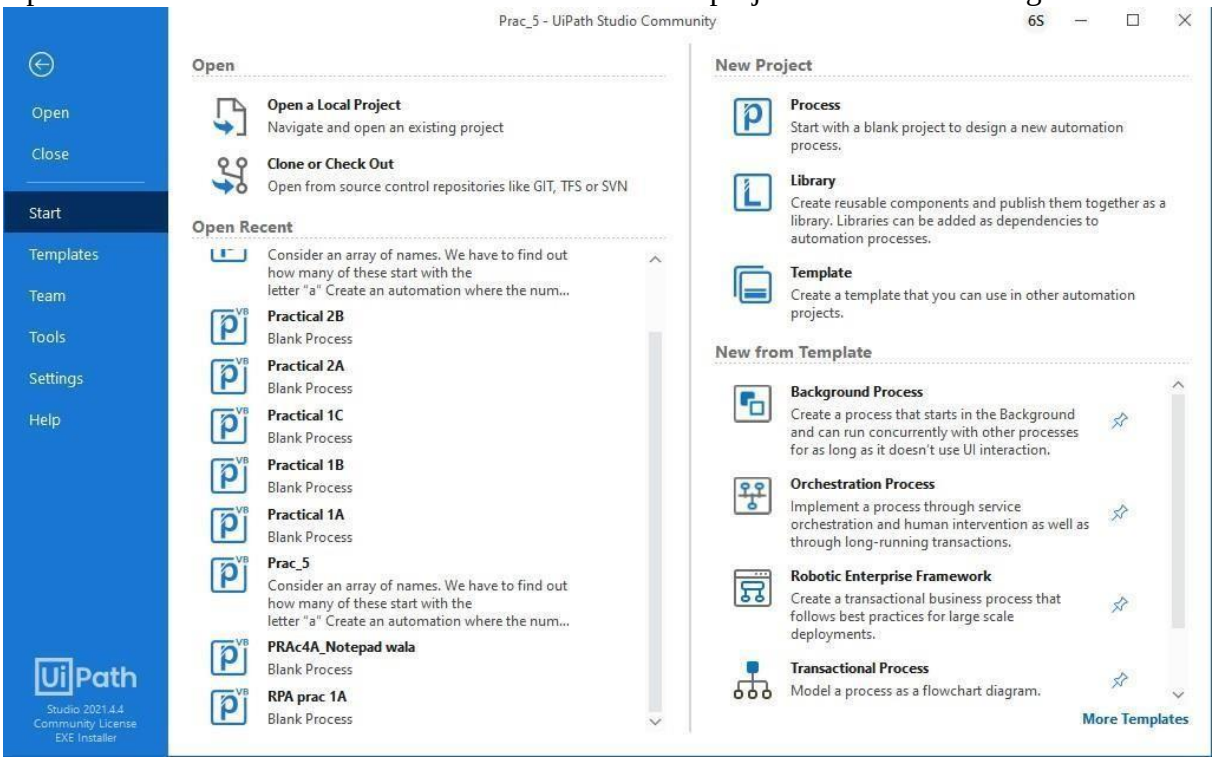
Practical No: 1

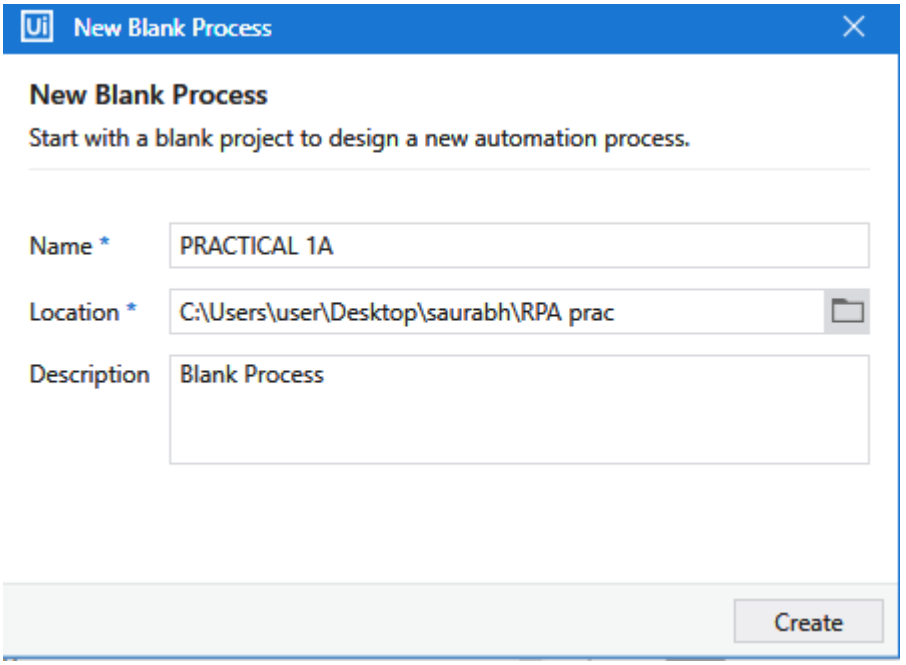
1 A) Create a simple sequence-based project.

Aim: Use two input dialogs for First Name and Last Name store in a variable and show in Message Box.

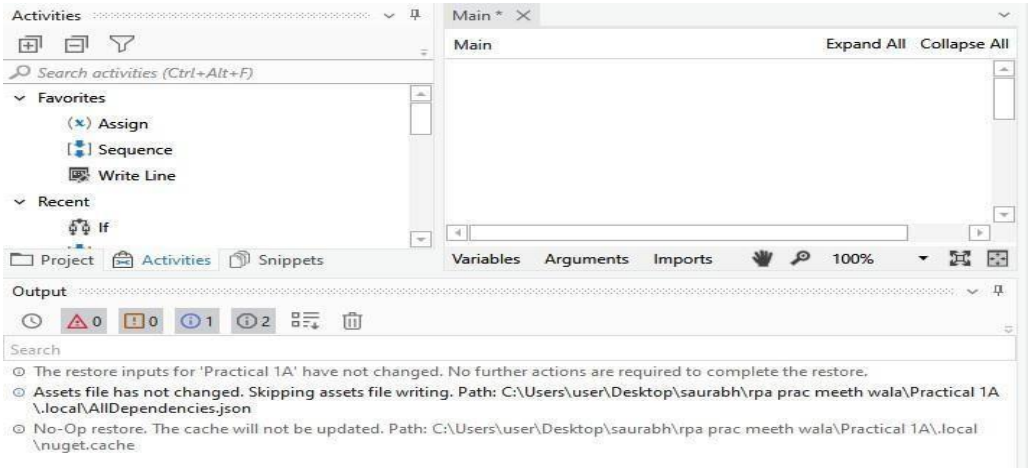
Steps:

1. Open UiPath Studio and click on **Blank** to start a fresh project. Give it a meaningful name.



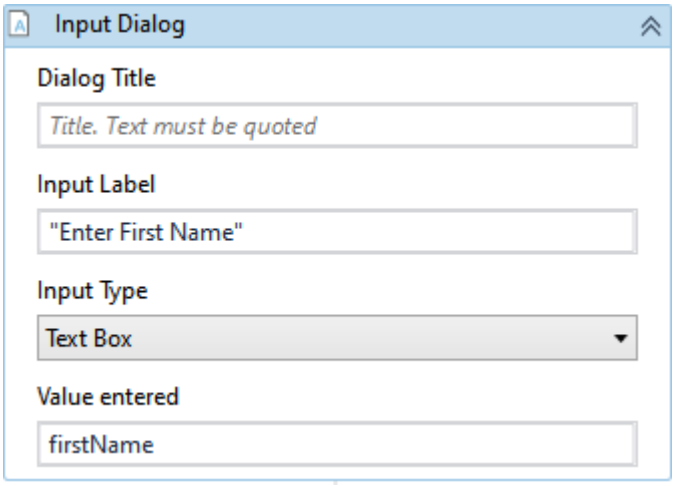


2. On the Designer panel, drag and drop a **Sequence** activity from the **Activities** panel.

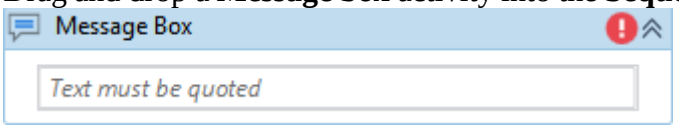


3. Search for **Input dialog** in the Search panel of the **Activities** panel. Drag and drop the **Input dialog** activity inside the **Sequence**.

   Write the appropriate message on the **Label** of this **Input dialog** to ask for the user's name. In our case, we have put in “Enter First Name”
4. Drag another **Input dialog** activity into the **Sequence**.



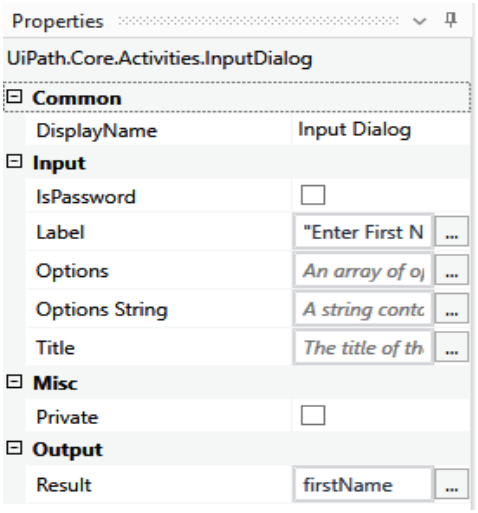
   Write the Label as “Enter Last Name”
5. Drag and drop a **Message box** activity into the **Sequence**.

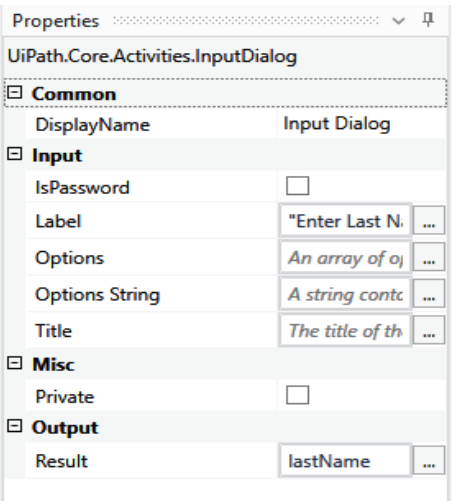


6. Next, create two **variables** and give them the desired names. These variables will receive the text that the user has entered in the **Input dialog** boxes.

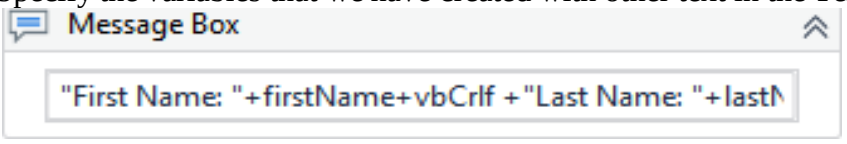
Name	Variable type	Scope	Default
firstName	String	Saurabh Yadav_prac_1A	Enter a VB expression
lastName	String	Saurabh Yadav_prac_1A	Enter a VB expression
Create Variable			

7. We now have to specify the **Result** property (in the **Properties** panel) of the **Input dialog** box. On specifying the variable name there, it will receive the text that the user entered.

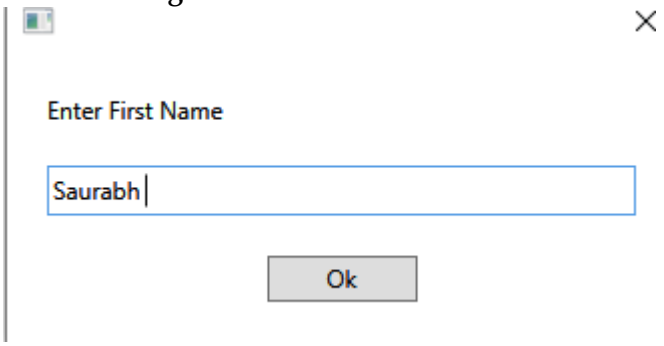


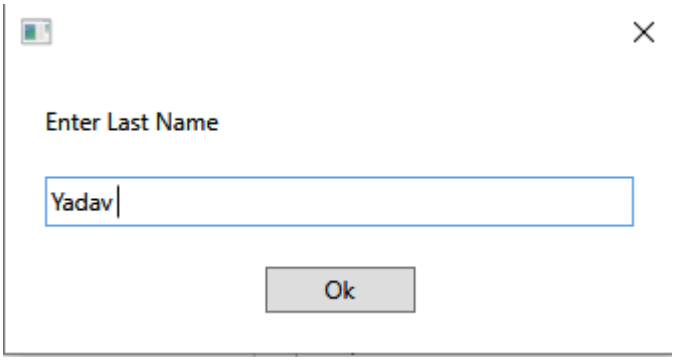


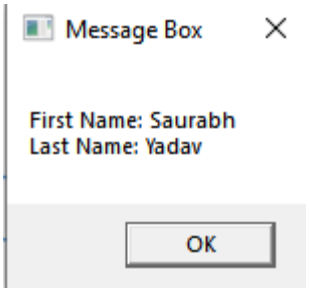
8. Specify the variables that we have created with other text in the Text area of the **Message box**.



9. Hit the **Debug** button and see the result.







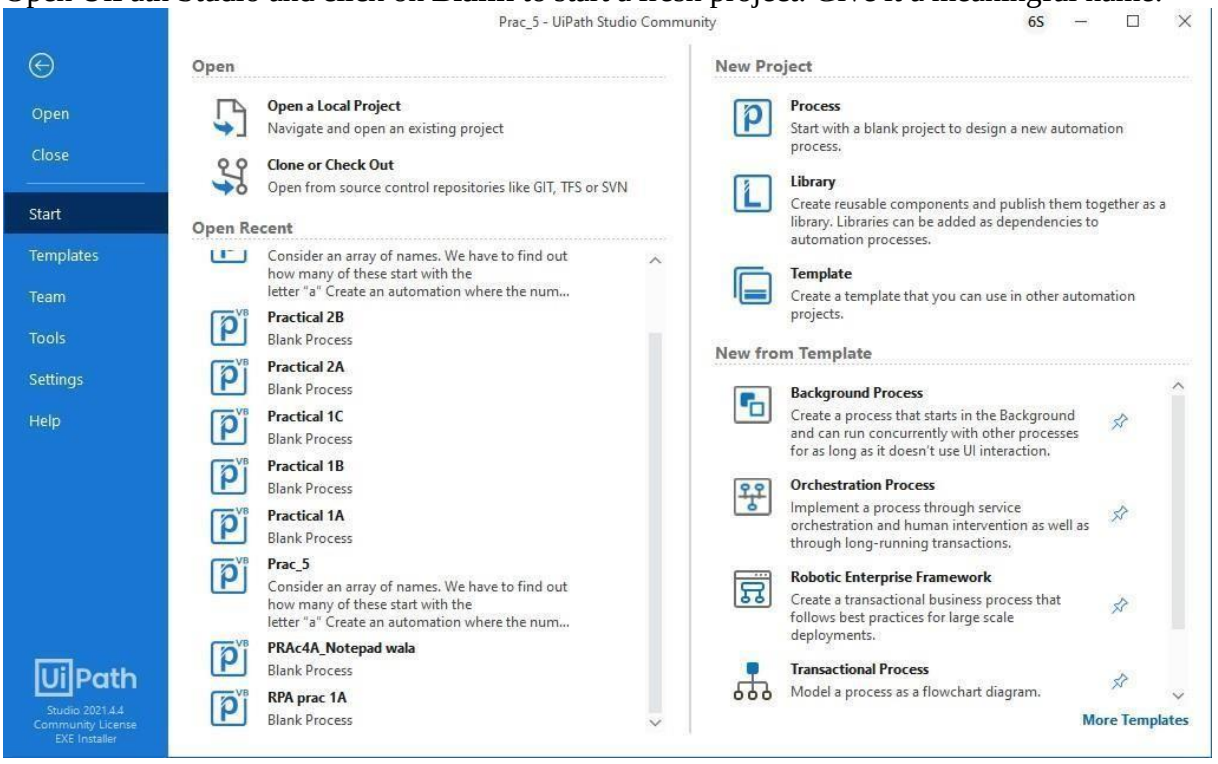
Practical No: 1(b)

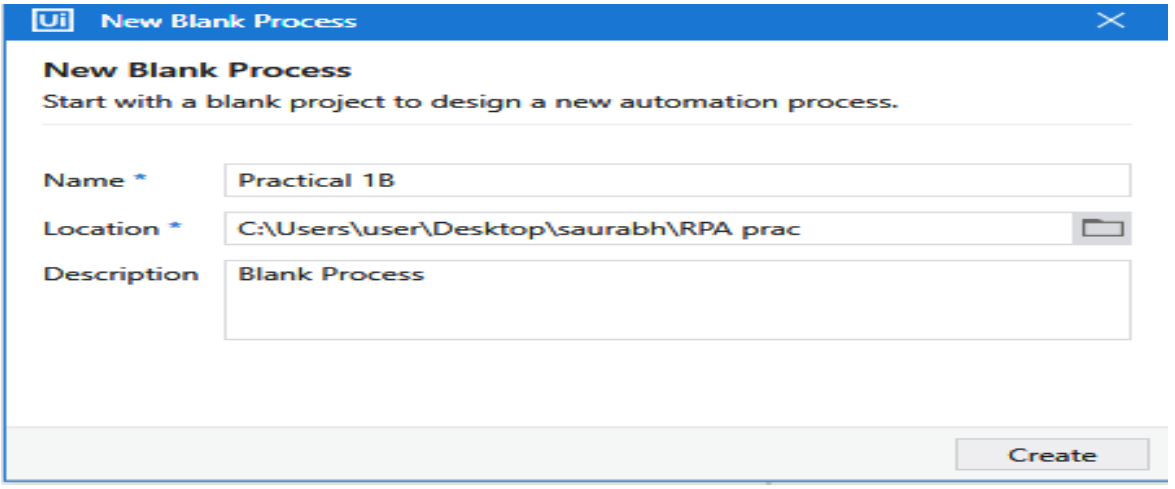
Aim: Create a simple flowchart-based project.

Use two input dialogs for First Name and Last Name store in a variable and show in Message Box.

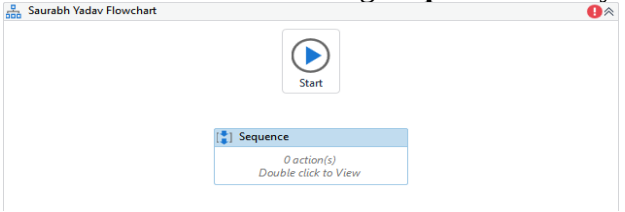
Steps:

1. Open UiPath Studio and click on **Blank** to start a fresh project. Give it a meaningful name.

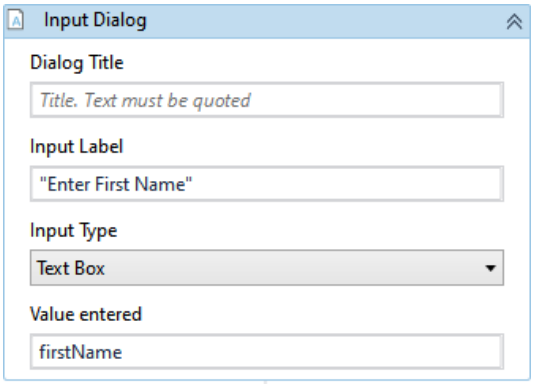




2. On the Designer panel, drag and drop a **Flowchart** activity from the **Activities** panel. Double click into Flowchart and drag **Sequence** activity.

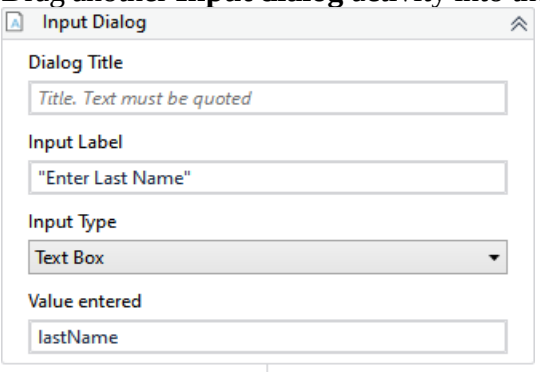


3. Search for **Input dialog** in the Search panel of the **Activities** panel. Drag and drop the **Input dialog** activity inside the **Sequence**.



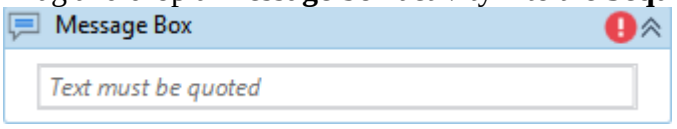
Write the appropriate message on the **Label** of this **Input dialog** to ask for the user's name. In our case, we have put in “Enter First Name”

4. Drag another **Input dialog** activity into the **Sequence**.

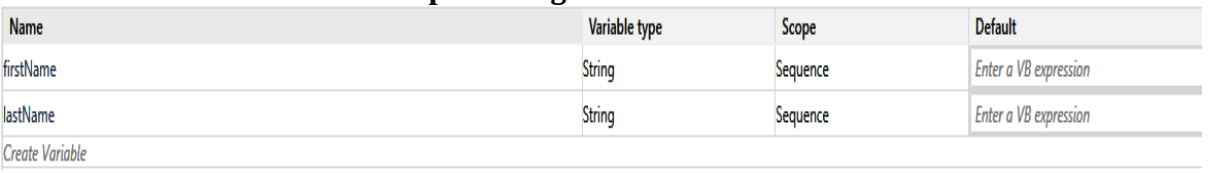


Write the Label as “Enter Last Name”

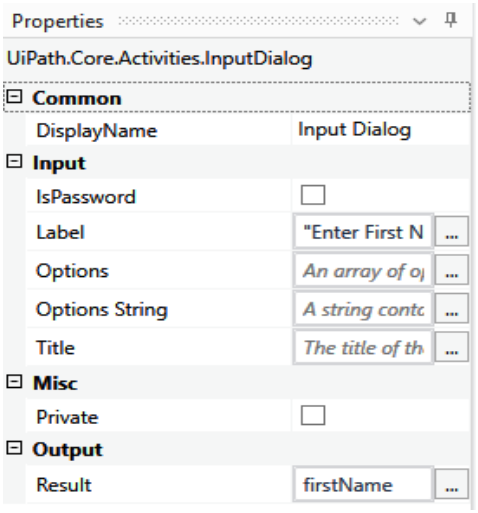
5. Drag and drop a **Message box** activity into the **Sequence**.

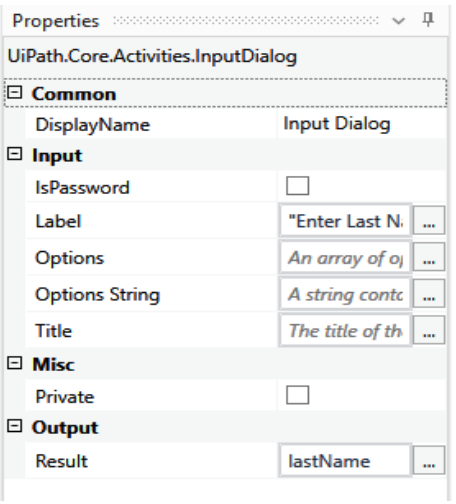


6. Next, create two **variables** and give them the desired names. These variables will receive the text that the user has entered in the **Input dialog** boxes.

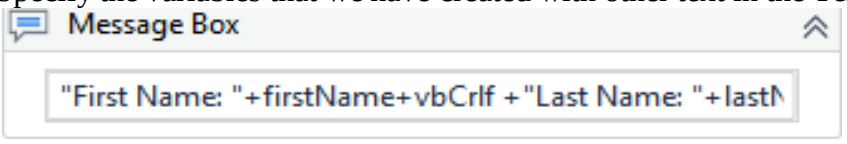


7. We now have to specify the **Result** property (in the **Properties** panel) of the **Input dialog** box. On specifying the variable name there, it will receive the text that the user entered.

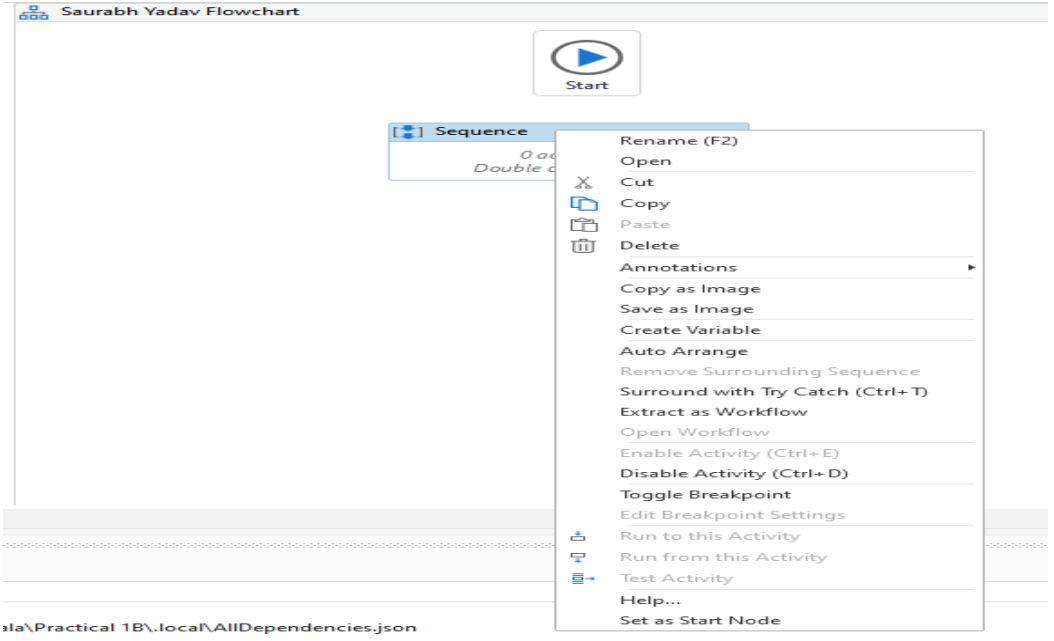


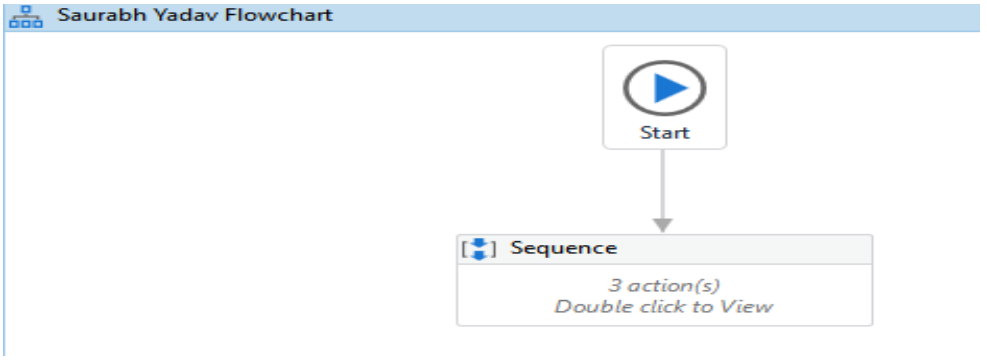


8. Specify the variables that we have created with other text in the Text area of the **Message box**.

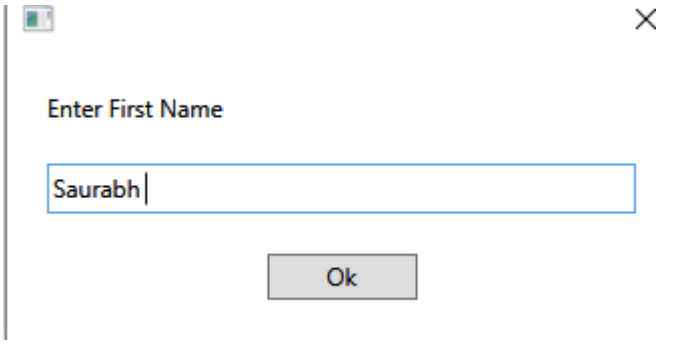


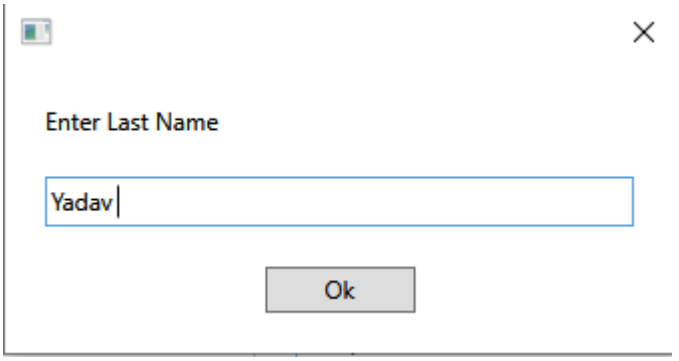
9. We need to connect the **Sequence** to the **Start** icon. This can be done by right-clicking on the **Sequence** activity and choosing the **Set as Start node** option.

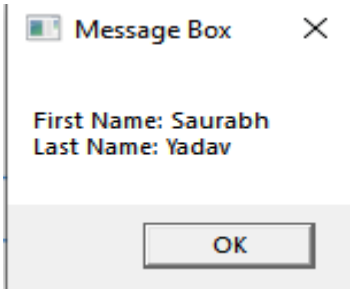




10. Hit the **Debug** button and see the result.


Enter First Name
Saurabh
Ok


Enter Last Name
Yadav
Ok


Message Box
First Name: Saurabh
Last Name: Yadav
OK

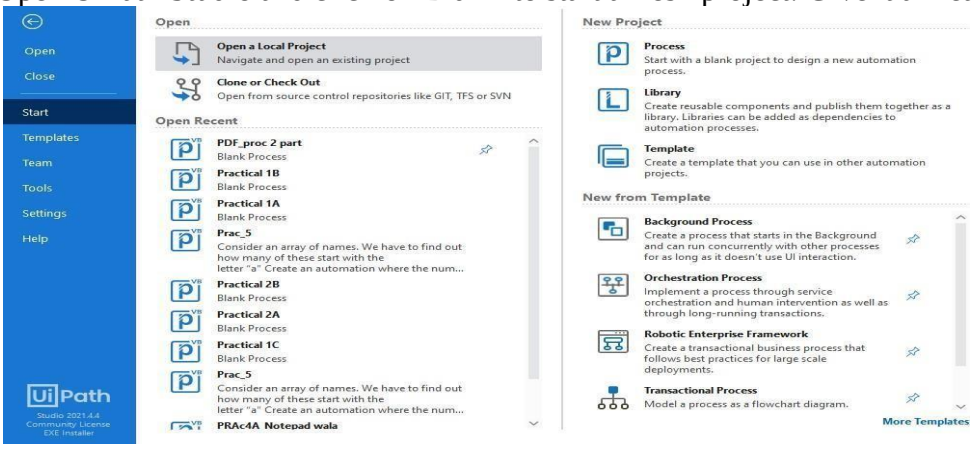
Practical No: 1(c)

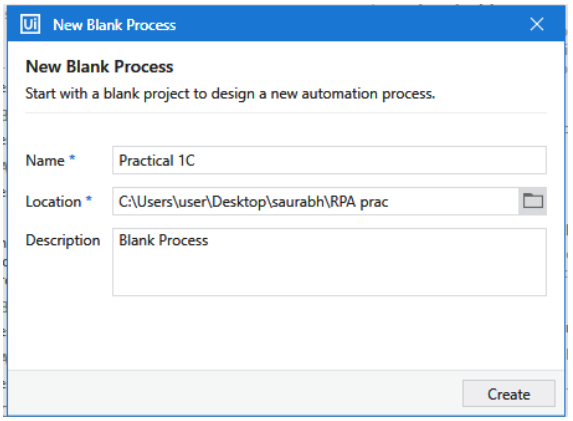
Aim: Create an UiPath Robot which can empty recycle bin in Gmail solely on basis of recording.

Use Web Recorder to empty trash in gmail.

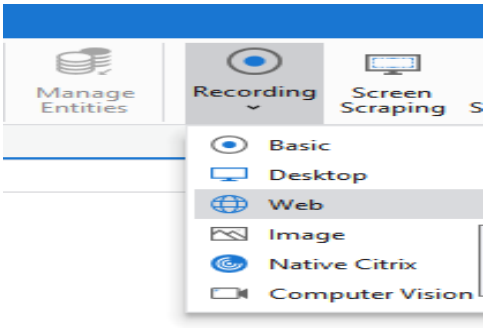
Steps:

1. Open UiPath Studio and click on **Blank** to start a fresh project. Give it a meaningful name.

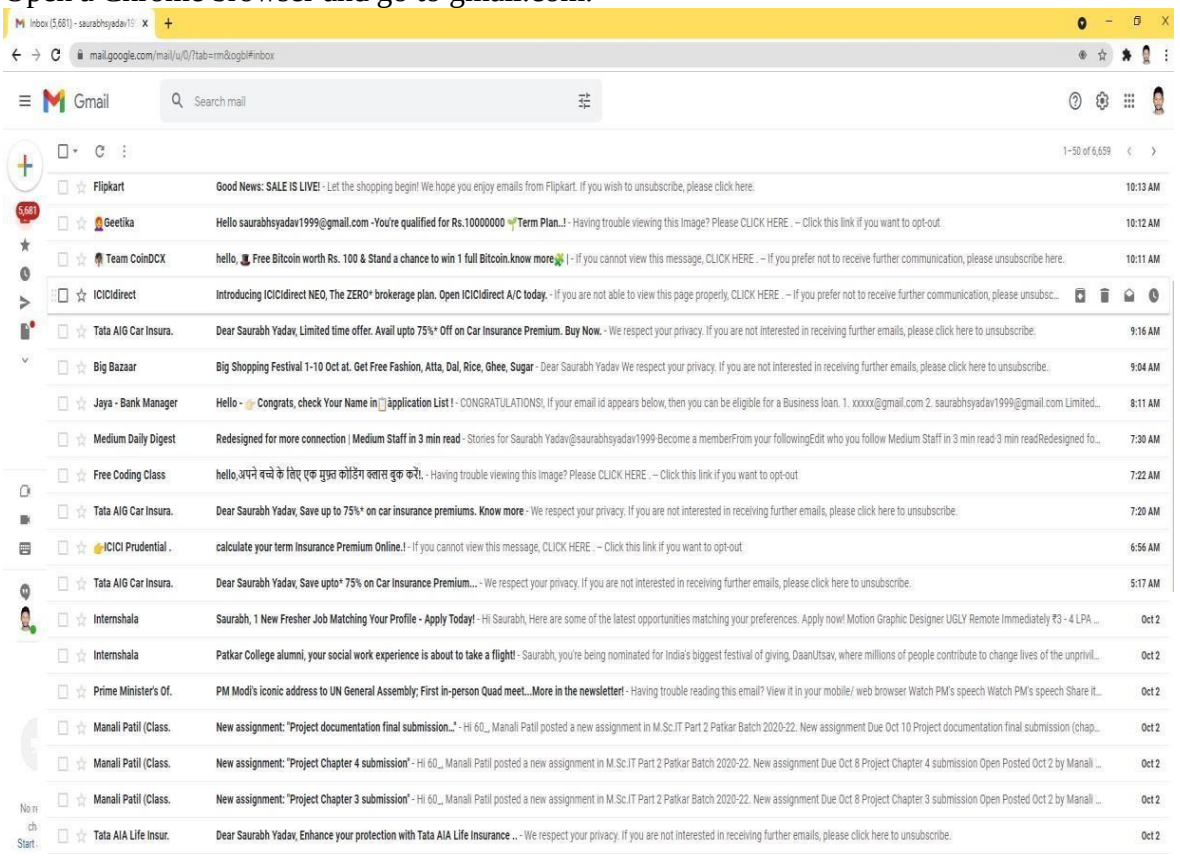




2. Choose Web recorder from the Recording drop-down list:

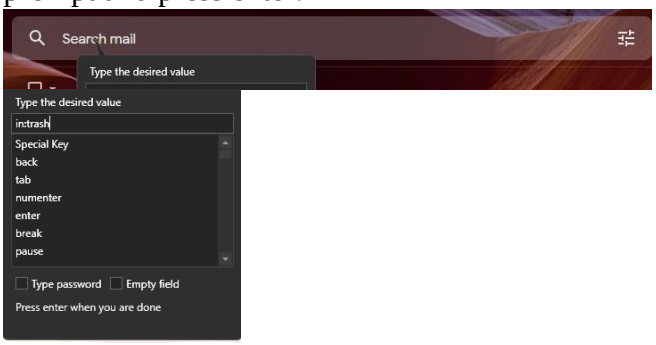


3. Open a Chrome browser and go to gmail.com.

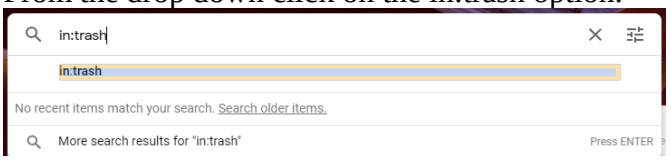


4. On the web recording panel click on “Open Browser” option and select the chrome window. In the url prompt type gmail.com.

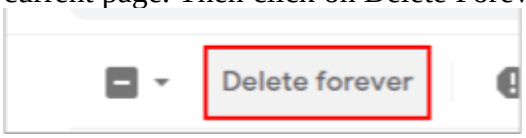
5. Now start the recording and click into the search bar of Gmail. Type “in: trash” in the type into prompt and press enter.



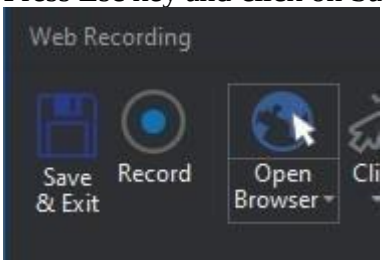
6. From the drop down click on the in:trash option.



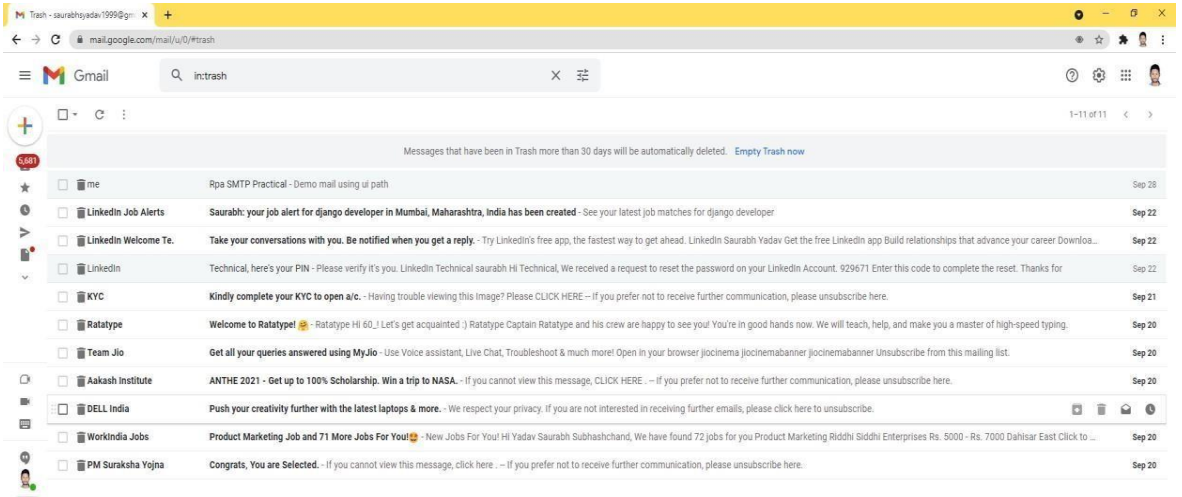
7. Once in the trash section of Gmail. Click on the checkbox button to select all the mail of the current page. Then click on Delete Forever button that appears.



8. Press Esc key and click on Save and Exit option in the web recording panel.



9. Now Run the program by clicking on Debug and see the output.

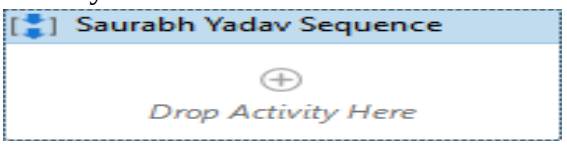


Practical No: 2(a)

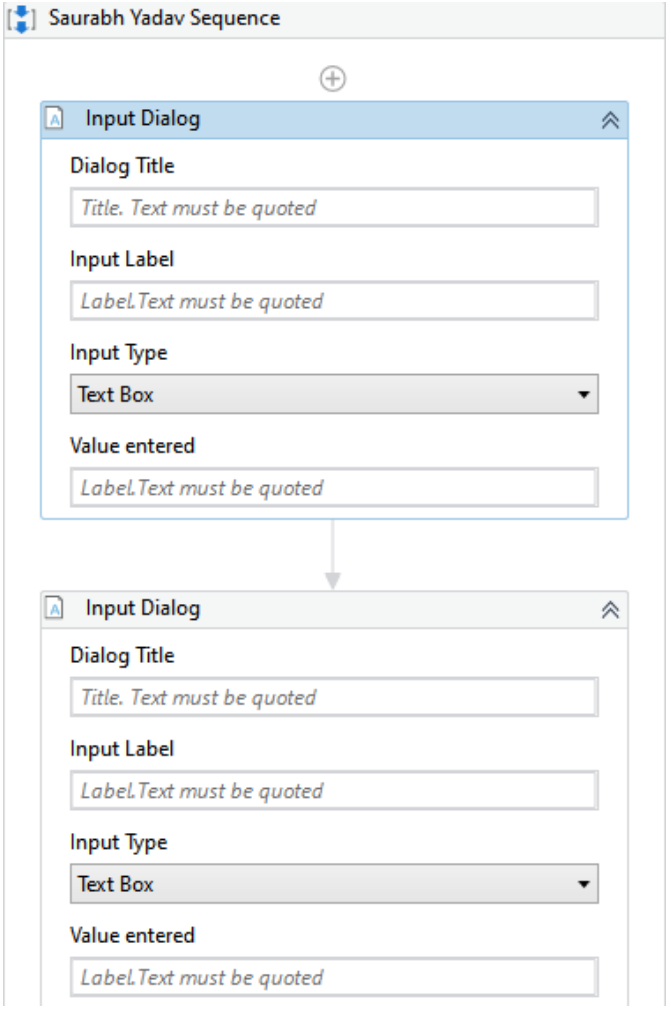
Aim: Automate UiPath Number Calculation (Addition, Subtraction, Multiplication, Division ofnumbers).

Use two Input dialogs for Numbers and do following calculations and show in Message Box.Steps:

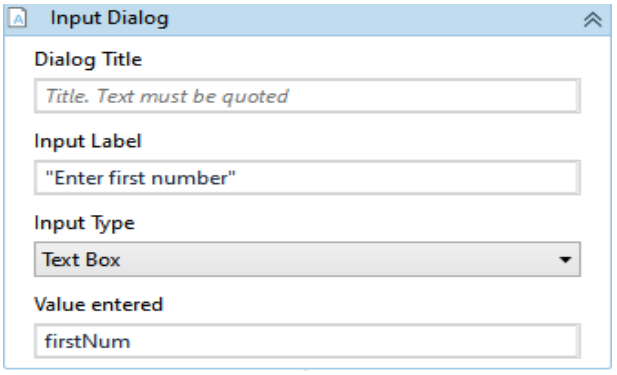
10. Create a new Blank Project and give it an appropriate name. Drag a Sequence activity from Activity tab.



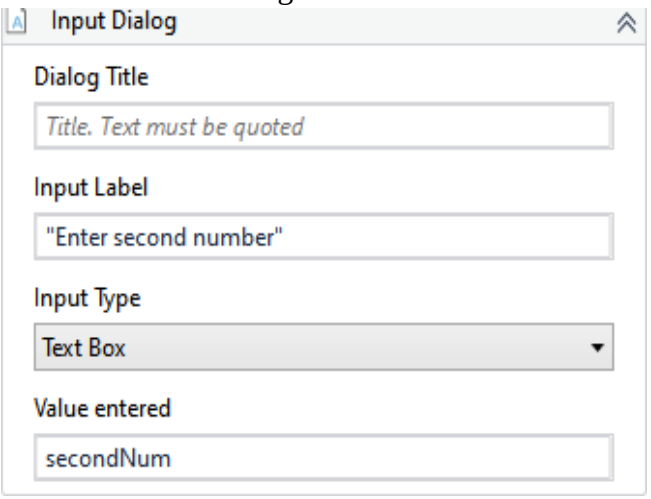
11. Search Input Dialog activity and drag and drop the activity twice.



Give the first input dialog label as “Enter first number”.

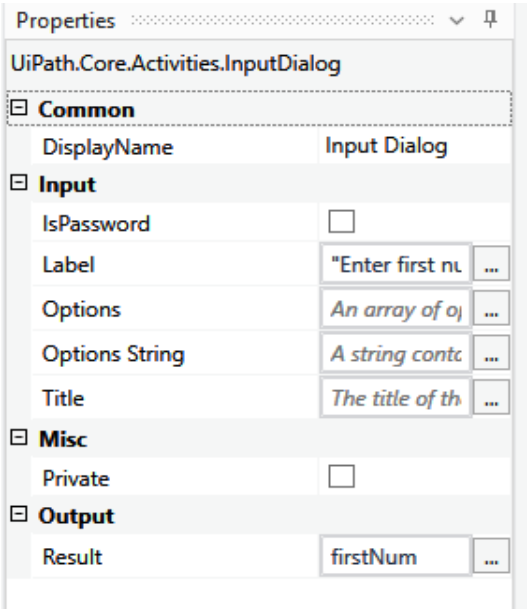


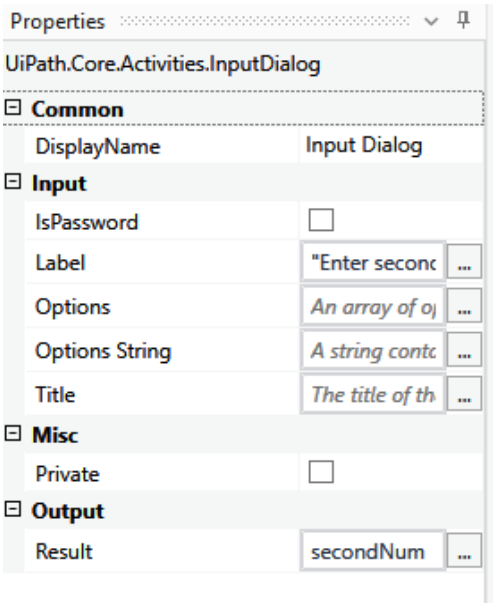
Give the second dialog label as “Enter second number”.



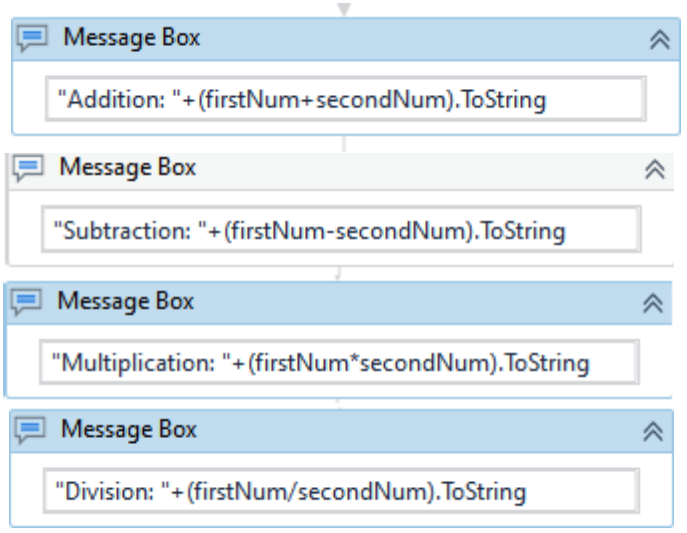
12. Create the variables to store both inputs, then enter the variables in the input dialog Result attributes.

Name	Variable type	Scope	Default
firstNum	Int32	Saurabh Yadav Sequence	Enter a VB expression
secondNum	Int32	Saurabh Yadav Sequence	Enter a VB expression
Create Variable			

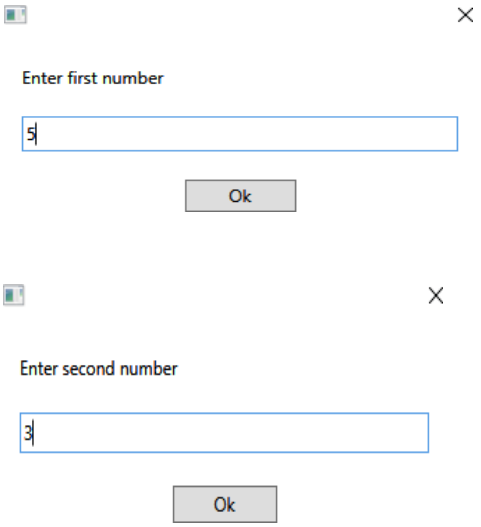


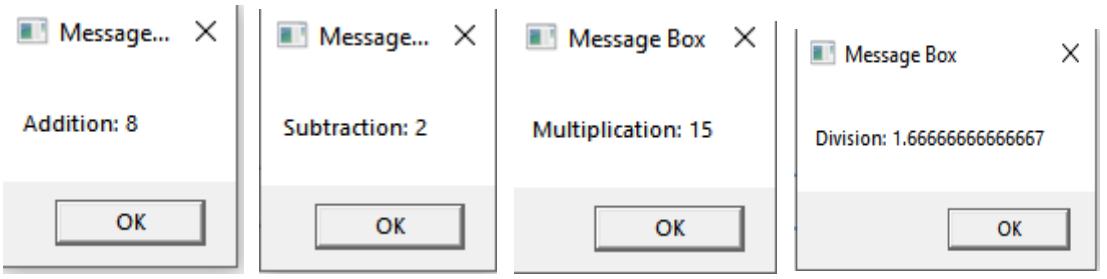


13. Drag and drop message box four times and perform the addition, subtraction, multiplication and division operation in each of the message boxes.



14. Hit the **Debug** button and see the result



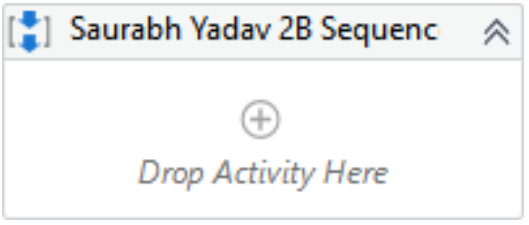

Message...
Addition: 8
OK
Message...
Subtraction: 2
OK
Message Box
Multiplication: 15
OK
Message Box
Division: 1.66666666666667
OK

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

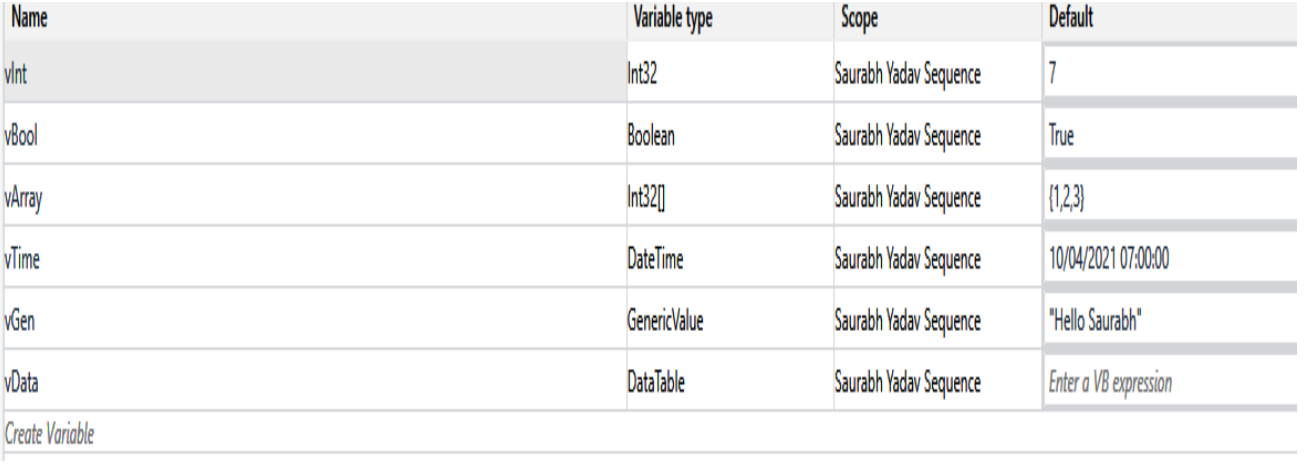
Aim: Create Different type of variable and provide default value and show in Message Box.

Steps:

1. Create a new Blank Project and give it an appropriate name. Drag a Sequence activity from Activity tab.



2. Create number(Int32), datetime, Boolean, string, generic, array variables and assign them default value.



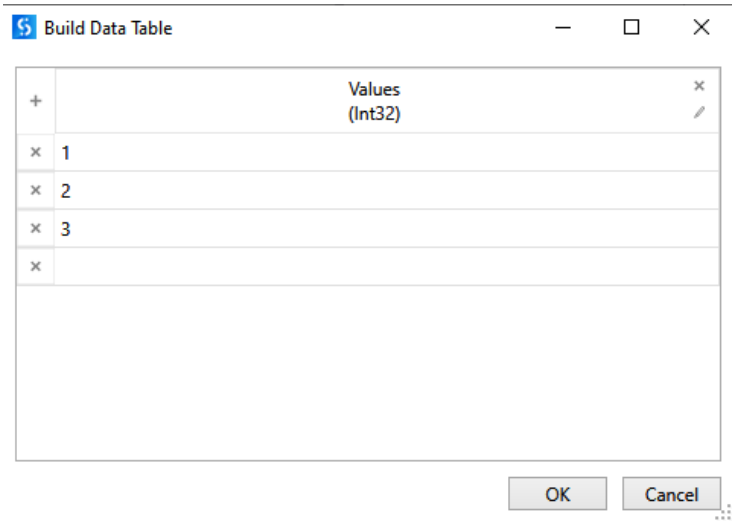
Name	Variable type	Scope	Default
vInt	Int32	Saurabh Yadav Sequence	7
vBool	Boolean	Saurabh Yadav Sequence	True
vArray	Int32[]	Saurabh Yadav Sequence	{1,2,3}
vTime	DateTime	Saurabh Yadav Sequence	10/04/2021 07:00:00
vGen	GenericValue	Saurabh Yadav Sequence	"Hello Saurabh"
vData	DataTable	Saurabh Yadav Sequence	Enter a VB expression

Create Variable

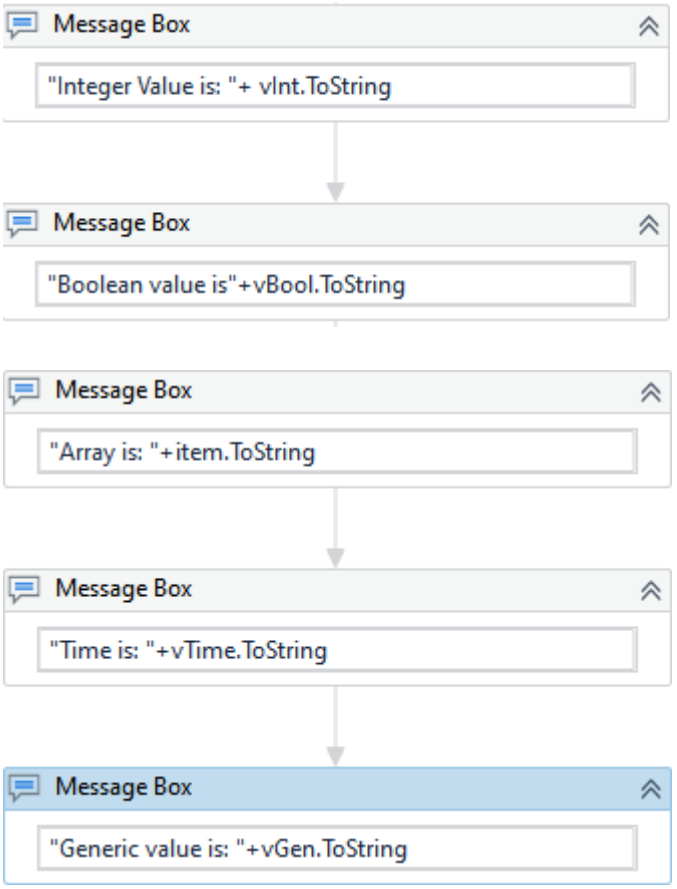
3. Create a datable variable and add a build dataTable activity.

vData	DataTable	Saurabh Yadav Sequence	Enter a VB expression

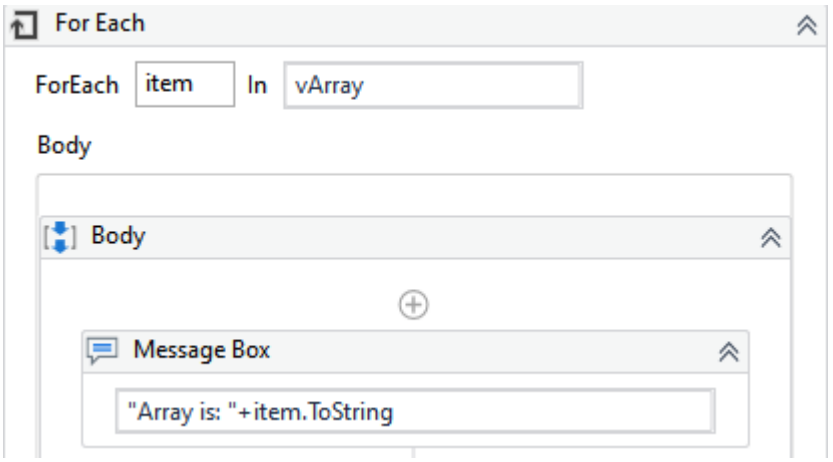
4. Create the values of data table.



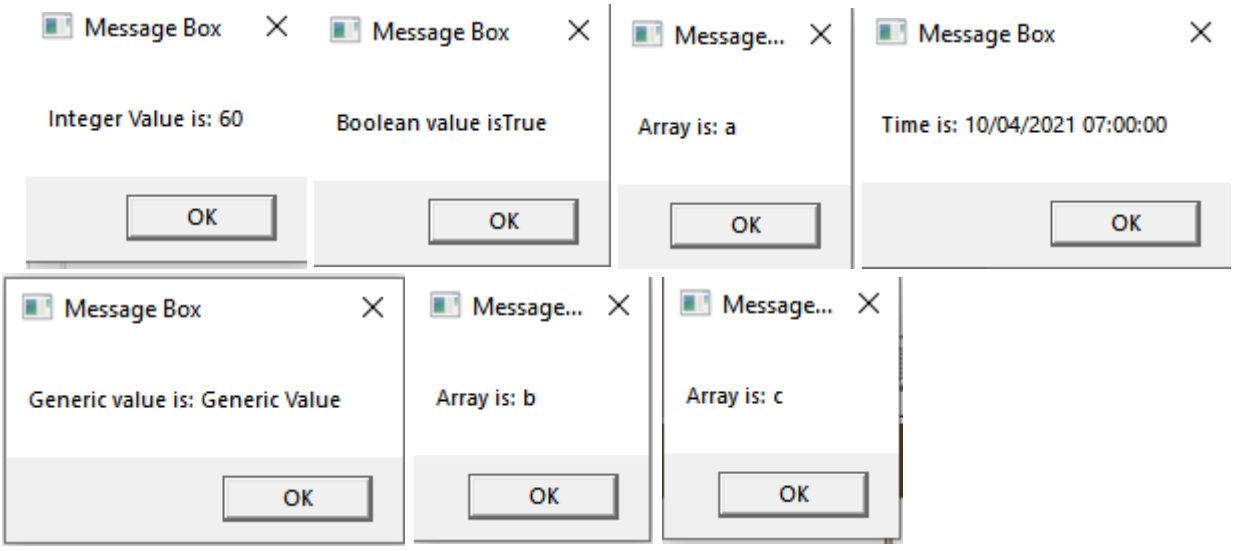
5. Add message box to show the number, datetime, Boolean, string, and generic variable.



6. Add for each activity and message box to show values of array variable.


For Each
ForEach item In vArray
Body
Body
Message Box
"Array is: "+item.ToString

Output:


Message Box
Integer Value is: 60
OK
Message Box
Boolean value isTrue
OK
Message...
Array is: a
OK
Message Box
Time is: 10/04/2021 07:00:00
OK
Message Box
Generic value is: Generic Value
OK
Message...
Array is: b
OK
Message...
Array is: c
OK

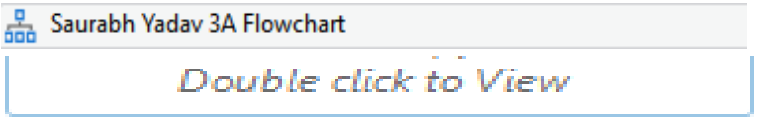
Practical No: 3

3 A) Create an automation UiPath Project using decision statements.

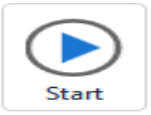
Aim: Use one input dialog for Number, create a process to find provided Number is odd or even using condition (Flow Chart).

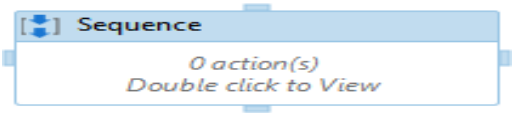
Steps:

15. Create a new Blank Project and give it an appropriate name. Drag a Flowchart activity from Activity tab.

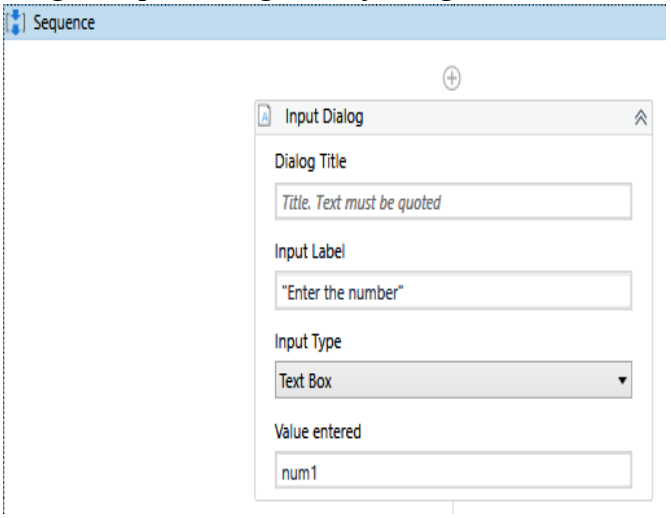


16. Double click on flowchart and drag a sequence activity.

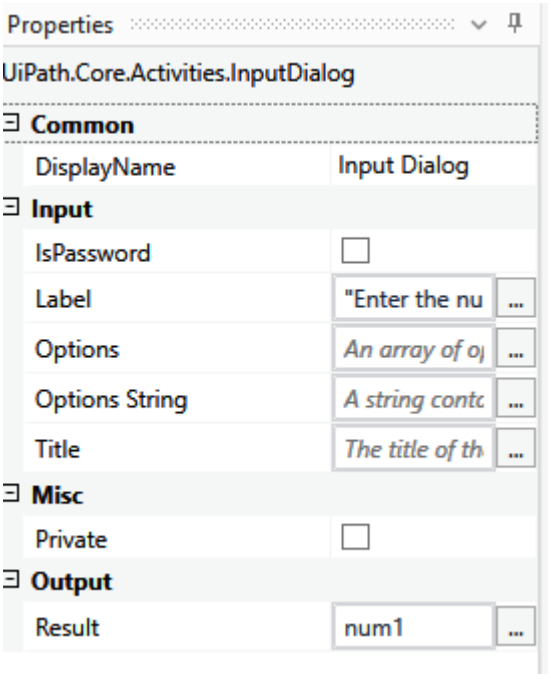




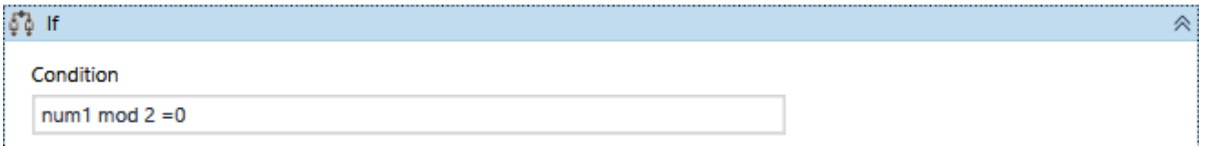
17. Drag an Input Dialog activity and give label “Enter the number”.



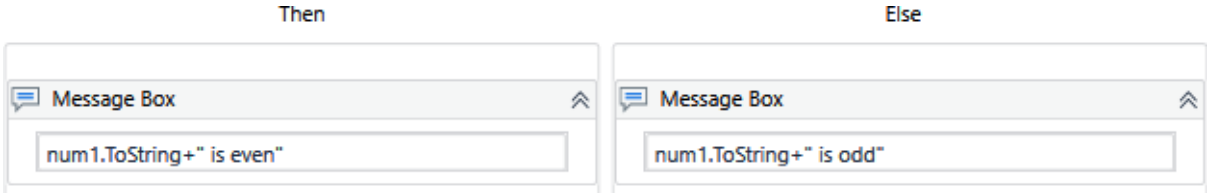
18. Create a variable of Int32 type and enter the variable in result attribute of Input Dialog.



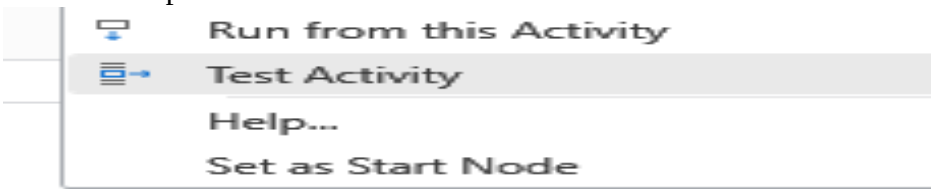
19. Write the following expression in Condition: num mod 2 = 0.



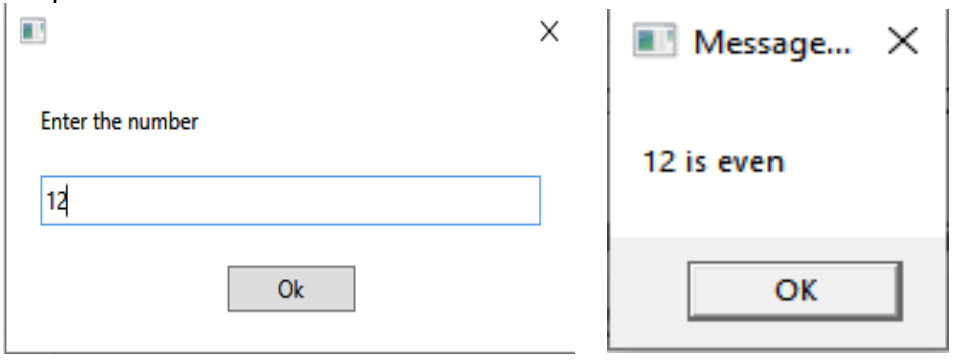
20. In the Message Box in then part write “Number is even” and in the Message Box in else part write “Number is odd”.



21. Connect the sequence to the start node by right clicking on sequence and selecting the “Set as start node” option.



Output:

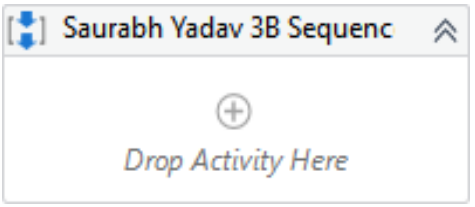


3 B) Create an automation UiPath Project using looping statements.

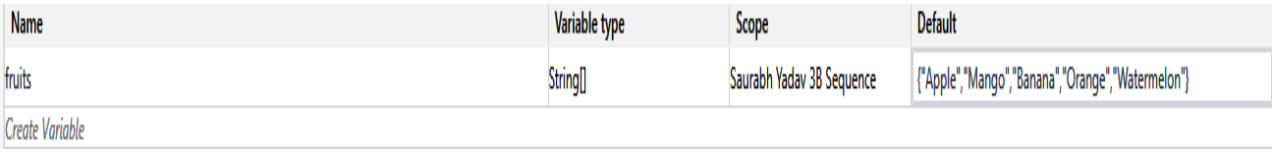
Aim: Create a dummy List of fruits. Loop each and print in Message Box.

Steps:

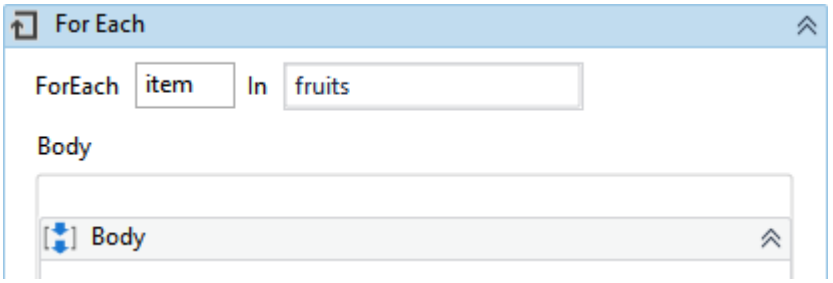
1. Create a new Blank Project and give it an appropriate name. Drag a Sequence activity from Activity tab.



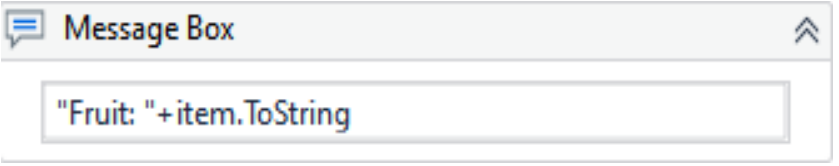
2. Create an Array of String Type named fruits. Give default value as {“Apple”, “Mango”, “Banana”, “Orange”, “Watermelon”}.



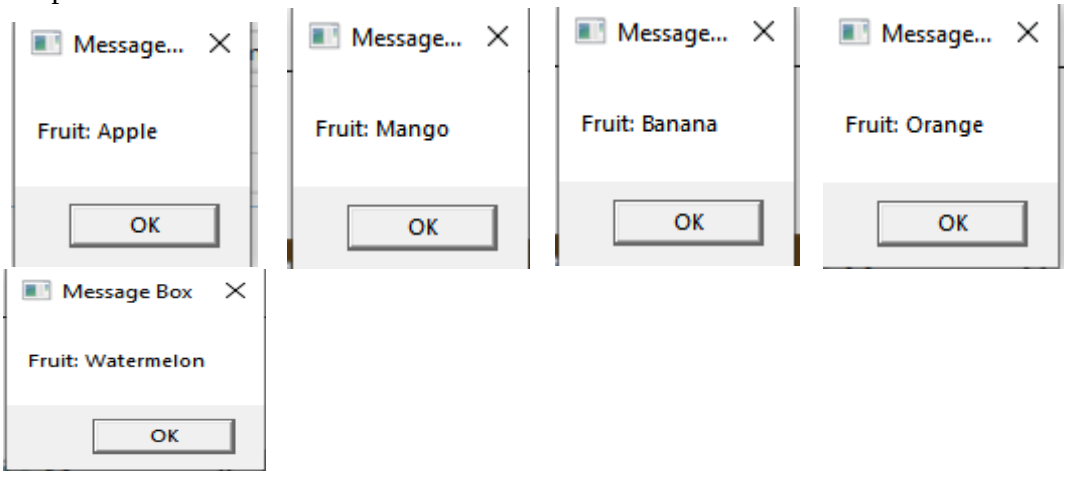
3. Add a for each activity and enter the fruits array as the iterating variable.



4. Add a Message Box and print item.



Output:



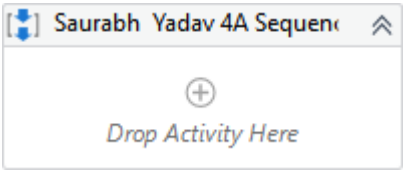
Practical No: 4

4A) Automate any process using basic recording.

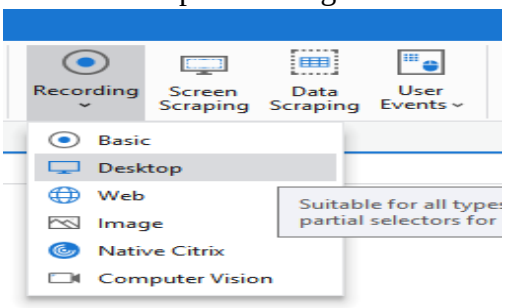
Aim: Automate Existing Notepad using basic Recorder

Steps:

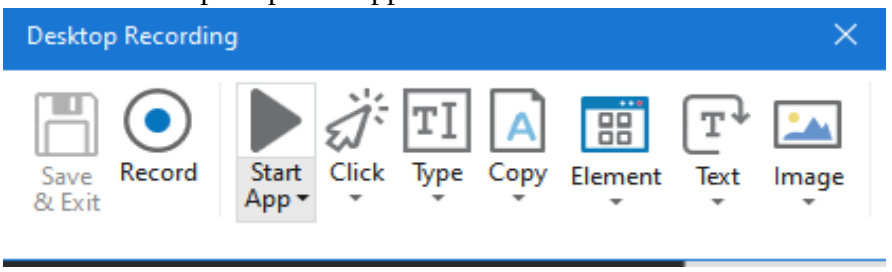
1. Create a new Blank Project and give it an appropriate name. Drag a Sequence activity from Activity tab.



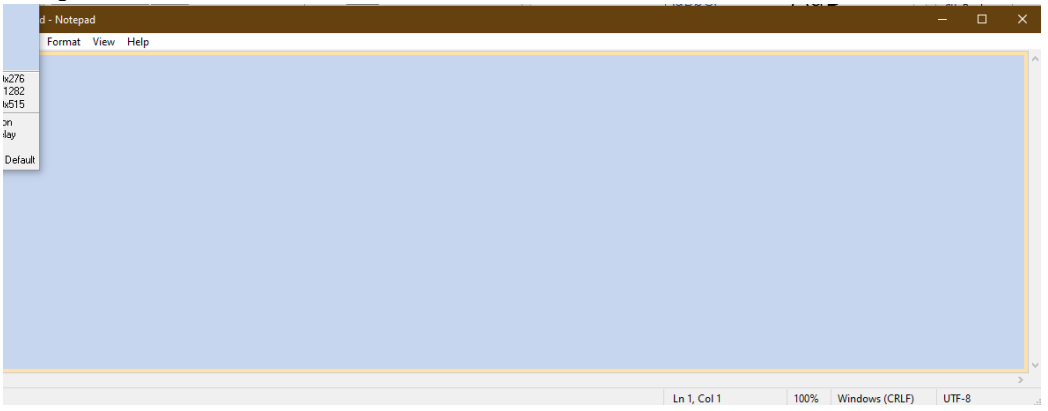
2. Select Desktop Recording under Recording.



3. Open a new notepad, then on desktop recording click on open application and select notepad the click ok on the prompt that appears.

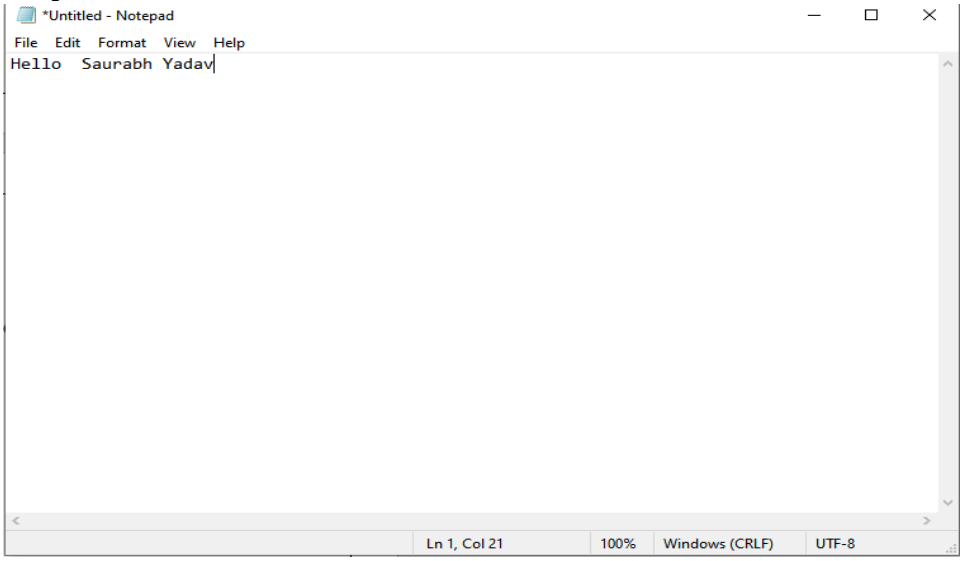


4. Start recording by clicking on record button in recording panel, then click in the text area of notepad.



5. In the type into prompt enter the text you want to be typed.

Output:


*Untitled - Notepad
File Edit Format View Help
Hello Saurabh Yadav
Ln 1, Col 21
100%
Windows (CRLF)
UTF-8

4. B) Automate any process using desktop recording.

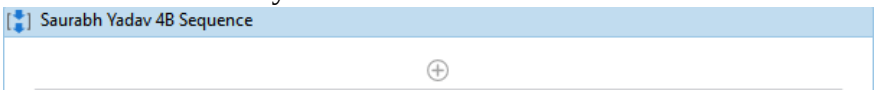
Aim: Use "double Ui" and automate stuff (Scrape Text, Input Text, Click Button)

Insert the data from the following excel file.

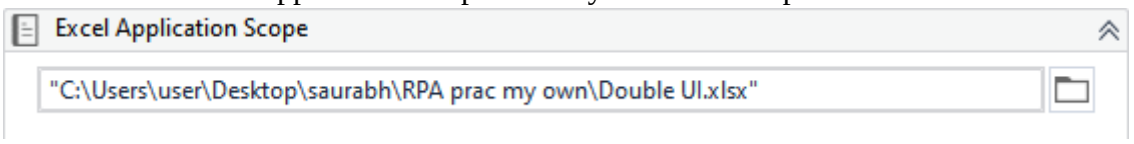
A	B	C	D	E	F	G
Sr no.	Cash In	Check_1	Check_2	Total	Transactic	Status
1	100	200	400			
2	200	300	600			
3	300	400	800			
4	400	500	1000			
5	500	600	1200			
6	600	700	1400			
7	700	800	1600			
8	800	900	1800			

Steps:

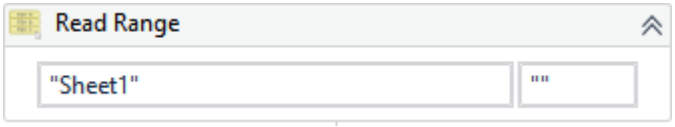
1. Create a new Blank Project and give it an appropriate name. Drag a Sequence activity from Activity tab.



2. Add Excel Application Scope Activity and enter the path of the excel file.

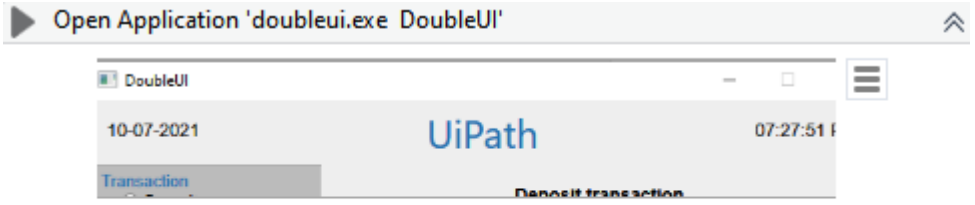


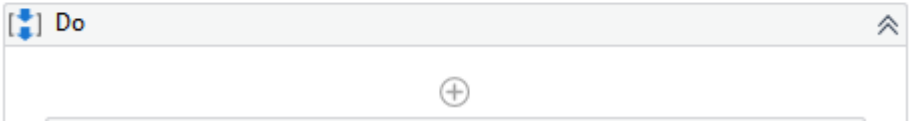
3. Add Read Range and create a DataTable to store the data that will be read by read range.



Name	Variable type	Scope	Default
DoubleUI	DataTable	Saurabh Yadav 4B Sequence	Enter a VB expression
transactionid	String	Saurabh Yadav 4B Sequence	Enter a VB expression
total	String	Saurabh Yadav 4B Sequence	Enter a VB expression

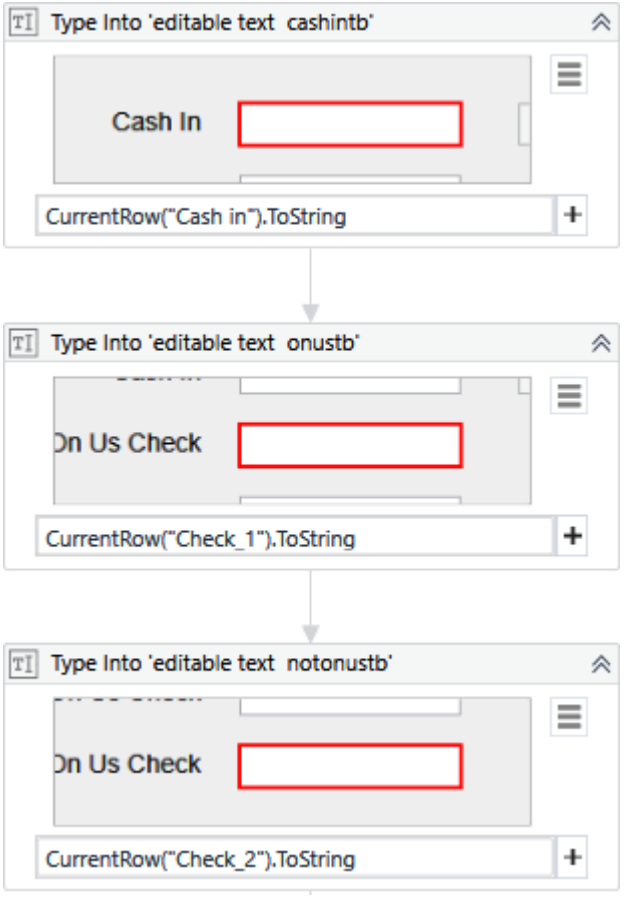
4. Add Open Application activity, start Double UI then click on “Indicate window on screen” option and select Double UI.



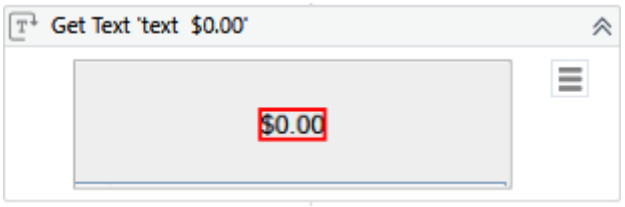


5. Add For each row in DataTable activity and iterate over DoubleUI datatable.

6. Add three type into activity in the for each activity. Indicate to the three textboxes in the Double UI app. Enter the DataTable element you wan to enter in the Text attribute.

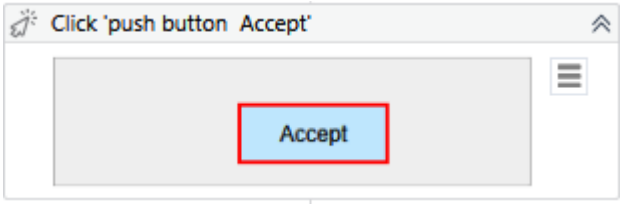


7. Add two get text activities and create two variables to store the transaction is andtotal. Indicate these elements to the Get text activities.

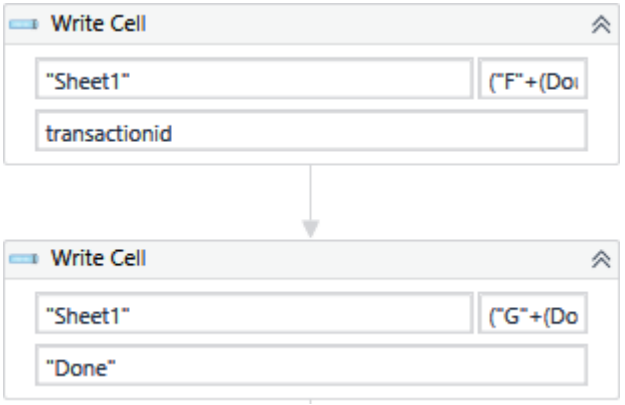


In case of Total remove the name attribute from the Edit Selector.

8. Add Click activity and indicate to Accept Button in Double UI.

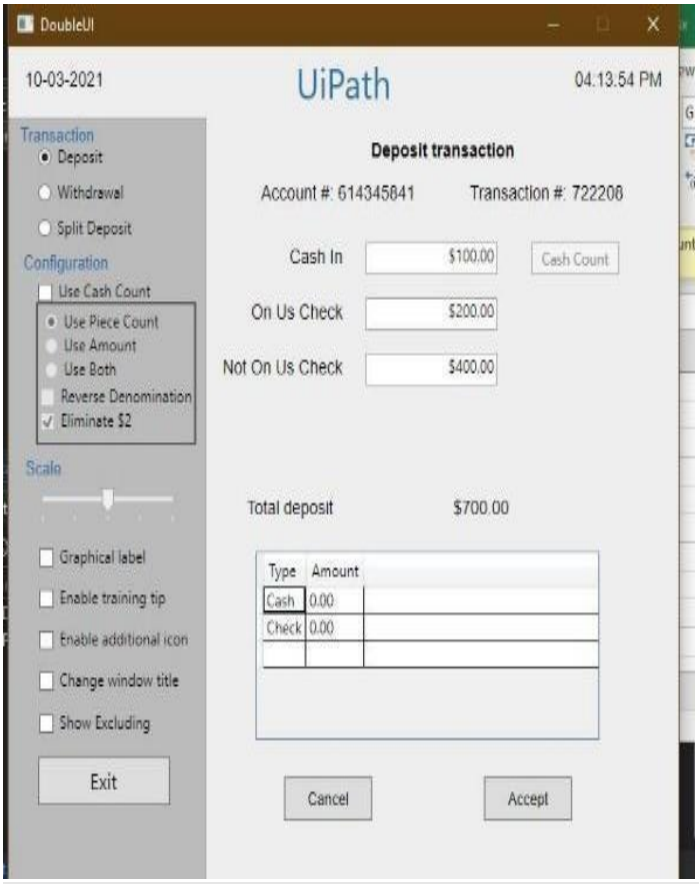


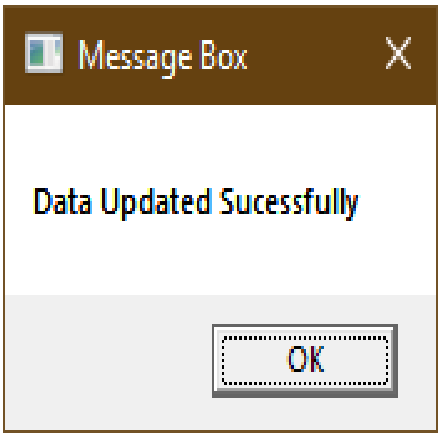
9. Add three Write Cell Activities to enter the transaction id and total and to Update the status column. ("E"+(DoubleUI.Rows.IndexOf(CurrentRow)+2).ToString)



10. Finally add a Message Box to print the success of the updation of Excel file.

Output:





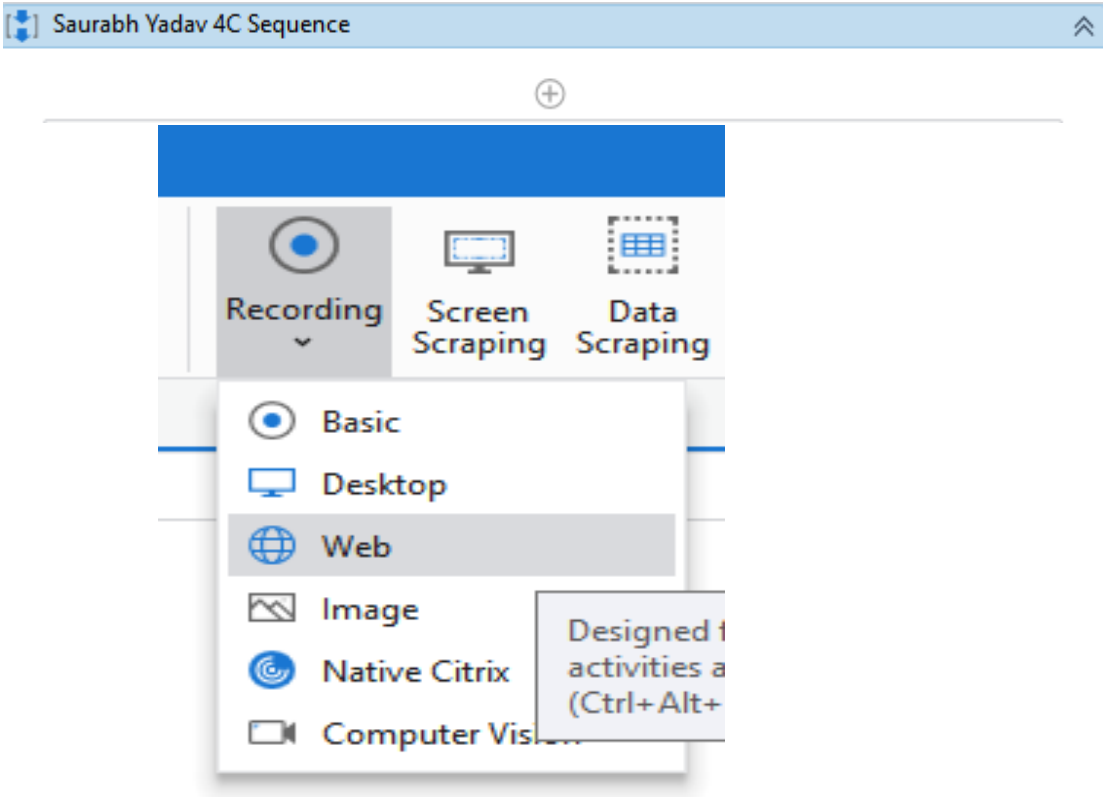
	A	B	C	D	E	F	G
1	Sr no.	Cash In	Check_1	Check_2	Total	Transactic	Status
2	1	100	200	400	700	722208	Done
3	2	200	300	600	1100	722209	Done
4	3	300	400	800	1500	722210	Done
5	4	400	500	1000	1900	722211	Done
6	5	500	600	1200	2300	722212	Done
7	6	600	700	1400	2700	722213	Done
8	7	700	800	1600	3100	722214	Done
9	8	800	900	1800	3500	722215	Done

4 C) Automate any process using web recording.

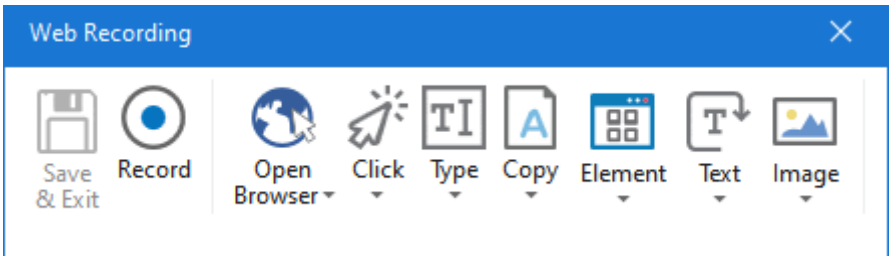
Aim: Use "google.com" and automate stuff (Scrape Text, Input Text, Click Button)

Steps:

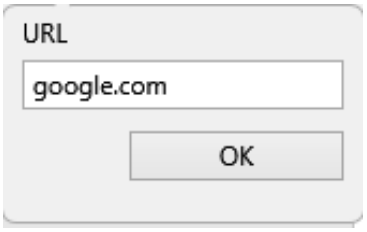
1. Create a new Blank Project and give it an appropriate name. Drag a Sequence activity from Activity tab.



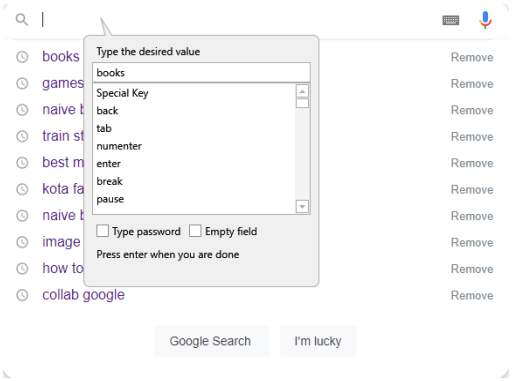
2. Open a Chrome window and from the web recording dialog select open browser and click on the Chrome window.

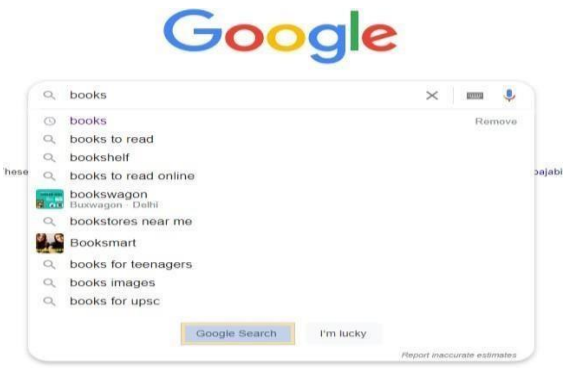


3. In the url dialog enter google.com and press enter.

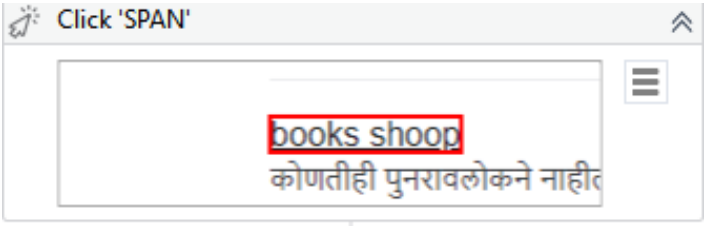


4. Now start recording by clicking on Record and click on the search button. Type the desired search and click on the Google search button. The press Esc.

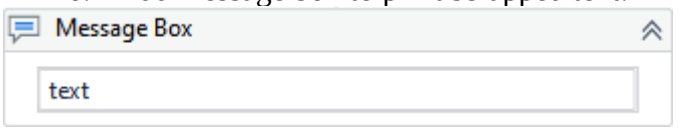




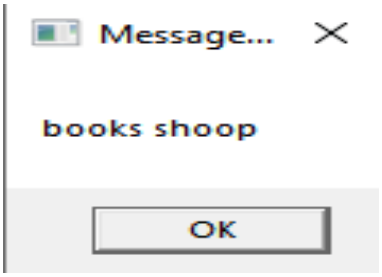
5. Now press save and exit. Add get text activity and select the text you want to scrape.



6. Add message box to print scrapped text.



Output:

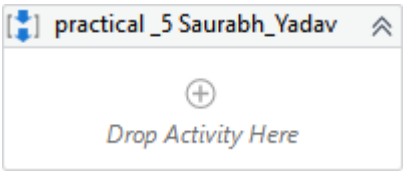


Practical No: 5

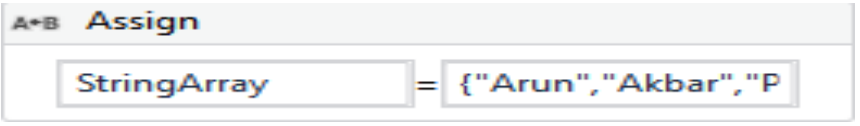
Aim: Consider an array of names. We have to find out how many of these start with the letter “a” Create an automation where the number of names starting with “a” is counted and the result is displayed.

Steps:

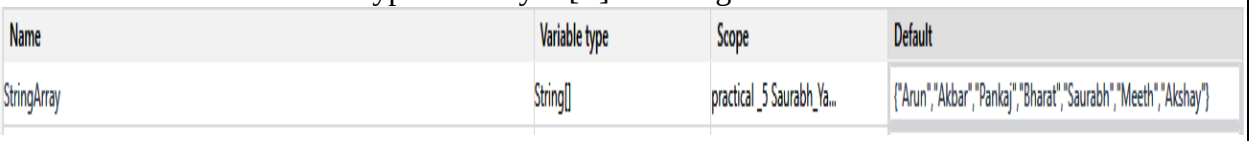
1. Create a sequence.



2. Use 1 Assign Activity
   Create array string Eg:
   {"Arun","Akbar","Pankaj","Bharat","Saurabh",”Meeth”,”Akshay”}

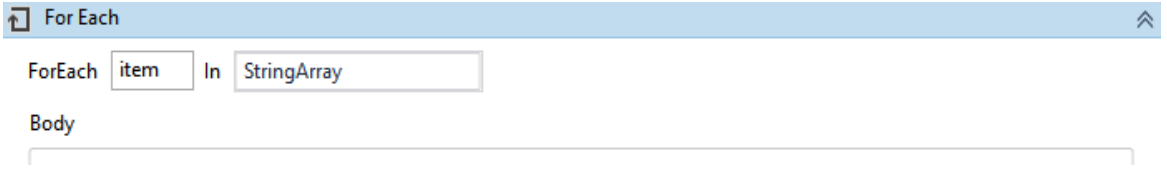


3. In Variable section take datatype as Array of[T] -> String

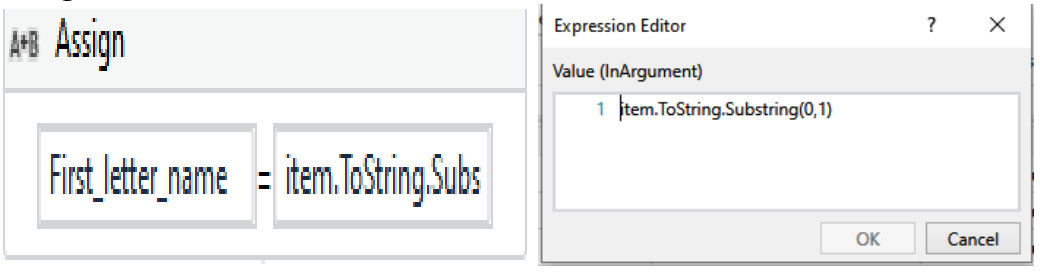


Name	Variable type	Scope	Default
StringArray	String[]	practical _5 Saurabh_Ya...	{"Arun","Akbar","Pankaj","Bharat","Saurabh","Meeth","Akshay"}

4. Take For each loop where each item in stringArray will occur repeatedly.

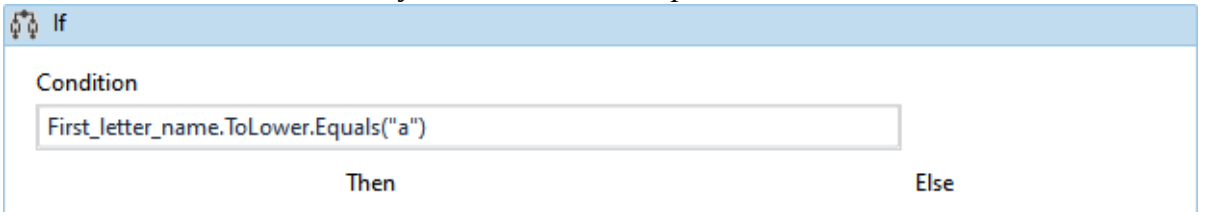


5. Take another Assign activity and create new variable as “First_letter_name” with datatype as String.

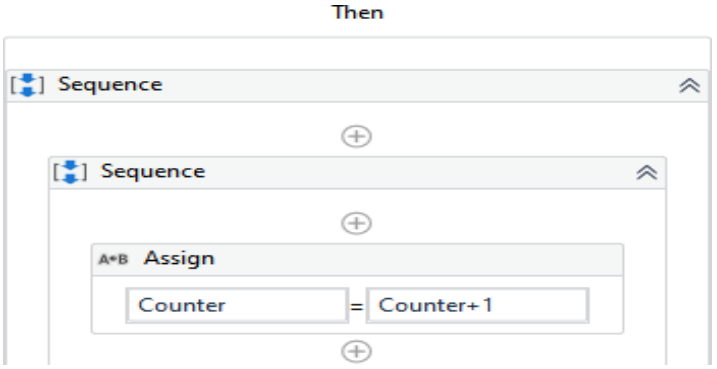


   item.ToString.SubString(0,1)
   Where 0 is the starting index value.
   1 is the length of the name.

6. Now Take If condition -First_letter_name.ToLower.Equals("a") this condition states that take the letter from the name list of array which starts with alphabet “A”or “a”.

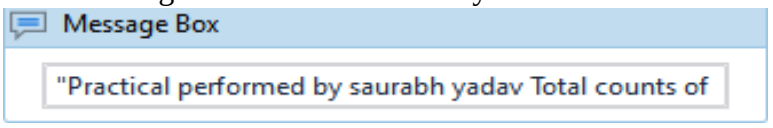


7. Then: take assign activity create Counter variable to count the number of names in the array starting with “A”, give default value of Counter variable as 0.

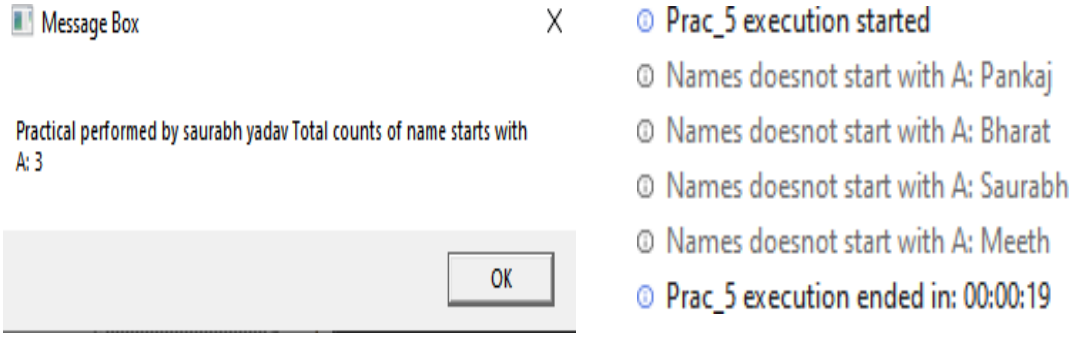


8. Else: take write line activity and put as " Names doesnot start with A:"+item.ToString

9. Add a message box after the if activity and show the count of Names starting with “A”.



10. Hit the Debug button and see the result.



Practical No: 6

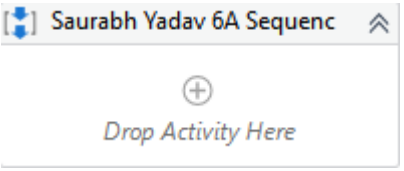
6A. Create an application automating the read, write and append operation on excel file.

Aim: Using Excel sheet data perform some calculation on the data writing it into the cells

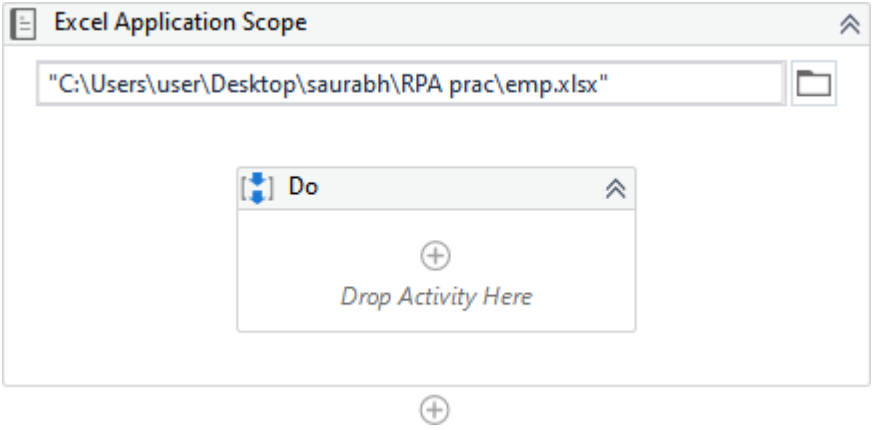
Steps: Create a sample excel as shown below

	Emp_Id	F_name	L_name	Salary	Expenses	Saving
2	1001	Saurabh	Yadav	100000	10000	
3	1002	Pankaj	Gavali	200000	20000	
4	1003	Bharat	Bhagat	300000	30000	
5	1004	Virat	Kohli	400000	40000	
6	1005	Mahendra	Dhoni	500000	50000	
7						

1. Start project as sequence



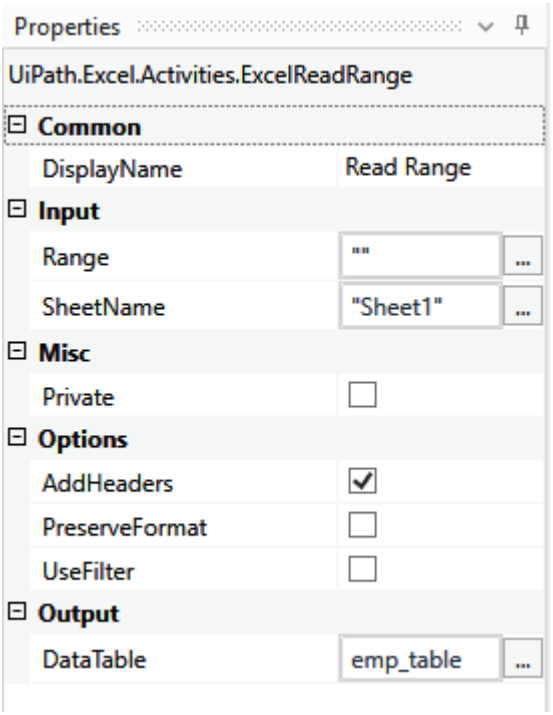
2. Drag Excel Application Scope Activity from Activity Panel and enter the excel file path.



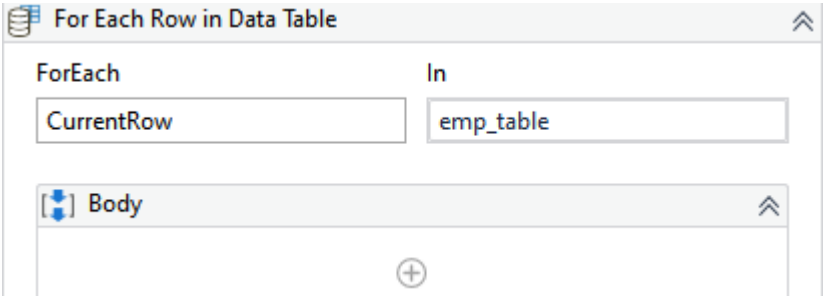
3. Add “Read Range” from activities and add the range of the cells if required.

4. Create a variable of type DataTable (here variable name: emp_table variable type: DataTable). Enter the variable in the Read Range Output>DatableTable attribute.

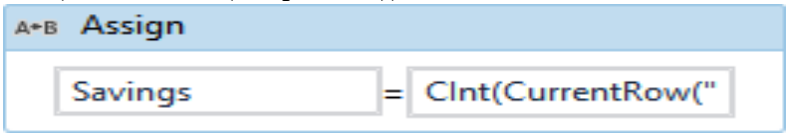
Name	Variable type	Scope	Default
emp_table	DataTable	Saurabh Yadav 6A Sequence	Enter a VB expression



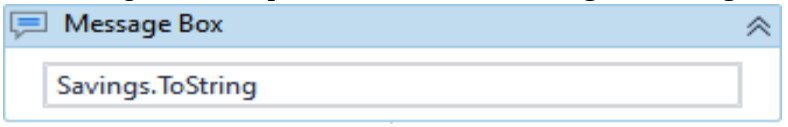
5. Select “For Each Row” and enter Input DataTable (here emp_table).



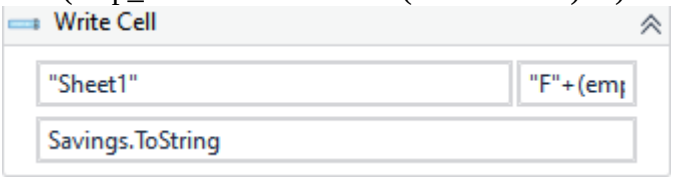
6. Inside Body insert “Assign” variable (Saving) with int32 as variable type .
7. Enter the following in value part of assign CInt(CurrentRow("Salary"))-CInt(CurrentRow("Expenses")).



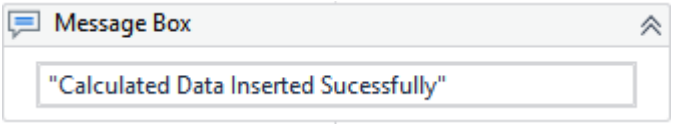
8. A “Message Box” to print the result converting it to string.



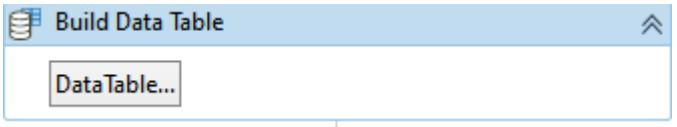
9. To insert the Saving value in the excel use Write Cell Activity. Give the Savings Variable in Value. In Range type: "F"+(emp_table.Rows.IndexOf(CurrentRow)+2).ToString.

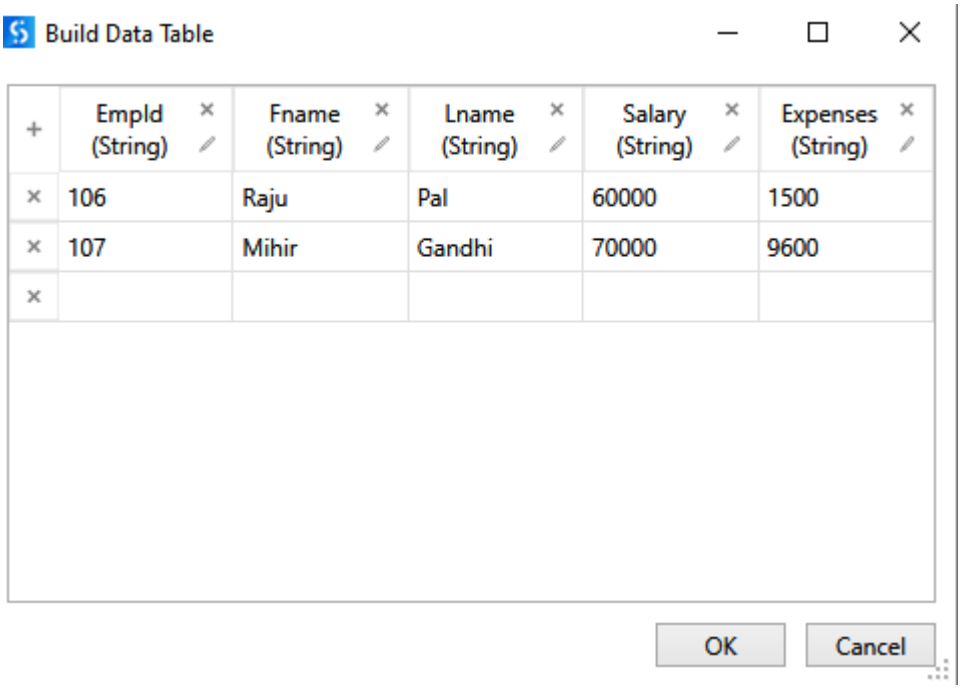


10. Add a Message Box to indicate that the calculated values have been successfully inserted.

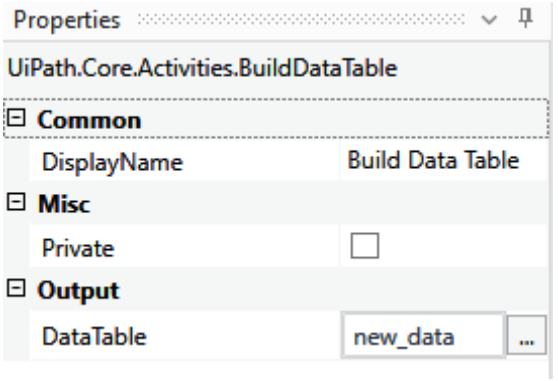


11. In order to append new data create data table using “Build Data Table” and insert the values.

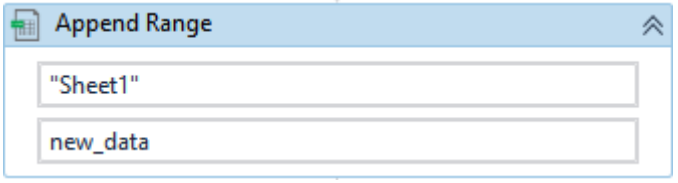




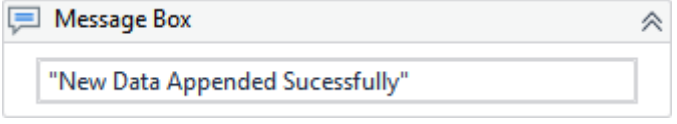
12. Create a new variable with name: new_data and variable type: DataTable and pass it to the DataTable field in Output attribute of Build datatable activity.



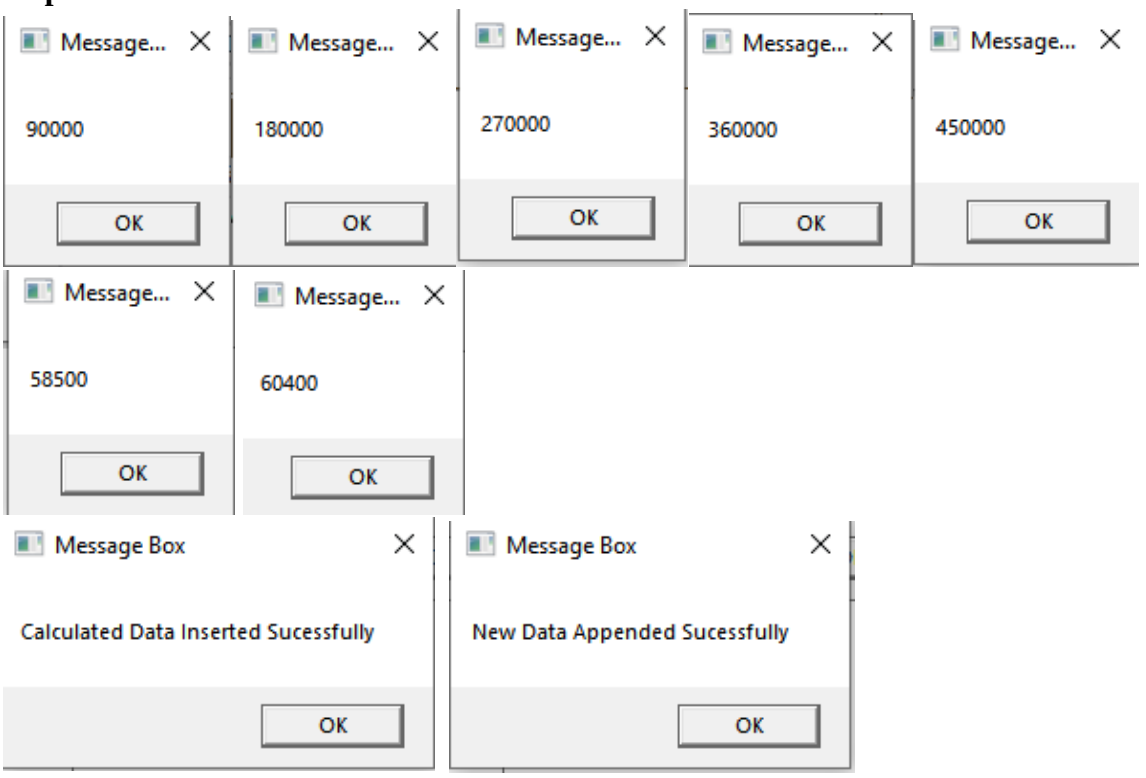
13. Select “Append Range” and insert DataTable name (“new_data”).



14. Finally, a “Message Box” to print a confirmation message.



Output:



Final Output:

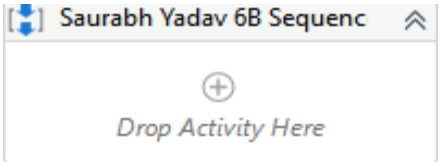
Emp_Id	F_name	L_name	Salary	Expenses	Saving
1001	Saurabh	Yadav	100000	10000	90000
1002	Pankaj	Gavali	200000	20000	180000
1003	Bharat	Bhagat	300000	30000	270000
1004	Virat	Kohli	400000	40000	360000
1005	Mahendra	Dhoni	500000	50000	450000
106	Raju	Pal	60000	1500	58500
107	Mihir	Gandhi	70000	9600	60400

6B. Create automate the process to extract data from an excel file into a data table and vice versa.
Aim: Using one excel sheet data to copy and writing it into other excel sheet.
(Using excel data given below)

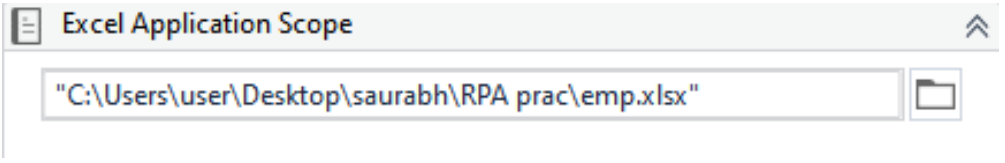
Emp_Id	F_name	L_name	Salary	Expenses	Saving
1001	Saurabh	Yadav	100000	10000	90000
1002	Pankaj	Gavali	200000	20000	180000
1003	Bharat	Bhagat	300000	30000	270000
1004	Virat	Kohli	400000	40000	360000
1005	Mahendra	Dhoni	500000	50000	450000
106	Raju	Pal	60000	1500	58500
107	Mihir	Gandhi	70000	9600	60400

Step:

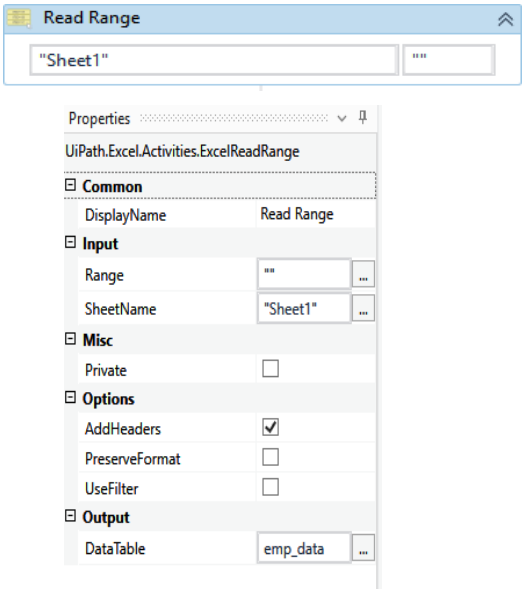
1. Start project with sequence.



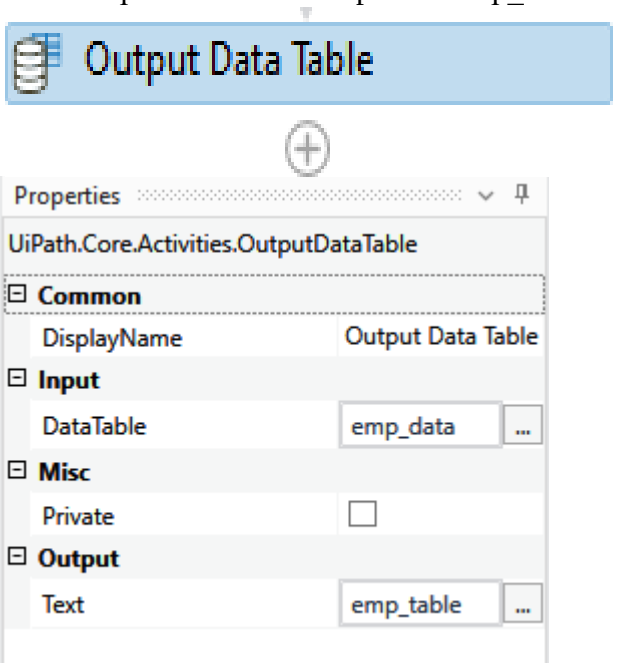
1. Add "Excel Application Scope" and enter the path of excel file.



2. Inside body add "Read Range" variable name and datatype as datatable(emp_data) and range to extract data from excel (blank means entire sheet).

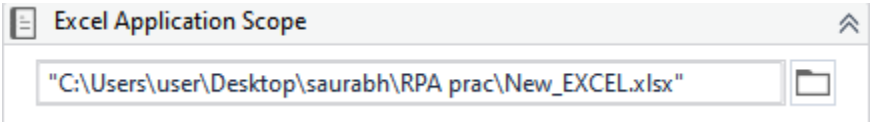


3. Add “Output Data Table” input as “emp_data” output as “emp_tabl

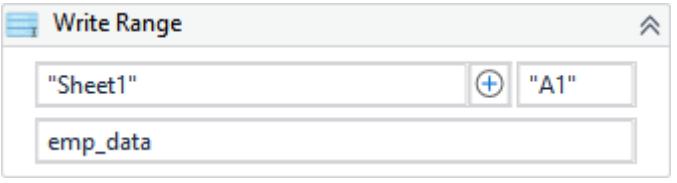


4. “Message Box” to print the result adding variable “emp_table” (here extracted data will be printed).

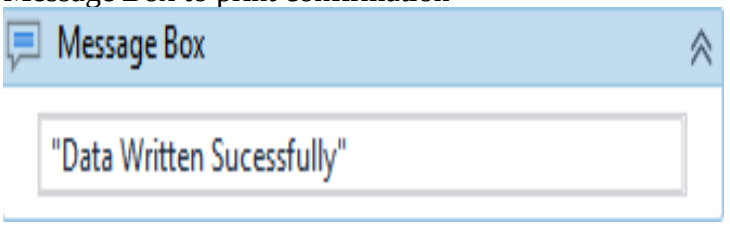
5. Insert “excel application scope” and new excel sheet path.



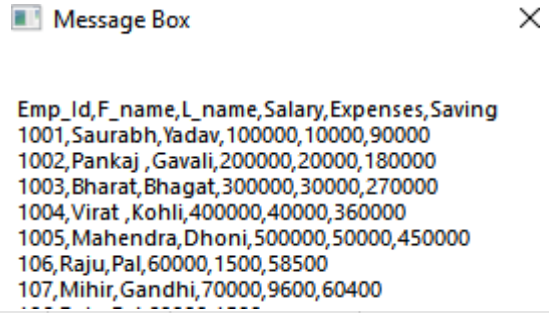
6. Insert “Write Range” range from where the data should be pasted and variable “emp_data”.

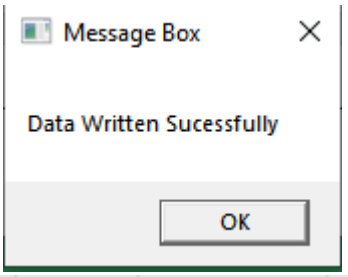


7. Message Box to print confirmation



Output:





	A	B	C	D	E	F	G
1	1001	Saurabh	Yadav	100000	10000	90000	
2	1002	Pankaj	Gavali	200000	20000	180000	
3	1003	Bharat	Bhagat	300000	30000	270000	
4	1004	Virat	Kohli	400000	40000	360000	
5	1005	Mahendra	Dhoni	500000	50000	450000	
6	106	Raju	Pal	60000	1500	58500	
7	107	Mihir	Gandhi	70000	9600	60400	
8	106	Raju	Pal	60000	1500		
9	107	Mihir	Gandhi	70000	9600		
10							

Practical No: 7(a)

Aim: Implement the attach window activity.

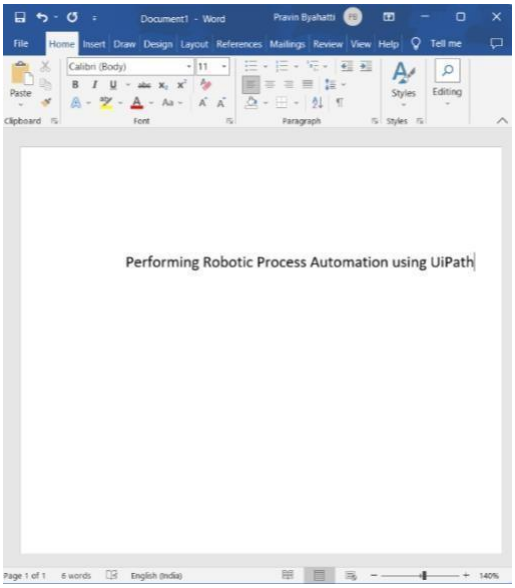
1) Open UiPath Studio and click on Blank to start a fresh project. Give it a meaningful name. Like Pratical7A.

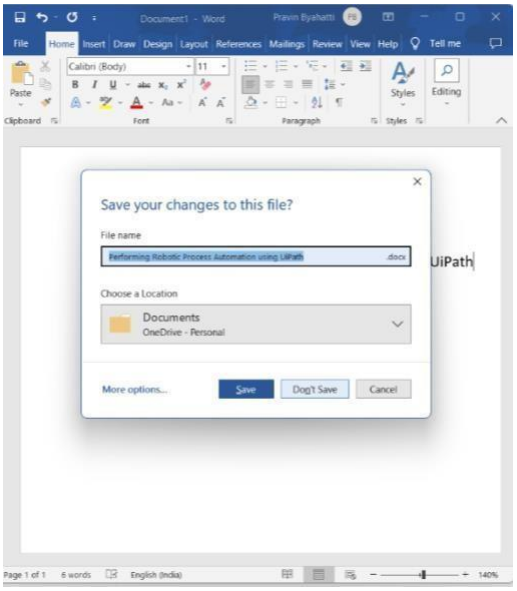
2) Open Main.xaml from Project tab. On the Designer panel, double click a flowchart activity from the Activities panel.

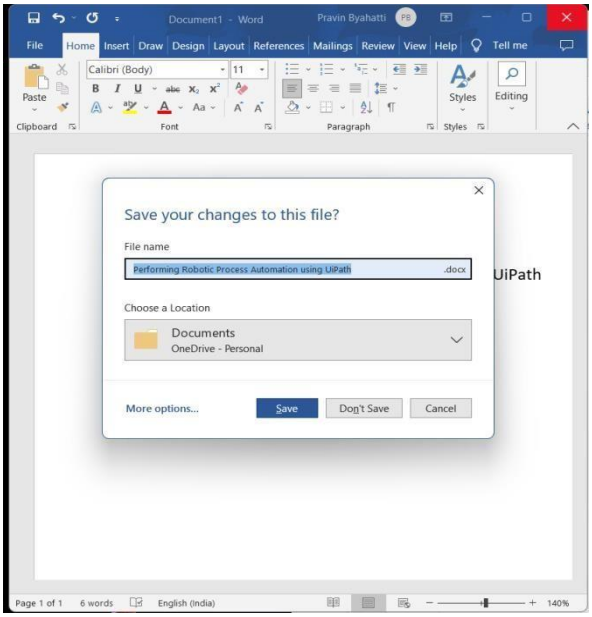
3) Create a sequence and set it as Start node.

4) Drag and drop attach window activity and indicate an untitled word document.

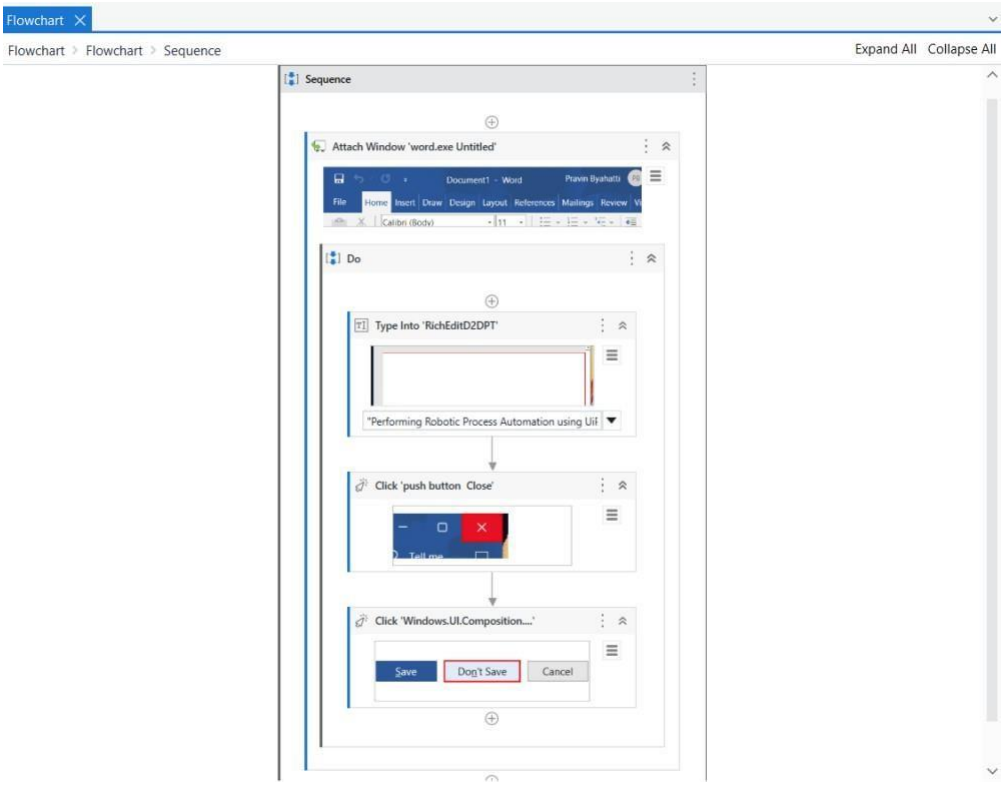
5) In the do section add type into activity to insert some text and two click activities to close the word by clicking on don't save option.







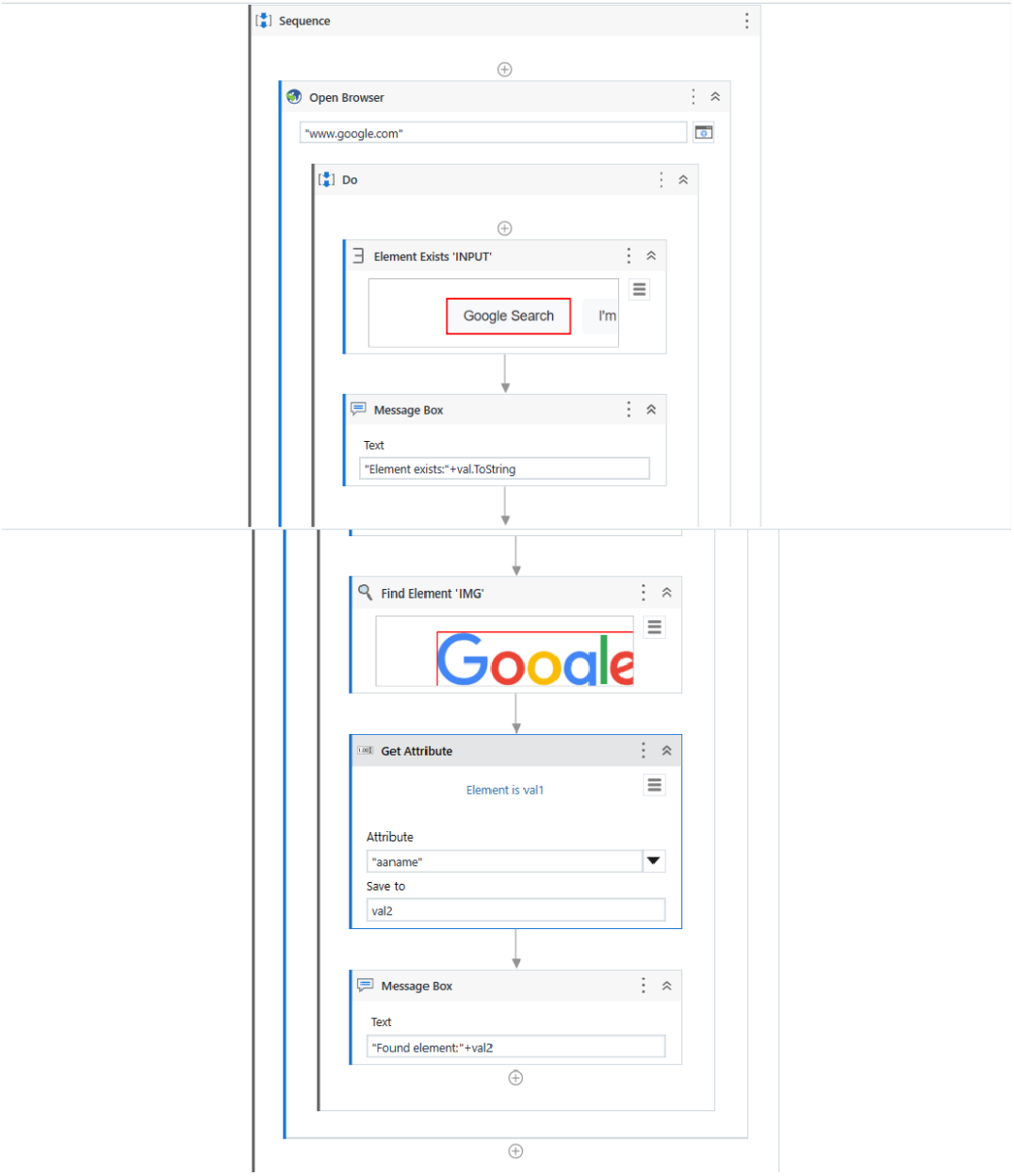
Output:


Flowchart
Flowchart > Flowchart > Sequence
Expand All Collapse All
Sequence
Attach Window 'word.exe Untitled'
Do
Type Into 'RichEditD2DPT'
"Performing Robotic Process Automation using UI
Click 'push button Close'
Click 'Windows.UI.Composition....'
Save
Don't Save
Cancel

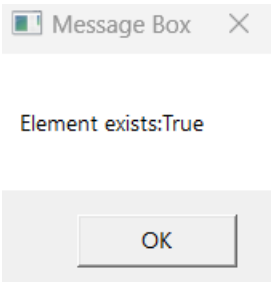
Practical No: 7(b)

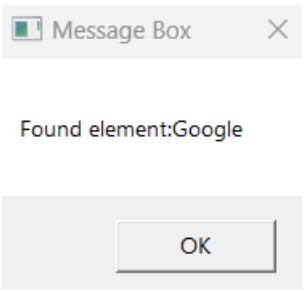
Aim: Find different controls using UiPath.

1) Create a sequence and set it as start node.
2) Drag and drop open browser and specify the url.
3) In the do section use the activity Element Exists and indicate it at Google Search button and store the Boolean value in Exists attribute.
4) Use the message box to display the Boolean value.
5) Drag and drop the Find Element attribute and indicate it at Google image and the Element in FoundElement attribute.
6) To get the name of UI element use get attribute and specify the Element and Attribute value.
7) Use the message box to display the name.



Output:


Message Box
Element exists:True
OK

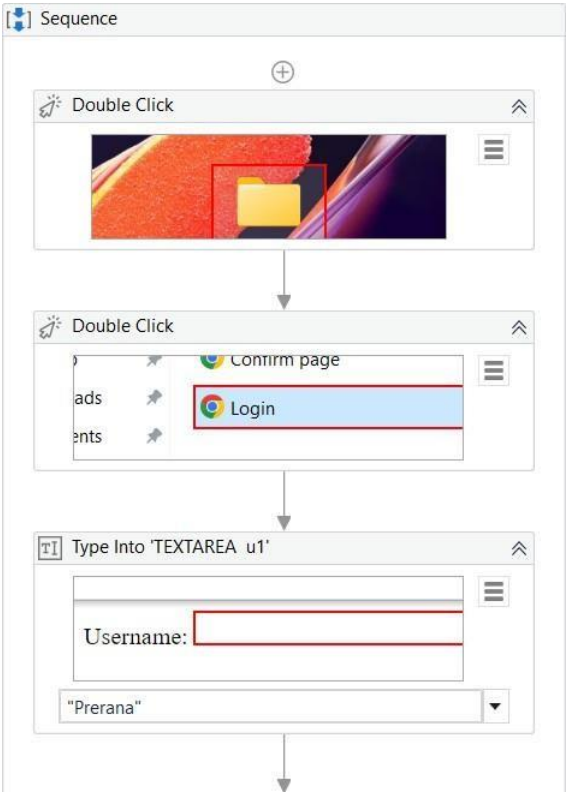

Message Box
Found element:Google
OK

Practical N0: 7(c)

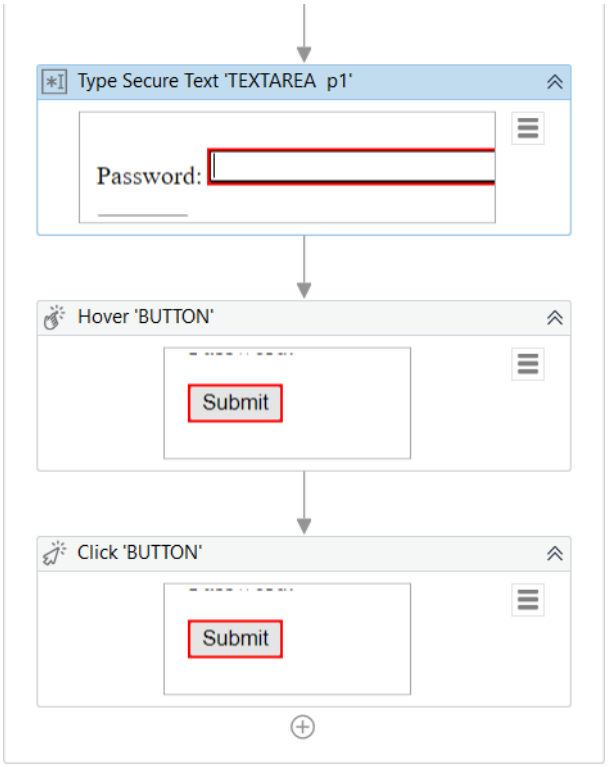
Aim: Demonstrate the following activities in UiPath:
i. Mouse (click, double click and hover)
ii. Type into
iii. Type Secure text

i. Steps:

1) Create a flowchart activity.
2) Drag and drag a sequence activity from activities panel.
3) Connect the start node to this sequence
4) Drag and drop the double click activity and indicate the folder icon to open it.
5) Drag and drop another double click activity and indicate the Login page to open it in browser.
6) Drag and drop type into activity and indicate the text area of username in the page and pass the value in double quotes.

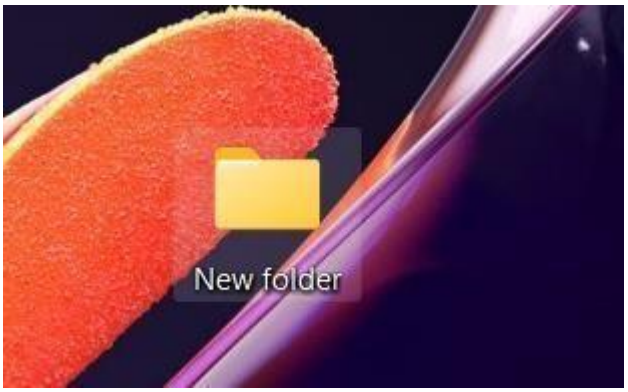


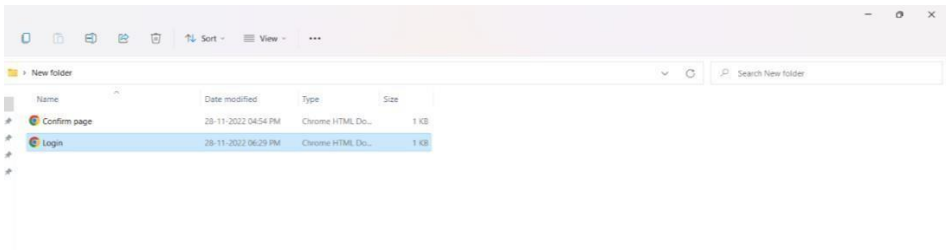
1) Drag and drop the type secure text activity.
2) Create a variable pwd with data type as SecureString and provide the value using Net package and convert it into SecureString and pass this value in SecureText of the input of type secure text.
3) Drag and drop the hover button to point at Submit button.
4) Drag and drop another click button and indicate it on the submit button.

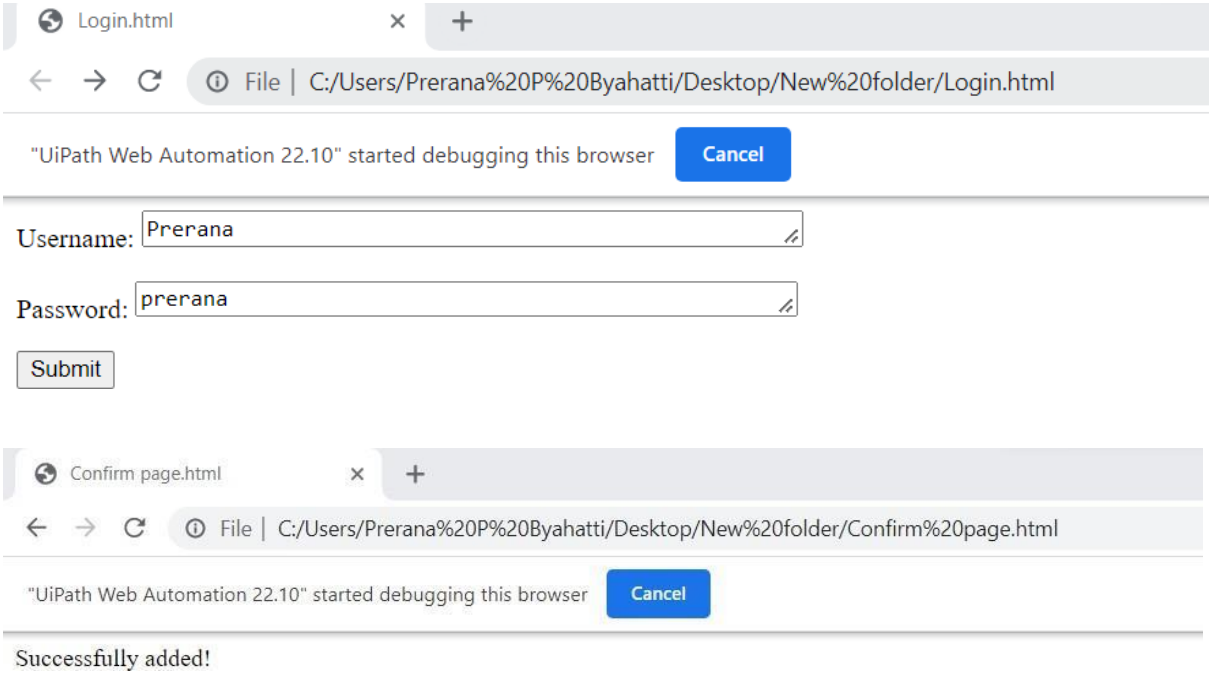


Name	Variable type	Scope	Default
pwd	SecureString	Sequence	new System.Net.NetworkCredential("","prerana").SecurePassword
Create Variable			

Output:






Login.html
File | C:/Users/Prerana%20P%20Byahatti/Desktop/New%20folder/Login.html
"UiPath Web Automation 22.10" started debugging this browser
Cancel
Username: Prerana
Password: prerana
Submit

Confirm page.html
File | C:/Users/Prerana%20P%20Byahatti/Desktop/New%20folder/Confirm%20page.html
"UiPath Web Automation 22.10" started debugging this browser
Cancel
Successfully added!

Practical No: 8(a)

Aim: Demonstrate the following events in UiPath:

i. Element triggering event

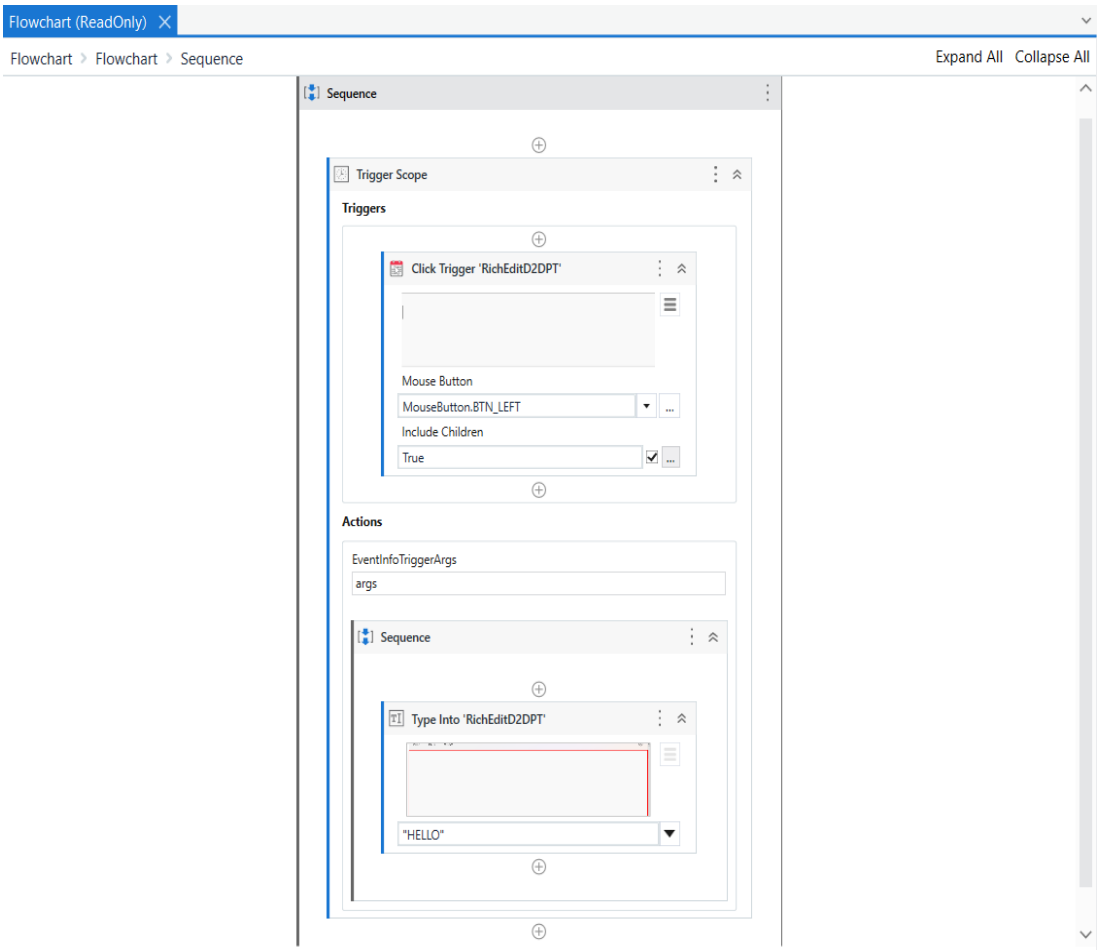
1) Open UiPath Studio and click on Blank to start a fresh project. Give it a meaningful name. Like Pratical8A.

2) Open Main.xaml from Project tab. On the Designer panel, double click a flowchart activity from the Activities panel.

3) Create a sequence and set it as Start node.

4) Drag and drop a trigger scope activity and in triggers add click trigger – indicate an untitled notepad and specify the mouse button.

5) In actions section's sequence add a type into activity - indicate an untitled notepad and add some text.



Output:

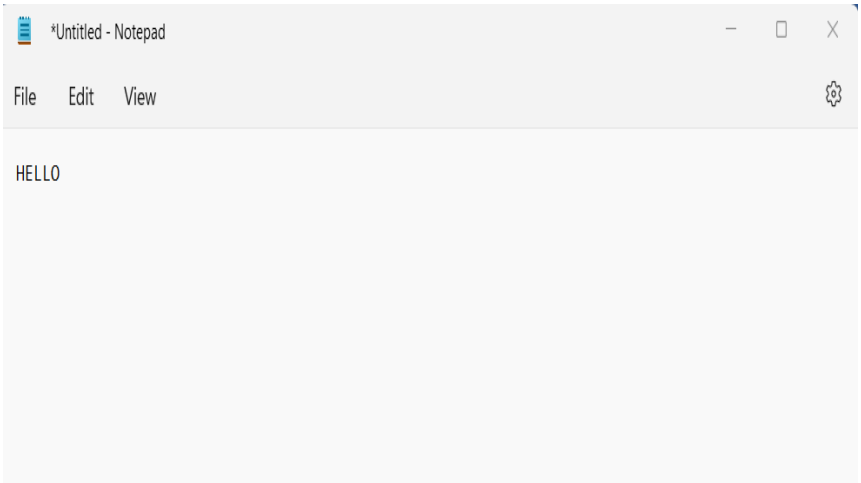
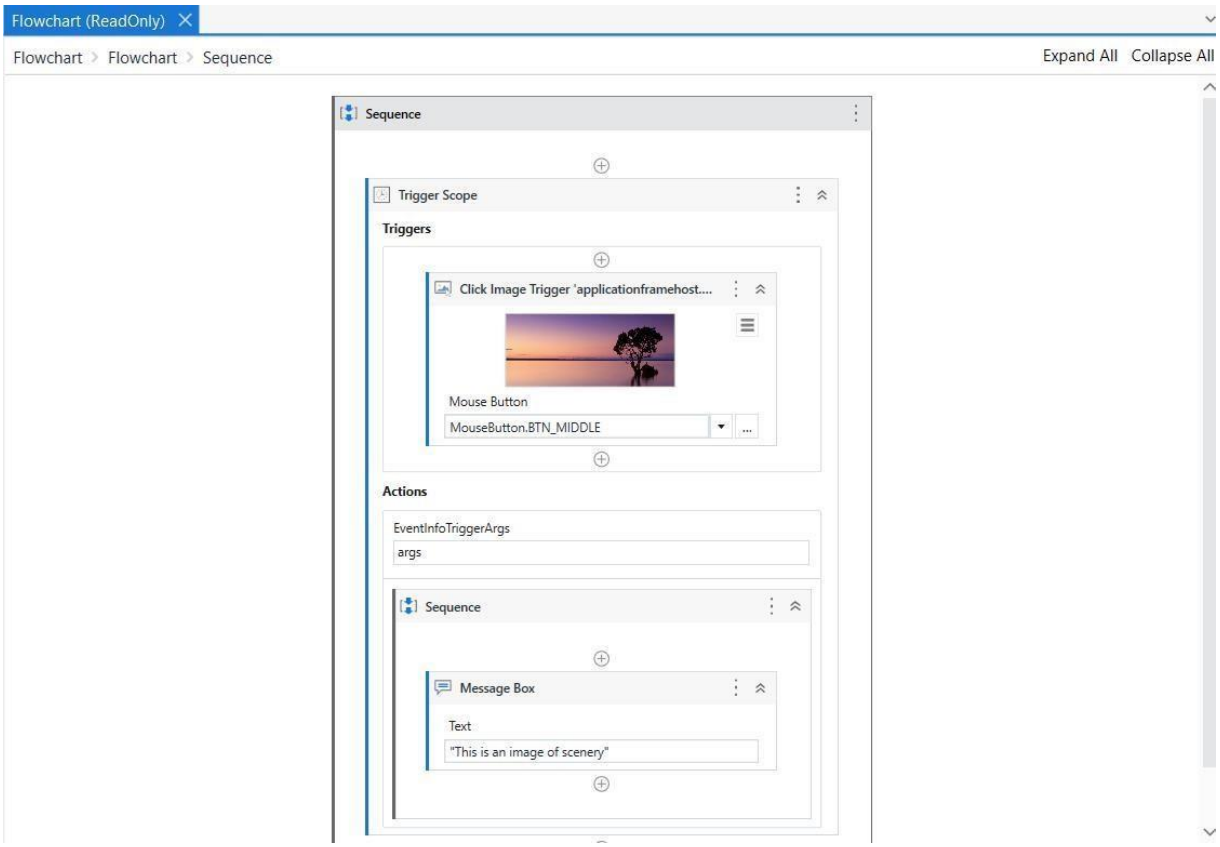
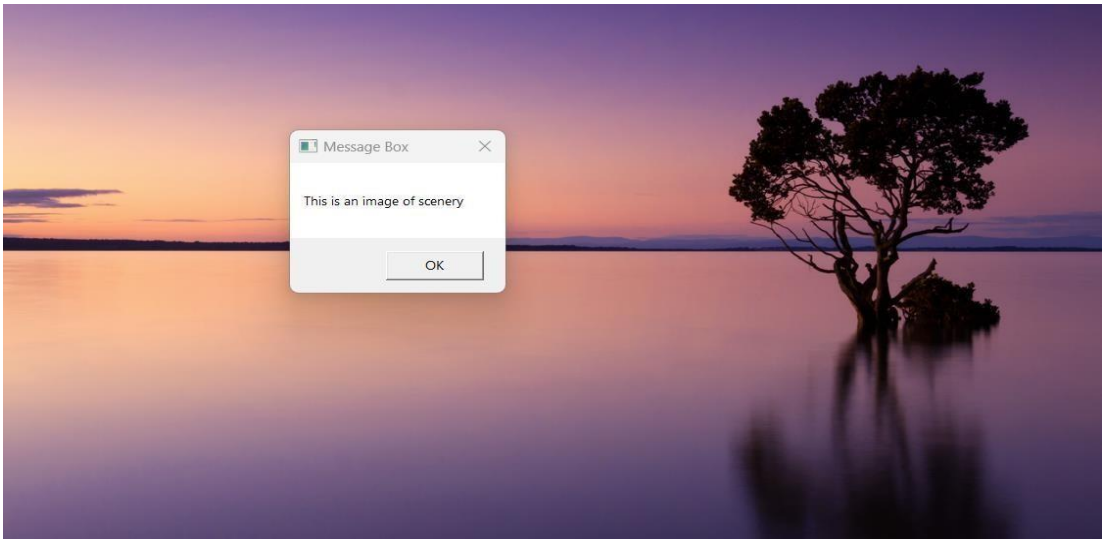


Image triggering event

1) Create another sequence and set this as Start node.
2) Drag and drop a trigger scope activity and in triggers section add click image trigger – indicate a region of image and specify mouse button.
3) In action's sequence section add a message box and enter some text to display.

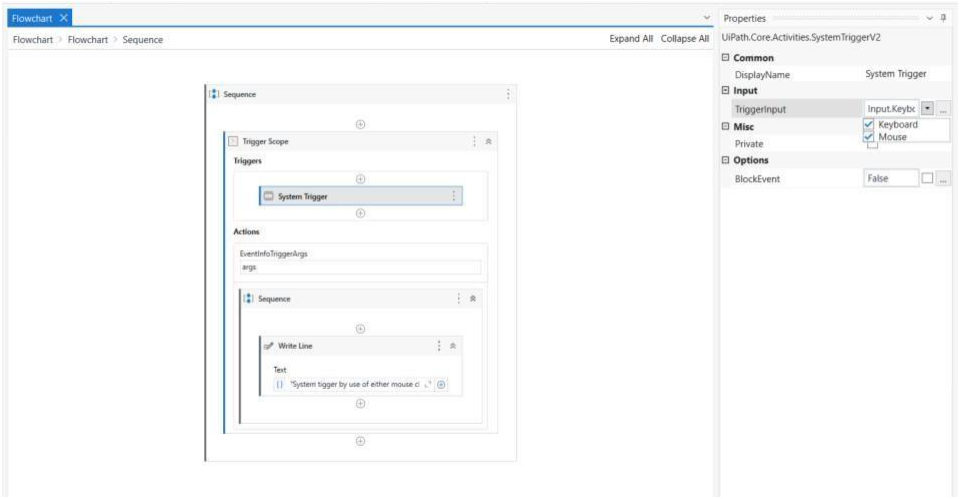


Output:

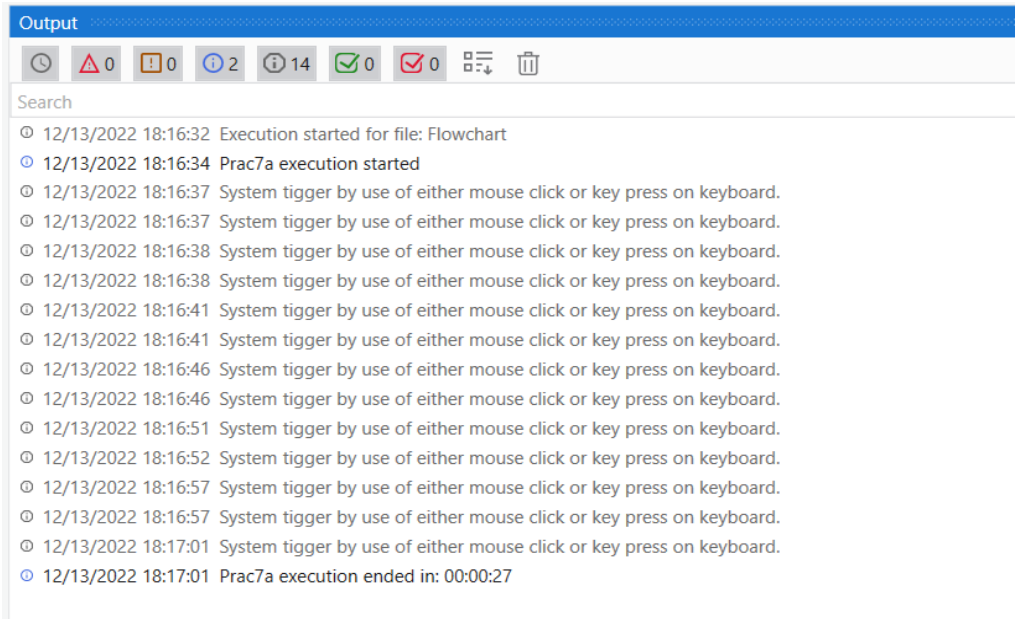


System Triggering Event

1) Create another sequence and set this as Start node.
2) Drag and drop a trigger scope activity and in triggers section add system trigger – check both keyboard and mouse from its properties panel.
3) In action's sequence section add a Write Line activity and enter some text to display.



Output:


Output
0
0
2
14
0
0
Search
12/13/2022 18:16:32 Execution started for file: Flowchart
12/13/2022 18:16:34 Prac7a execution started
12/13/2022 18:16:37 System tigger by use of either mouse click or key press on keyboard.
12/13/2022 18:16:37 System tigger by use of either mouse click or key press on keyboard.
12/13/2022 18:16:38 System tigger by use of either mouse click or key press on keyboard.
12/13/2022 18:16:38 System tigger by use of either mouse click or key press on keyboard.
12/13/2022 18:16:41 System tigger by use of either mouse click or key press on keyboard.
12/13/2022 18:16:41 System tigger by use of either mouse click or key press on keyboard.
12/13/2022 18:16:46 System tigger by use of either mouse click or key press on keyboard.
12/13/2022 18:16:46 System tigger by use of either mouse click or key press on keyboard.
12/13/2022 18:16:51 System tigger by use of either mouse click or key press on keyboard.
12/13/2022 18:16:52 System tigger by use of either mouse click or key press on keyboard.
12/13/2022 18:16:57 System tigger by use of either mouse click or key press on keyboard.
12/13/2022 18:16:57 System tigger by use of either mouse click or key press on keyboard.
12/13/2022 18:17:01 System tigger by use of either mouse click or key press on keyboard.
12/13/2022 18:17:01 Prac7a execution ended in: 00:00:27

Practical No: 8(b)

Aim: Automate the following screen scraping methods using UiPath
i. Full Test
ii. Native
iii. OCR

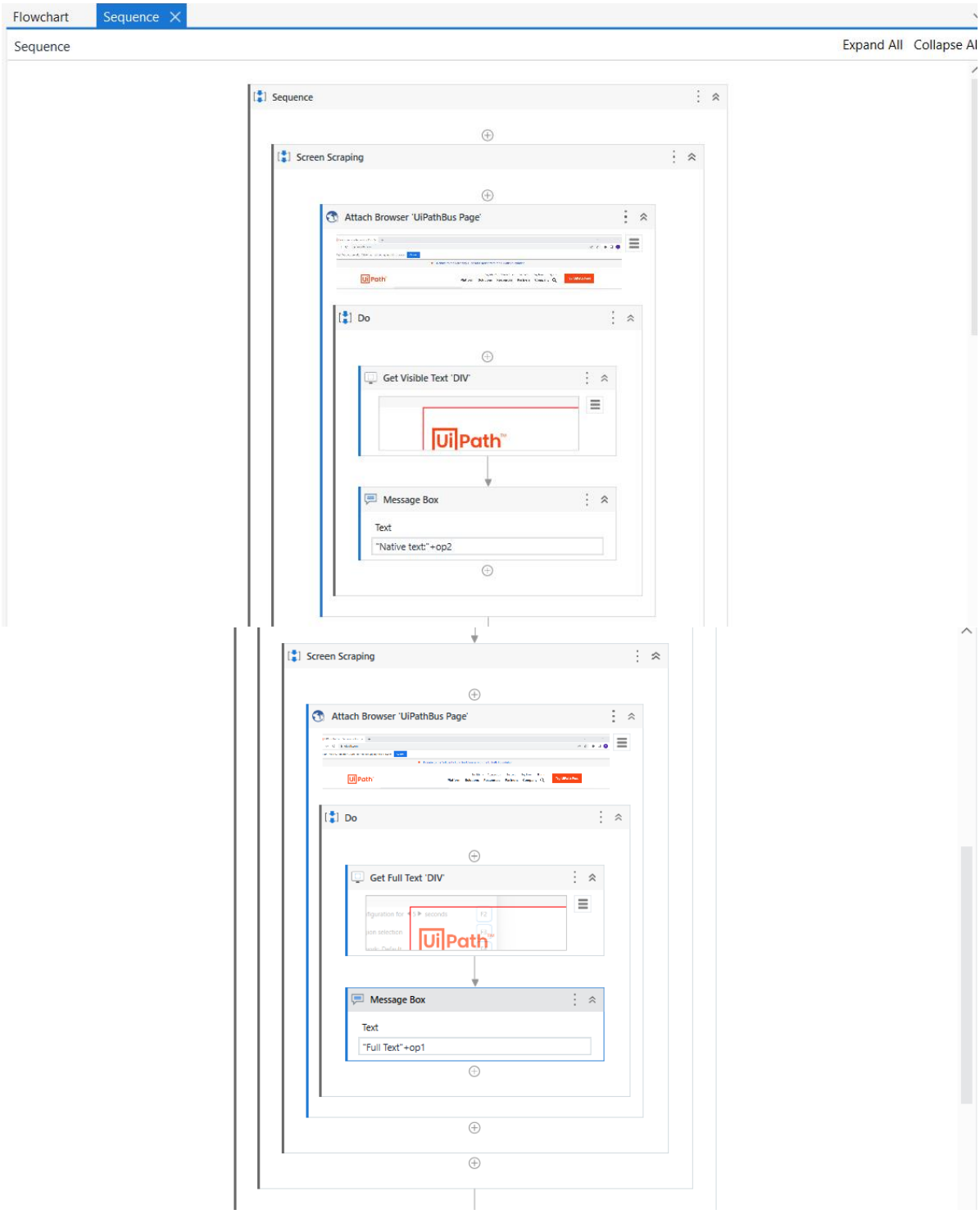
1) Open UiPath Studio and click on Blank to start a fresh project. Give it a meaningful name. Like Pratical8B.

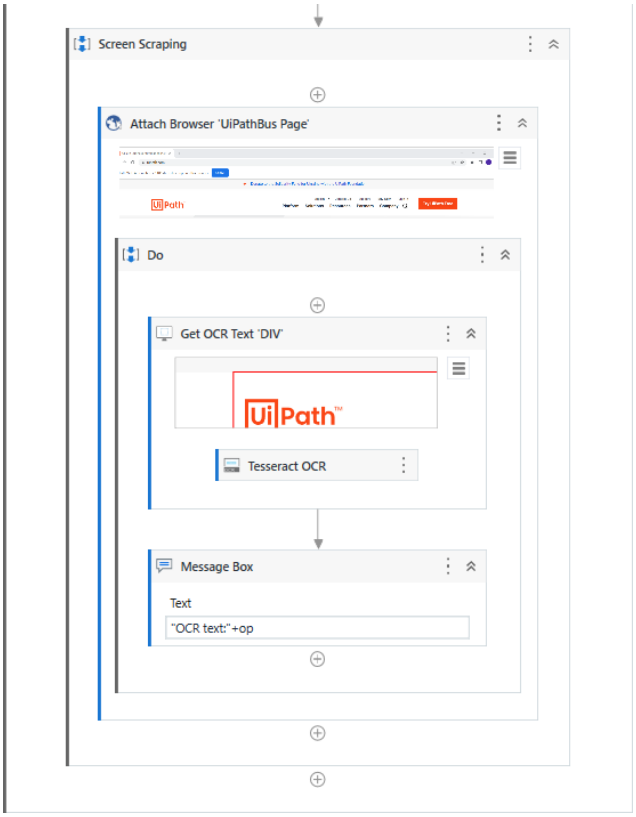
2) Open Main.xaml from Project tab. On the Designer panel, double click a flowchart activity from the Activities panel.

3) Click on Screen Scraping option from design tab and specify the region from which we need to extract the information.

4) Specify scraping methods as full text and click on finish.

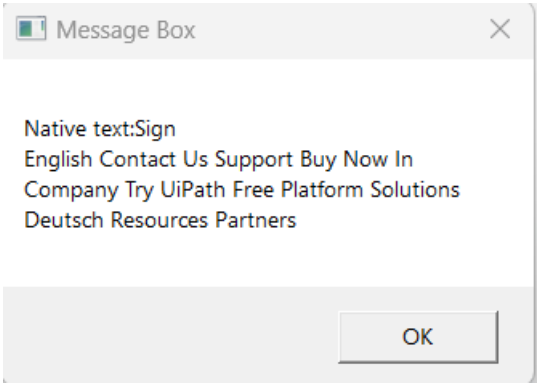
5) Repeat step 3 and 4 by changing methods as Native and OCR.


Flowchart
Sequence
Sequence
Expand All
Collapse Al
Sequence
Screen Scraping
Attach Browser 'UiPathBus Page'
Do
Get Visible Text 'DIV'
Message Box
Text
"Native text:"+op2
Screen Scraping
Attach Browser 'UiPathBus Page'
Do
Get Full Text 'DIV'
Message Box
Text
"Full Text"+op1

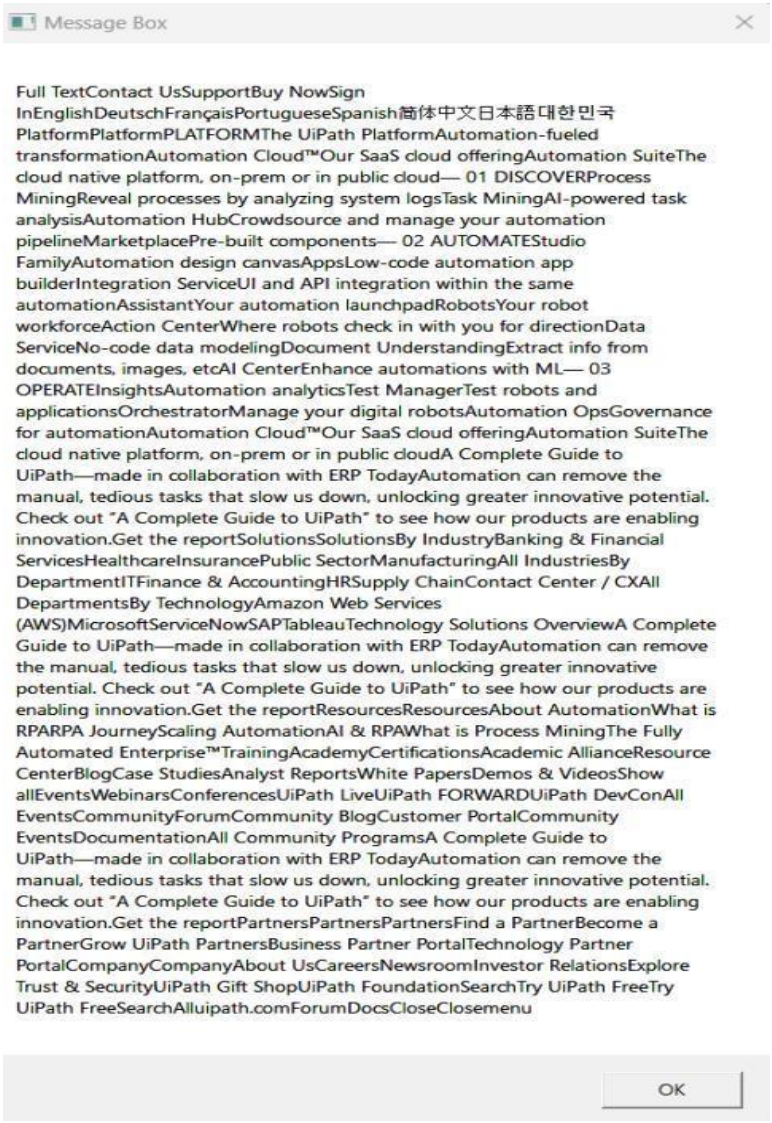


Output:

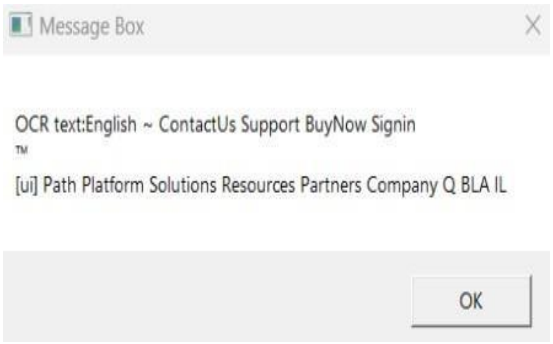
Native text:



Full Text:



OCR Text:

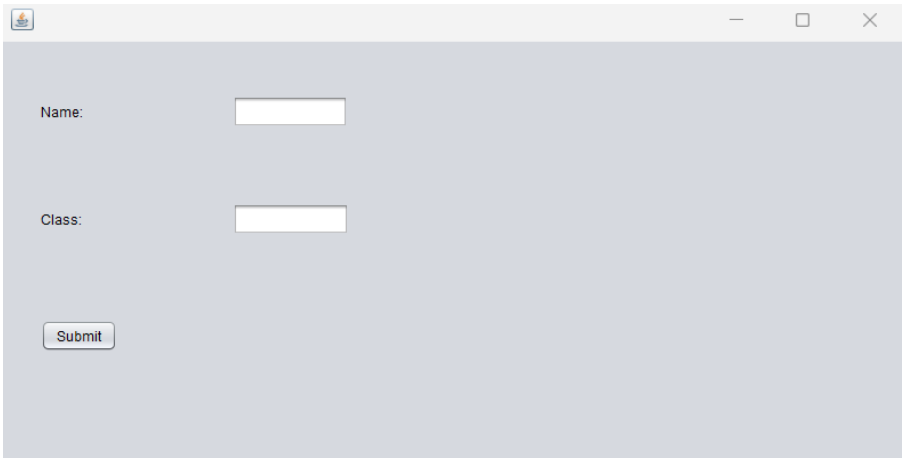


Practical No: 8(c)

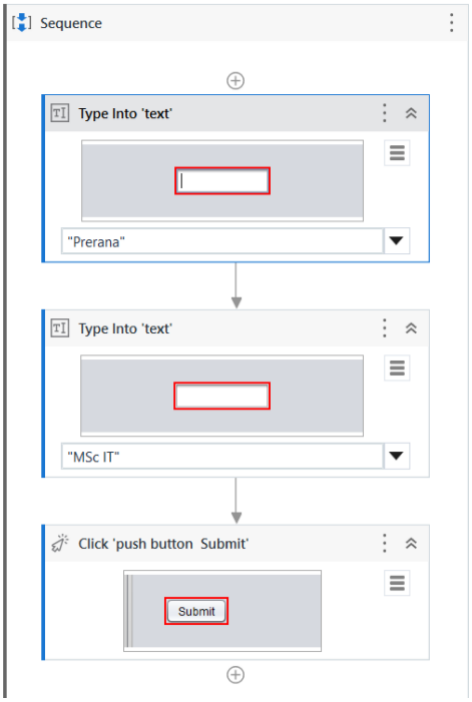
Aim: Install and automate any process using UiPath with the following plug-ins:
i. Java Plugin

1) Create Java Swing Application through NetBeans.

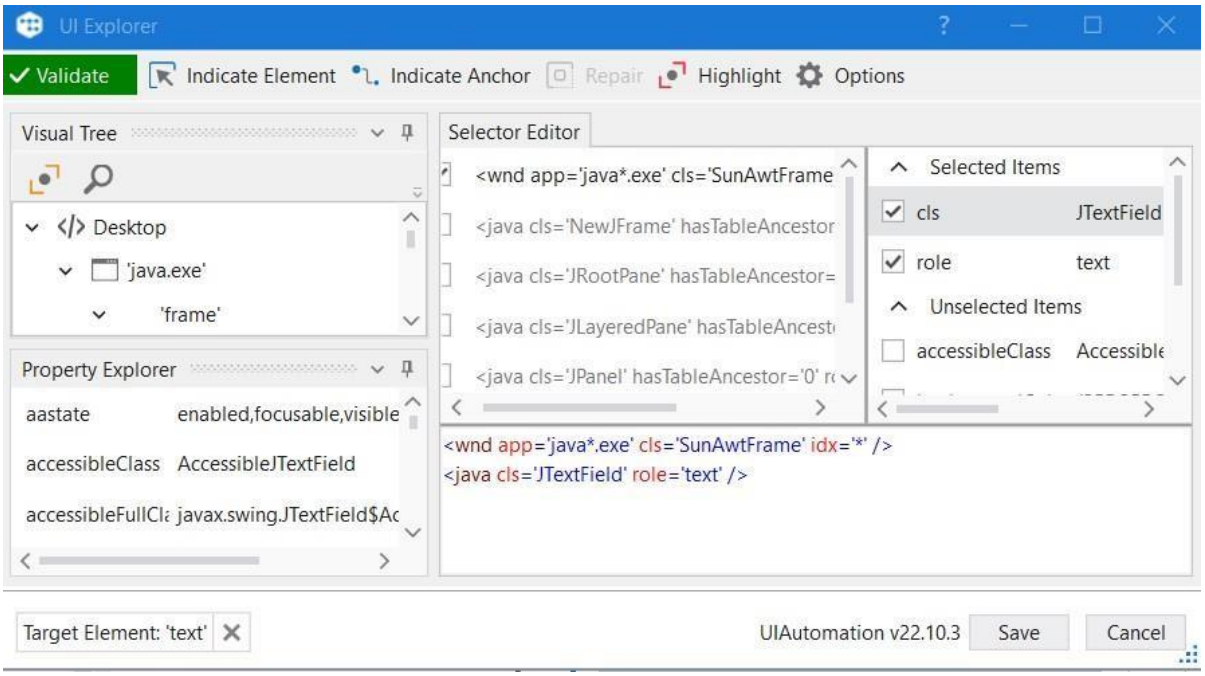
```
public class NewJFrame extends javax.swing.JFrame {
    public NewJFrame() {
        initComponents(); }
@SuppressWarnings("unchecked")
jLabel3.setText("Submitted successfully!");  }
public static void main(String args[]) {
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new NewJFrame().setVisible(true);  }  });
    } private javax.swing.JButton jButton1;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JTextField jTextField1; }
```



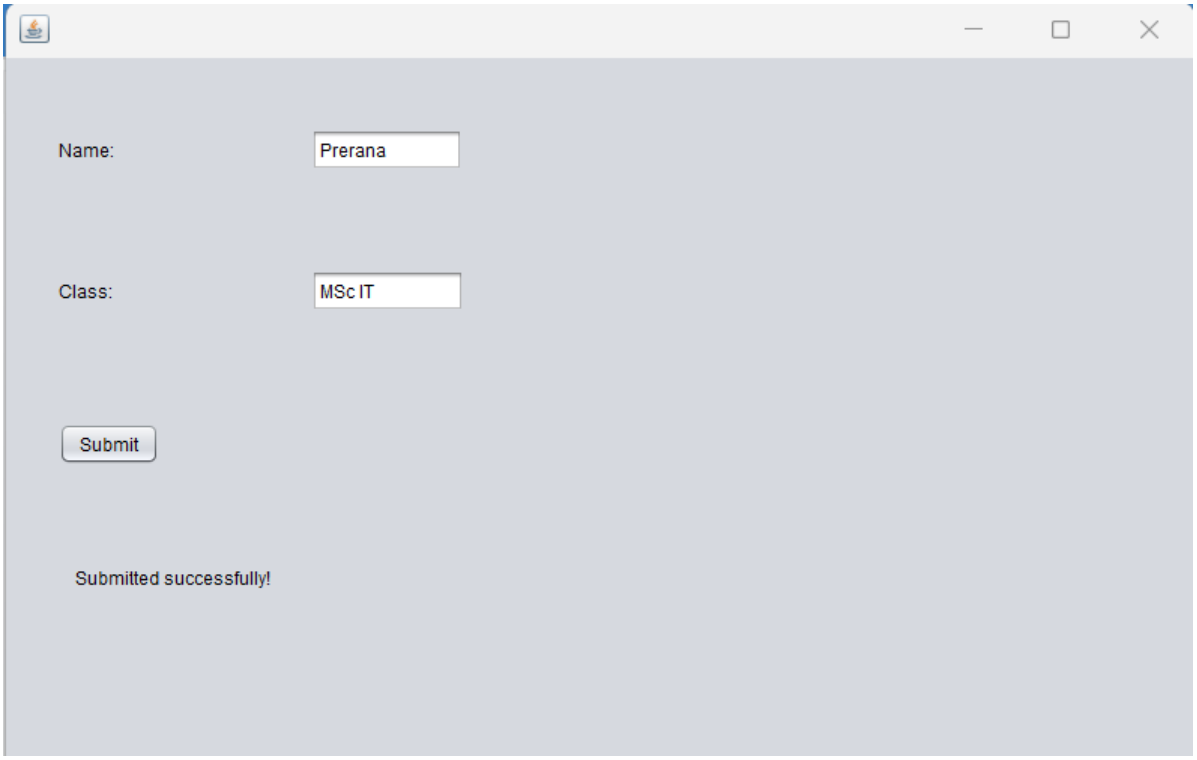
1) Create a Sequence and set it as start node.
2) Drag type into activities and indicate on text areas as shown below.
3) Then click on submit button.



1) If the java plugin is installed properly then in UI explorer the cls will display value as SunAwtFrame.

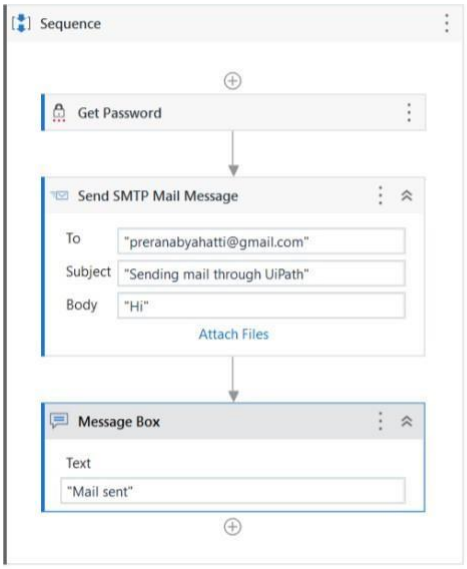


Output:

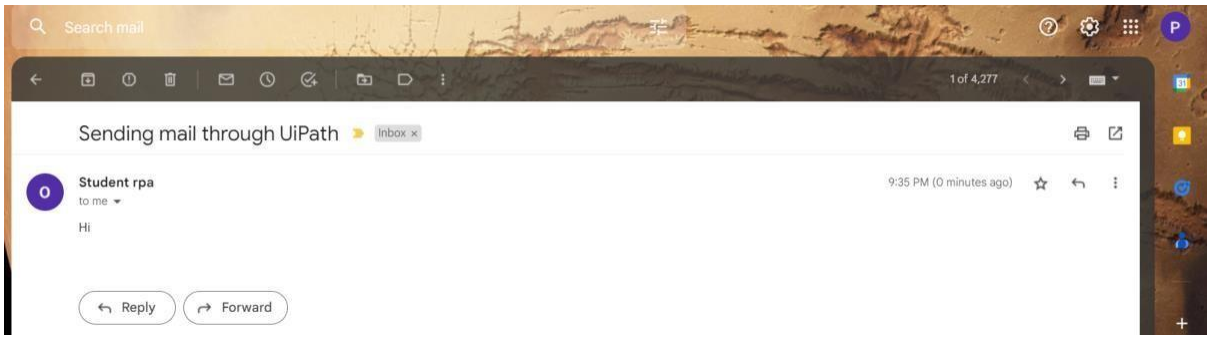


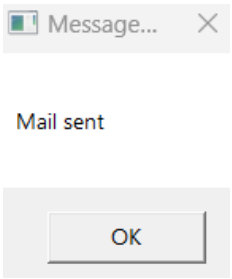
ii. Mail Plugin

1) Create a sequence and set it as Start node.
2) Drag and drop a get password activity type the password in its properties panel and store the output in result by using a string variable.
3) Drag and drop a Send SMTP Mail Message activity and enter to, subject and body values.
4) Provide port as 587 and server as smtp.gmail.com in the host section of properties panel of send smtp mail message.
5) Provide Email(sender) and its corresponding password (by using the variable stored in get password activity) in the Logon section of properties panel of send smtp mail message.
6) Add a message box to inform the user that the mail is sent.


Sequence
Get Password
Send SMTP Mail Message
To
"preranabyahatti@gmail.com"
Subject
"Sending mail through UiPath"
Body
"Hi"
Attach Files
Message Box
Text
"Mail sent"

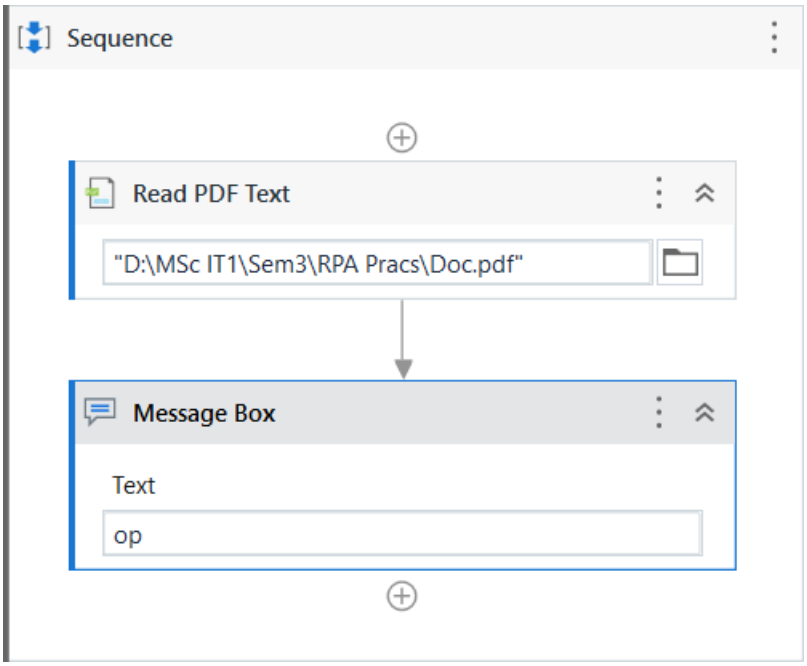
Output:


Search mail
1 of 4,277
Sending mail through UiPath
Inbox
Student rpa
to me
9:35 PM (0 minutes ago)
Hi
Reply
Forward

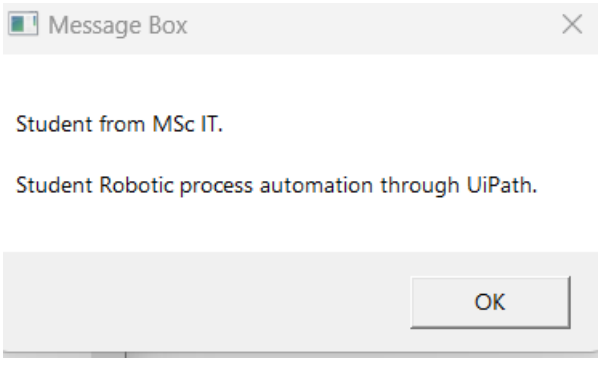

Message...
Mail sent
OK

iii. PDF Plugin

1) Create a sequence and set it as Start node.
2) Drag and drop a Read PDF Text activity and specify the path of the pdf which is needed to be read and store its output in text attribute.
3) Use a message box to display the output.

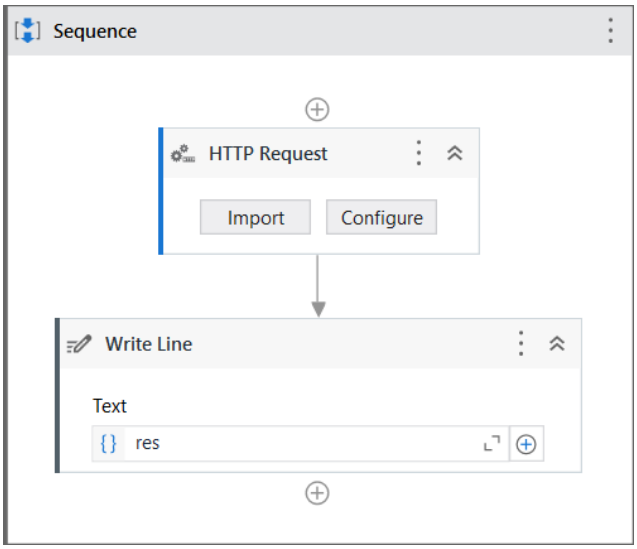


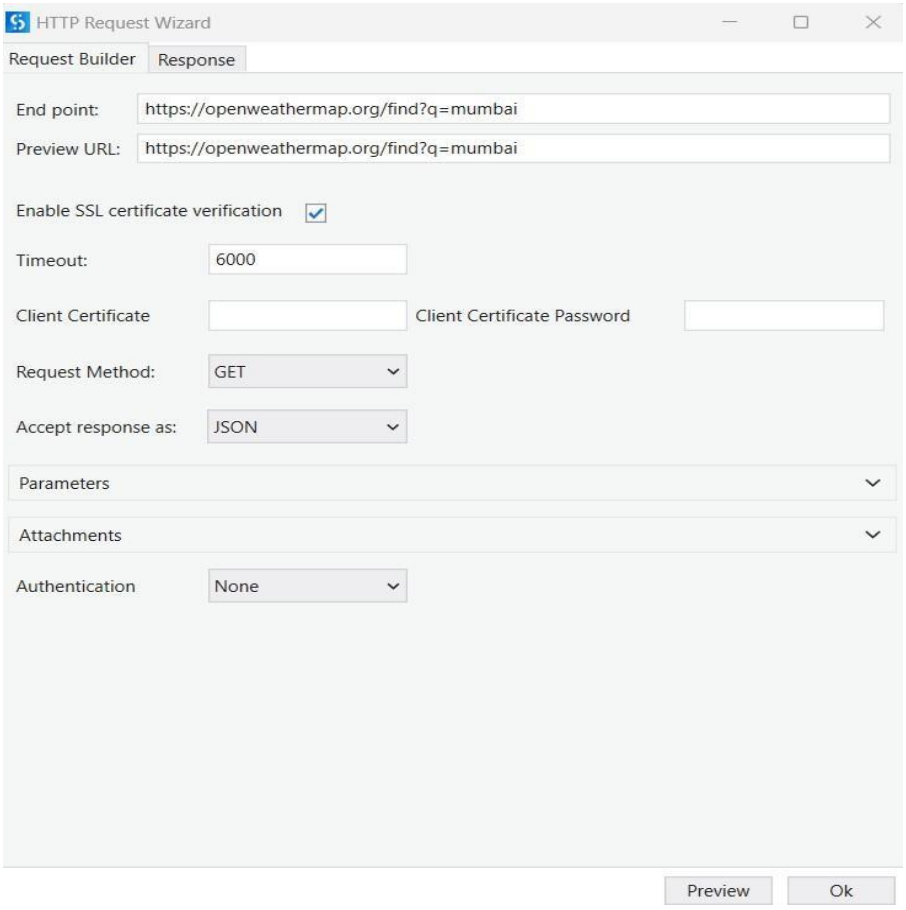
Output:



iv. Web Integration

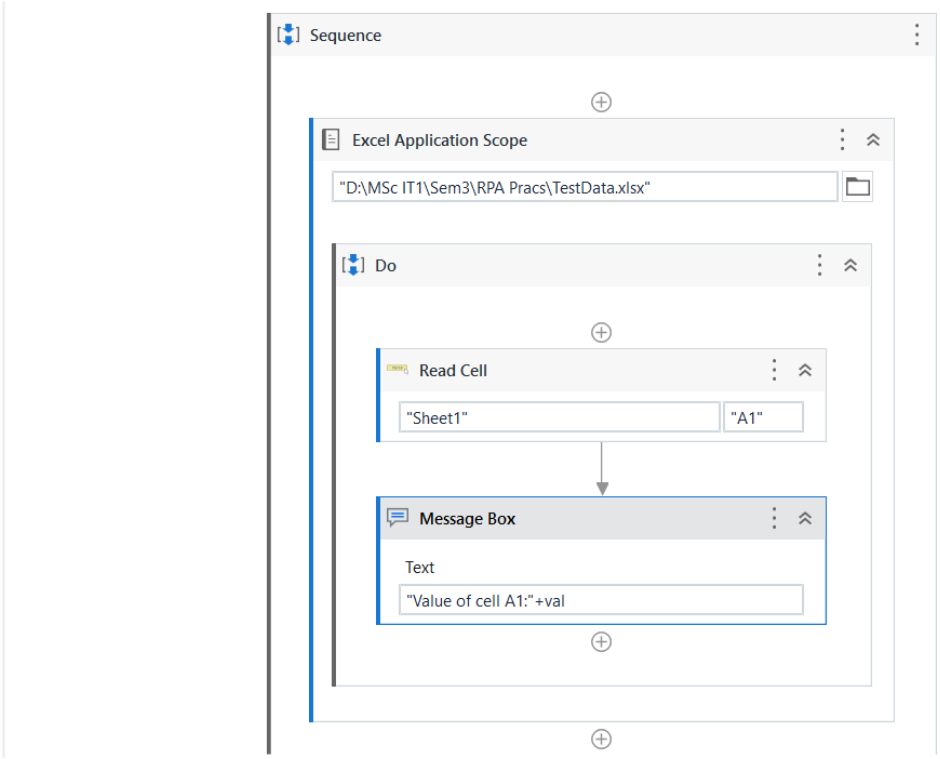
1) Create a sequence and set it as Start node.
2) Drag and drop a HTTP Request and add the values as provided below.
3) Use Write Line to display the output.





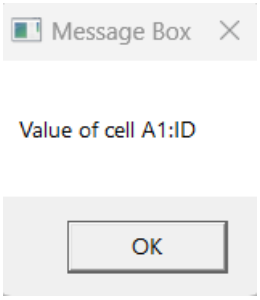
v. Excel Plugin

1) Create a sequence and set it as start node.
2) Drag and drop a excel application scope and specify the path of the excel file which is to be used.
3) Add a Read Cell activity specify the Sheet1 name and cell as A1 and store the output in result attribute.
4) Use the message box to display the output.



	A	B	C	D
1	ID	Fee	Status	Name
2	123	500		Bob
3	456	500		Rob
4	324	500		Tom
5	780	500		Tim

Output:

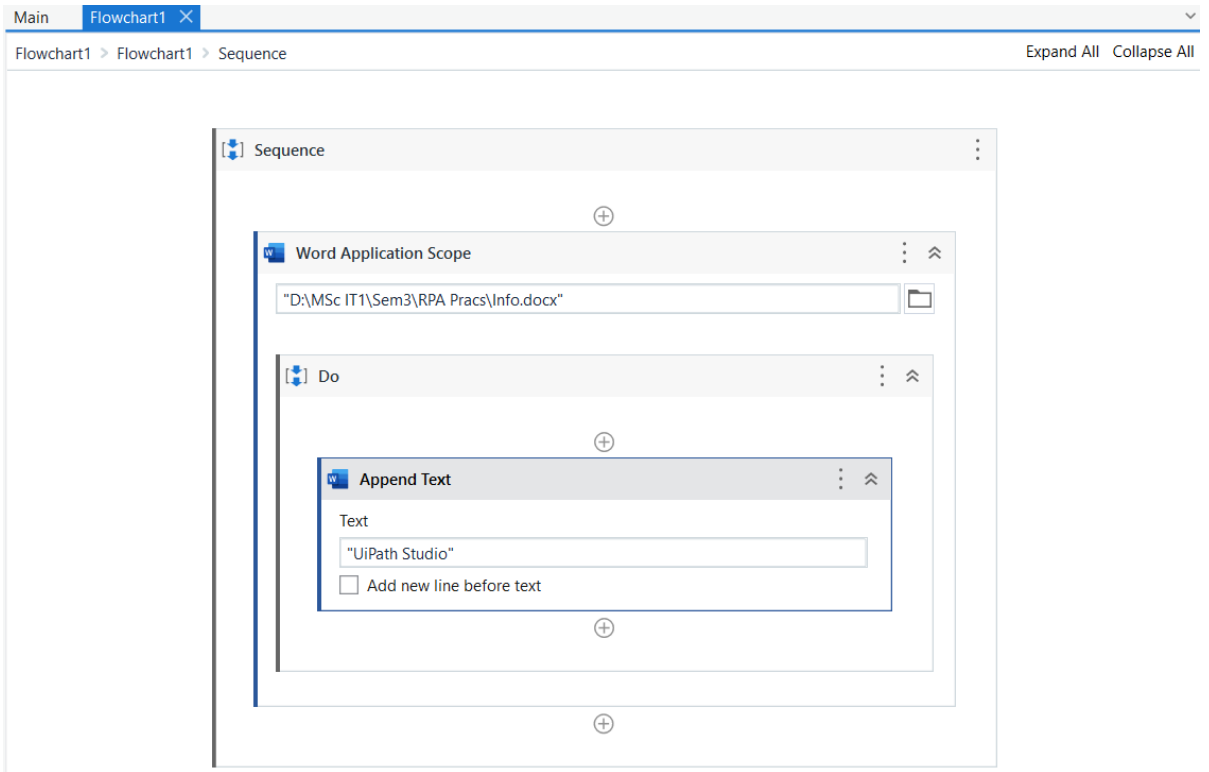


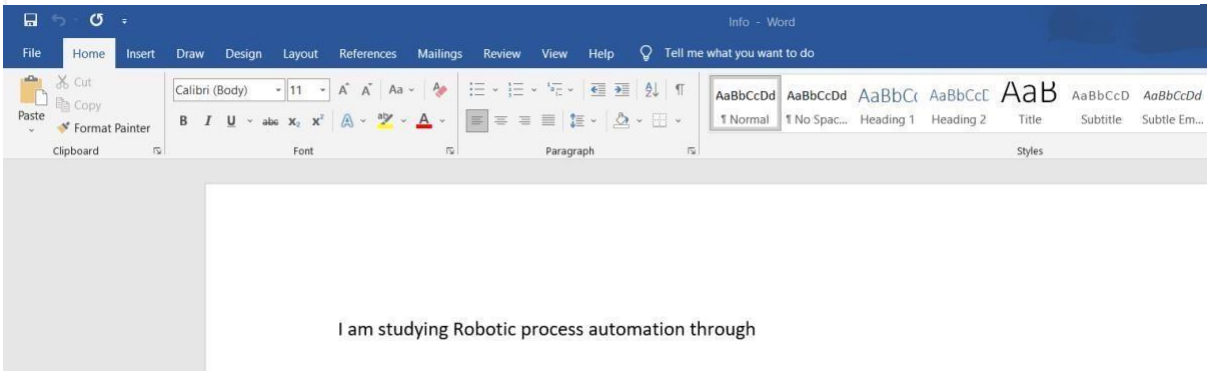
vi. Word Plugin

1. Create a sequence and set it as start node.

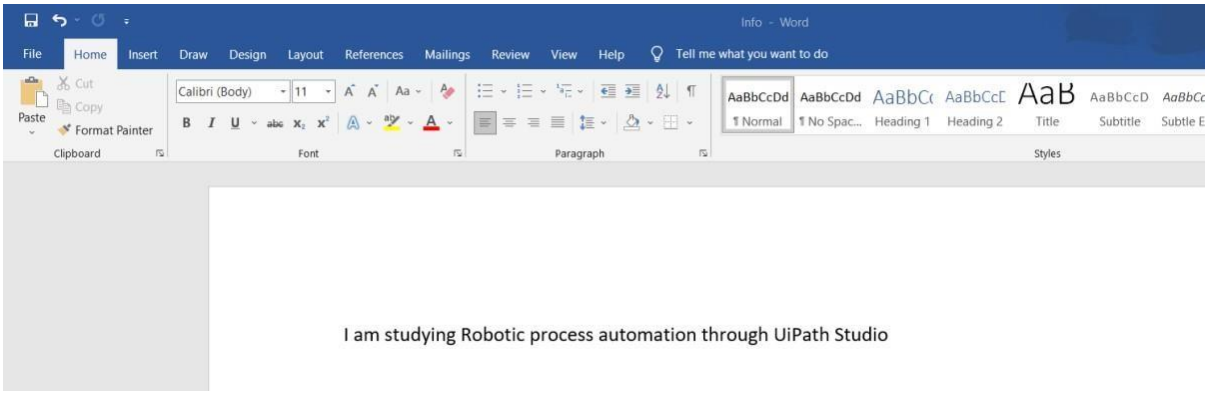
2) Drag and drop a word application scope and specify the path of the word file which is to be used.

3) Add a Append Text activity specify the text that needs to appended to the document.



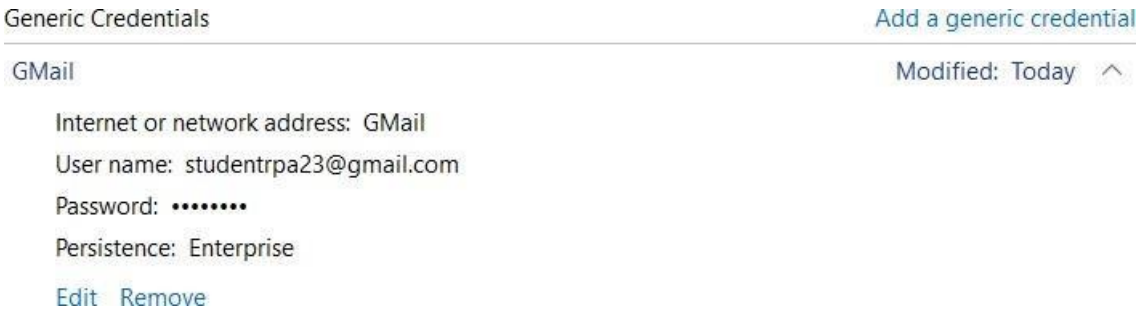


Output:



vii. Credential Management

1) Create Generic credentials from the control center.

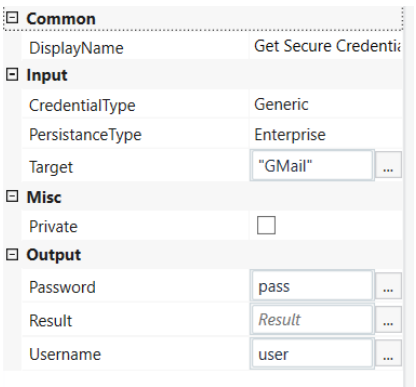


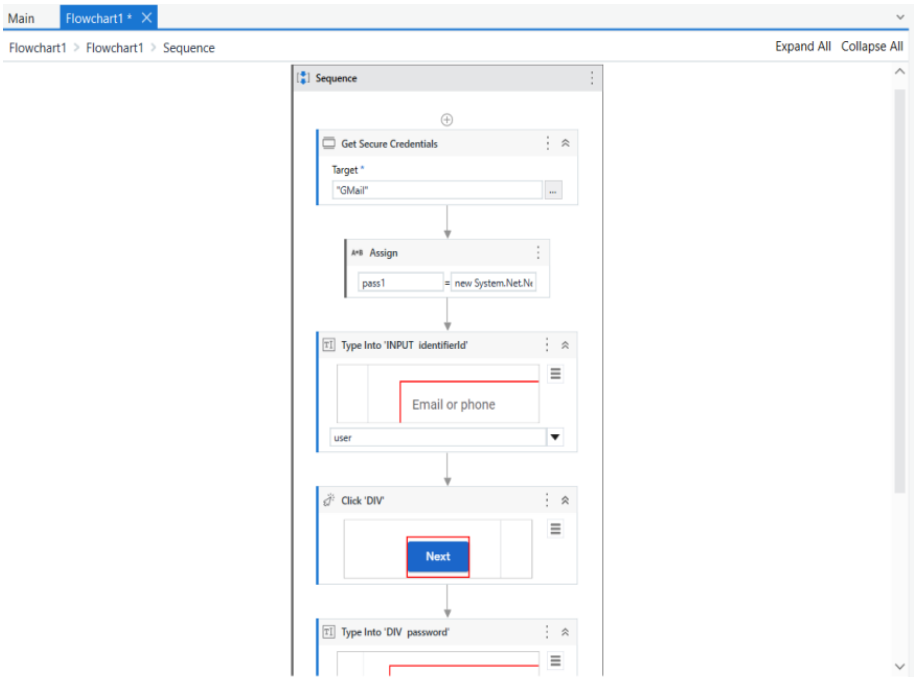
2) Create a sequence and set it as start node.

3) Drag and drop the Get secure credentials and fill the values as shown below.

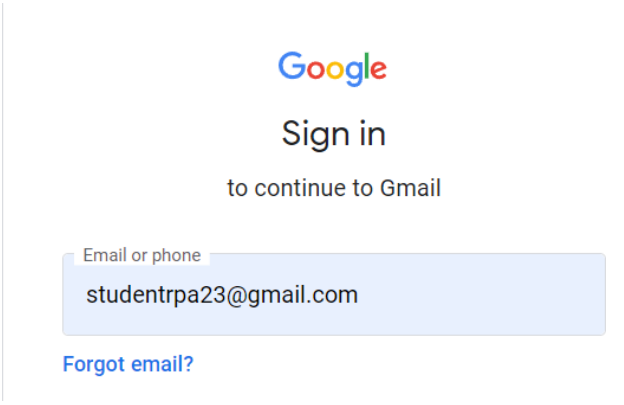
4) Use the assign to convert the Secure String pass variable into String datatype by using: new System.Net.NetworkCredential("",pass).Password

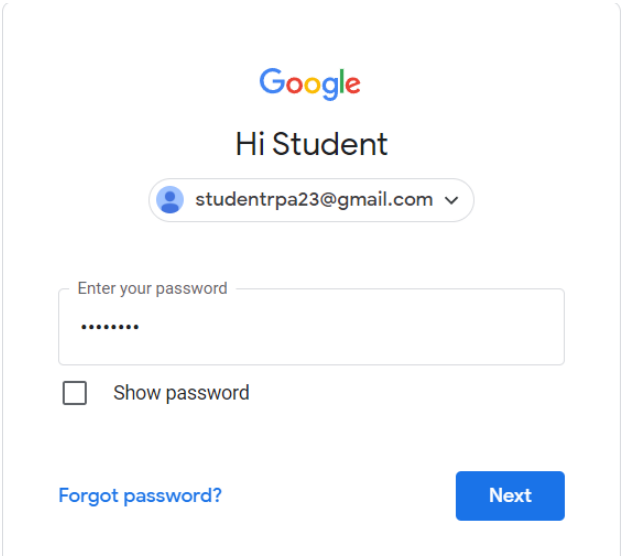
5) Use type into and click activities to fill username and password and proceed further to sign in into google account.

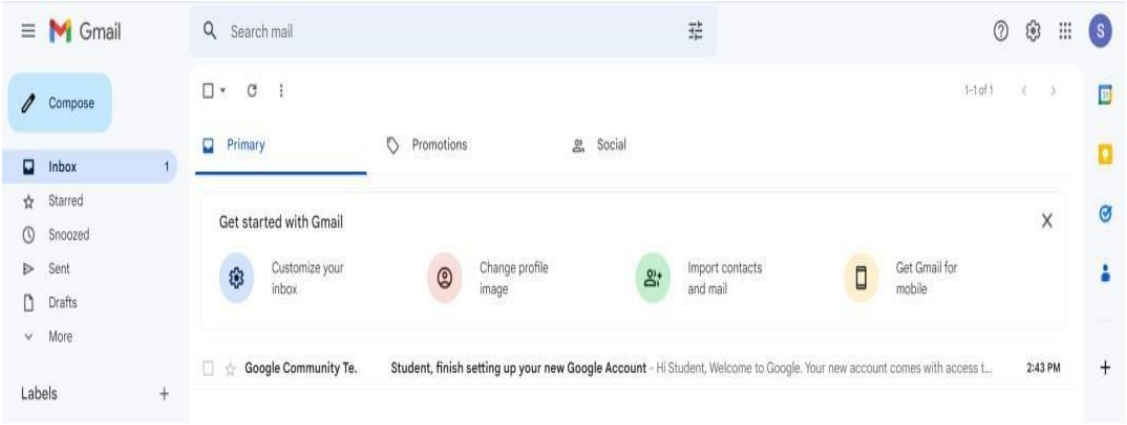



Main
Flowchart1 *
Flowchart1 > Flowchart1 > Sequence
Expand All
Collapse All
Sequence
Get Secure Credentials
Target *
"GMail"
Assign
pass1
= new System.Net.N
Type Into 'INPUT identifierId'
Email or phone
user
Click 'DIV'
Next
Type Into 'DIV password'

Output:


Google
Sign in
to continue to Gmail
Email or phone
studentrpa23@gmail.com
Forgot email?


Google
Hi Student
studentrpa23@gmail.com
Enter your password
Show password
Forgot password?
Next

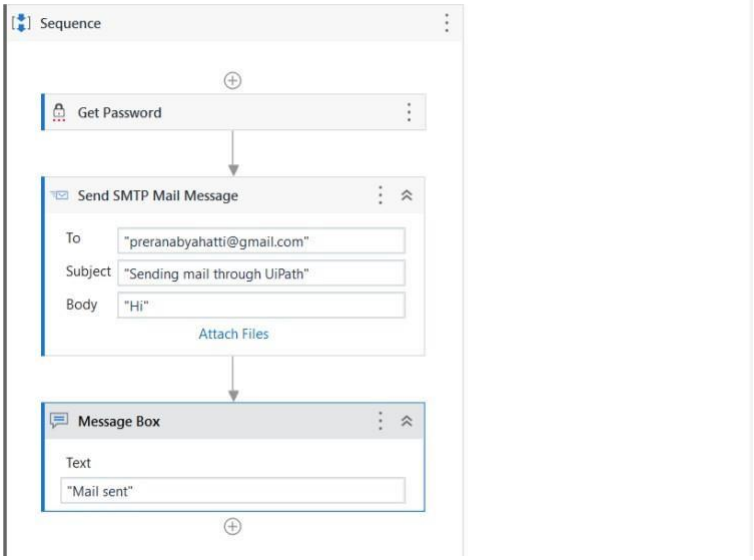

Gmail
Search mail
Compose
Inbox 1
Starred
Snoozed
Sent
Drafts
More
Labels
1-1 of 1
Primary
Promotions
Social
Get started with Gmail
Customize your inbox
Change profile image
Import contacts and mail
Get Gmail for mobile
Google Community Te.
Student, finish setting up your new Google Account - Hi Student, Welcome to Google. Your new account comes with access t...
2:43 PM

.Practical No: 9(a)

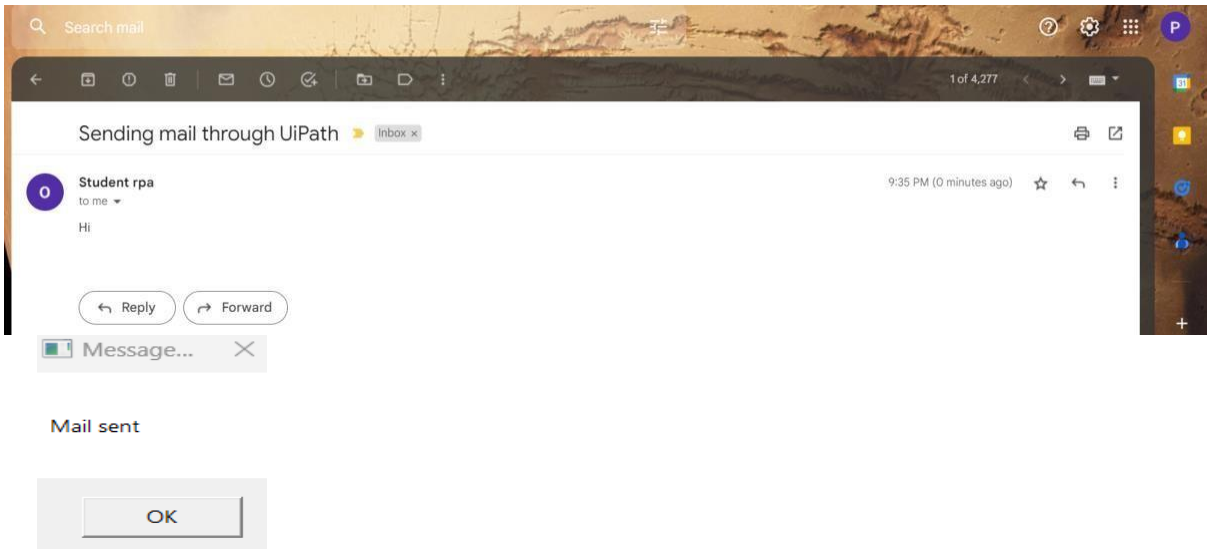
Aim: Automate the process of send mail event (on any email).

1) Open UiPath Studio and click on Blank to start a fresh project. Give it a meaningful name. Like Pratical9.
2) Open Main.xaml from Project tab. On the Designer panel, double click a flowchart activity from the Activities panel.
3) Create a sequence and set it as Start node.
4) Drag and drop a get password activity type the password in its properties panel and store the output in result by using a string variable.
5) Drag and drop a Send SMTP Mail Message activity and enter to, subject and body values.
6) Provide port as 587 and server as smtp.gmail.com in the host section of properties panel of send smtp mail message.
7) Provide Email(sender) and its corresponding password (by using the variable stored in get password activity) in the Logon section of properties panel of send smtp mail message.

Add a message box to inform the user that the mail is sent.



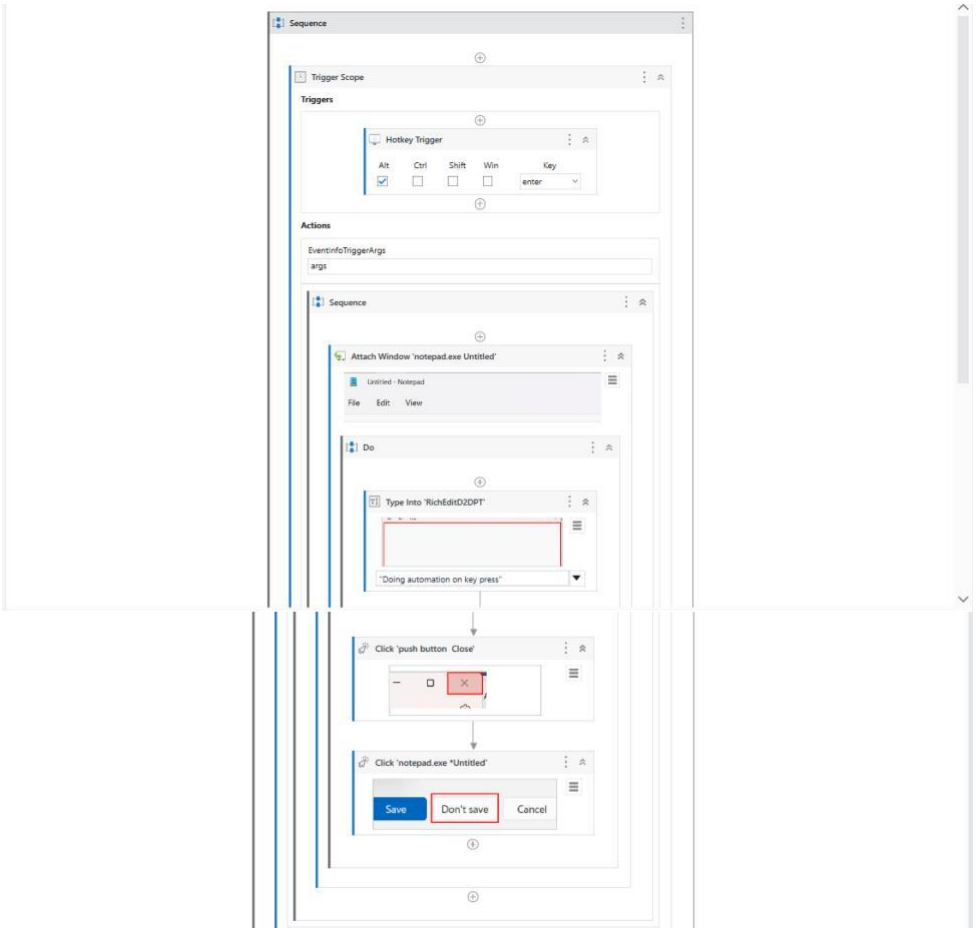
Output:



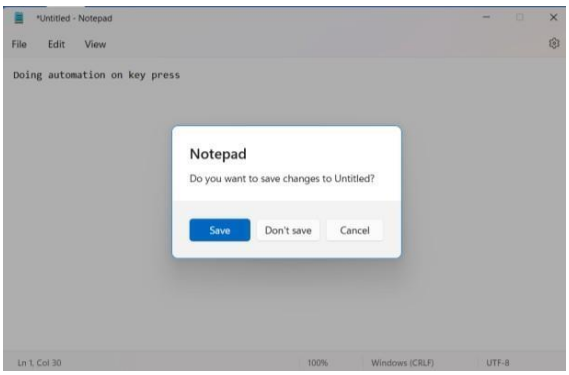
Practical No: 9(b)

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

1) Create a Sequence and set it as start node.
2) Drag and drop trigger scope activity and in triggers section add hotkey trigger check the Alt key and from dropdown select key as enter.
3) In the action's sequence use attach window and indicate a untitled notepad and in its do section add a type into activity and specify the text that needs to be written.
4) Add two click activities to close the notepad by clicking on don't save option.



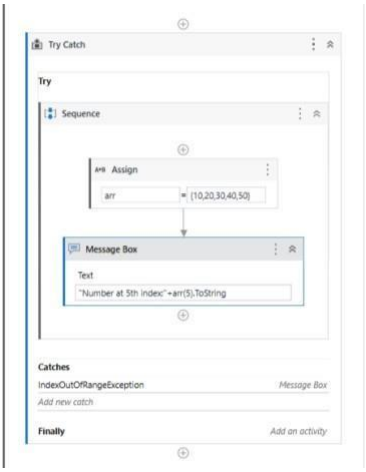
Output:



Practical No: 9(c)

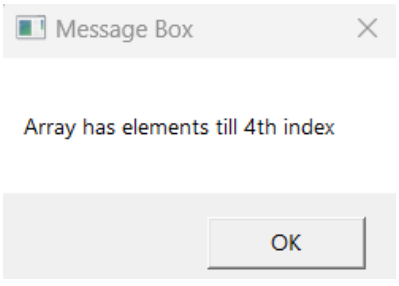
Aim: Demonstrate the Exception handing in UiPath.

1) Create a Sequence and set it as start node.
2) Drag and drop a Try Catch activity.
3) In Try section create an array of integers by declaring the arr variable with datatype as System.Int32[]
4) Use a message box to display the integer at 5th index this will raise an exception as IndexOutOfRangeException.
5) In the Catches section click on Add new catch and choose IndexOutOfRangeException.
6) Use a message box with text Array has elements till 4th index.
7) If we try to assess value after 4th element the exception section's message box will be displayed otherwise the value of the array with specified range will be displayed.

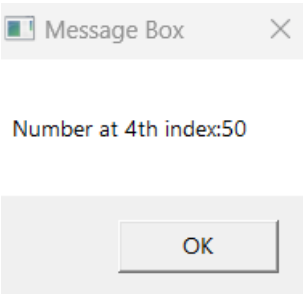


Output:

With exception:



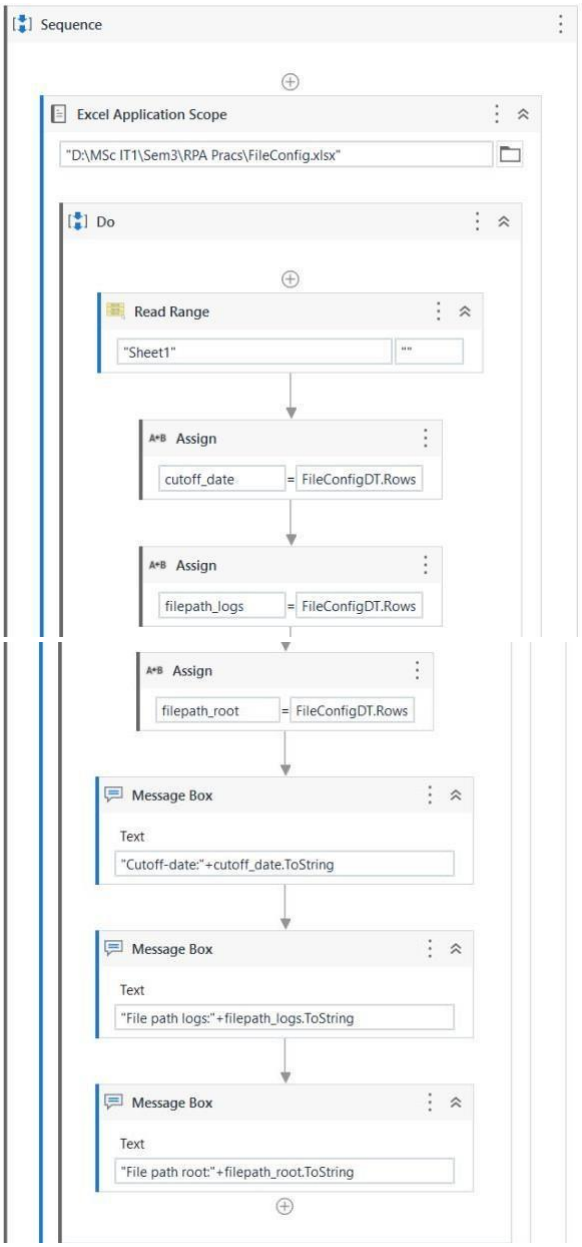
Without exception:

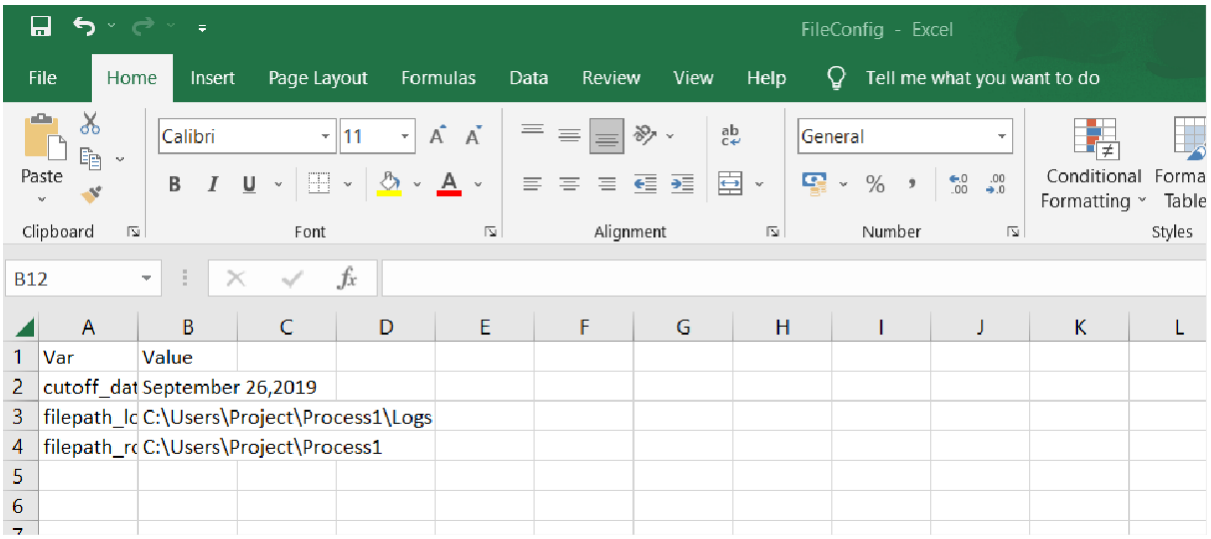


Practical No: 9(d)

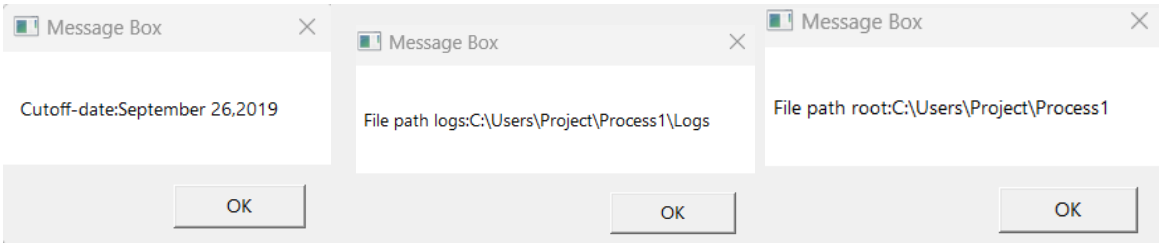
Aim: Demonstrate the use of config files in UiPath.

1) Create a sequence and set it as start node.
2) Drag and drop an excel application scope activity and specify the path.
3) In the do section drag and drop a read range activity specify the Sheet and range.
4) Use the assign activity to store the values by using the syntax as: dt_Test.Rows(<row number>).Item("<Column Name>").
5) Use the message boxes to display the values.




FileConfig - Excel
File
Home
Insert
Page Layout
Formulas
Data
Review
View
Help
Tell me what you want to do
Paste
Calibri
11
General
Conditional Formatting
Clipboard
Font
Alignment
Number
Styles
B12
A B C D E F G H I J K L
1 Var Value
2 cutoff_dat September 26,2019
3 filepath_lc C:\Users\Project\Process1\Logs
4 filepath_rc C:\Users\Project\Process1
5
6

Output:

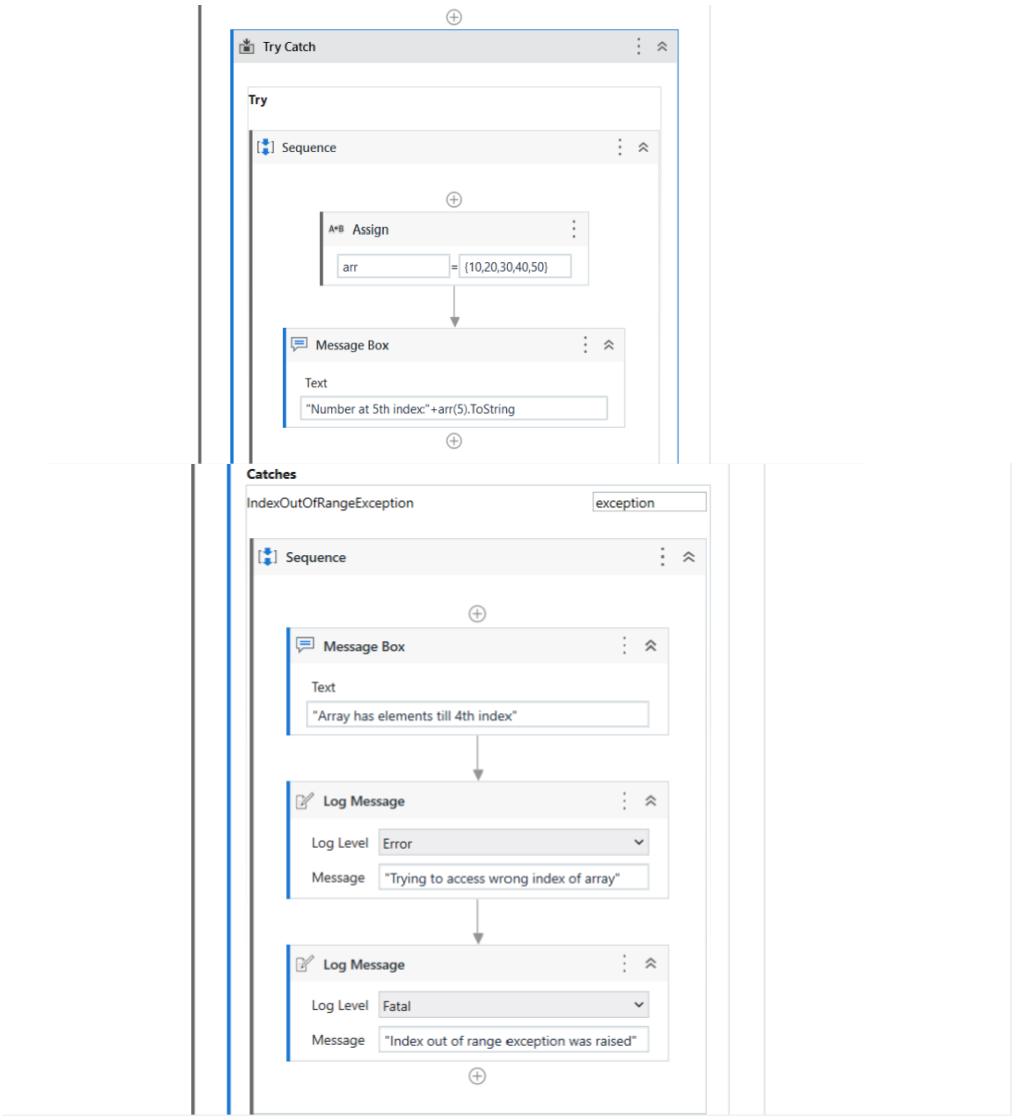

Message Box
Cutoff-date:September 26,2019
OK
Message Box
File path logs:C:\Users\Project\Process1\Logs
OK
Message Box
File path root:C:\Users\Project\Process1
OK

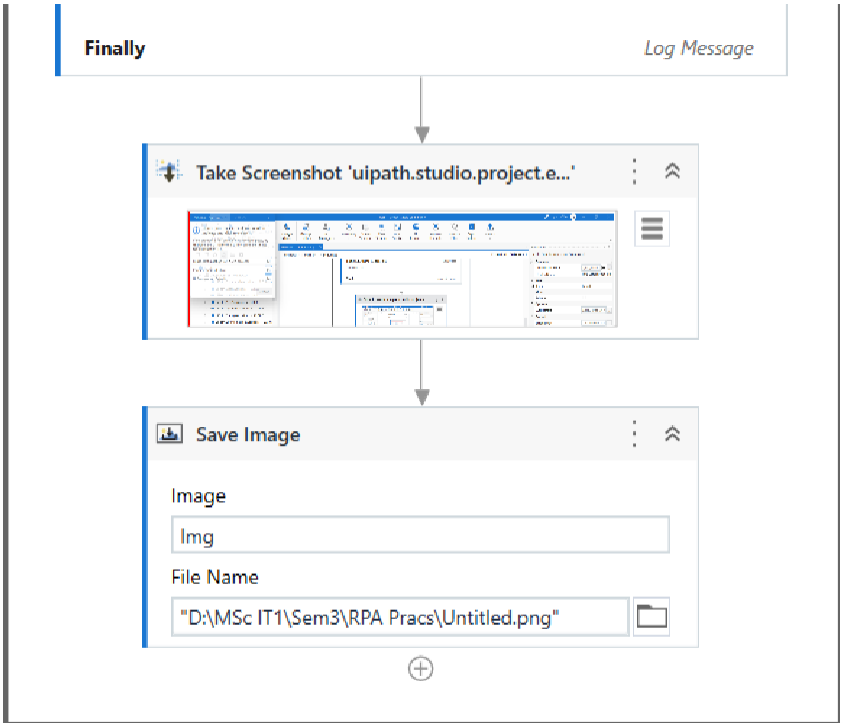
Practical No: 10(a)

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

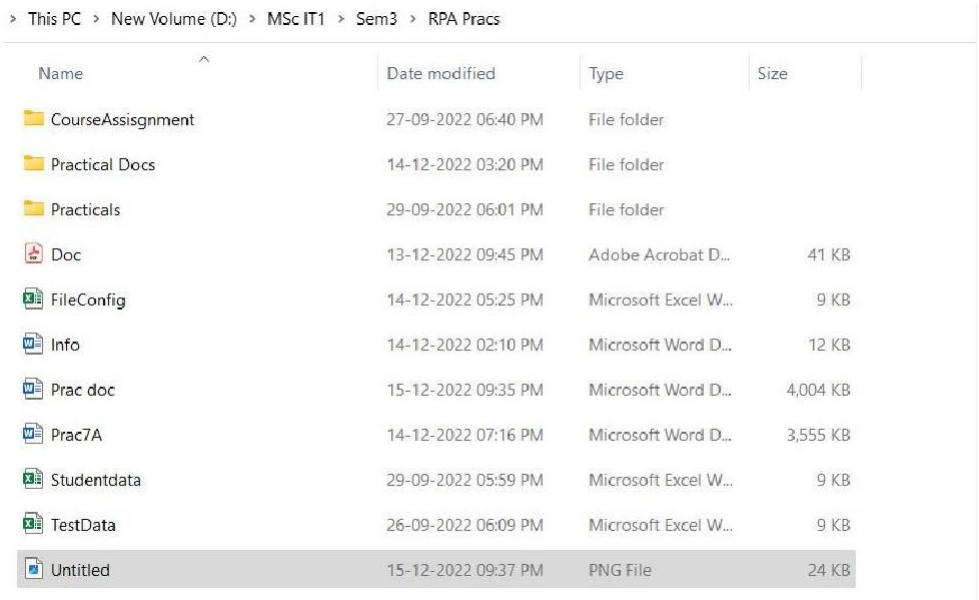
1) Drag and drop a Try Catch activity.
2) In Try section create an array of integers by declaring the arr variable with datatype as System.Int32[]
3) Use a message box to display the integer at 5th index this will raise an exception as IndexOutOfRangeException.
4) In the Catches section click on Add new catch and choose IndexOutOfRangeException.
5) Use a message box with text Array has elements till 4th index.
6) If we try to assess value after 4th element the exception section's message box will be displayed otherwise the value of the array with specified range will be displayed.
7) Use three log message activity to display messages in output panel.

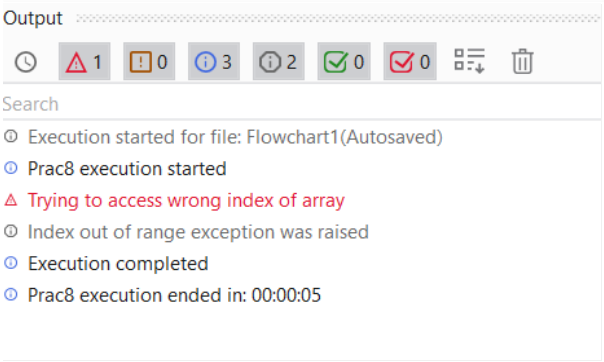
Add take screenshot activity save it result in a variable and use save image activity to save the image at the required destination.




Finally
Log Message
Take Screenshot 'uipath.studio.project.e...'
Save Image
Image
Img
File Name
"D:\MSc IT1\Sem3\RPA Pracs\Untitled.png"

Output:

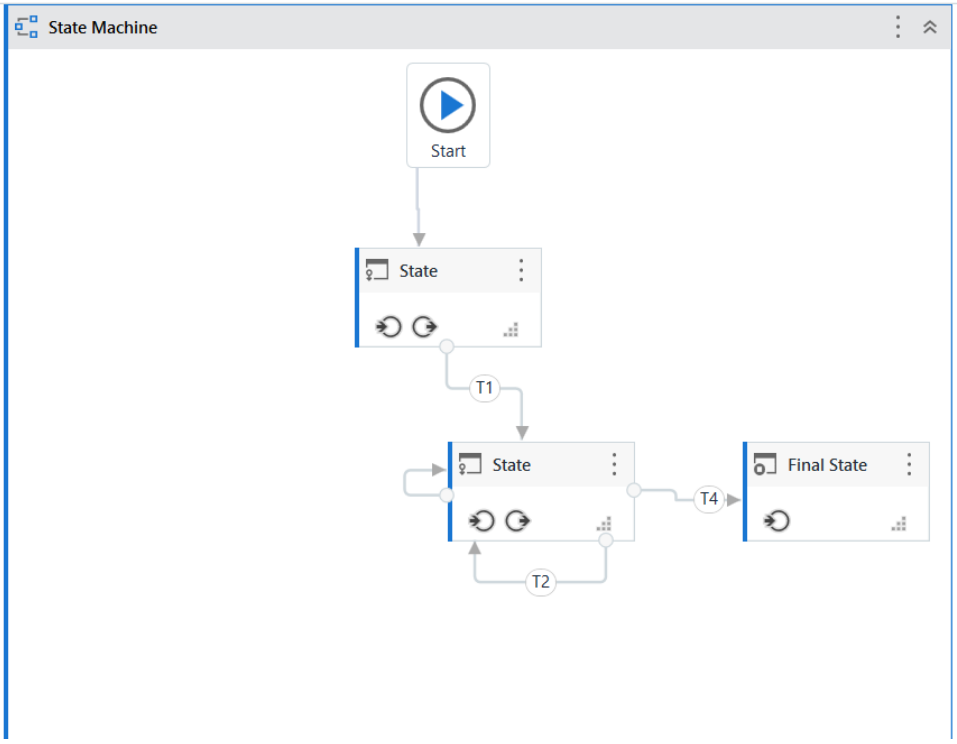

This PC > New Volume (D:) > MSc IT1 > Sem3 > RPA Pracs
Name
Date modified
Type
Size
CourseAssisgnment 27-09-2022 06:40 PM File folder
Practical Docs 14-12-2022 03:20 PM File folder
Practicals 29-09-2022 06:01 PM File folder
Doc 13-12-2022 09:45 PM Adobe Acrobat D... 41 KB
FileConfig 14-12-2022 05:25 PM Microsoft Excel W... 9 KB
Info 14-12-2022 02:10 PM Microsoft Word D... 12 KB
Prac doc 15-12-2022 09:35 PM Microsoft Word D... 4,004 KB
Prac7A 14-12-2022 07:16 PM Microsoft Word D... 3,555 KB
Studentdata 29-09-2022 05:59 PM Microsoft Excel W... 9 KB
TestData 26-09-2022 06:09 PM Microsoft Excel W... 9 KB
Untitled 15-12-2022 09:37 PM PNG File 24 KB


Output
1
0
3
2
0
0
Search
Execution started for file: Flowchart1(Autosaved)
Prac8 execution started
Trying to access wrong index of array
Index out of range exception was raised
Execution completed
Prac8 execution ended in: 00:00:05

Practical No: 10(b)

Aim: Automate any process using State Machine in UiPath.

Drag and drop state machine activities, state and final state activities as shown below



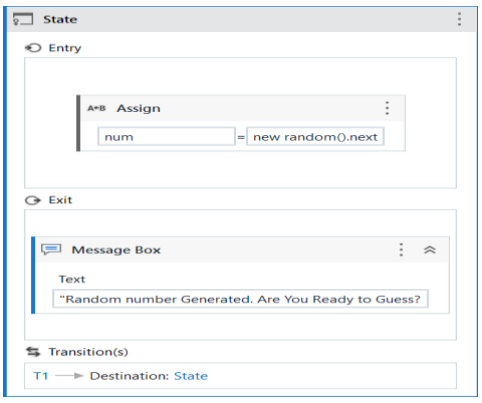
1) Create the following variables:

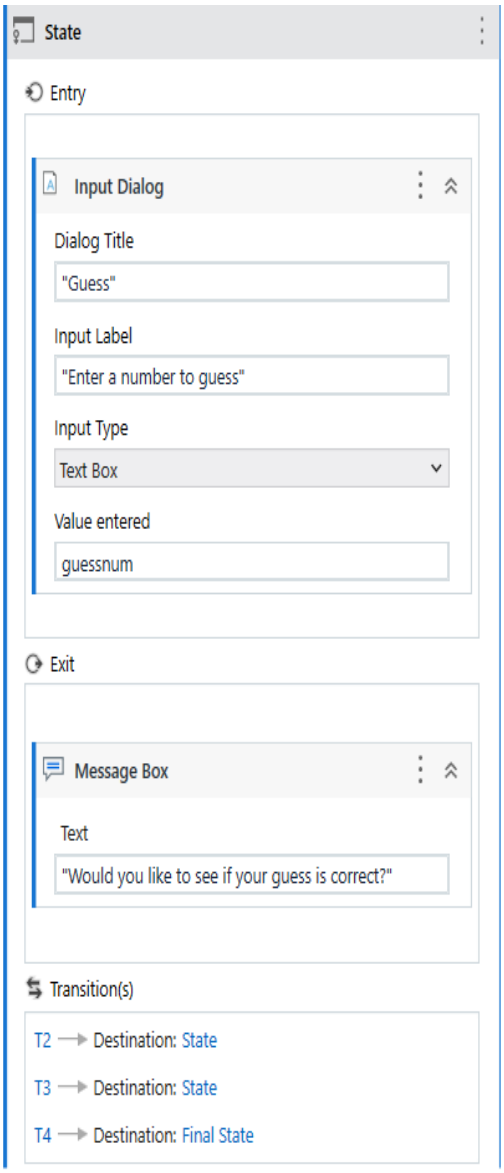
Name	Variable type	Scope	Default
guessnum	Int32	Main Sequence	Enter a VB expression
num	Int32	Main Sequence	Enter a VB expression
Create Variable			

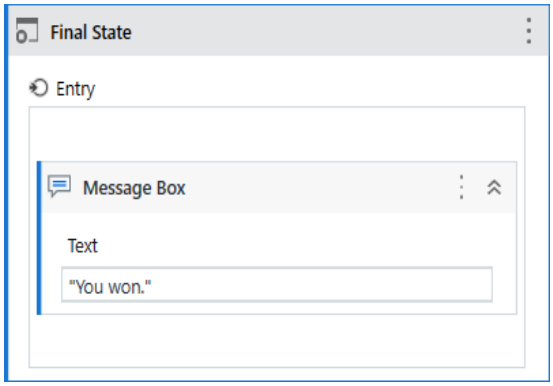
Configure each state and trigger activity as shown below

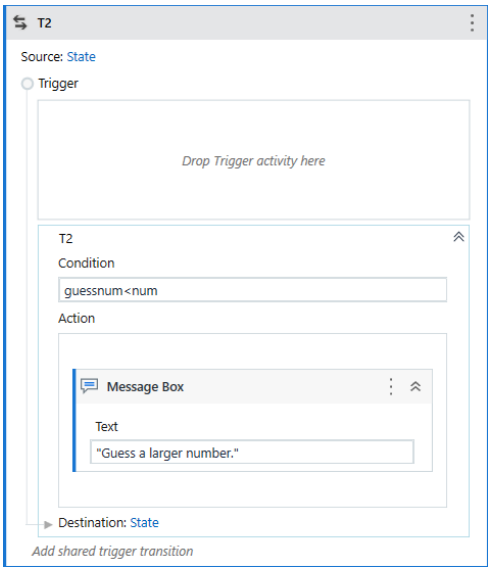
Name	Variable type	Scope	Default
guessnum	Int32	Main Sequence	Enter a VB expression
num	Int32	Main Sequence	Enter a VB expression
Create Variable			

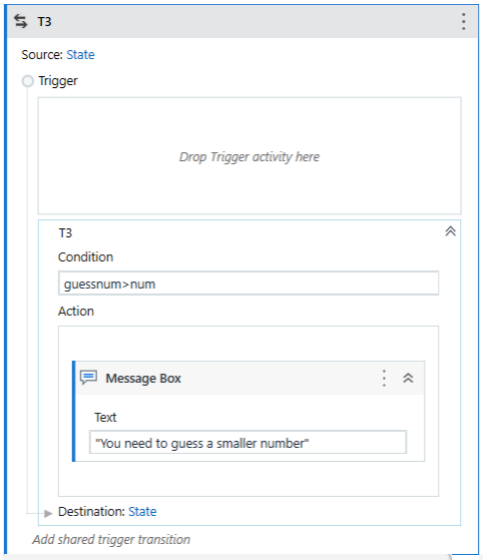
Configure each state and trigger activity as shown below:

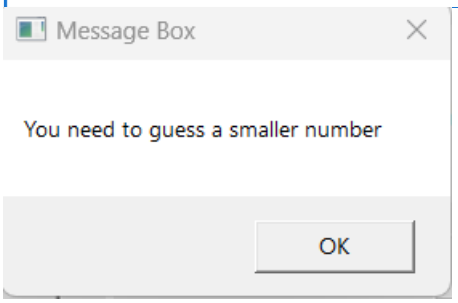


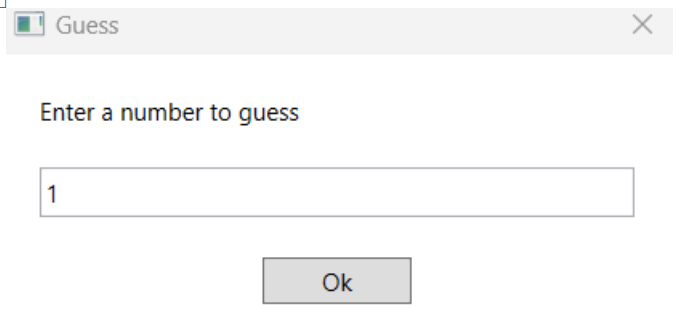

State
Entry
Input Dialog
Dialog Title
"Guess"
Input Label
"Enter a number to guess"
Input Type
Text Box
Value entered
guessnum
Exit
Message Box
Text
"Would you like to see if your guess is correct?"
Transition(s)
T2 Destination: State
T3 Destination: State
T4 Destination: Final State

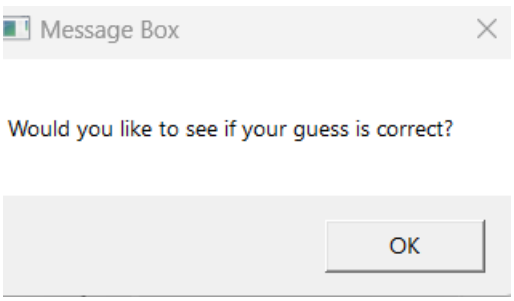

Final State
Entry
Message Box
Text
"You won."

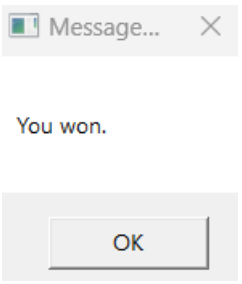

T2
Source: State
Trigger
Drop Trigger activity here
T2
Condition
guessnum<num
Action
Message Box
Text
"Guess a larger number."
Destination: State
Add shared trigger transition

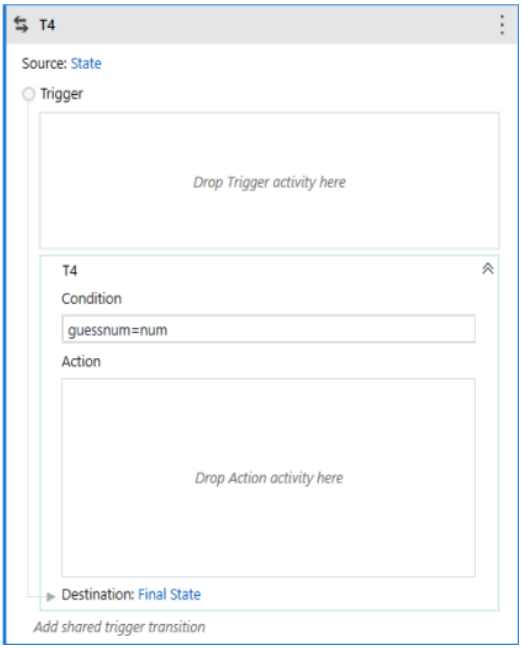

T3
Source: State
Trigger
Drop Trigger activity here
T3
Condition
guessnum>num
Action
Message Box
Text
"You need to guess a smaller number"
Destination: State
Add shared trigger transition


Message Box
You need to guess a smaller number
OK

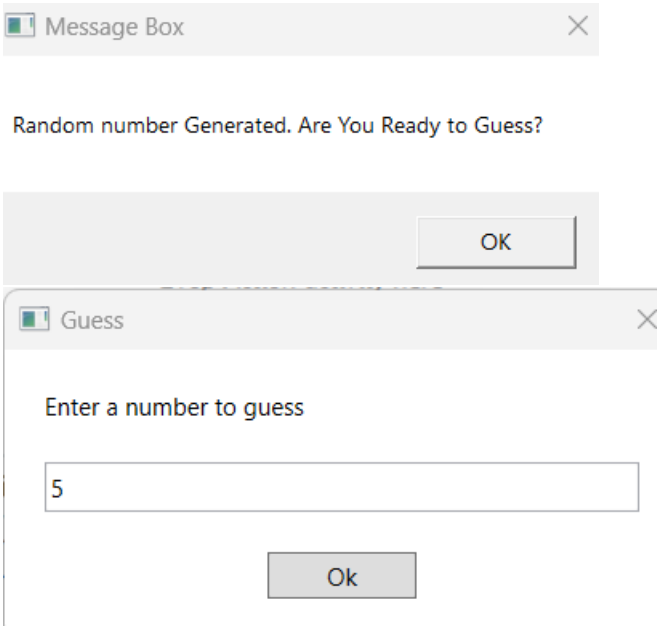

Guess
Enter a number to guess
1
Ok

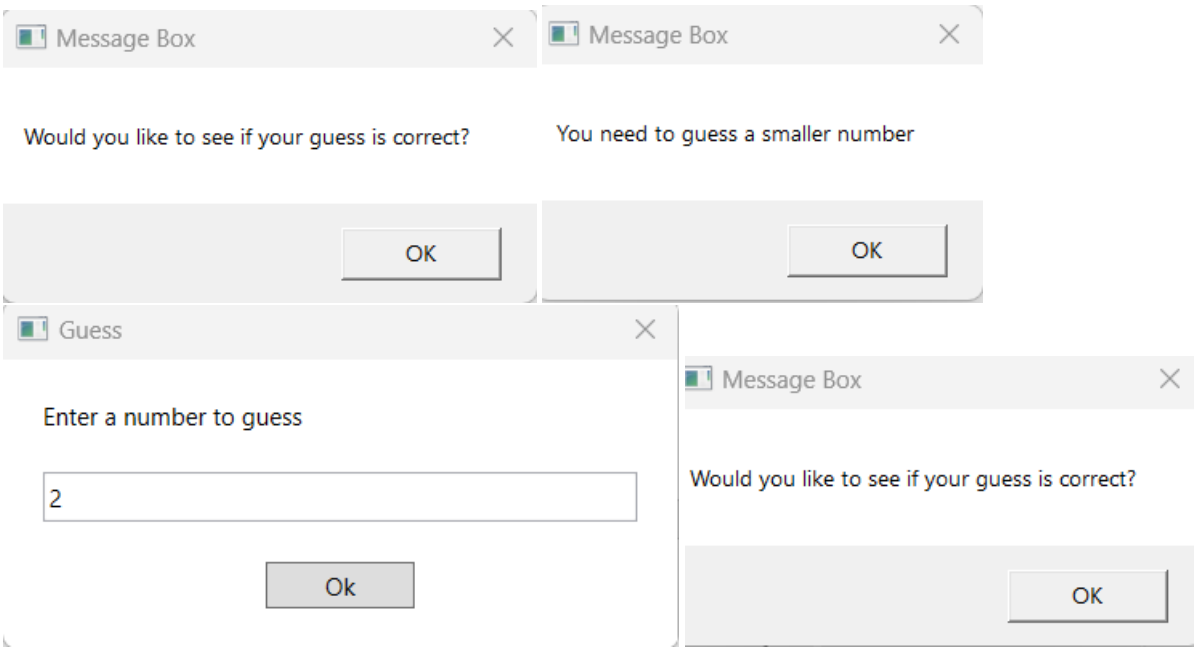

Message Box
Would you like to see if your guess is correct?
OK


Message...
You won.
OK


T4
Source: State
Trigger
Drop Trigger activity here
T4
Condition
guessnum=num
Action
Drop Action activity here
Destination: Final State
Add shared trigger transition

Output:


Message Box
Random number Generated. Are You Ready to Guess?
OK
Guess
Enter a number to guess
5
Ok

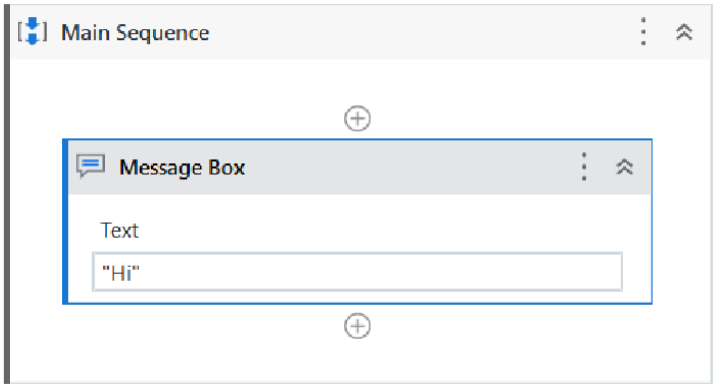

Message Box
Would you like to see if your guess is correct?
OK
Message Box
You need to guess a smaller number
OK
Guess
Enter a number to guess
2
Ok
Message Box
Would you like to see if your guess is correct?
OK

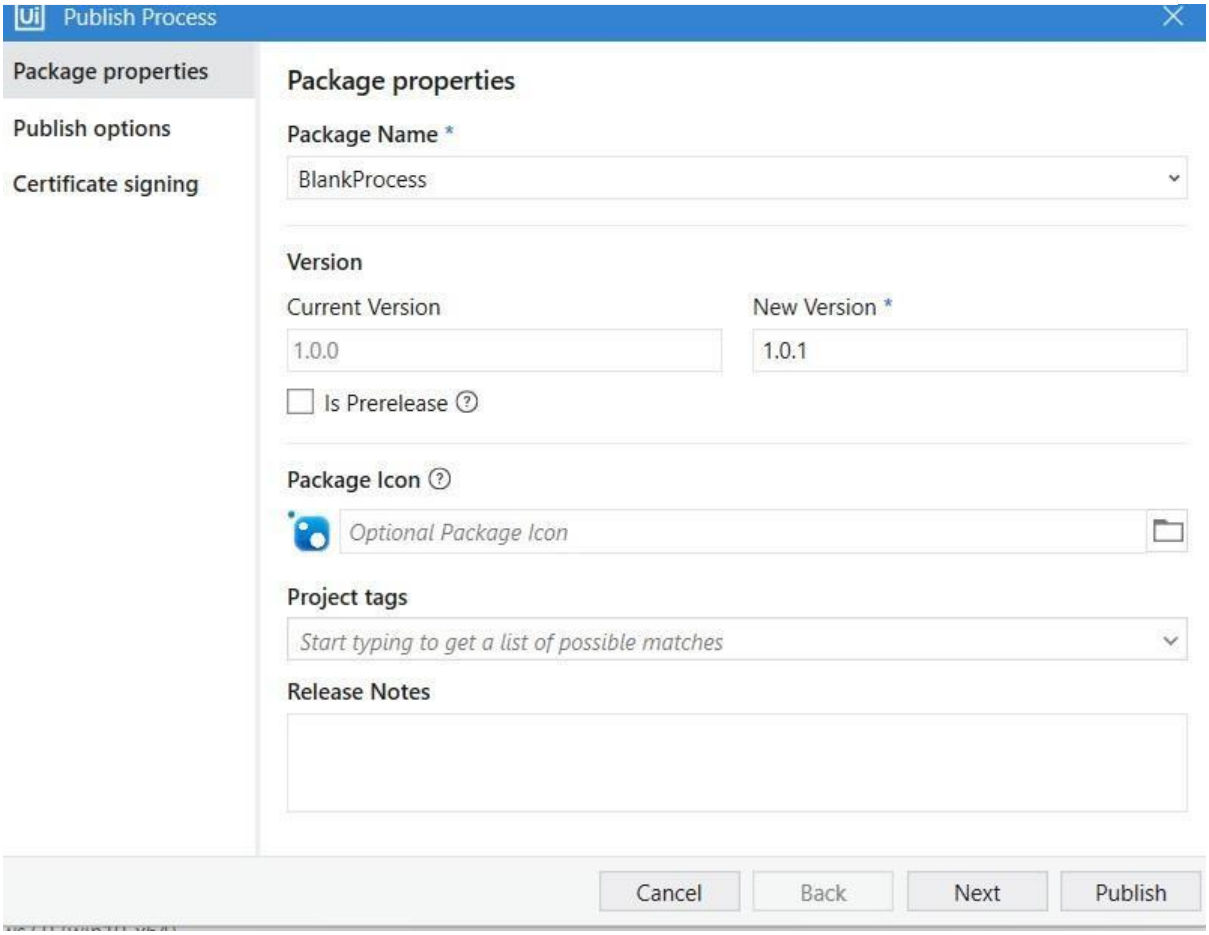
Practical No: 10(c)

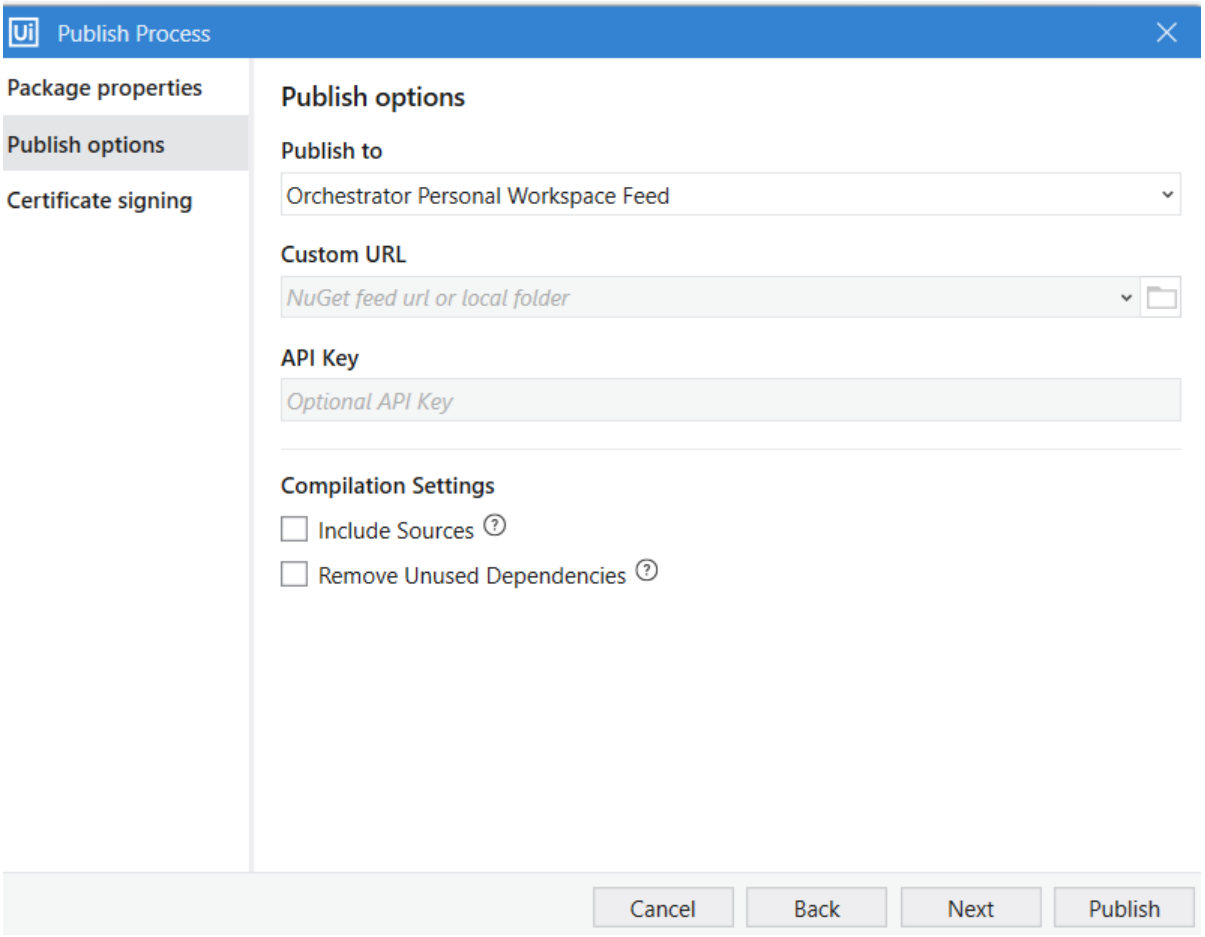
Aim: Demonstrate the use of publish utility.

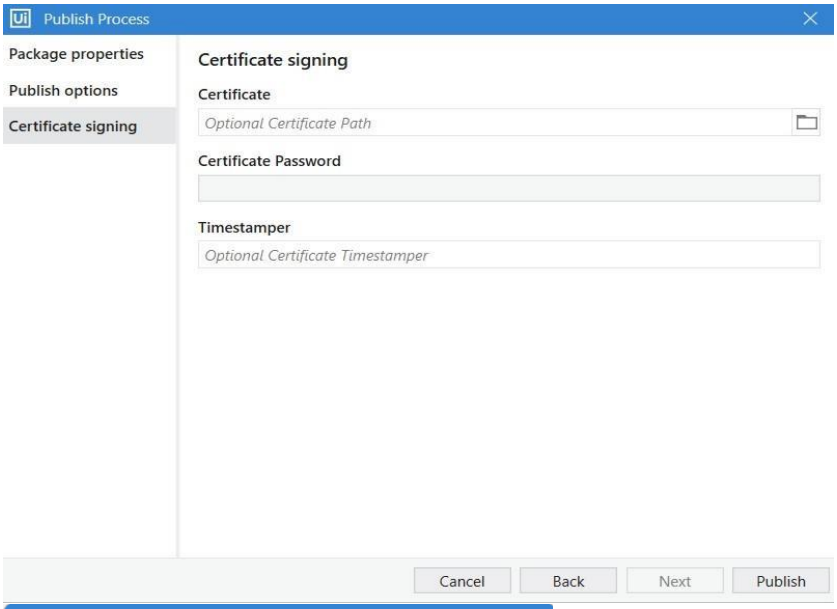
1) Add a message box and display hello message.
2) Click on publish present in design tab.

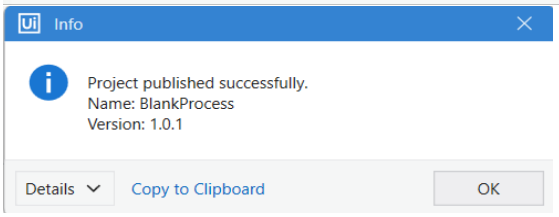
Follow the below steps.



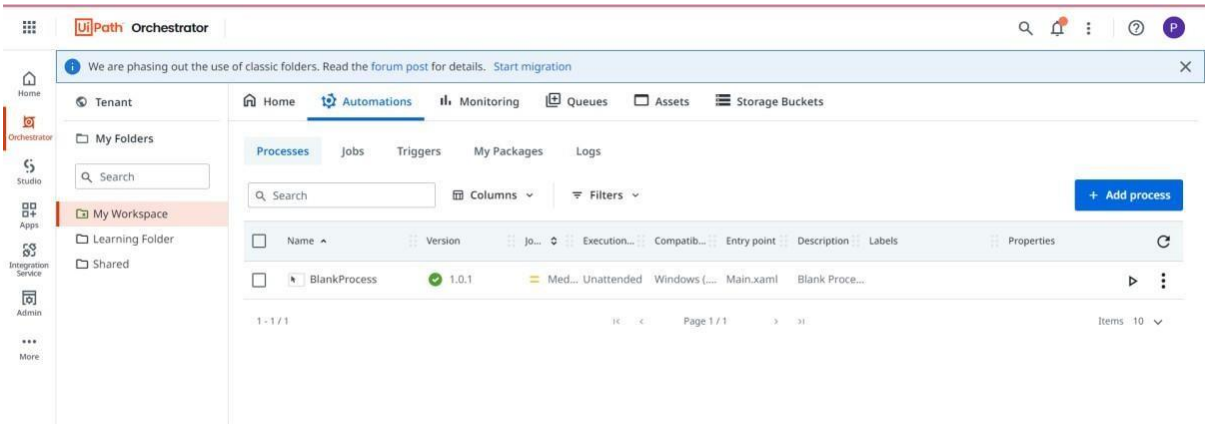



Publish Process
Package properties
Publish options
Certificate signing
Publish options
Publish to
Orchestrator Personal Workspace Feed
Custom URL
NuGet feed url or local folder
API Key
Optional API Key
Compilation Settings
Include Sources
Remove Unused Dependencies
Cancel
Back
Next
Publish


Publish Process
Package properties
Publish options
Certificate signing
Certificate signing
Certificate
Optional Certificate Path
Certificate Password
Timestamper
Optional Certificate Timestamper
Cancel
Back
Next
Publish


Info
Project published successfully.
Name: BlankProcess
Version: 1.0.1
Details
Copy to Clipboard
OK

Output:


UiPath Orchestrator
We are phasing out the use of classic folders. Read the forum post for details. Start migration
Home
Orchestrator
Studio
Apps
Integration Service
Admin
More
Tenant
My Folders
Search
My Workspace
Learning Folder
Shared
Home
Automations
Monitoring
Queues
Assets
Storage Buckets
Processes
Jobs
Triggers
My Packages
Logs
Search
Columns
Filters
+ Add process
Name
Version
Jo...
Execution...
Compatib...
Entry point
Description
Labels
Properties
BlankProcess
1.0.1
Med...
Unattended
Windows (...
Main.xaml
Blank Proce...
1 - 1 / 1
Page 1 / 1
Items 10