:



```
ctrl + left Pressed
```

2. Image triggering event:

Steps: -

Step 1: Drag and drop a Sequence Activity.

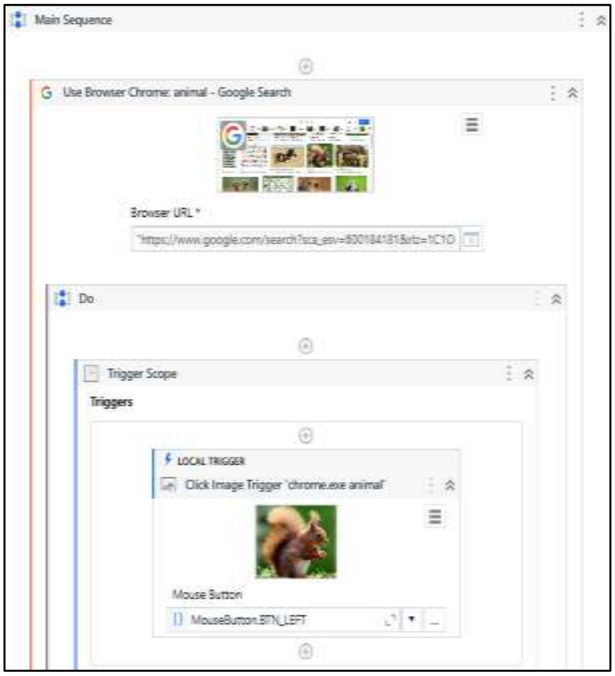
Step 2: Take Use Application/Browser Activity. Indicate the screen to the image.

Step 3: Add Trigger Scope Activity. In the Trigger Action drag and drop a Click Image Trigger. Drag the cursor on the image and also indicate the scope.

Step 4: Select BTN_LEFT of Mouse Button.

Step 5: For Actions drag and drop the Message Box Activity. In the text field type "Image is Clicked".

Step 6: Run.



Main Sequence

Use Browser Chrome: animal - Google Search

Browser URL *
"https://www.google.com/search?sca_esv=830184181&rlz=1C1D

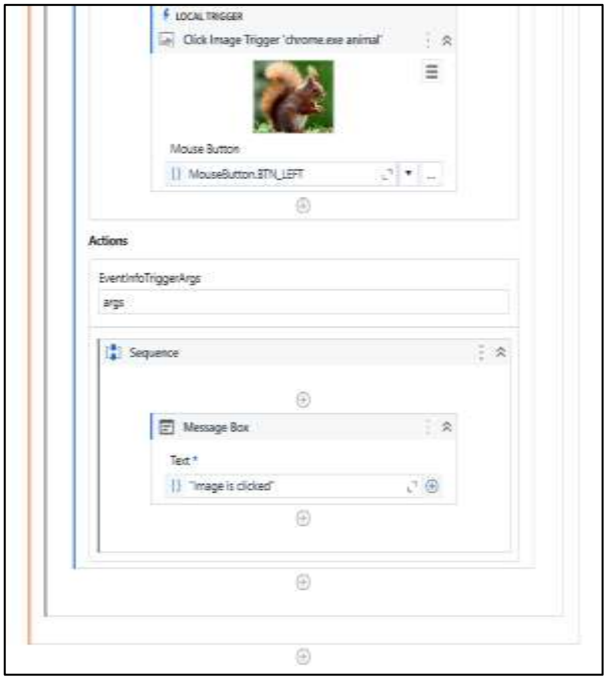
Do

Trigger Scope

Triggers

LOCAL TRIGGER
Click Image Trigger 'chrome.exe animal'

Mouse Button
MouseButton.BTN_LEFT



LOCAL TRIGGER
Click Image Trigger 'chrome.exe animal'

Mouse Button
MouseButton.BTN_LEFT

Actions

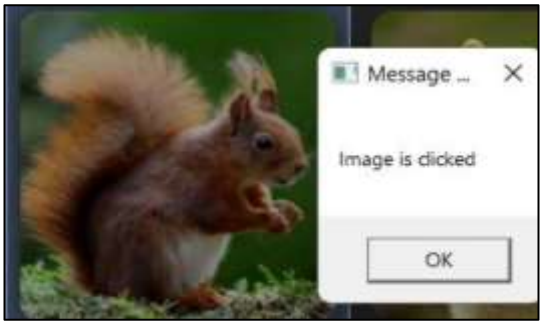
EventInfoTriggerArgs
args

Sequence

Message Box

Text *
"Image is clicked"

Output:



Message ...

Image is clicked

1. System triggering event:

• Hot Key

Steps: -

Step 1: Open UiPath Studio.

Step 2: Start a BlankProcess. Give the BlankProcess a name.

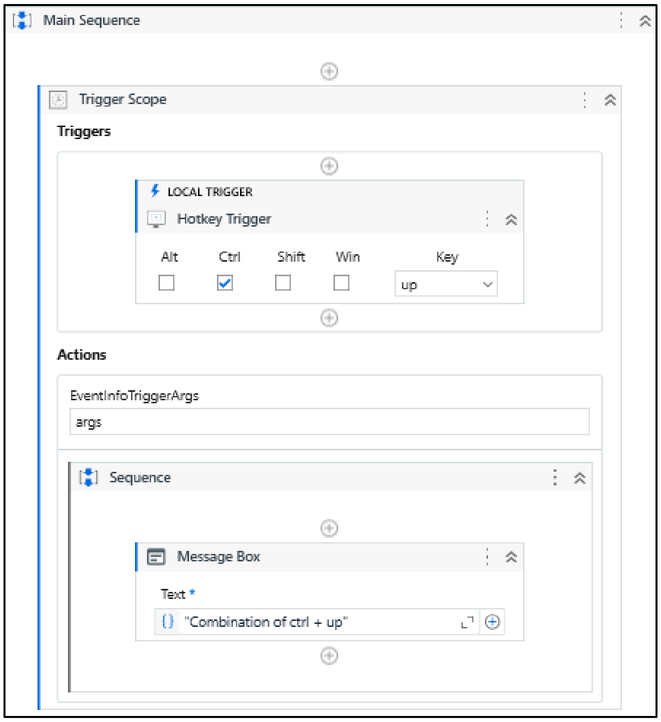
Step 3: Drag and drop a Sequence Activity.

Step 4: Add Trigger Scope Activity. In the Trigger Action drag and drop a Hotkey Trigger.

Step 5: Select ctrl + up key.

Step 6: For Actions drag and drop the Message Box Activity. In the text field type “Combination of ctrl + up”.

Step 7: Run

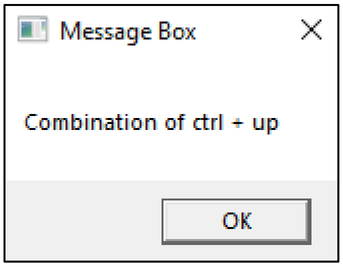


Alt □ Ctrl ☑ Shift □ Win □ Key up

EventInfoTriggerArgs args

Text * "Combination of ctrl + up"

Output:



Combination of ctrl + up

- **Mouse Trigger**

Steps: -

Step 1: Open UiPath Studio.

Step 2: Start a BlankProcess. Give the BlankProcess a name.

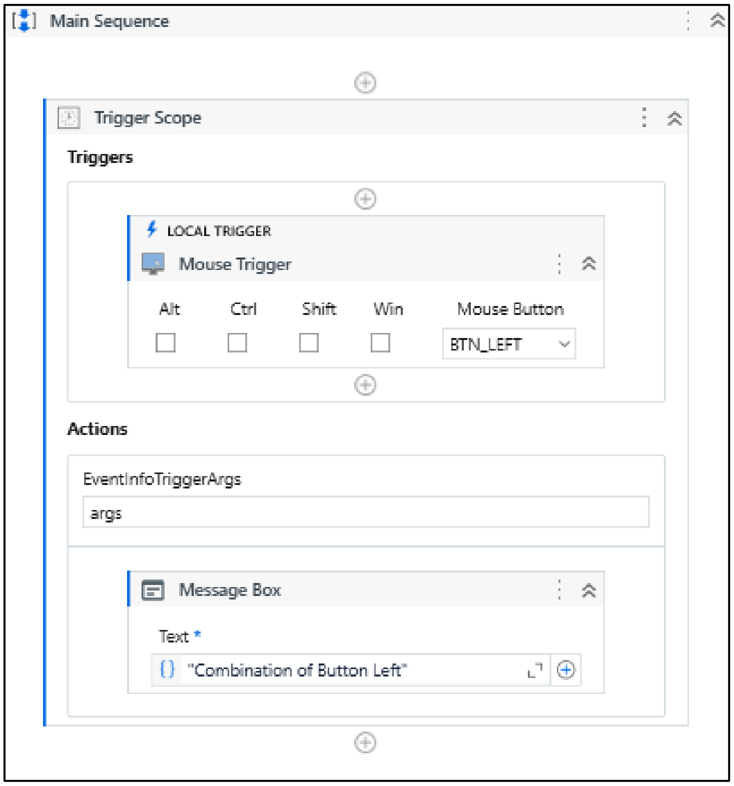
Step 3: Drag and drop a Sequence Activity.

Step 4: Add Trigger Scope Activity. In the Trigger Action drag and drop a Mouse Trigger.

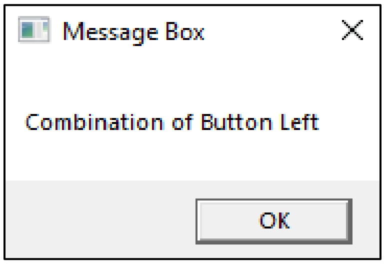
Step 5: Select BTN_LEFT of Mouse Button.

Step 6: For Actions drag and drop the Message Box Activity. In the text field type "Combination of Button Left".

Step 7: Run.



Output:



Combination of Button Left

- **System Trigger**

Steps: -

Step 1: Open UiPath Studio.

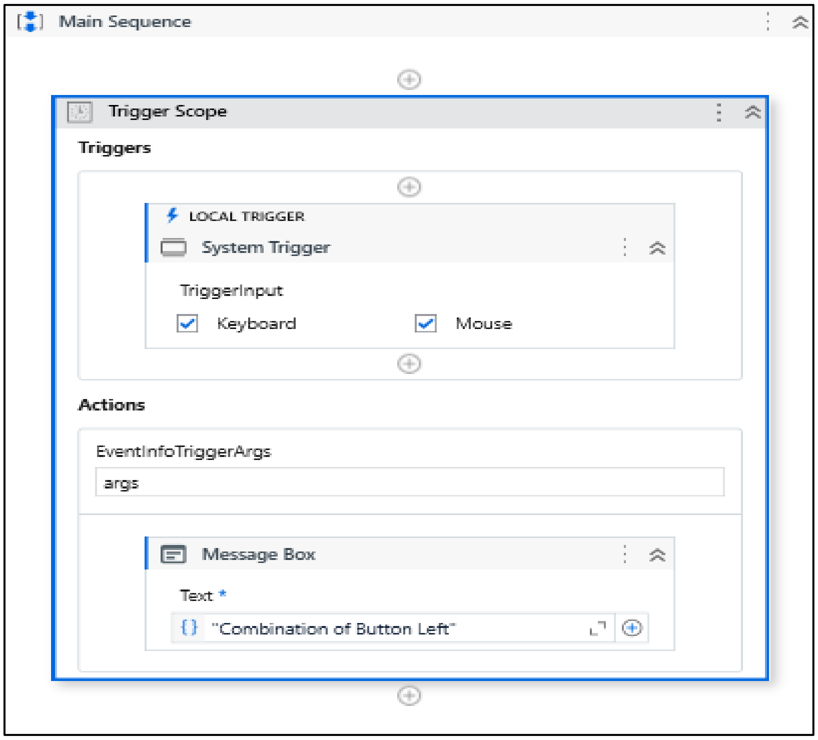
Step 2: Start a BlankProcess. Give the BlankProcess a name.

Step 3: Drag and drop a Sequence Activity.

Step 4: Add Trigger Scope Activity. In the Trigger Action drag and drop a System Trigger.

Step 5: For Actions drag and drop the Message Box Activity. In the text field type “Combination of Button Left”.

Step 6: Run.

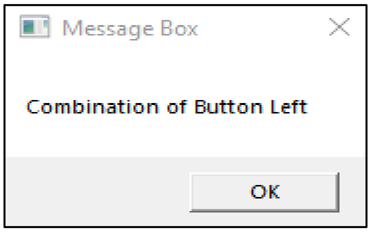


TriggerInput
☑ Keyboard ☑ Mouse

EventInfoTriggerArgs
args

Text *
"Combination of Button Left"

Output:



Combination of Button Left

Conclusion:

The practical to demonstrate Element Triggering, Image Triggering and System Triggering events using UiPath was successfully executed.

B. Aim: Install and automate any process using UiPath with the following plugins:

i. Java Plugin

Steps: -

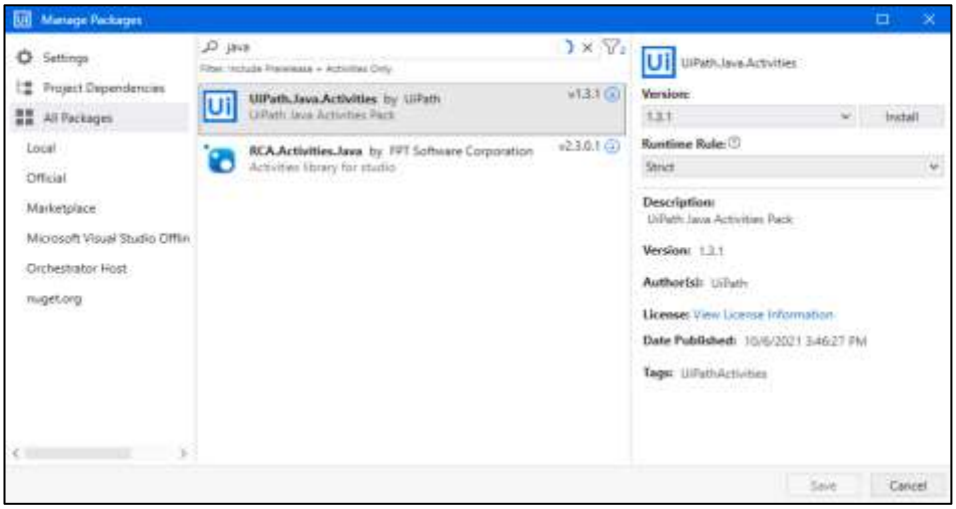
Step 1: Open UiPath Studio.In the Ribbon Panel go to the Manage Package.

Step 2: Select All Packages.A list of activities package will appear.

Step 3: Search Java, UiPath.Java.Activities will appear. Click on install.

Step 4: Java Plugin is installed.

Output:



java

Filter: Include Prerelease + Activities Only

UiPath.Java.Activities by UiPath v1.3.1
UiPath Java Activities Pack

RCA.Activities.Java by FPT Software Corporation v2.3.0.1
Activities library for studio

UiPath.Java.Activities

Version: 1.3.1

Runtime Rule: Strict

Description:
UiPath Java Activities Pack

Version: 1.3.1

Author(s): UiPath

License: View License Information

Date Published: 10/6/2021 3:46:27 PM

Tags: UiPathActivities

ii. Mail Plugin

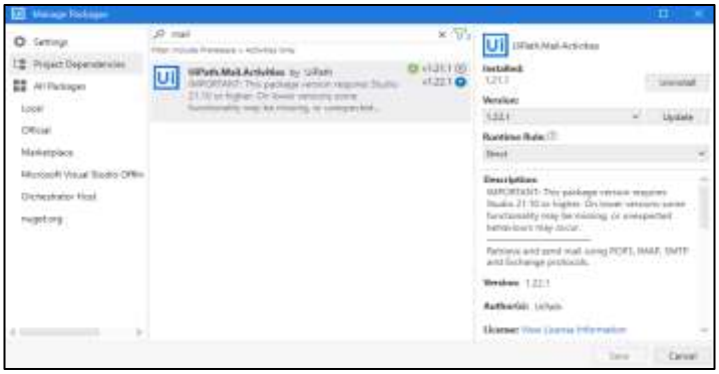
Steps: -

Step 1: Open UiPath Studio.In the Ribbon Panel go to the Manage Package.

Step 2: Select All Packages. A list of activities package will appear.

Step 3: Search mail UiPath.Mail.Activities will appear. Click on install

Step 4: Mail Plugin is installed.



mail

Filter: Include Prerelease + Activities Only

UiPath.Mail.Activities by UiPath v1.21.1 v1.22.1
IMPORTANT: This package version requires Studio 21.10 or higher. On lower versions some functionality may be missing, or unexpected...

UiPath.Mail.Activities

Installed: 1.21.1

Version: 1.22.1

Runtime Rule: Strict

Description:
IMPORTANT: This package version requires Studio 21.10 or higher. On lower versions some functionality may be missing, or unexpected behaviours may occur.

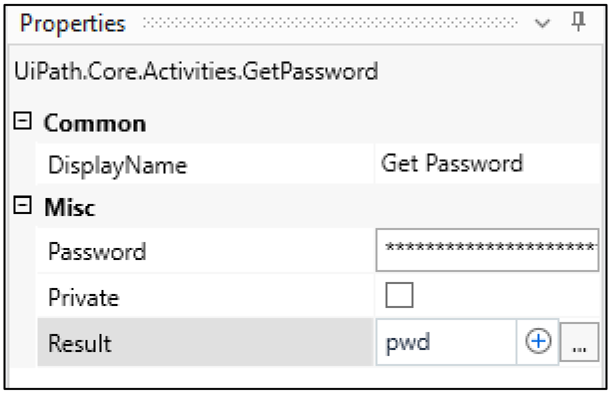
Retrieve and send mail using POP3, IMAP, SMTP and Exchange protocols.

Version: 1.22.1

Author(s): UiPath

License: View License Information

Step 5: Search for “Get Password” in Activities Panel and drag it inside the sequence workflow. Enter the password in the properties panel and assign it to variable pwd.



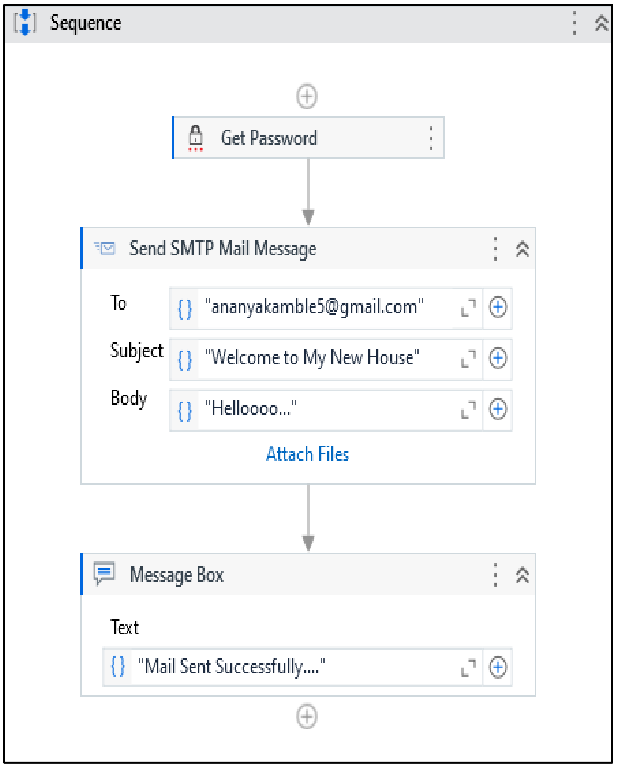
Properties

UiPath.Core.Activities.GetPassword

⊟ Common	
DisplayName	Get Password
⊟ Misc	
Password	*********************
Private	□
Result	pwd

Step 6: Add “Send SMTP Mail Message” inside the sequence workflow. Enter the recipient’s email address, subject line and message. Enter the password, port number, mail server name in the properties panel.

Step 7: Run



Sequence

Get Password

Send SMTP Mail Message

To "ananyakamble5@gmail.com"

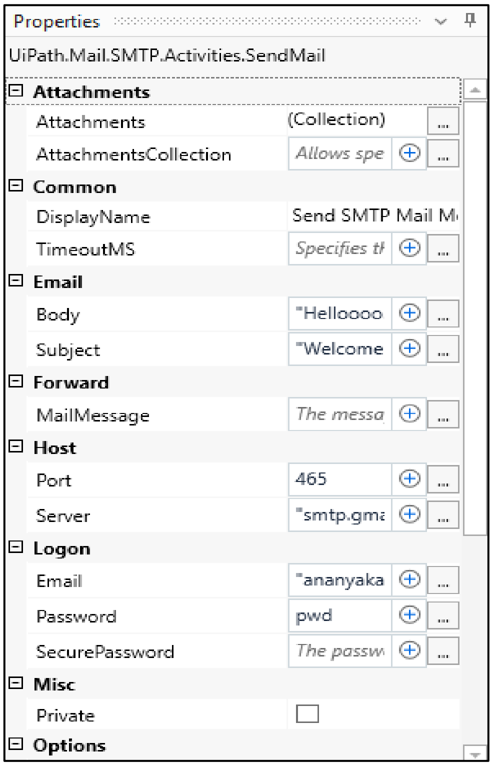
Subject "Welcome to My New House"

Body "Helloooo..."

Attach Files

Message Box

Text "Mail Sent Successfully...."

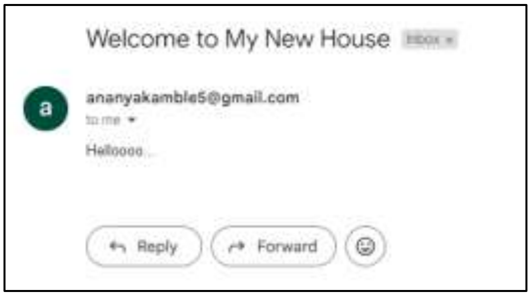


Properties

UiPath.Mail.SMTP.Activities.SendMail

⊟ Attachments	
Attachments	(Collection)
AttachmentsCollection	*Allows spe*
⊟ Common	
DisplayName	Send SMTP Mail M
TimeoutMS	*Specifies th*
⊟ Email	
Body	"Helloooo
Subject	"Welcome
⊟ Forward	
MailMessage	*The messa*
⊟ Host	
Port	465
Server	"smtp.gma
⊟ Logon	
Email	"ananyaka
Password	pwd
SecurePassword	*The passw*
⊟ Misc	
Private	□
⊟ Options	

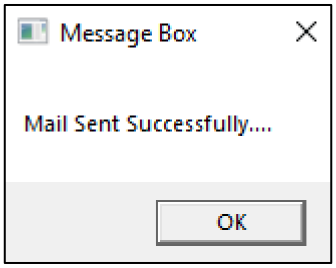
Output:



Welcome to My New House

ananyakamble5@gmail.com
to me

Helloooo..



Mail Sent Successfully....

iii. PDF Plugin

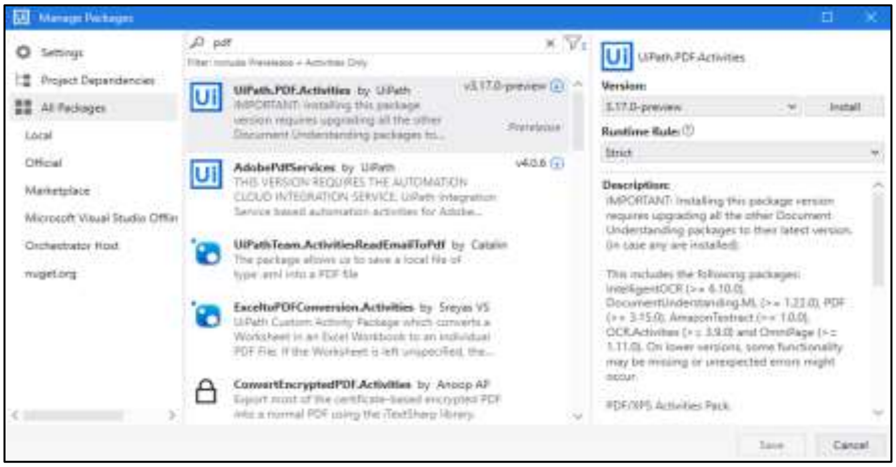
Steps: -

Step 1: Open UiPath Studio. In the Ribbon Panel go to the Manage Package.

Step 2: Select All Packages.A list of activities package will appear.

Step 3: Search PDF, UiPath.PDF.Activities will appear. Click on install.

Step 4: PDF Plugin is installed.



pdf

Filter: Include Prerelease + Activities Only

UiPath.PDF.Activities by UiPath v3.17.0-preview
IMPORTANT: Installing this package version requires upgrading all the other Document Understanding packages to...

AdobePdfServices by UiPath v4.0.6
THIS VERSION REQUIRES THE AUTOMATION CLOUD INTEGRATION SERVICE. UiPath Integration Service based automation activities for Adobe...

UiPathTeam.ActivitiesReadEmailToPdf by Catalin
The package allows us to save a local file of type .eml into a PDF file

ExceltoPDFConversion.Activities by Sreyas VS
UiPath Custom Activity Package which converts a Worksheet in an Excel Workbook to an individual PDF File. If the Worksheet is left unspecified, the...

ConvertEncryptedPDF.Activities by Anoop AP
Export most of the certificate-based encrypted PDF into a normal PDF using the iTextSharp library.

UiPath.PDF.Activities

Version: 3.17.0-preview

Runtime Rule: Strict

Description:
IMPORTANT: Installing this package version requires upgrading all the other Document Understanding packages to their latest version. (in case any are installed)

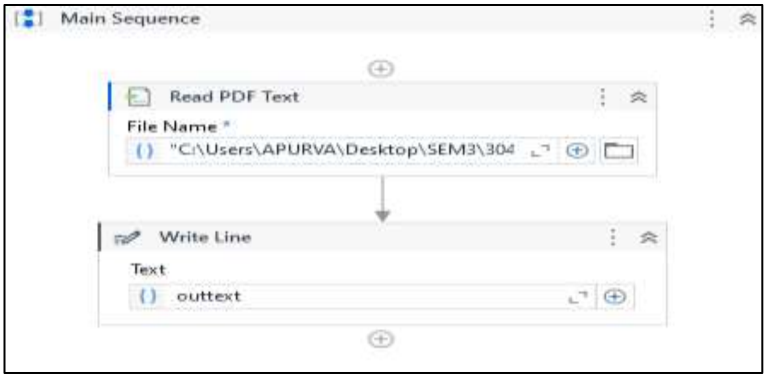
This includes the following packages: IntelligentOCR (>= 6.10.0), DocumentUnderstanding.ML (>= 1.22.0), PDF (>= 3.15.0), AmazonTextract (>= 1.0.0), OCR.Activities (>= 3.9.0) and OmniPage (>= 1.11.0). On lower versions, some functionality may be missing or unexpected errors might occur.

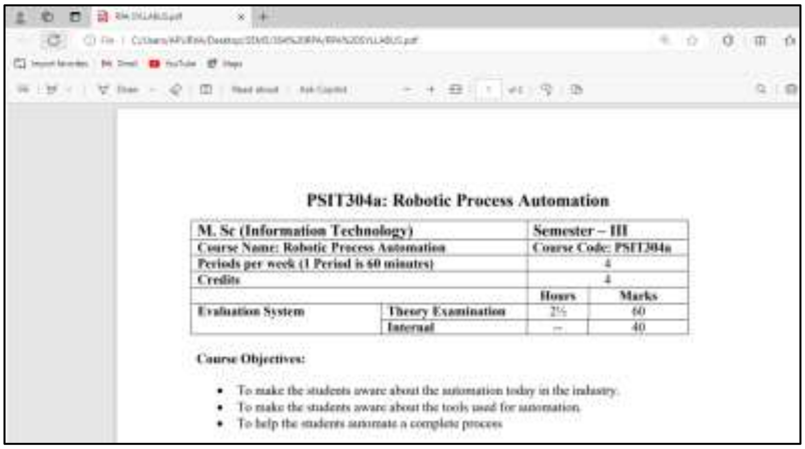
PDF/XPS Activities Pack

Step 5: Drag and drop sequence activity. Drag and drop “Read PDF Text”. Enter the file location of the PDF to read from. Create and assign an output variable.

Step 6: Add “Write Line” in Activity. Enter the output text variable.

Step 7: Click on the Run button and see the Results.





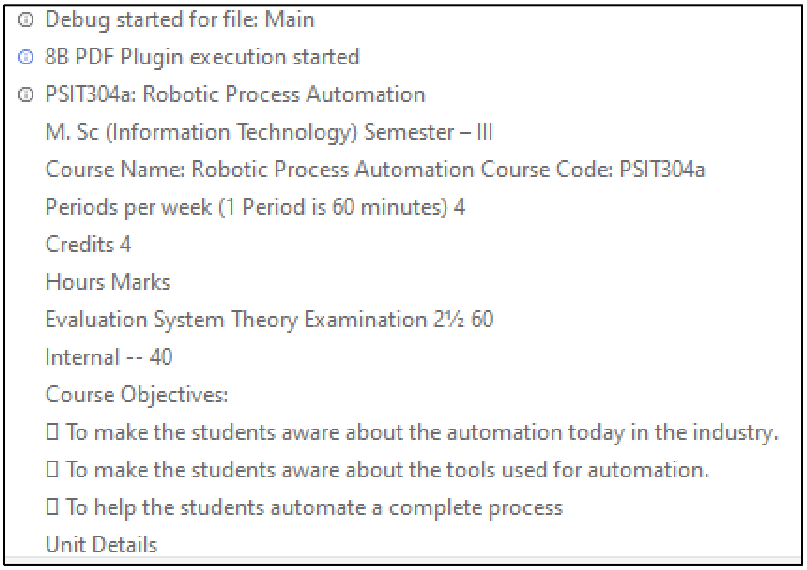
PSIT304a: Robotic Process Automation

M. Sc (Information Technology)		Semester – III	
Course Name: Robotic Process Automation		Course Code: PSIT304a	
Periods per week (1 Period is 60 minutes)		4	
Credits		4	
		Hours	Marks
Evaluation System	Theory Examination	2½	60
	Internal	--	40

Course Objectives:

- To make the students aware about the automation today in the industry.
- To make the students aware about the tools used for automation.
- To help the students automate a complete process

Output:



```
Debug started for file: Main
8B PDF Plugin execution started
PSIT304a: Robotic Process Automation
M. Sc (Information Technology) Semester – III
Course Name: Robotic Process Automation Course Code: PSIT304a
Periods per week (1 Period is 60 minutes) 4
Credits 4
Hours Marks
Evaluation System Theory Examination 2½ 60
Internal -- 40
Course Objectives:
 To make the students aware about the automation today in the industry.
 To make the students aware about the tools used for automation.
 To help the students automate a complete process
Unit Details
```

iv. Excel Plugin

Steps: -

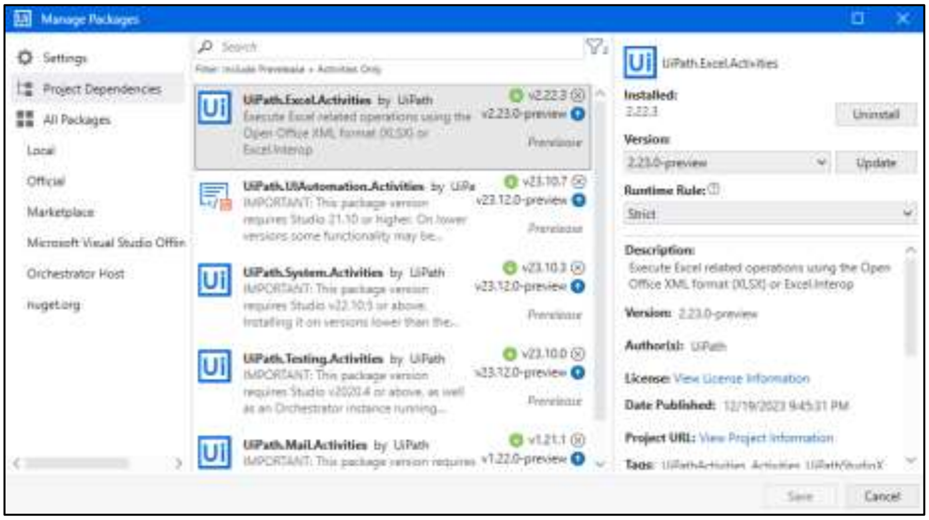
Step 1: Open UiPath Studio.In the Ribbon Panel go to the Manage Package.

Step 2: Select All Packages.A list of activities package will appear.

Step 3: Search Excel, UiPath.Excel.Activities will appear. Click on install.

Step 4: Excel Plugin is installed.

Output:



UiPath.Excel.Activities by UiPath — v2.22.3, v2.23.0-preview, Prerelease
Execute Excel related operations using the Open Office XML format (XLSX) or Excel.Interop

UiPath.UIAutomation.Activities by UiPa — v23.10.7, v23.12.0-preview, Prerelease
IMPORTANT: This package version requires Studio 21.10 or higher. On lower versions some functionality may be...

UiPath.System.Activities by UiPath — v23.10.3, v23.12.0-preview, Prerelease
IMPORTANT: This package version requires Studio v22.10.5 or above. Installing it on versions lower than the...

UiPath.Testing.Activities by UiPath — v23.10.0, v23.12.0-preview, Prerelease
IMPORTANT: This package version requires Studio v2020.4 or above, as well as an Orchestrator instance running...

UiPath.MailActivities by UiPath — v1.21.1, v1.22.0-preview
IMPORTANT: This package version requires

UiPath.Excel.Activities
Installed: 2.22.3
Version: 2.23.0-preview
Runtime Rule: Strict
Description: Execute Excel related operations using the Open Office XML format (XLSX) or Excel.Interop
Version: 2.23.0-preview
Author(s): UiPath
License: View License Information
Date Published: 12/19/2023 9:45:31 PM
Project URL: View Project Information
Tags: UiPathActivities Activities UiPathStudioX

- **Read Cell**

Steps: -

Step 1: Drag and drop the Sequence Activity.

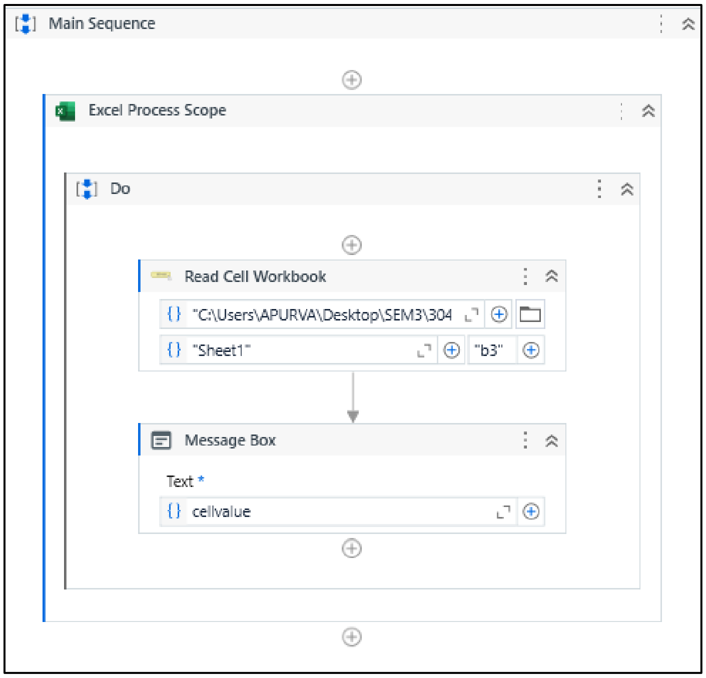
Step 2: Drag and drop Excel Process Scope Activity in the Sequence Activity.

Step 3: In Excel Process Scope drag and drop the Read Cell Workbook Activity.

Step 4: Create an excel file with some data and save it. Give a desired path of excel file in the Read Cell Workbook. Also give the “sheet name” (Sheet1) and assign the cell you want to read(“b2”). Create a variable cellvalue by pressing ctrl+k. In the output filed of Rad cell Activity write created variable: cellvalue

Step 5: Add Message Box Activity and connect it to Read Cell Workbook. In the Text field, type variable “cellvalue” created in Step 5.

Step 6: Run.



Main Sequence

Excel Process Scope

Do

Read Cell Workbook

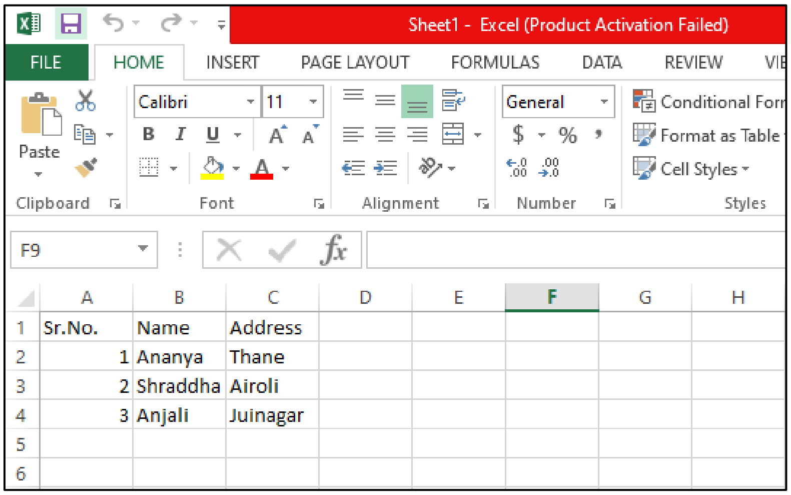
"C:\Users\APURVA\Desktop\SEM3\304

"Sheet1" "b3"

Message Box

Text *

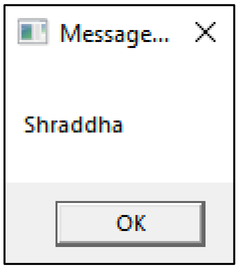
cellvalue



Sheet1 - Excel (Product Activation Failed)

	A	B	C	D	E	F	G	H
1	Sr.No.	Name	Address					
2	1	Ananya	Thane					
3	2	Shraddha	Airoli					
4	3	Anjali	Juinagar					
5								
6								

Output:



Message...

Shraddha

v. Word Plugin

Steps: -

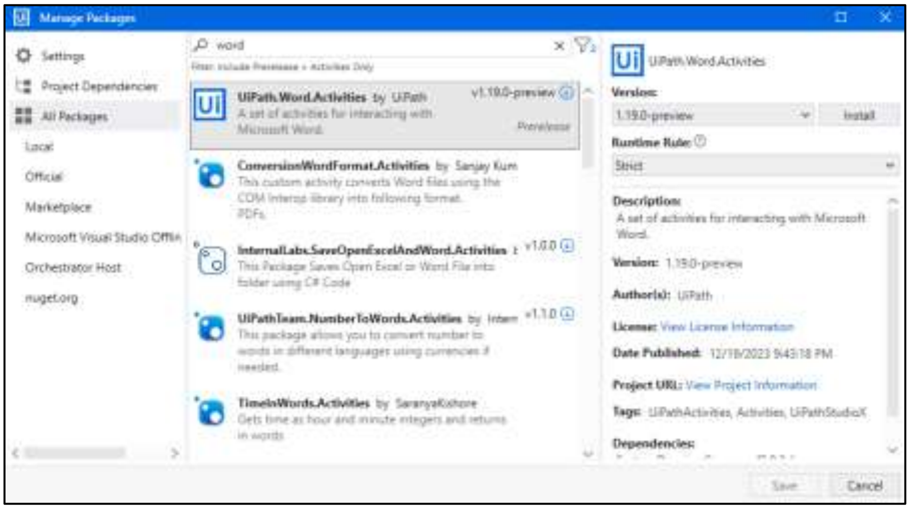
Step 1: Open UiPath Studio.In the Ribbon Panel go to the Manage Package.

Step 2: Select All Packages.A list of activities package will appear.

Step 3: Search word, UiPath.Word.Activities will appear. Click on install.

Step 4: Mail Plugin is installed.

Output:



Manage Packages

word

Filter: Include Prerelease + Activities Only

UiPath.Word.Activities by UiPath v1.19.0-preview
A set of activities for interacting with Microsoft Word.
Prerelease

ConversionWordFormat.Activities by Sanjay Kum
This custom activity converts Word files using the COM Interop library into following format. PDFs.

InternalLabs.SaveOpenExcelAndWord.Activities v1.0.0
This Package Saves Open Excel or Word File into folder using C# Code

UiPathTeam.NumberToWords.Activities by Intern v1.1.0
This package allows you to convert number to words in different languages using currencies if needed.

TimeInWords.Activities by SaranyaKishore
Gets time as hour and minute integers and returns in words

UiPath.Word.Activities

Version: 1.19.0-preview

Runtime Rule: Strict

Description: A set of activities for interacting with Microsoft Word.

Version: 1.19.0-preview

Author(s): UiPath

License: View License Information

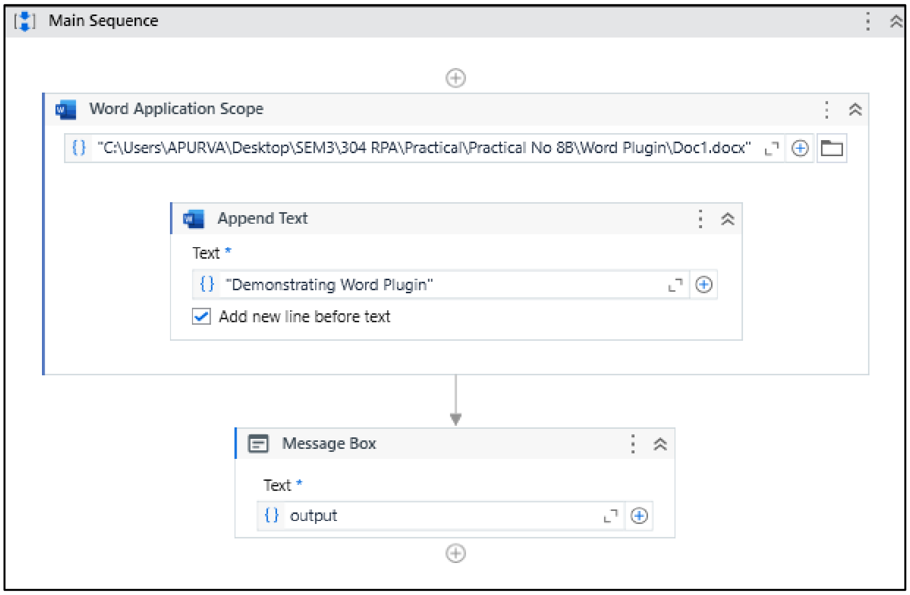
Date Published: 12/18/2023 9:43:18 PM

Project URL: View Project Information

Tags: UiPathActivities, Activities, UiPathStudioX

Dependencies:

Example



Main Sequence

Word Application Scope

"C:\Users\APURVA\Desktop\SEM3\304 RPA\Practical\Practical No 8B\Word Plugin\Doc1.docx"

Append Text

Text *

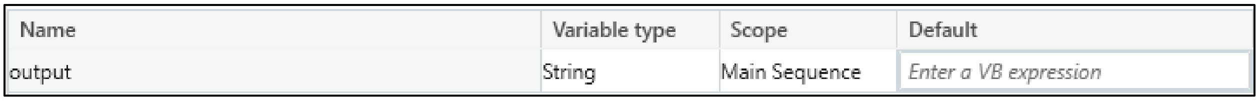
"Demonstrating Word Plugin"

☑ Add new line before text

Message Box

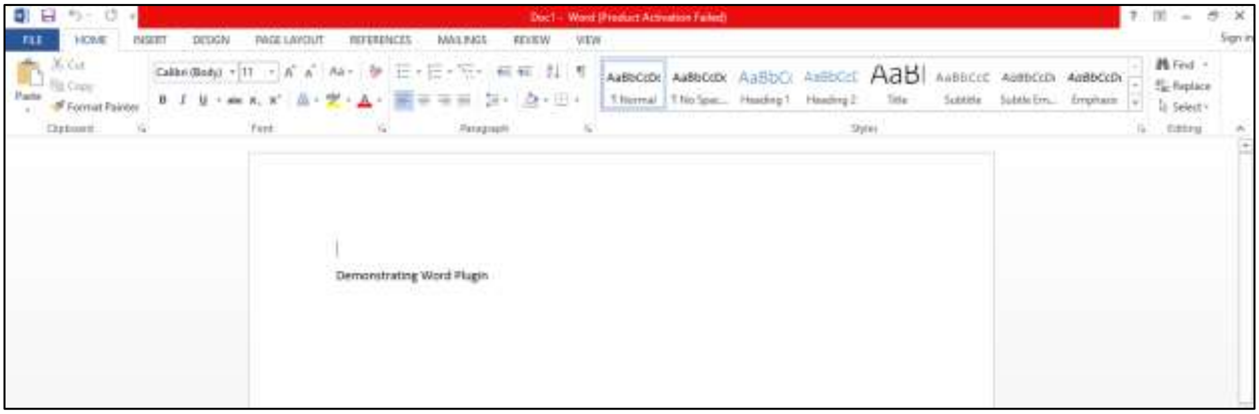
Text *

output



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

Output:



Demonstrating Word Plugin

vi. Credential Plugin

Steps: -

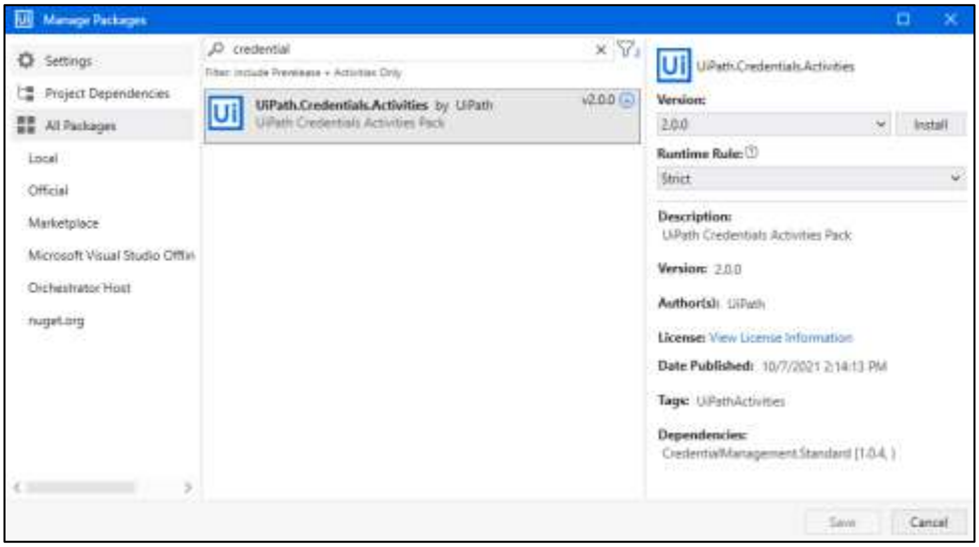
Step 1: Open UiPath Studio.In the Ribbon Panel go to the Manage Package.

Step 2: Select All Packages.A list of activities package will appear.

Step 3: Search Credentials, UiPath.Credentials.Activities will appear. Click on install.

Step 4: Credentials Plugin is installed.

Output:



credential

Filter: include Prerelease + Activities Only

UiPath.Credentials.Activities by UiPath v2.0.0
UiPath Credentials Activities Pack

UiPath.Credentials.Activities

Version: 2.0.0

Runtime Rule: Strict

Description:
UiPath Credentials Activities Pack

Version: 2.0.0

Author(s): UiPath

License: View License Information

Date Published: 10/7/2021 2:14:13 PM

Tags: UiPathActivities

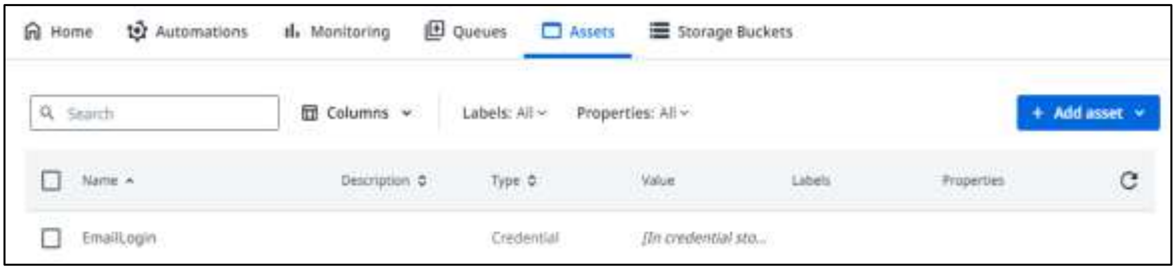
Dependencies:
CredentialManagement.Standard [1.0.4,)

[a] Set Credential

Steps: -

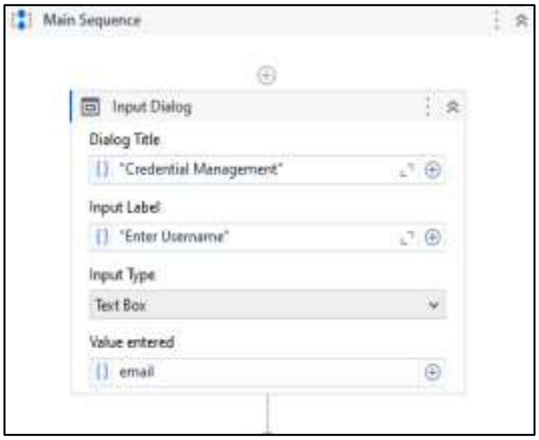
Step 1: Drag and drop “Sequence” in the Activity.

Step 2: Create a new Credential in Orchestrator.

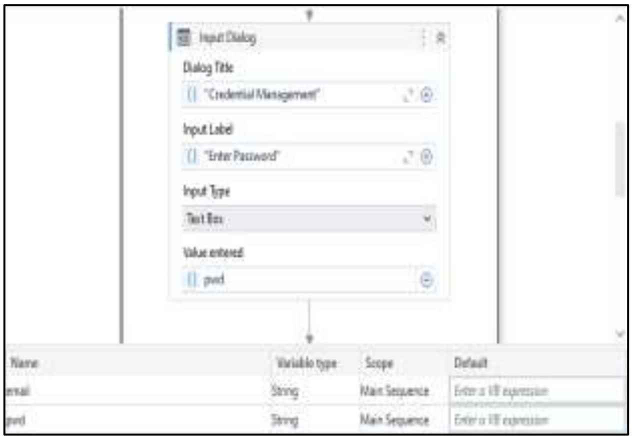


Name	Description	Type	Value	Labels	Properties
EmailLogin		Credential	[In credential sto...		

Step 3: Drag and drop two Input dialog boxes inside the Sequence. Set one input Dialog box for the username and with output variable as “email” and the other input Dialog box for the Password with the output variable as “pwd” and isPassword Property checked.



Dialog Title: "Credential Management"
Input Label: "Enter Username"
Input Type: Text Box
Value entered: email

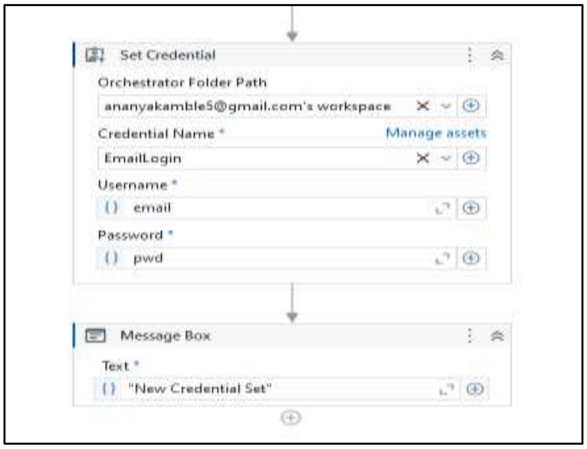


Dialog Title: "Credential Management"
Input Label: "Enter Password"
Input Type: Text Box
Value entered: pwd

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

Step 4: Drag and drop the “Set Credential” activity inside the Sequence. Select the Orchestrator Folder Path and the Credential name. Enter the Username and Password Variables.

Step 5: Drag and drop “Message Box” activity inside the body and enter the output statement.

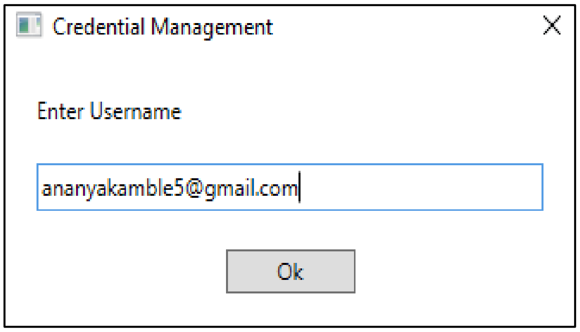


Orchestrator Folder Path: ananyakamble5@gmail.com's workspace
Credential Name *: EmailLogin
Username *: email
Password *: pwd

Text *: "New Credential Set"

Step 6: Click the Run button and see the result.

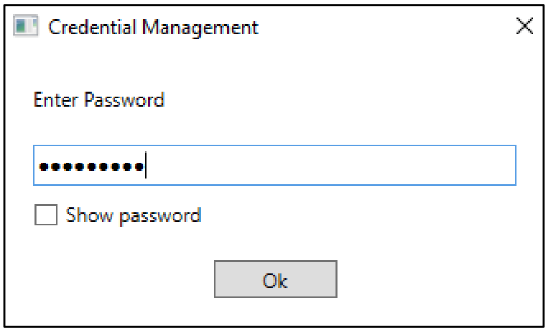
Output:



Credential Management

Enter Username

ananyakamble5@gmail.com

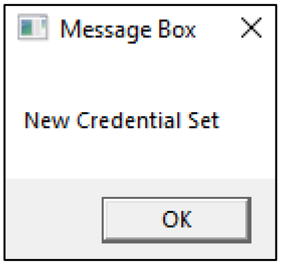


Credential Management

Enter Password

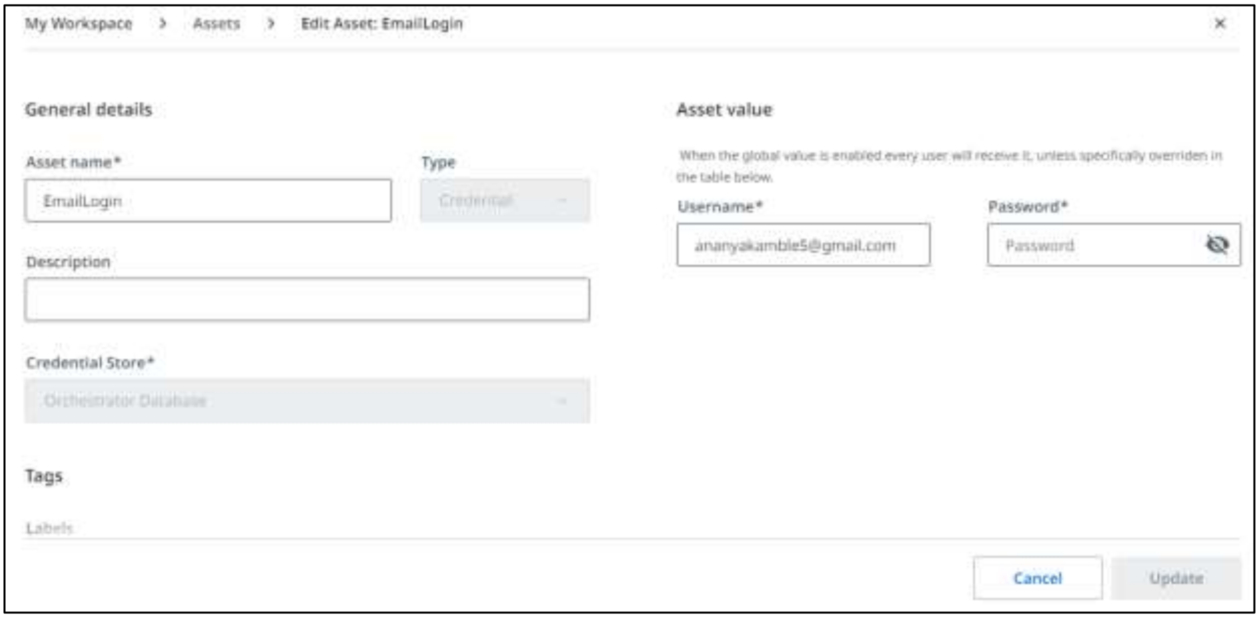
●●●●●●●●●

□ Show password



Message Box

New Credential Set



My Workspace > Assets > Edit Asset: EmailLogin

General details

Asset name*: EmailLogin

Type: Credential

Description:

Credential Store*: Orchestrator Database

Tags

Labels

Asset value

When the global value is enabled every user will receive it, unless specifically overriden in the table below.

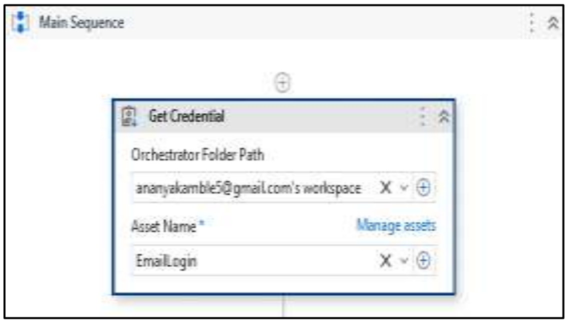
Username*: ananyakamble5@gmail.com

Password*: Password

[b] Get Credential

Step 1: Drag and drop “Sequence” in the Activity.

Step 2: Drag and drop “Get Credential” activity inside the Sequence. Select the Orchestrator Folder Path and the Credential name. Create new variables for username and password and map the Username and Password Outputs.

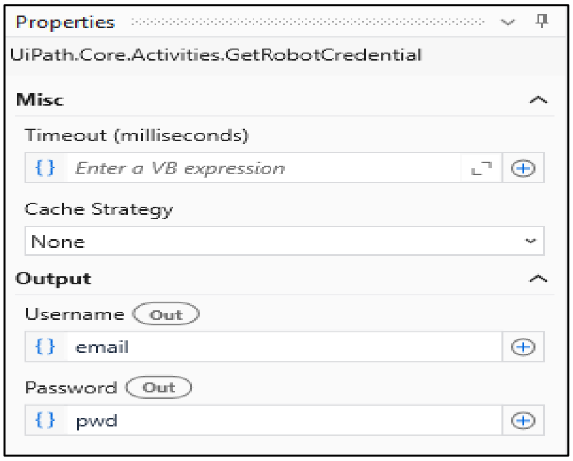


Main Sequence

Get Credential

Orchestrator Folder Path: ananyakamble5@gmail.com's workspace

Asset Name *: EmailLogin



Properties

UiPath.Core.Activities.GetRobotCredential

Misc

Timeout (milliseconds): Enter a VB expression

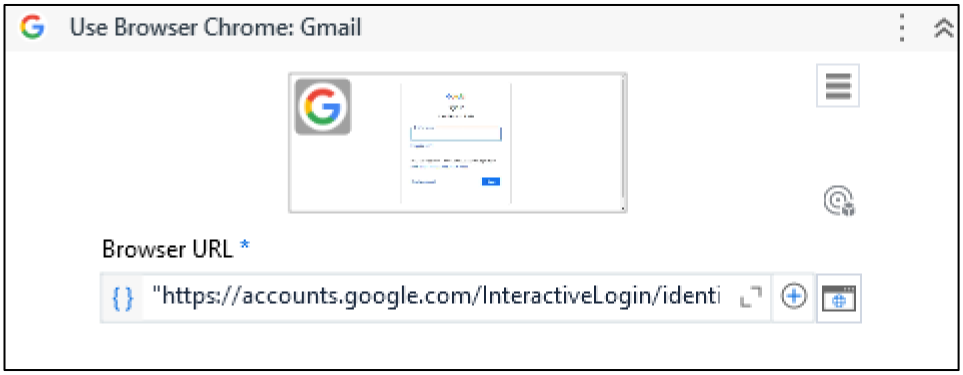
Cache Strategy: None

Output

Username (Out): email

Password (Out): pwd

Step 3: Search for “Use Browser/ Application” Activity in the Activities Panel and drag it inside the sequence workflow. Indicate the screen you want to include in the workflow.

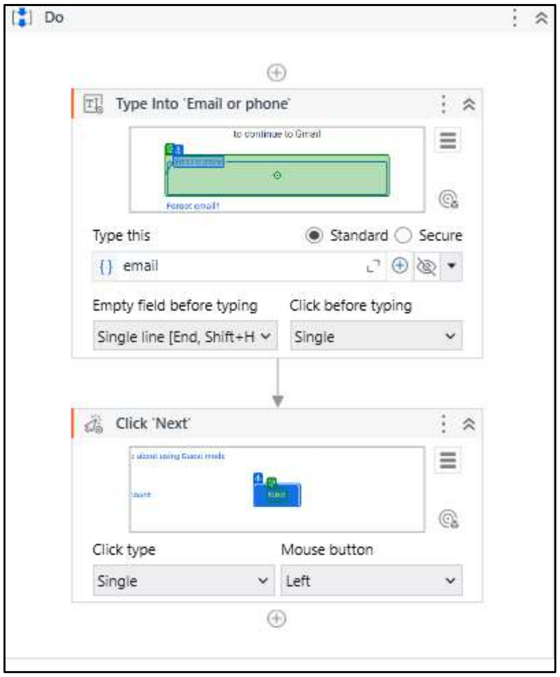


Use Browser Chrome: Gmail

Browser URL *: "https://accounts.google.com/InteractiveLogin/identi

Step 4: drag and drop “Type Into” Activity inside the sequence workflow. Indicate the Element you want to click on and Click on Save & Close.

Step 5: Search for “Click” Activity in the Activities Panel and drag it inside the sequence. Indicate the “Next” button.



Do

Type Into 'Email or phone'

Type this ● Standard ○ Secure

{} email

Empty field before typing: Single line [End, Shift+H

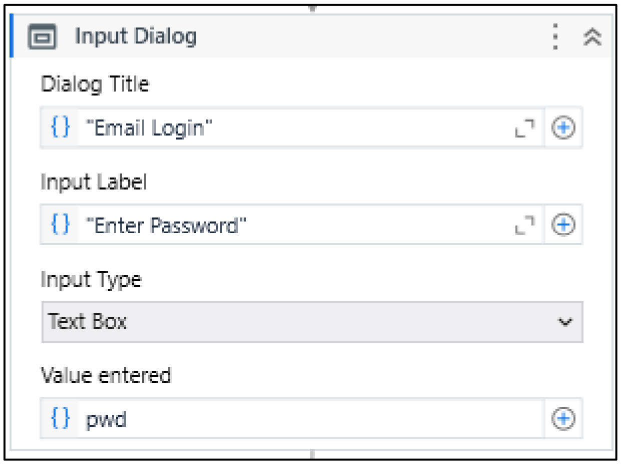
Click before typing: Single

Click 'Next'

Click type: Single

Mouse button: Left

Step 6: Search for “Input dialog” in the Search panel of the Activities panel. Drag and drop Input dialog activity inside the Sequence. Write the appropriate message on the Label of the Input dialog. Create a variable and specify the variable in the Result property of the Input dialog box. Check the IsPassword property.



Input Dialog

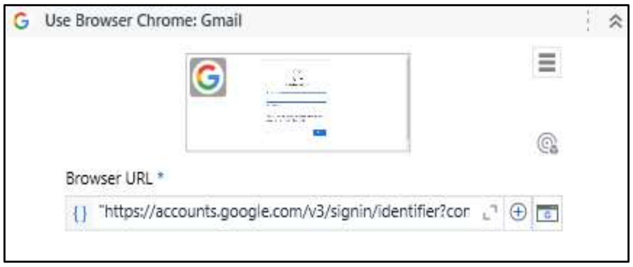
Dialog Title: {} "Email Login"

Input Label: {} "Enter Password"

Input Type: Text Box

Value entered: {} pwd

Step 7: Search for “Use Browser/ Application” Activity in the Activities Panel and drag it inside the sequence workflow. Indicate the screen you want to include in the workflow.



Use Browser Chrome: Gmail

Browser URL *

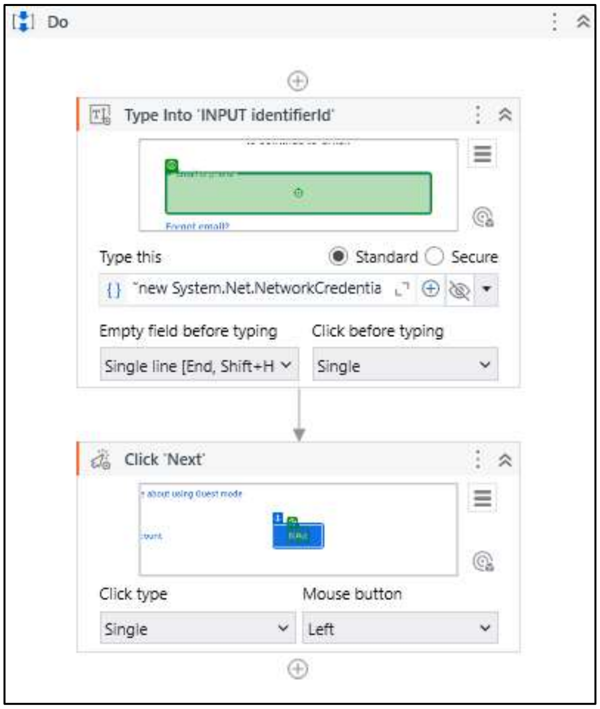
{} "https://accounts.google.com/v3/signin/identifier?cor

Step 8: Search for “Type Into” Activity in the Activities Panel and drag it inside the sequence workflow. Indicate the Element you want to click on and Click on Save & Close.

Step 9: Select the Secure Radio Button. Set the variable as Secure String using the code – “new System.Net.NetworkCredential(String.Empty, pwd).SecurePassword”.

Step 10: Search for “Click” Activity in the Activities Panel and drag it inside the sequence. Indicate the “Next” button.

Step 11: Click the Run Button and see the results.



Do

Type Into 'INPUT identifierId'

Type this ● Standard ○ Secure

{} "new System.Net.NetworkCredentia

Empty field before typing: Single line [End, Shift+H

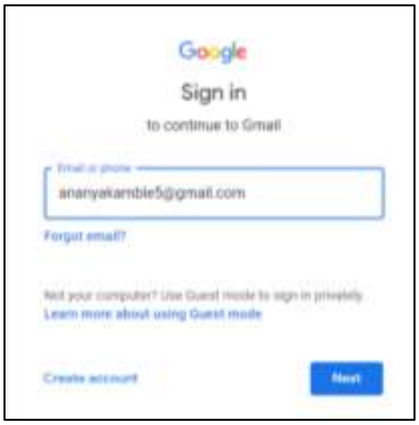
Click before typing: Single

Click 'Next'

Click type: Single

Mouse button: Left

Output:



Google

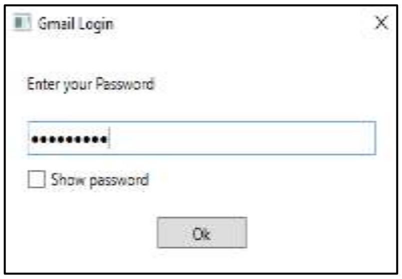
Sign in

to continue to Gmail

Email or phone: ananyakamble5@gmail.com

Forgot email?

Not your computer? Use Guest mode to sign in privately.
Learn more about using Guest mode

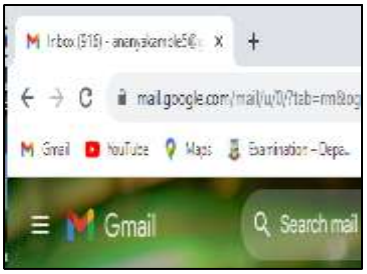


Gmail Login

Enter your Password

•••••••••

□ Show password

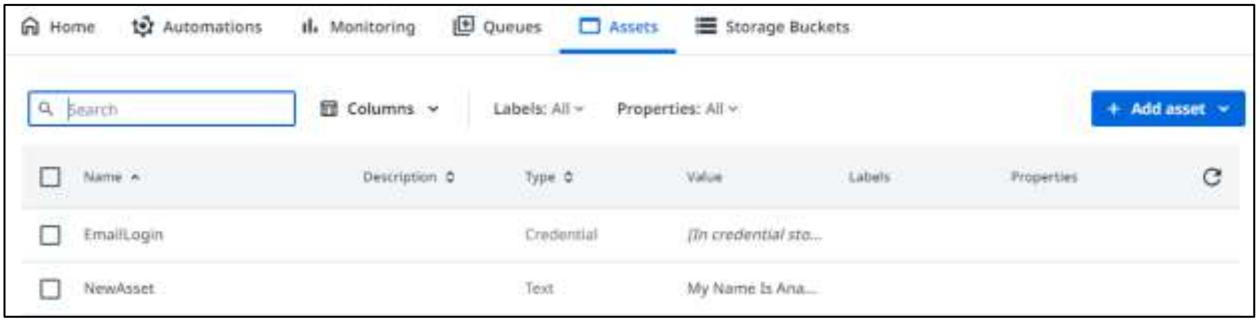


Inbox (919) - ananyakamble5@
mail.google.com/mail/u/0/?tab=rm&og
Gmail
YouTube
Maps
Examination - Depa...
Gmail
Search mail

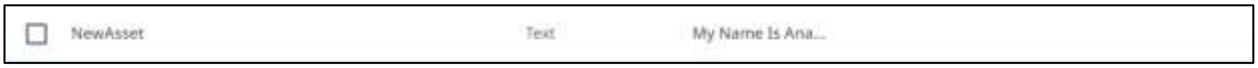
[c] Set Asset

Step 1: Drag and drop “Sequence” Activity .

Step 2: Create a new Asset in Orchestrator.



	Name	Description	Type	Value	Labels	Properties
□	EmailLogin		Credential	[In credential sto...		
□	NewAsset		Text	My Name Is Ana...		

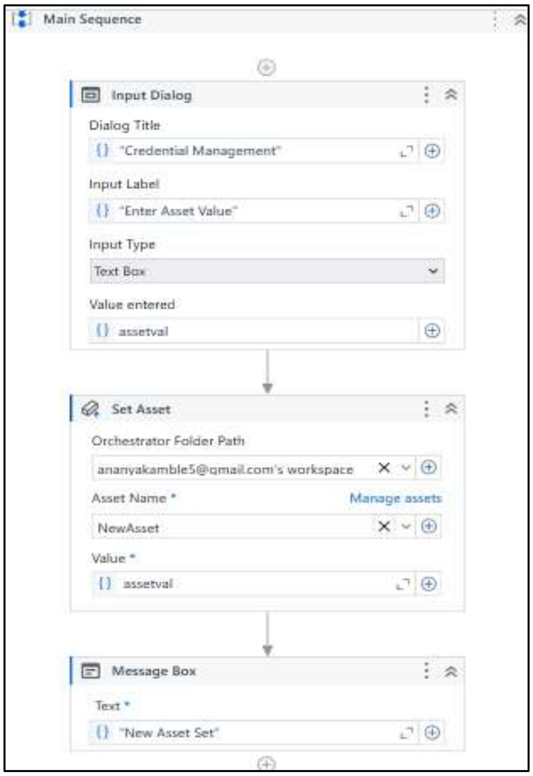


□	NewAsset	Text	My Name Is Ana...

Step 3: Add “Input Dialog Box” inside the Sequence. Create a new variable to store Asset Value.

Step 4: Drag and drop “Set Asset” activity inside the Sequence. Select the Orchestrator Folder Path and the Asset name. Enter the Asset Value Variable.

Step 5: Drag and drop “Message Box” activity inside the body and enter the output statement.

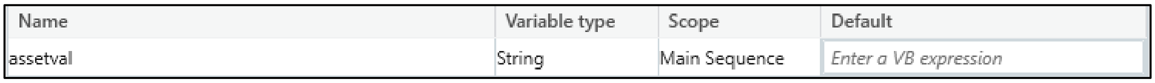

Main Sequence

Input Dialog
Dialog Title: "Credential Management"
Input Label: "Enter Asset Value"
Input Type: Text Box
Value entered: assetval

Set Asset
Orchestrator Folder Path: ananyakamble5@gmail.com's workspace
Asset Name *: NewAsset

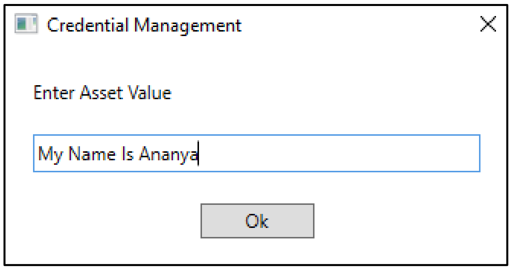
Value *: assetval

Message Box
Text *: "New Asset Set"



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

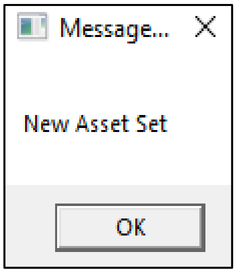
Output:



Credential Management

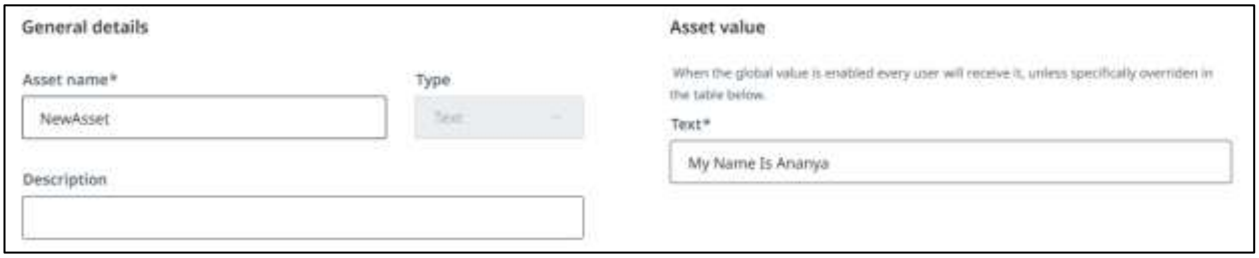
Enter Asset Value

My Name Is Ananya



Message...

New Asset Set



General details

Asset name*: NewAsset

Type: Text

Description:

Asset value

When the global value is enabled every user will receive it, unless specifically overriden in the table below.

Text*: My Name Is Ananya

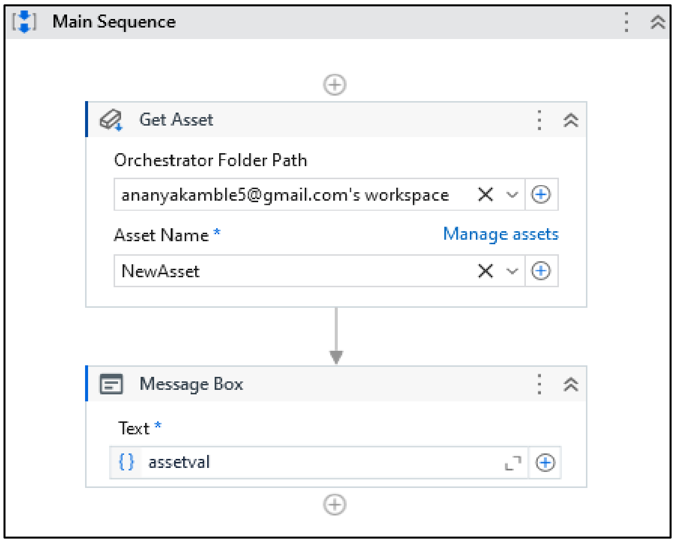
[d] Get Asset

Step 1: Drag and drop “Sequence” Activity.

Step 2: Drag and drop “Get Asset” activity inside the Sequence. Select the Orchestrator Folder Path and the Asset name. Create new variables for Asset Value and map Get Asset Output.

Step 3: Drag and drop “Message Box” activity inside the body and enter the output variable.

Step 4: Click the Run button and see the result.



Main Sequence

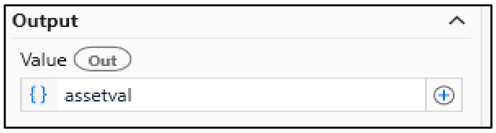
Get Asset

Orchestrator Folder Path: ananyakamble5@gmail.com's workspace

Asset Name *: NewAsset

Message Box

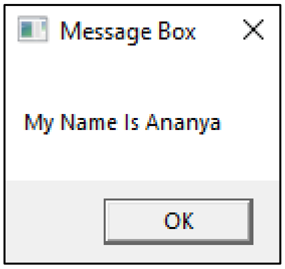
Text *: assetval



Output

Value Out: assetval

Output:



My Name Is Ananya

Conclusion:

The practical to install and demonstrate the processes using plug-ins in UiPath is successfully completed.

PRACTICAL NO. 9

A. Aim: Automate the process of Send Mail Event.

Steps: -

Step 1: Drag and drop a sequence activity.

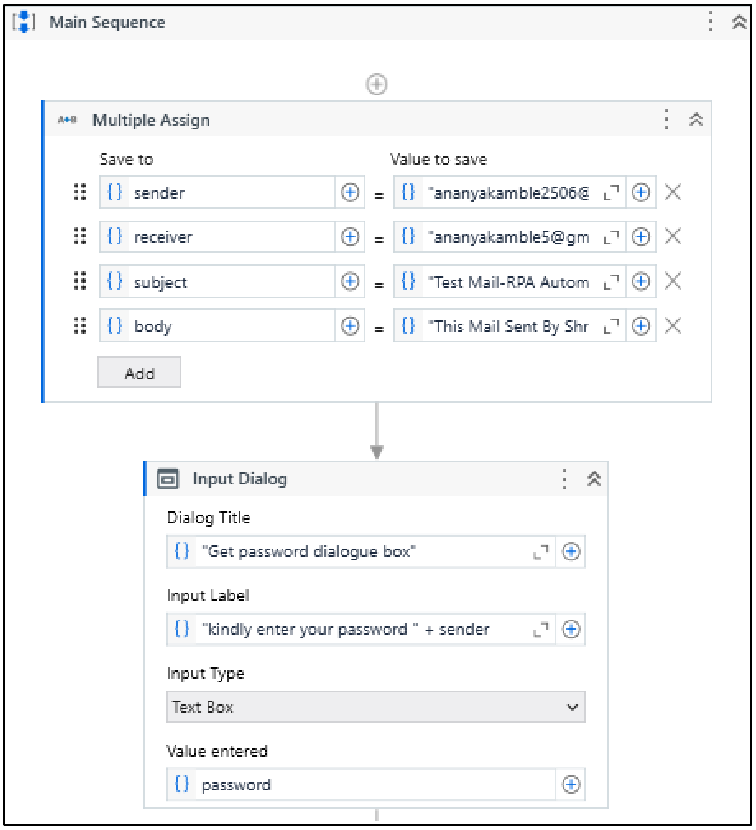
Step 2: Create five variables: - sender, receiver, password, subject, body.

Step 3: Add Multiple Assign activity under sequence activity.

Step 4: Then assign value to variables as shown in the snapshot.

Step 5: Add Input Dialog activity below multiple assign activity to get the password of sender's email from user.

Step 6: Take send SMTP Mail Message activity and in text boxes enter the previously created variable names as shown in snapshot.



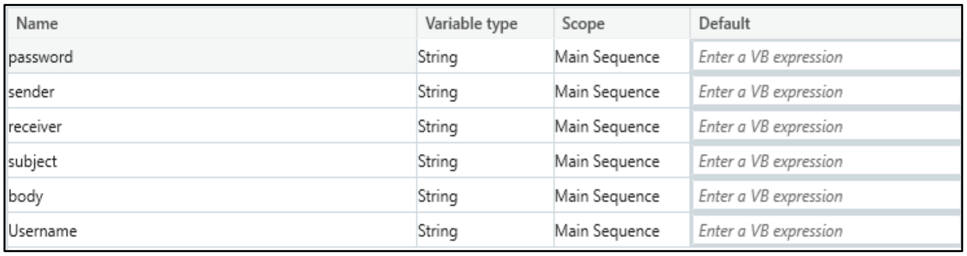
Save to	Value to save
sender	"ananyakamble2506@
receiver	"ananyakamble5@gm
subject	"Test Mail-RPA Autom
body	"This Mail Sent By Shr

Dialog Title: "Get password dialogue box"

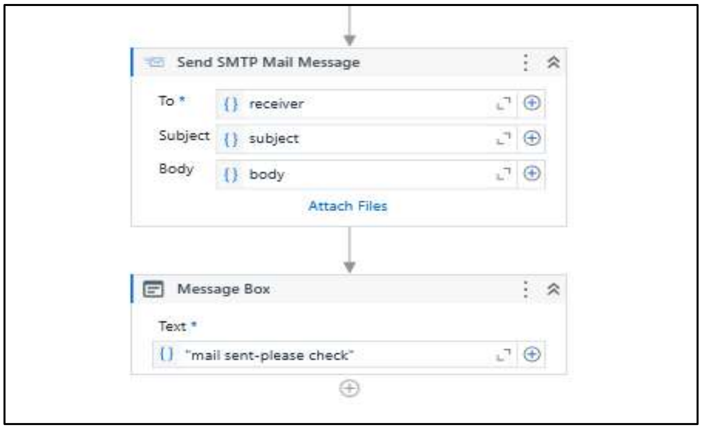
Input Label: "kindly enter your password " + sender

Input Type: Text Box

Value entered: password



Name	Variable type	Scope	Default
password	String	Main Sequence	Enter a VB expression
sender	String	Main Sequence	Enter a VB expression
receiver	String	Main Sequence	Enter a VB expression
subject	String	Main Sequence	Enter a VB expression
body	String	Main Sequence	Enter a VB expression
Username	String	Main Sequence	Enter a VB expression



Send SMTP Mail Message

To *	receiver
Subject	subject
Body	body

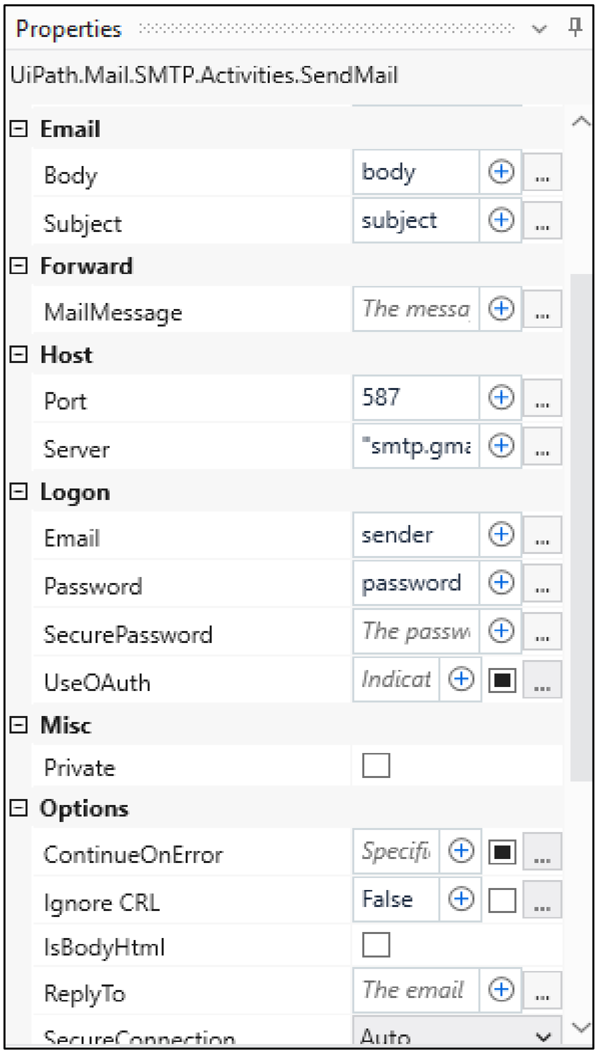
Attach Files

Message Box

Text *

"mail sent-please check"

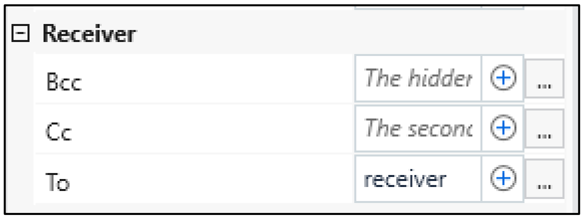
Step 7: Then in properties panel of SMTP Mail Message activity fill the text boxes of Email, Host, Logon and Receiver as shown in following snapshot.



Properties

UiPath.Mail.SMTP.Activities.SendMail

Email	
Body	body
Subject	subject
Forward	
MailMessage	The messa
Host	
Port	587
Server	"smtp.gma
Logon	
Email	sender
Password	password
SecurePassword	The passw
UseOAuth	Indicat ■
Misc	
Private	□
Options	
ContinueOnError	Specifi ■
Ignore CRL	False □
IsBodyHtml	□
ReplyTo	The email
SecureConnection	Auto



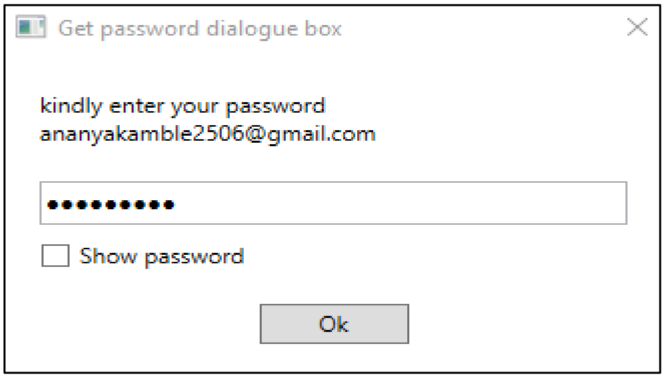
Receiver	
Bcc	The hidder
Cc	The seconc
To	receiver

Step 8: At last drag and drop Message Box activity to check the mail is sent.

Step 9: Debug file.

Output:

Enter the password of sender's email:



Get password dialogue box

kindly enter your password
ananyakamble2506@gmail.com

••••••••••

□ Show password

B. Aim: Automate the process of launching an assistant bot on keyboard event

- **Hot Key**

Steps: -

Step 1: Open UiPath Studio.

Step 2: Start a BlankProcess. Give the BlankProcess a name.

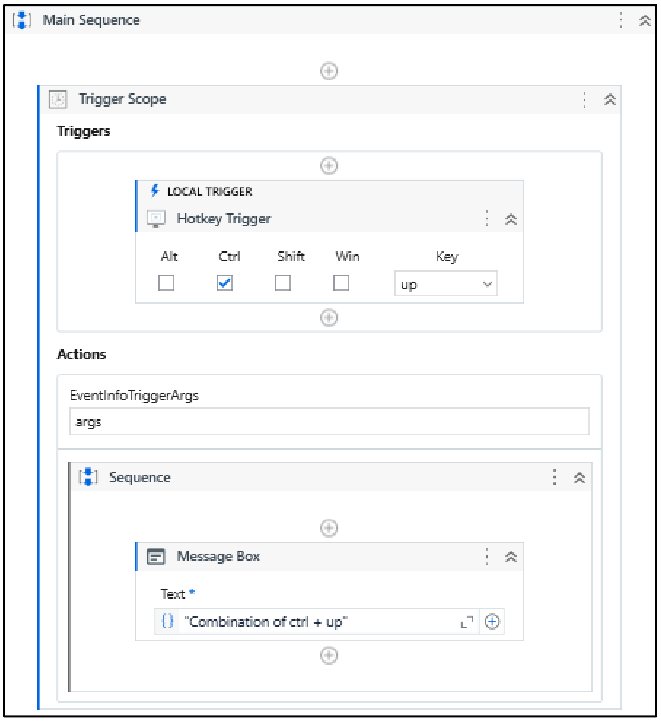
Step 3: Drag and drop a Sequence Activity.

Step 4: Add Trigger Scope Activity. In the Trigger Action drag and drop a Hotkey Trigger.

Step 5: Select ctrl + up key.

Step 6: For Actions drag and drop the Message Box Activity. In the text field type “Combination of ctrl + up”.

Step 7: Run.

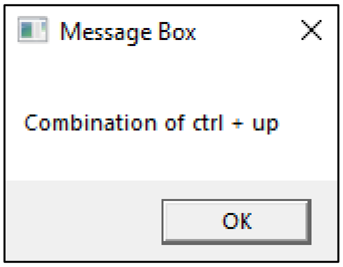


Alt □ Ctrl ☑ Shift □ Win □ Key: up

EventInfoTriggerArgs: args

Text *: "Combination of ctrl + up"

Output:



Combination of ctrl + up

C. Aim: Demonstrate the Exception Handling in UiPath Studio.

Steps: -

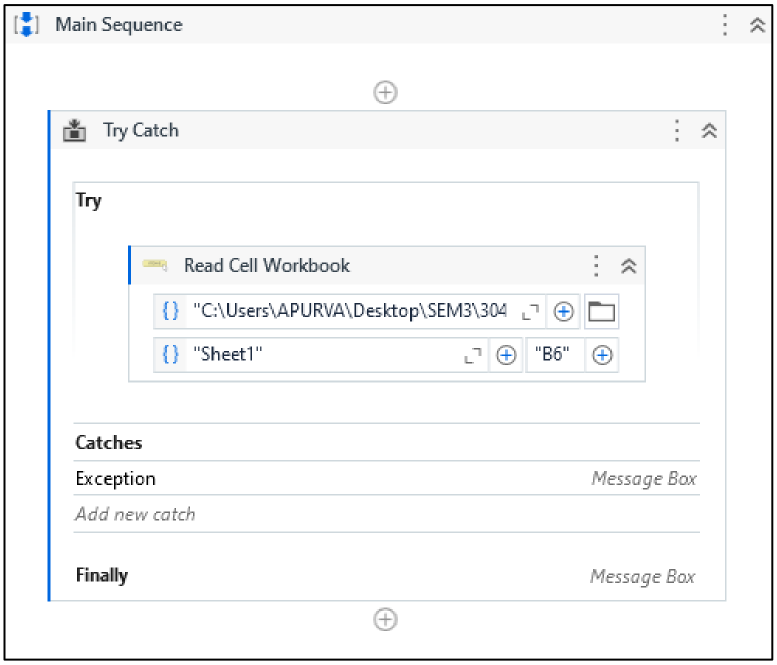
Step 1: Open UiPath Studio.

Step 2: Start a BlankProcess. Give the BlankProcess a name.

Step 3: Drag and drop Sequence Activity.

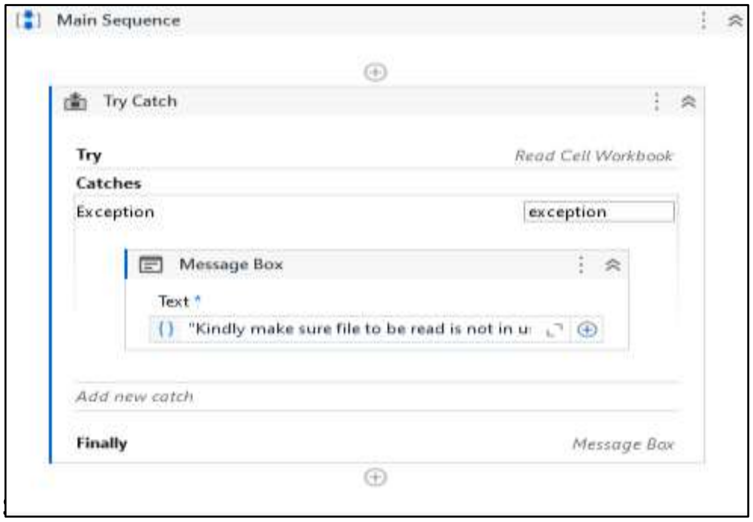
Step 4: Now drag and drop Try Catch Activity from the Activity Panel in the Sequence Activity.

Step 5: In Try Action take a Read Cell Workbook Activity. Create an excel file and save it. Give a desired path of excel file and assign sheet name “Sheet1”. Also assign cell value(“B6”). Create a variable output by pressing ctrl + k in property panel.

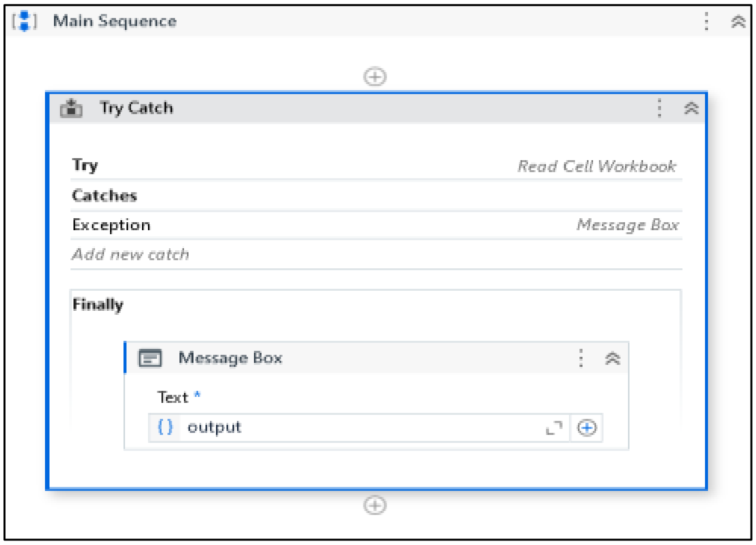


Step 6: In Catches Action select System.Exception from the list of exceptions.

Step 7: Drag and drop Message Box in Catch Action and in the text field type “Kindly make sure file to be read is not in use”.



Step 8: In Finally Action drag and drop the Message Box Activity. In the text field type the variable output created in Step 5.


Main Sequence

Try Catch

Try: Read Cell Workbook

Catches

Exception: Message Box

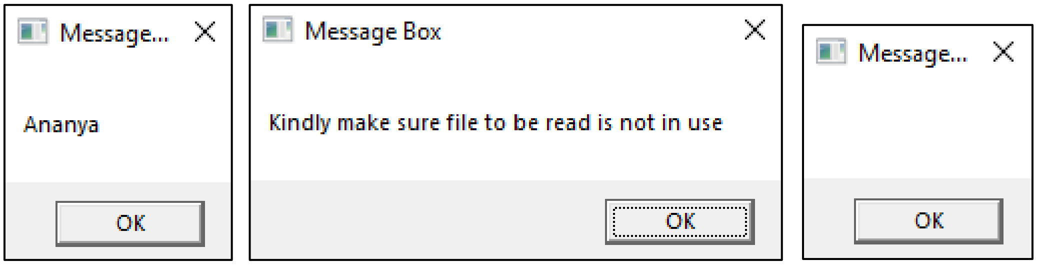
Add new catch

Finally

Message Box

Text *: output

Output:


Message...

Ananya

OK

Message Box

Kindly make sure file to be read is not in use

OK

Message...

OK

Conclusion:

The practical to automate the process of launching assistant bot on a keyboard event using UiPath was successfully executed.

PRACTICAL NO. 10

A. Aim: Automate the process of logging and taking screenshots in UiPath Studio.

Steps: -

Step 1: Open UiPath Studio.

Step 2: Start a BlankProcess. Give the BlankProcess a name.

Step 3: Drag and drop Sequence Activity.

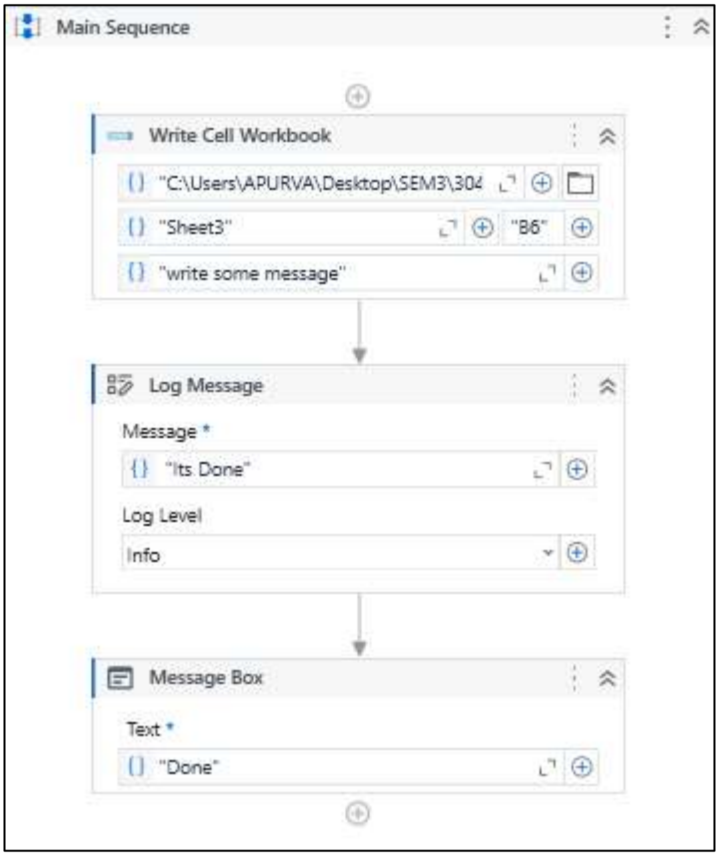
Step 4: Now drag and drop Write Cell Workbook Activity from the Activity Panel in the Sequence Activity.

Step 5: Create an excel file and save it. Give a desired path of excel file and assign sheet name. Also assign cell value(“B6”). In the text property type anything you want.

Step 6: Take a Log Message Activity in the Sequence Activity and connect it with the Write Cell Workbook Activity. In the log level select “Info” from the drop-down list and in Text field type “Done”.

Step 7: Run.

Step 8: Logs details can be viewed in Open Logs in Debug option of Ribbon Panel.



Main Sequence

Write Cell Workbook

"C:\Users\APURVA\Desktop\SEM3\304

"Sheet3" "B6"

"write some message"

Log Message

Message *

"Its Done"

Log Level

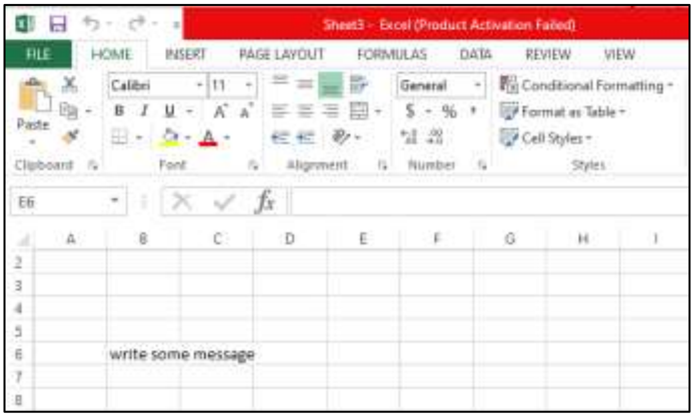
Info

Message Box

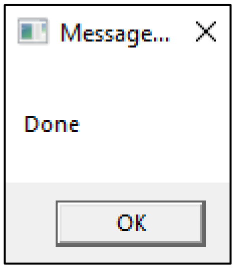
Text *

"Done"

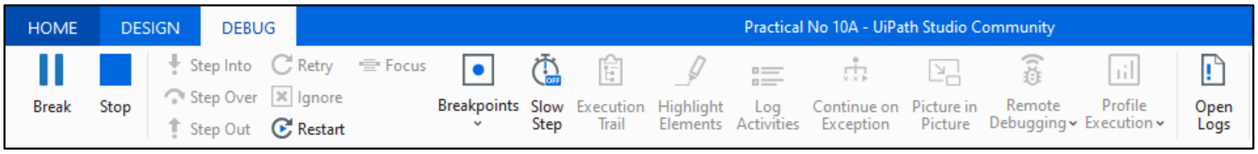
Output:



write some message



Done



Conclusion:

The practical to automate the process of logging and taking screenshots was successfully executed.

B.Aim: Automate any process of using State Machine.

Steps: -

Step 1: Open UiPath Studio.

Step 2: Start a BlankProcess. Give the BlankProcess a name

Step 3: Drag and drop Flowchart Activity.

Step 4: There are two activities specific to State Machines. They are State and Final State

Step 5: The State activity consists of three sections Entry, Exit, and Transitions, while the Final State only contains Entry.

Step 6: State activity: Transitions contain three sections Trigger, Condition, and Action.

Step 7: Connect three state activity along with final activity.

Step 8: Name the three states activity as IDLE, COOLING, HEATING.

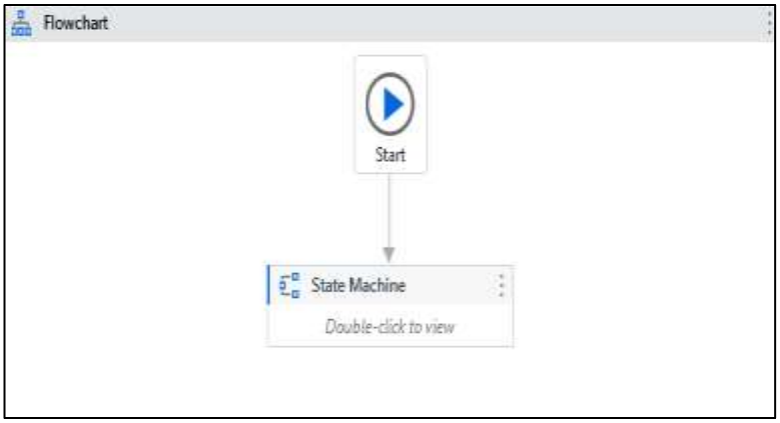
Step 9: Name the final activity as Power Off.

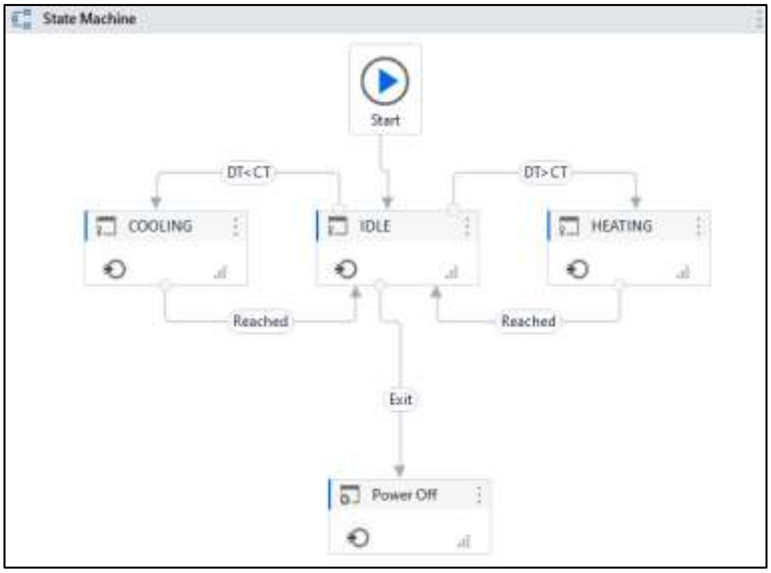
Step 10: Connect IDLE to COOLING and vice versa. A transition TI from IDLE to COOLING is named as DT<CT and transition T2 from COOLING to IDLE is named as Reached.

Step 11: Connect IDLE to HEATING and vice versa. A transition T3 from IDLE to HEATING is named as DT>CT and transition T4 from HEATING to IDLE is named as Reached.

Step 12: Connect IDLE to Power Off. A transition T5 from IDLE to Power Off is named as Exit.

Step 13: Create a variables of type integer(Int32) as Current_Temp and Desrired_Temp. Set the default value as 24 for Current_Temp and save it. Create another variable of type Boolean as IDLE and set the defaukt value as True and save it.

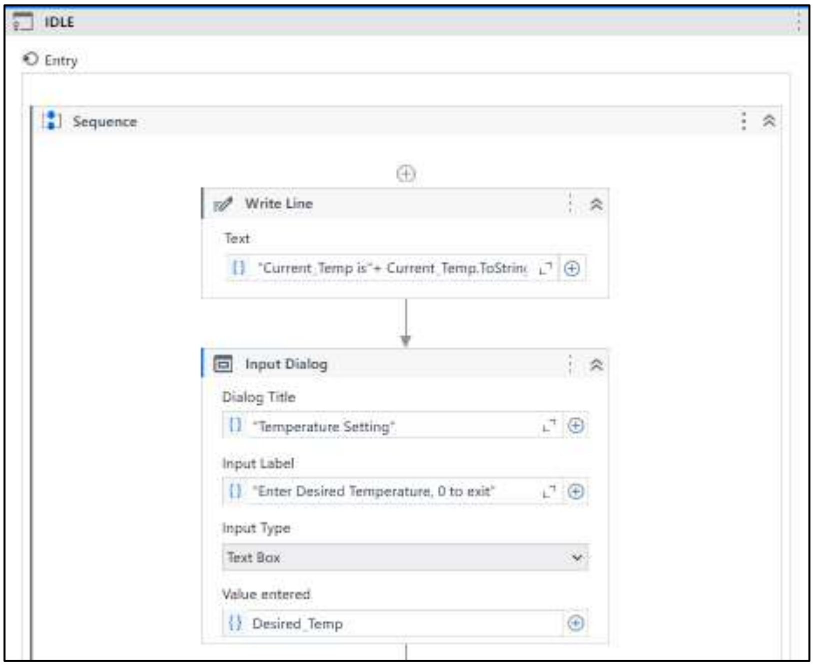




Step 14: In IDLE state for Entry drag and drop WriteLine Activity. In the text field type “Current_Temp is ” + Current_Temp.ToString + “Degree Celsius” .

Step 15: Connect an Input Dialog Box Activity to the WriteLine Activity. Give a dialog title, for Input Lable type “Enter Desired Temperature, 0 to exit”. Type Desired_Temp for value entered field.

Step 16: Now take If Activity under Input Dialog Box. Set the condition as Desired_temp<1 and drag and drop Assign Activity in the then part. Set IDLE = False for Assign Activity. Drag and drop Multiple Assign Activity for else part. Assign first value as Desired_Temp = if(Desired_Temp<15,15,Desired_Temp). Assign second value as Desired_Temp = if(Desired_Temp>30,30,Desired_Temp).


IDLE

Entry

Sequence

Write Line

Text: "Current_Temp is"+ Current_Temp.ToStrin

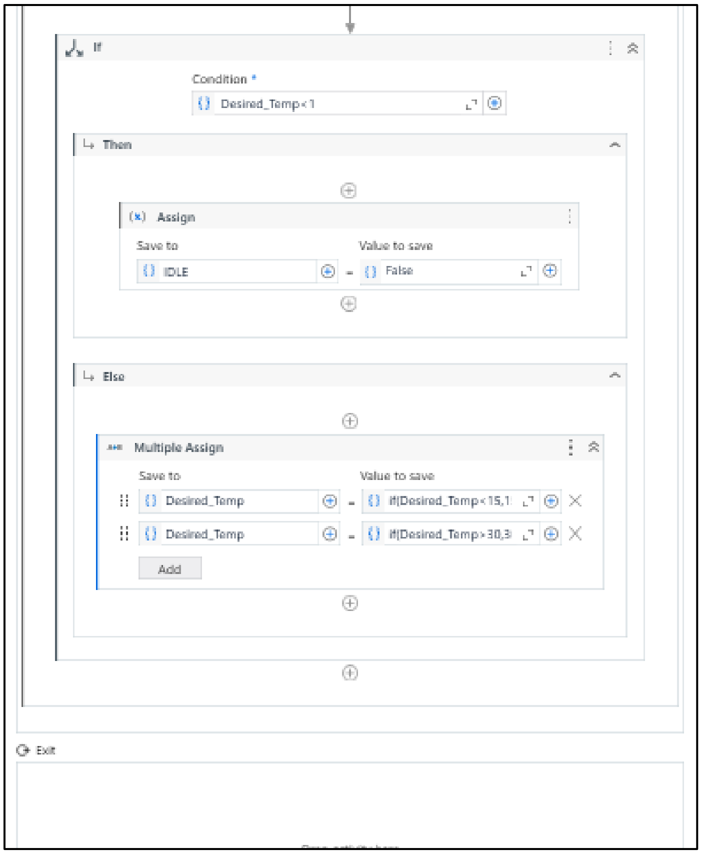
Input Dialog

Dialog Title: "Temperature Setting"

Input Label: "Enter Desired Temperature, 0 to exit"

Input Type: Text Box

Value entered: Desired_Temp

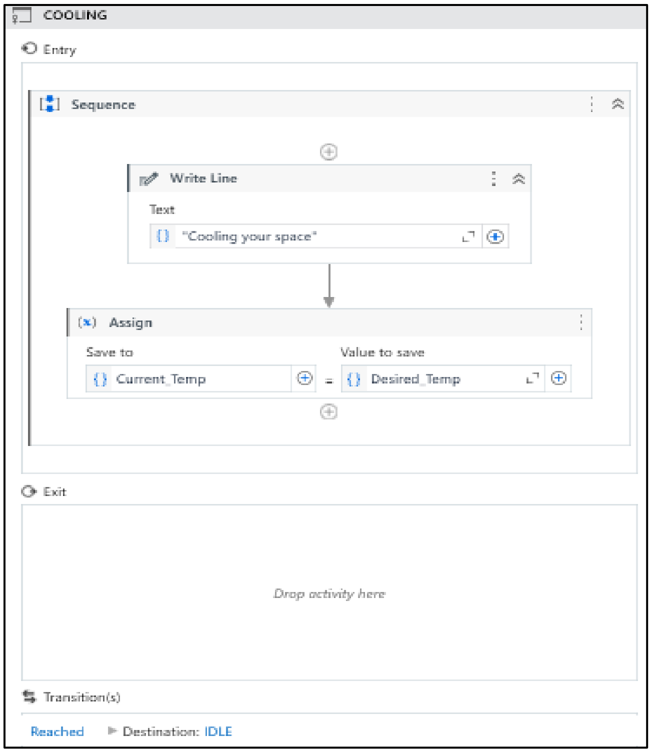


Condition *
Desired_Temp<1

Assign
Save to: IDLE = Value to save: False

Multiple Assign
Save to: Desired_Temp = Value to save: If(Desired_Temp<15,1
Save to: Desired_Temp = Value to save: If(Desired_Temp>30,3

Step 17: In COOLING state for Entry drag and drop WriteLine Activity. In the text field type “Cooling your Space”. Connect an Assign Activity to the WriteLine Activity. Set the value as Current_Temp = Desired_Temp field.



COOLING

Entry

Sequence

Write Line

Text

"Cooling your space"

Assign

Save to: Current_Temp

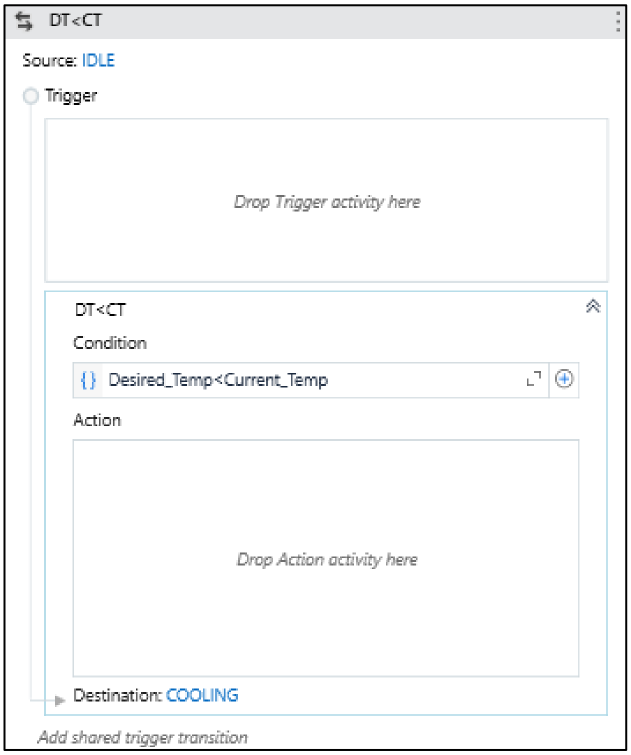
Value to save: Desired_Temp

Exit

Transition(s)

Reached ▶ Destination: IDLE

Step 18: The transition DT<CT set the condition as Desired_Temp<Current_Temp. Also for transition Reached set the condition as Current_Temp.Equals(Desired_Temp).



DT<CT

Source: IDLE

Trigger

Drop Trigger activity here

DT<CT

Condition

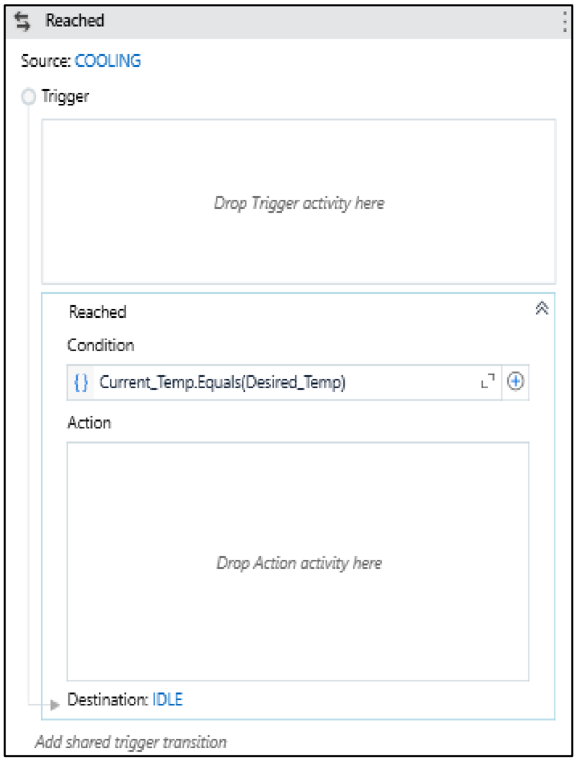
Desired_Temp<Current_Temp

Action

Drop Action activity here

Destination: COOLING

Add shared trigger transition



Reached

Source: COOLING

Trigger

Drop Trigger activity here

Reached

Condition

Current_Temp.Equals(Desired_Temp)

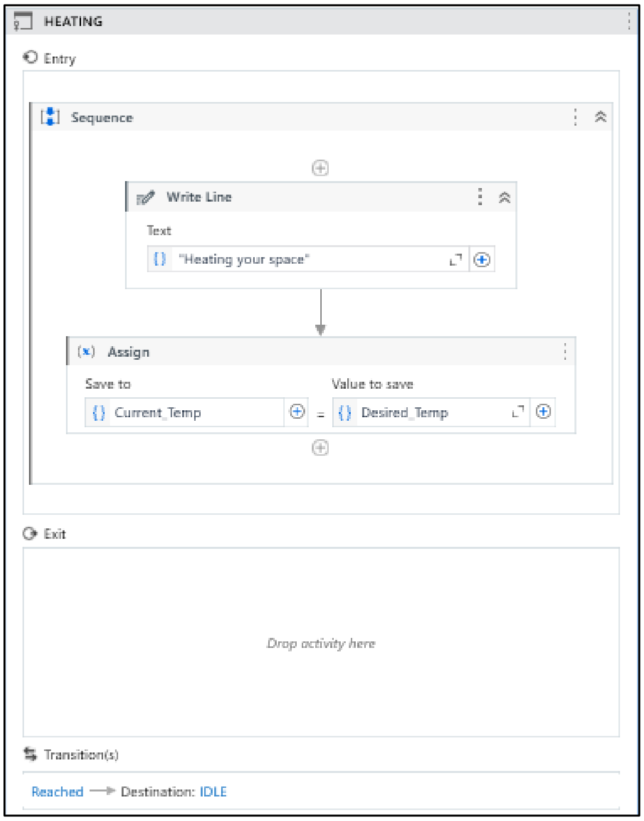
Action

Drop Action activity here

Destination: IDLE

Add shared trigger transition

Step 19: In HEATING state for Entry drag and drop WriteLine Activity. In the text field type "Heating your Space". Connect an Assign Activity to the WriteLine Activity. Set the value as Current_Temp = Desired_Temp field.


HEATING

Entry

Sequence

Write Line

Text: "Heating your space"

Assign

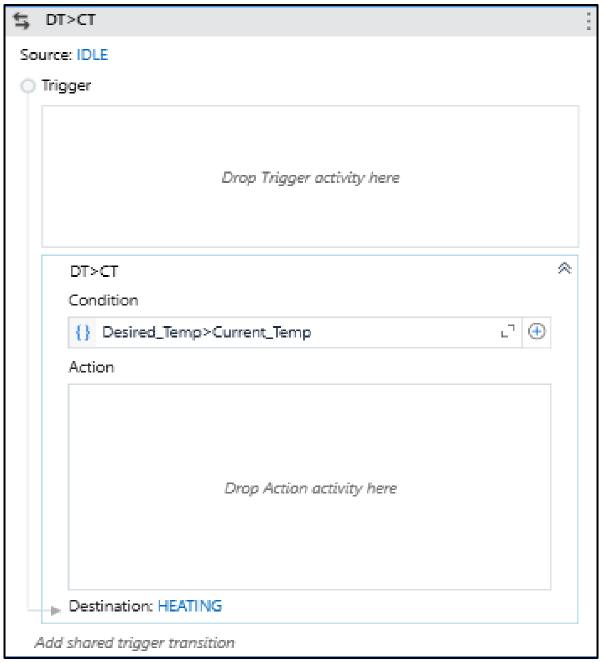
Save to: Current_Temp = Value to save: Desired_Temp

Exit

Transition(s)

Reached → Destination: IDLE

Step 20: The transition DT>CT set the condition as Desired_Temp>Current_Temp. Also for transition Reached set the condition as Current_Temp.Equals(Desired_Temp).


DT>CT

Source: IDLE

Trigger

Drop Trigger activity here

DT>CT

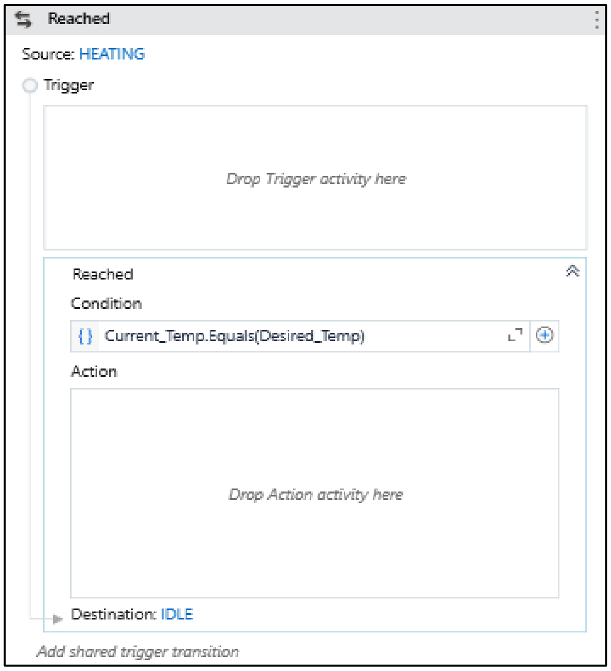
Condition: Desired_Temp>Current_Temp

Action

Drop Action activity here

Destination: HEATING

Add shared trigger transition


Reached

Source: HEATING

Trigger

Drop Trigger activity here

Reached

Condition: Current_Temp.Equals(Desired_Temp)

Action

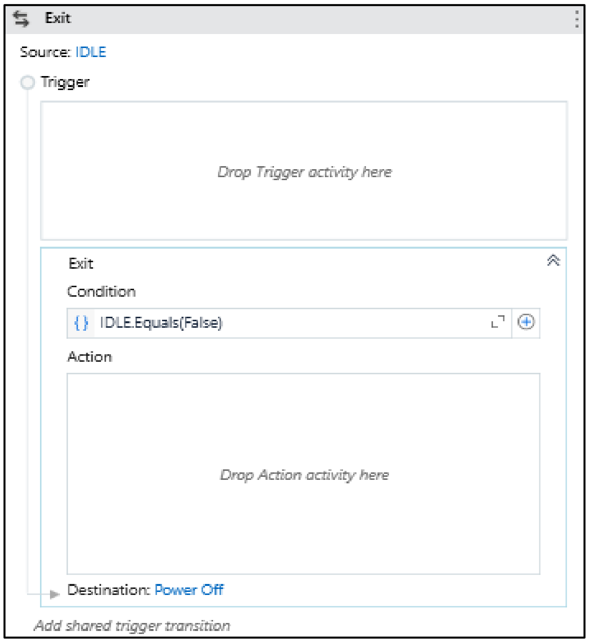
Drop Action activity here

Destination: IDLE

Add shared trigger transition

Step 21: For the transition Exit set condition IDLE.Equals(False).

Step 22: In Power Off state for Entry drag and drop WriteLine Activity. In the text field type “Shutting Down your AC”. Hit the Run Button.

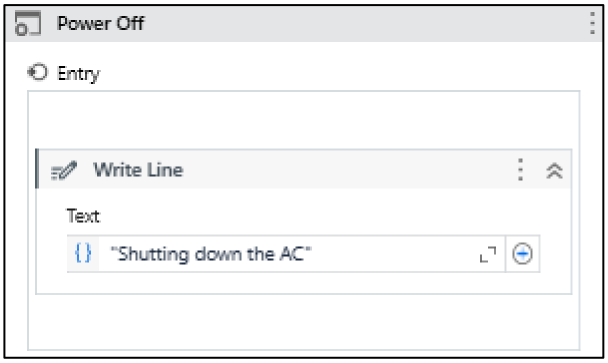


Exit
Trigger
Drop Trigger activity here
Exit
Action
Drop Action activity here
Add shared trigger transition

Source: IDLE

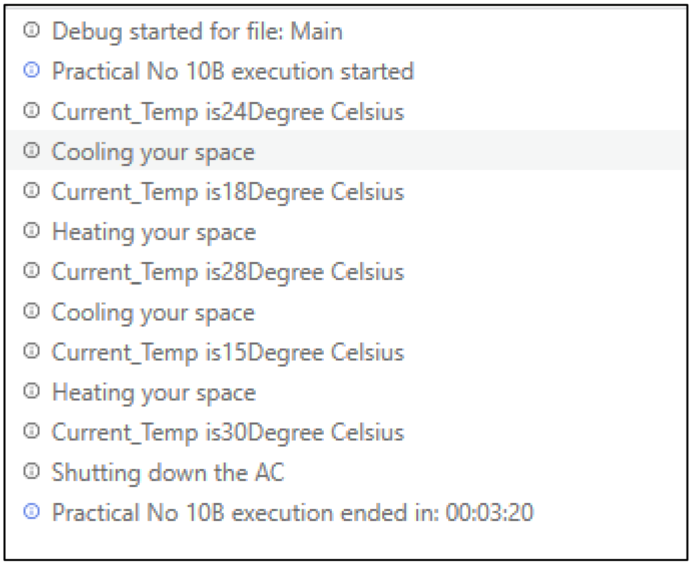
Condition: IDLE.Equals(False)

Destination: Power Off



Text: "Shutting down the AC"

Output:



```
Debug started for file: Main
Practical No 10B execution started
Current_Temp is24Degree Celsius
Cooling your space
Current_Temp is18Degree Celsius
Heating your space
Current_Temp is28Degree Celsius
Cooling your space
Current_Temp is15Degree Celsius
Heating your space
Current_Temp is30Degree Celsius
Shutting down the AC
Practical No 10B execution ended in: 00:03:20
```

Conclusion:

The practical to automating any process using State Machine was successfully executed.

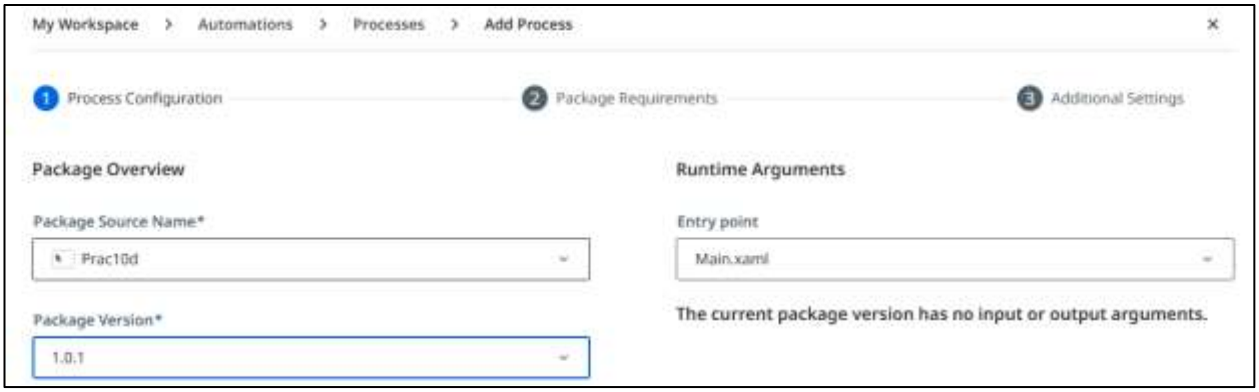
C.Aim: Demonstrate the use of publish utility.

Steps: -

Step 1: First, open UiPath Studio, create a new project, and give it an appropriate name.

Step 2: Go to the Design in the Ribbon and click on the Publish button.

Step 3: A dialog box will appear rename your project, get updates to the new version, etc . Then click on publish.



Package Overview

Package Source Name*: Prac10d

Package Version*: 1.0.1

Runtime Arguments

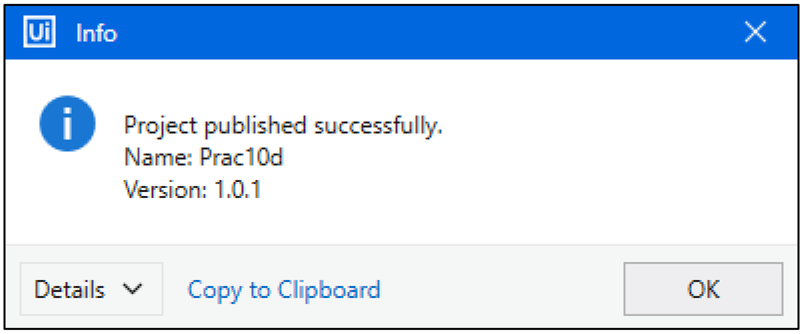
Entry point: Main.xaml

The current package version has no input or output arguments.

Step 4: Now check whether the project has been published successfully or not.

Step 5: If the workflow has been published successfully, then a dialog box will appear containing all the necessary data required to run that workflow from Orchestrator.

Output:



Project published successfully.
Name: Prac10d
Version: 1.0.1

Conclusion:

The practical to demonstrate the use of publish utility was successfully executed.