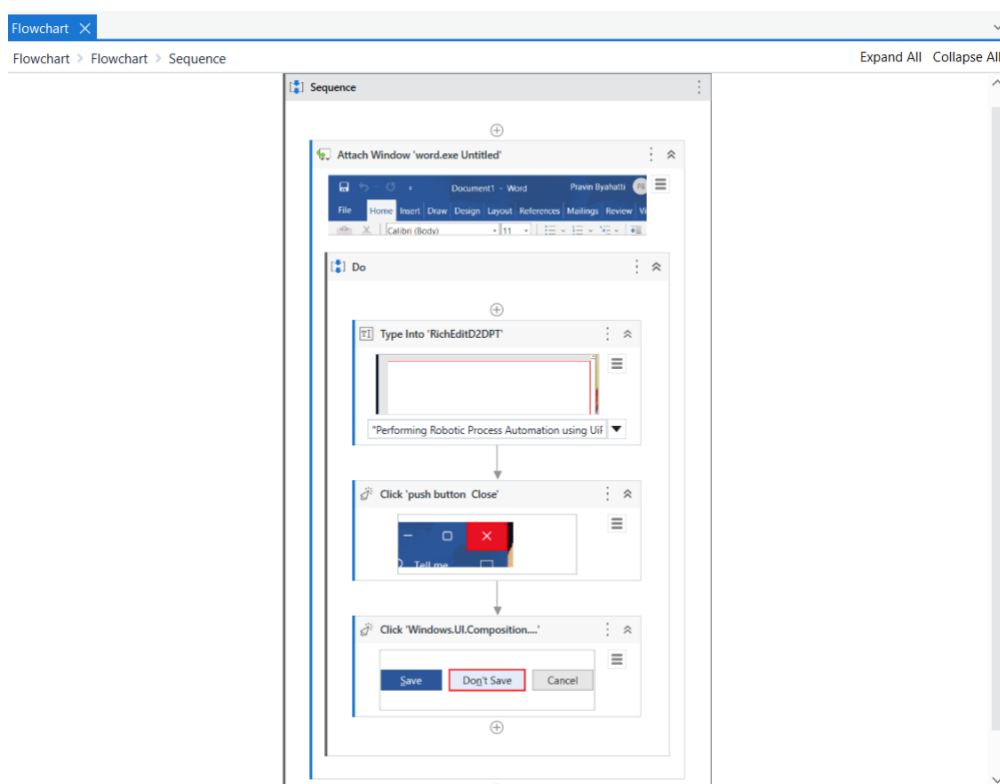


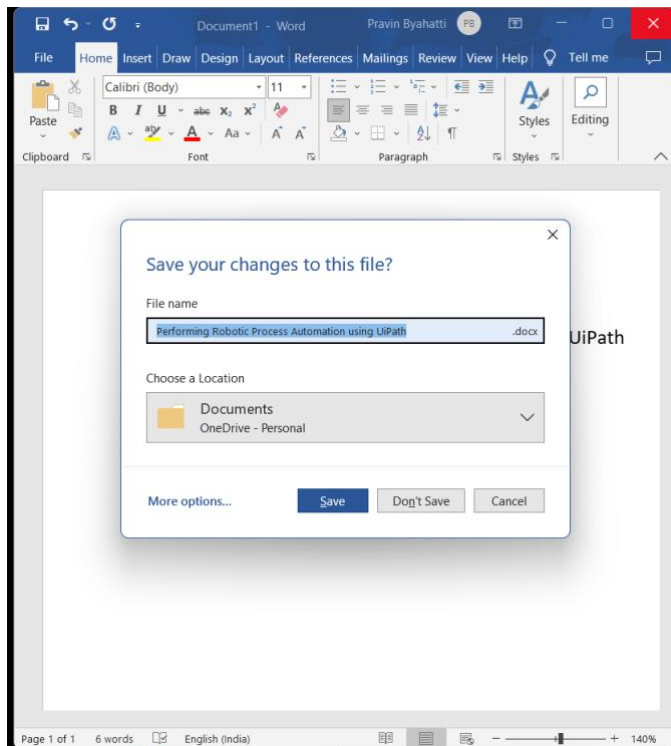
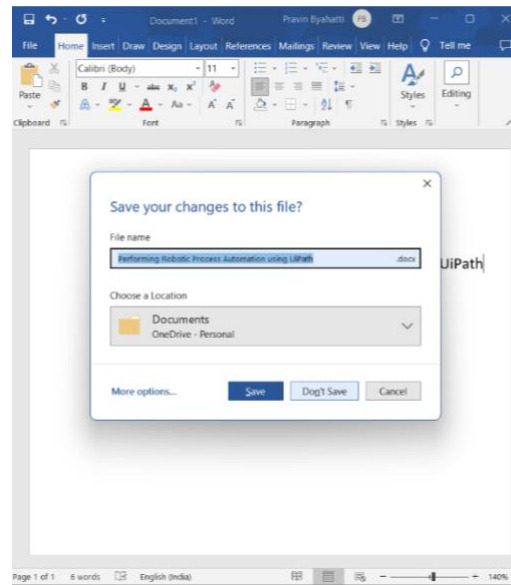
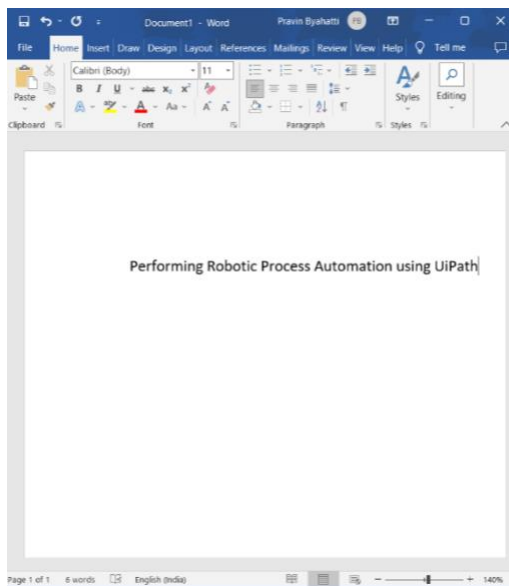
PRACTICAL NUMBER: 7

a. 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.



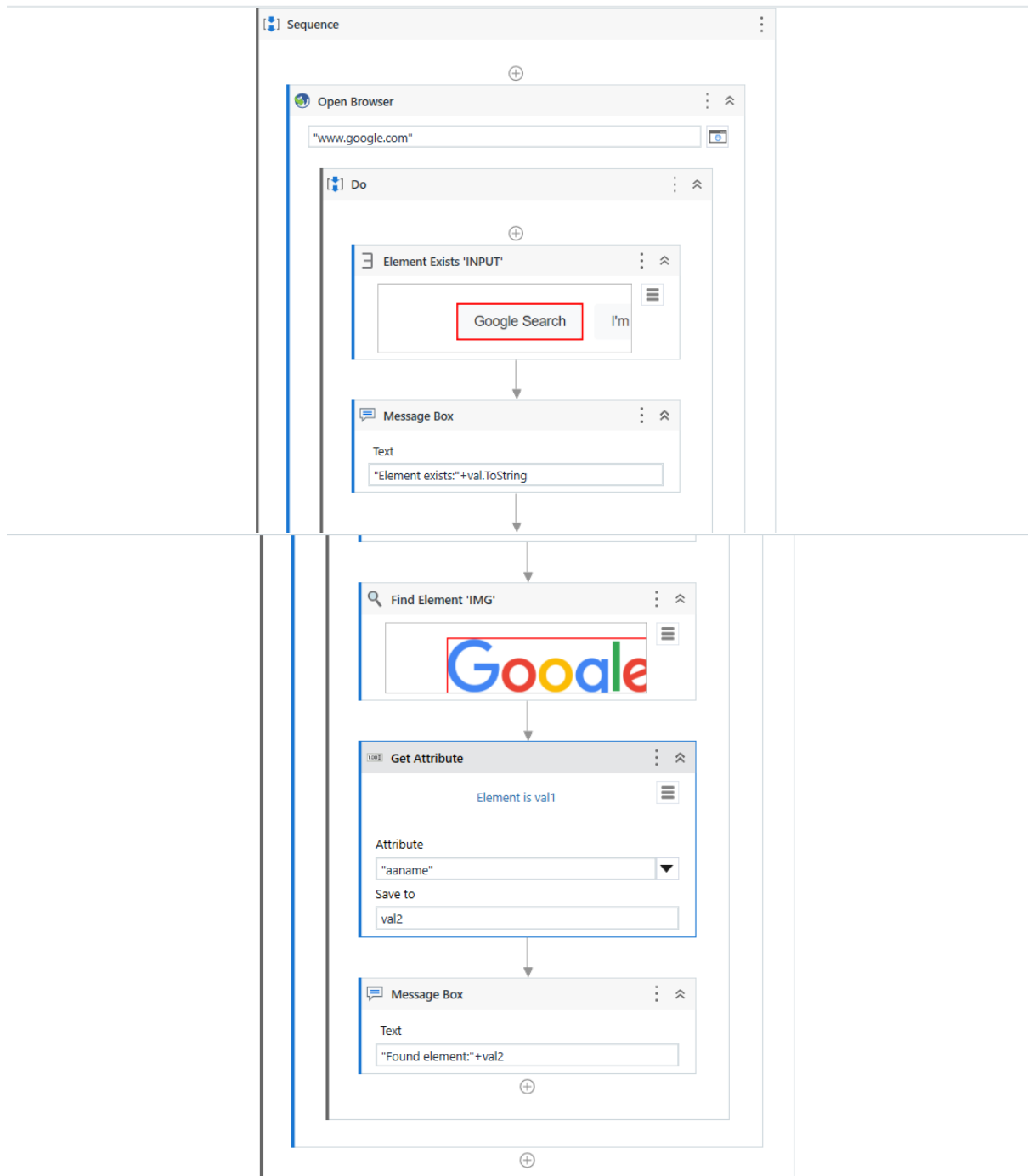
Output:



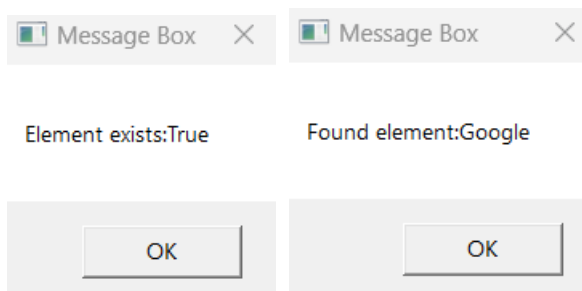
b) Find different controls using UiPath.

- 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:



PRACTICAL NUMBER: 8

a Demonstrate the following events in UiPath:

i. Element triggering event

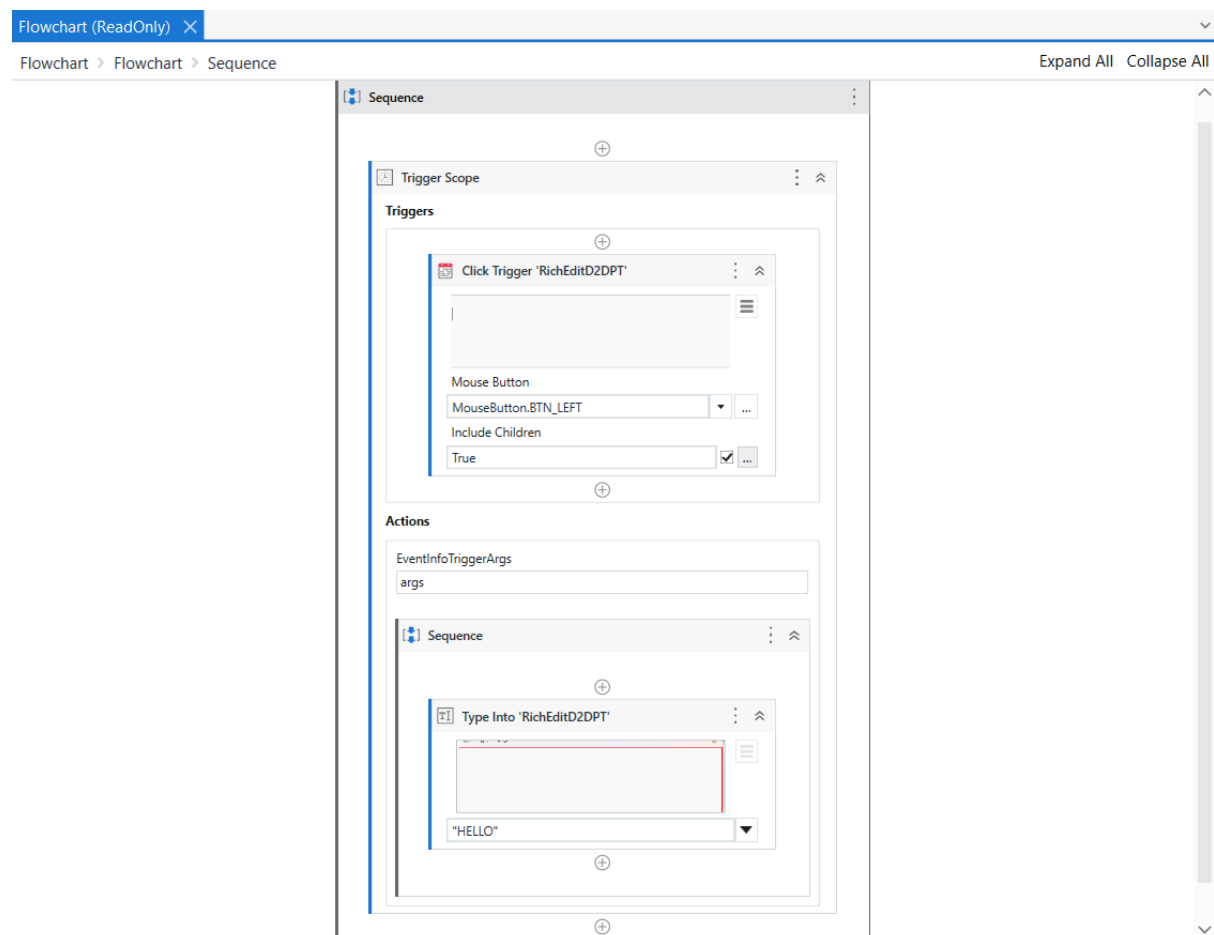
1) Open UiPath Studio and click on Blank to start a fresh project. Give it a meaningful name. Like Pratical8A.

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

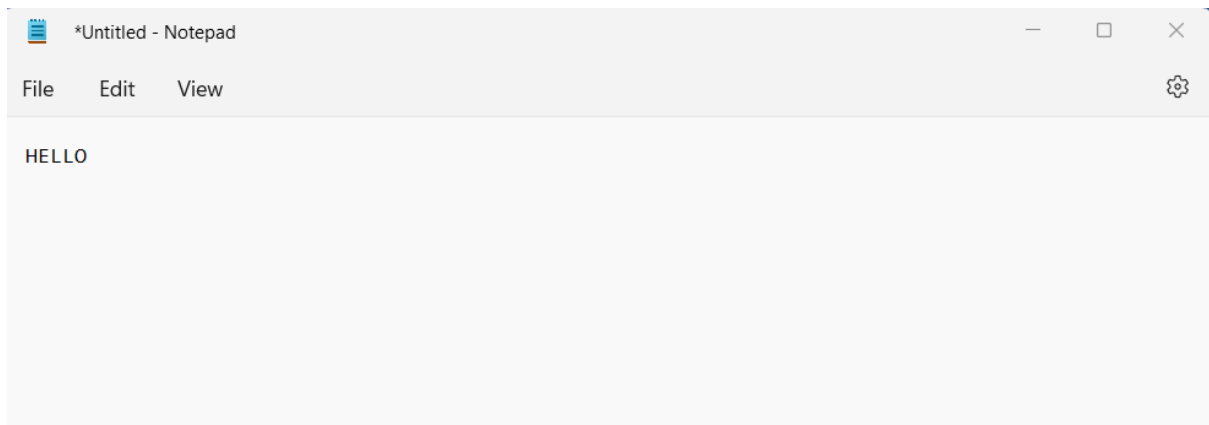
3) Create a sequence and set it as Start node.

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.

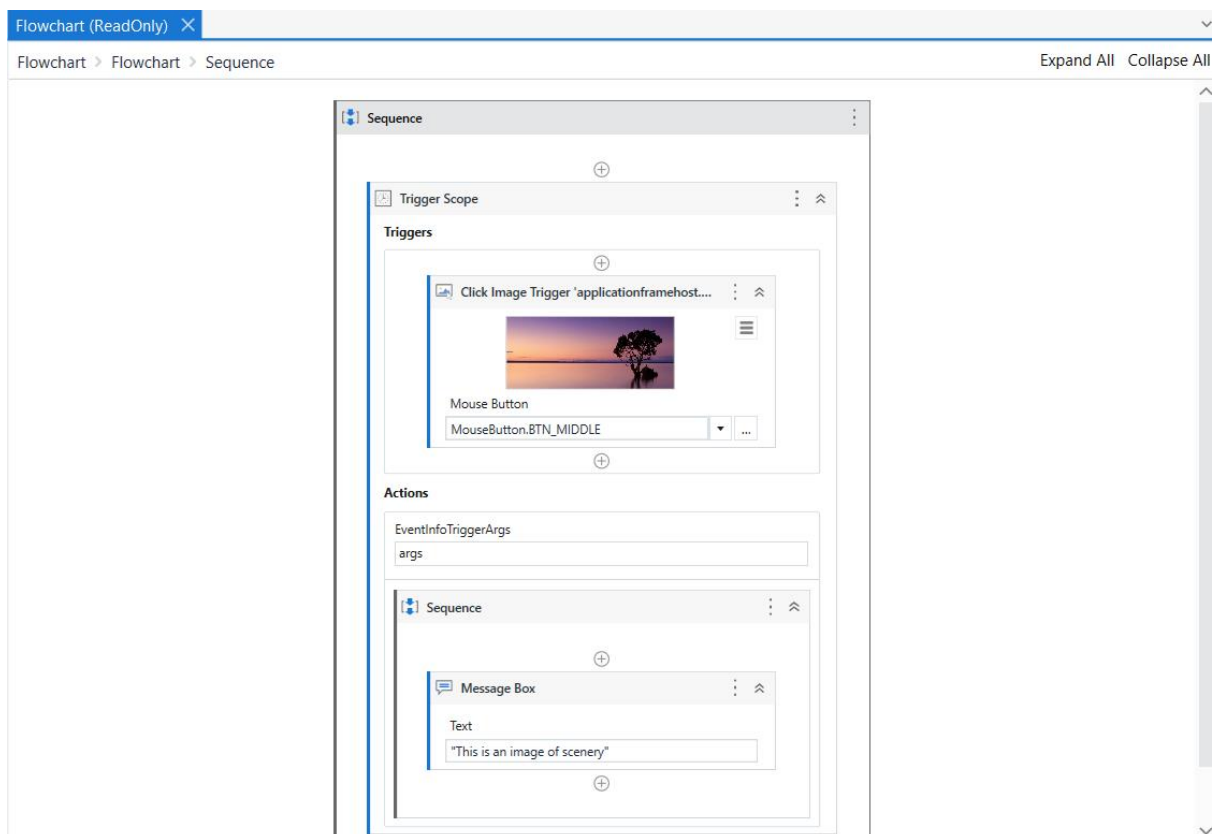


Output:

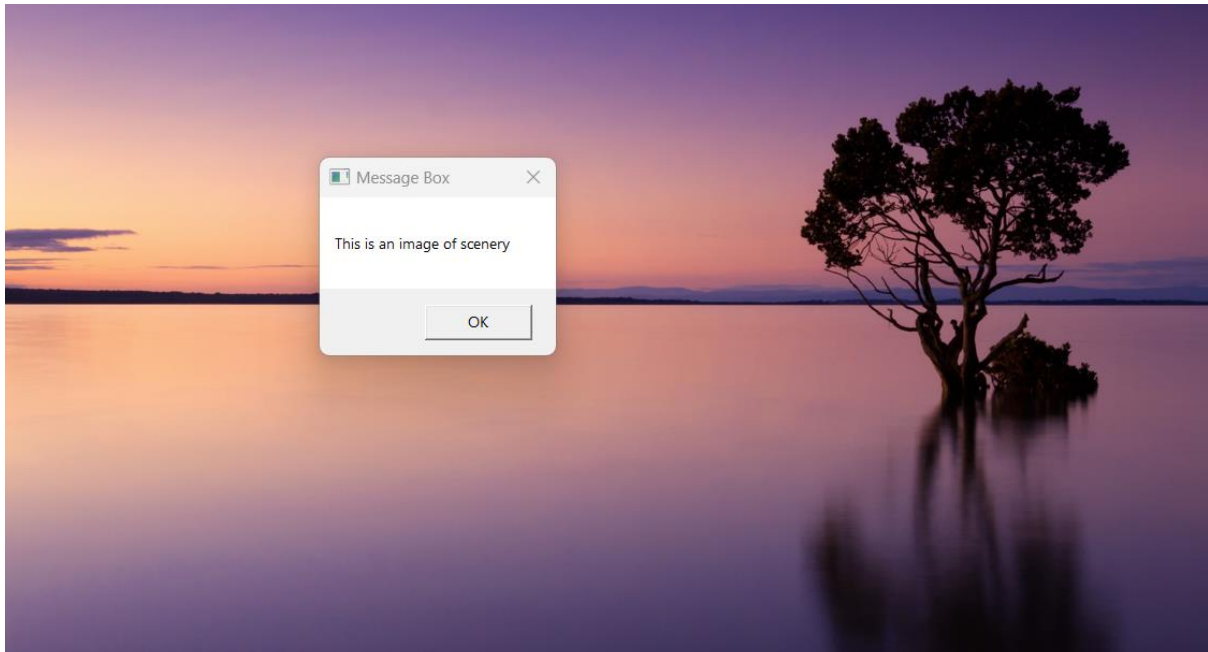


ii) Image triggering event

- 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.

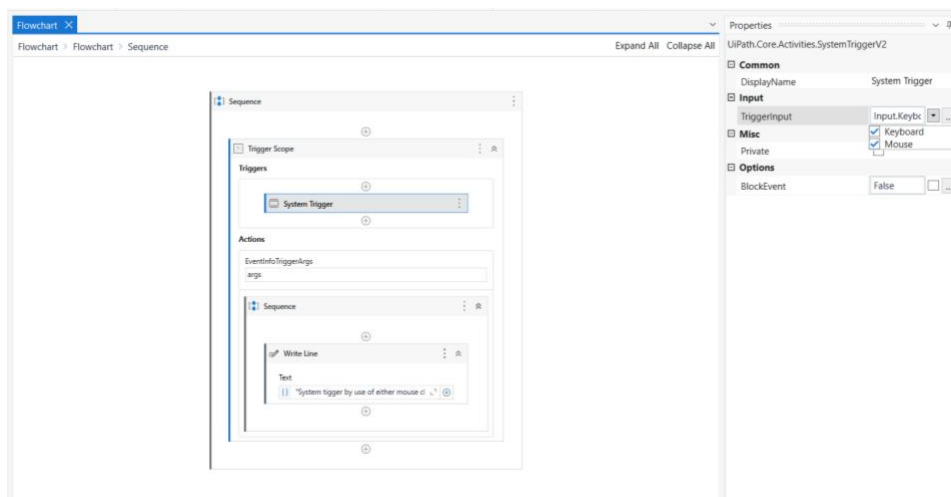


Output:

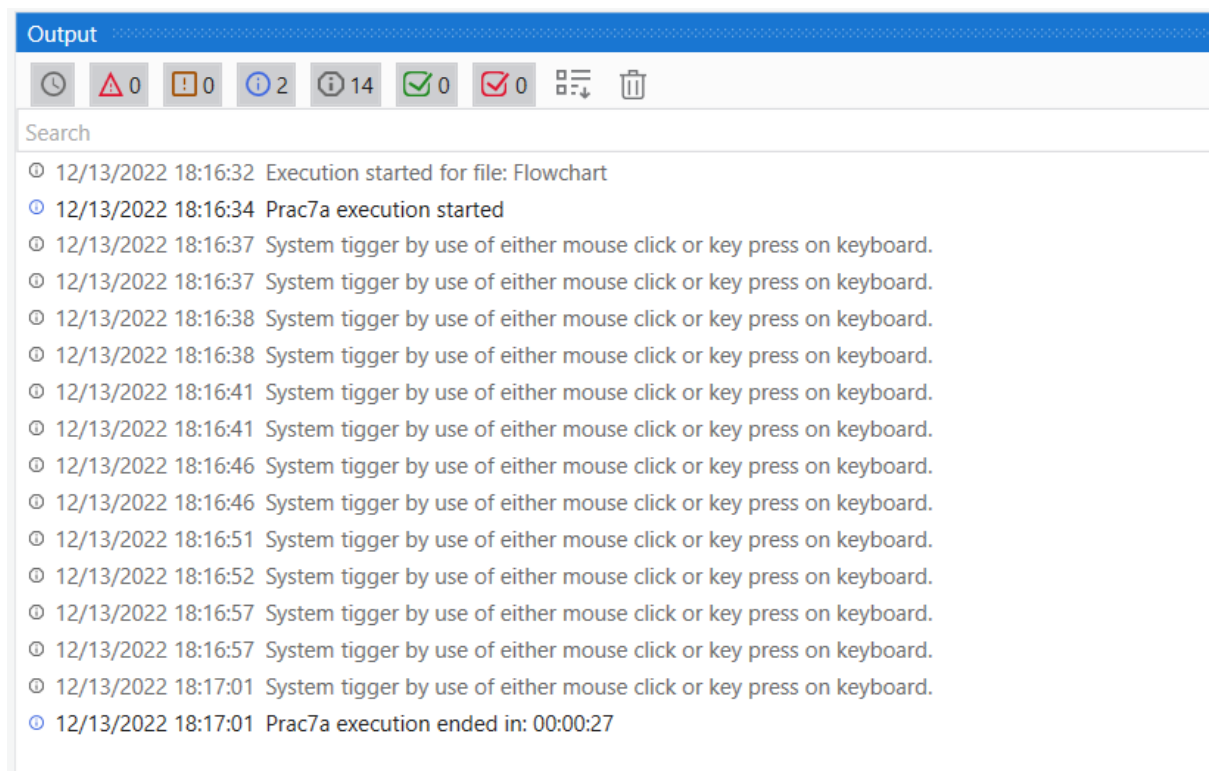


iii) System Triggering Event.

- 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:



b. Automate the following screen scraping methods using UiPath

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

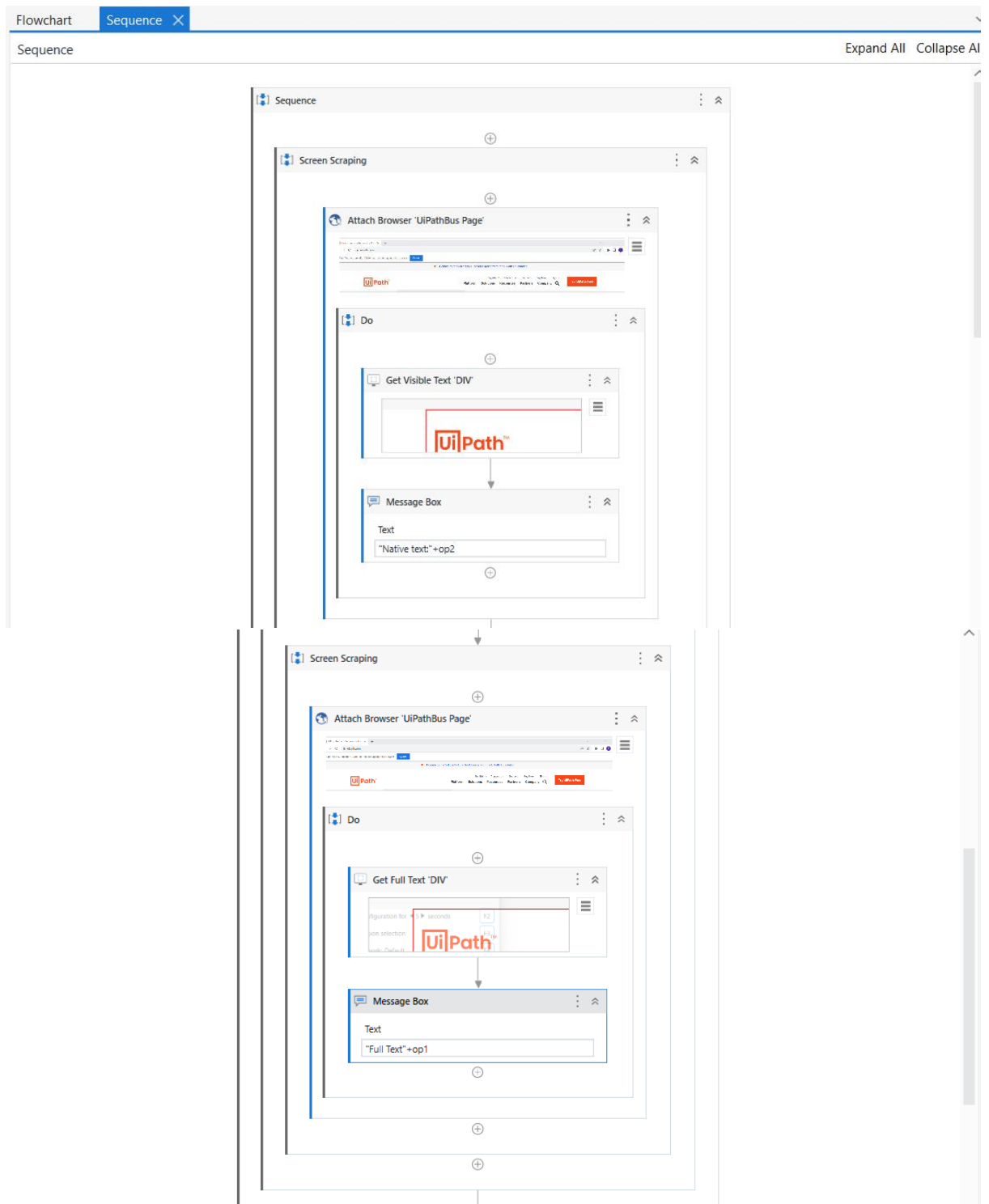
1) Open UiPath Studio and click on Blank to start a fresh project. Give it a meaningful name. Like Pratical8B.

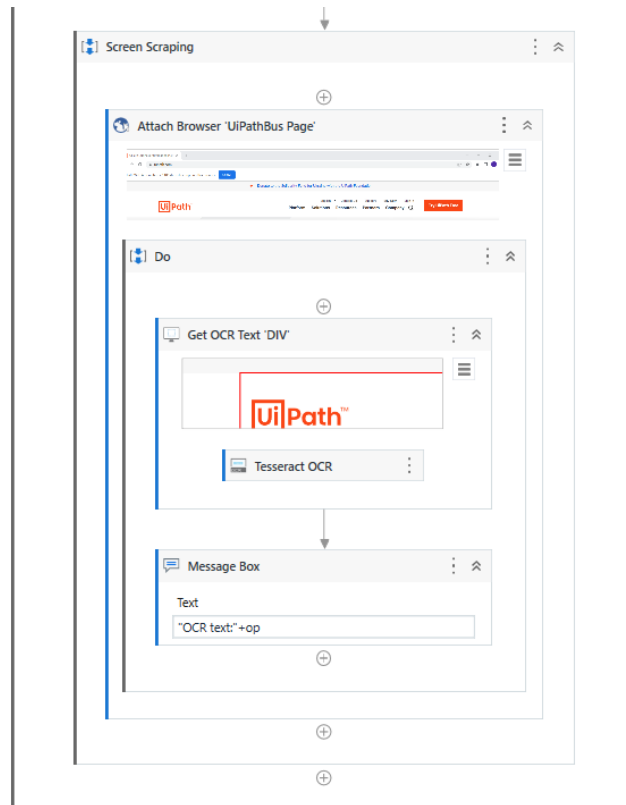
2) Open Main.xaml from Project tab. On the Designer panel, double click a flowchart activity from the Activities panel.

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.

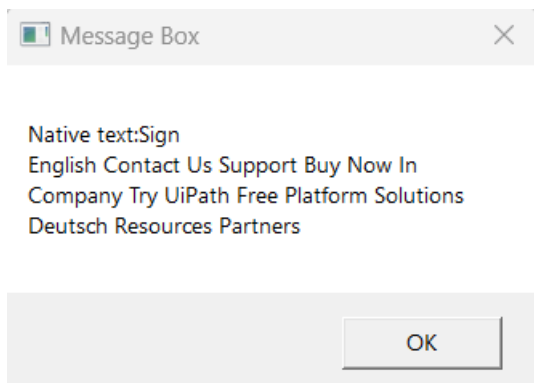
5) Repeat step 3 and 4 by changing methods as Native and OCR.



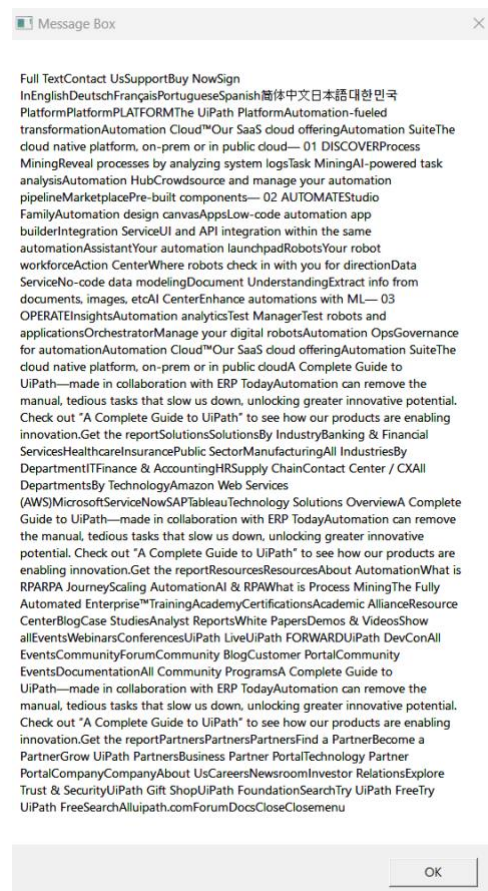


Output:

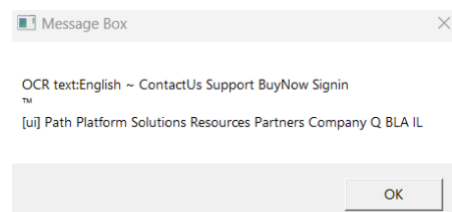
Native text:



Full text:



OCR text:



c. Install and automate any process using UiPath with the following plug-ins:

i) Java Plugin

1) Create Java Swing Application through NetBeans.

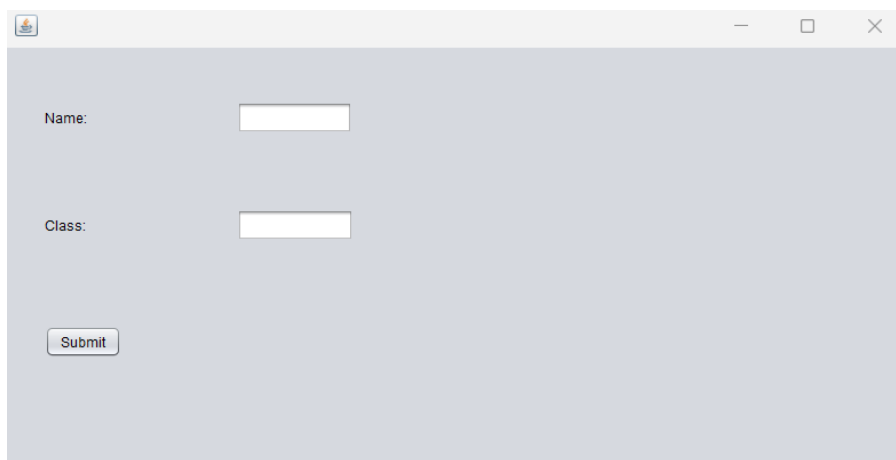
```
public class NewJFrame extends javax.swing.JFrame {
```

```
    public NewJFrame() {
```

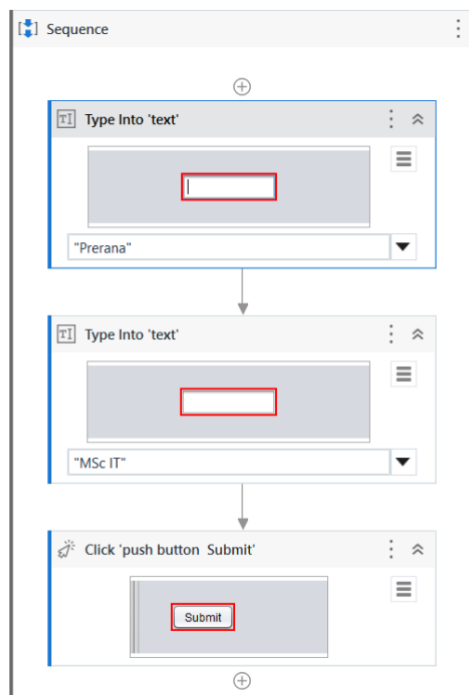
```
        initComponents(); }
```

```
@SuppressWarnings("unchecked")
```

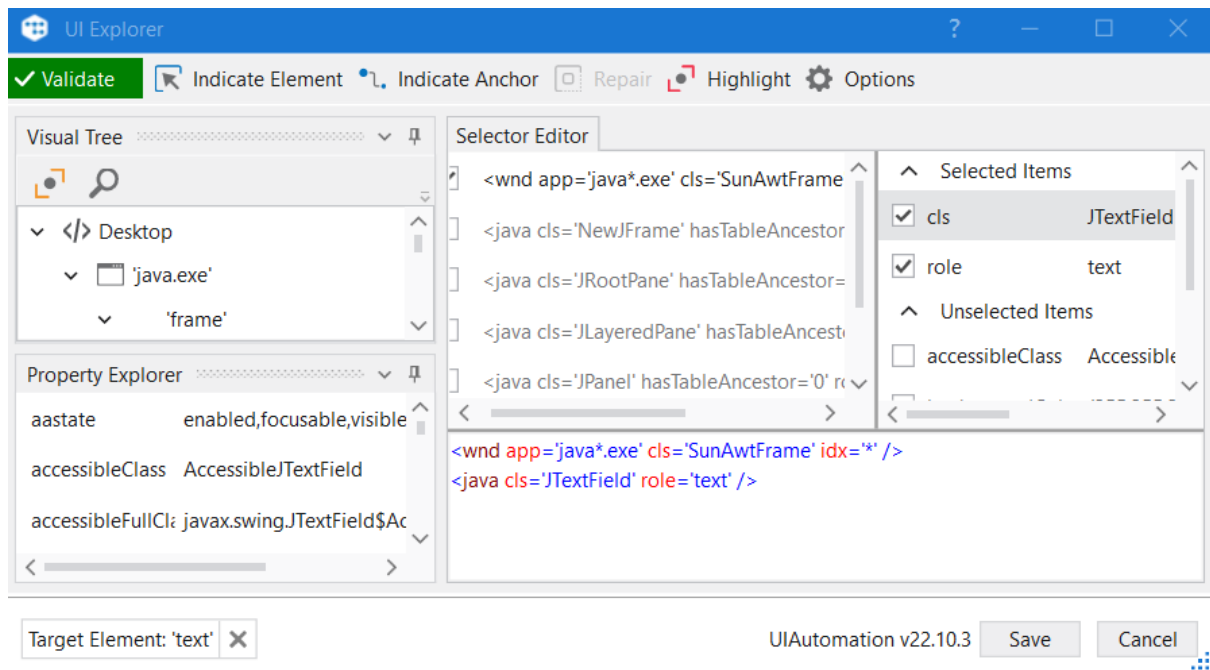
```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {  
    jLabel3.setText("Submitted successfully!"); }  
  
public static void main(String args[]) {  
    java.awt.EventQueue.invokeLater(new Runnable() {  
        public void run() {  
            new JFrame().setVisible(true); } }); }  
  
private javax.swing.JButton jButton1;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JTextField jTextField1; }
```



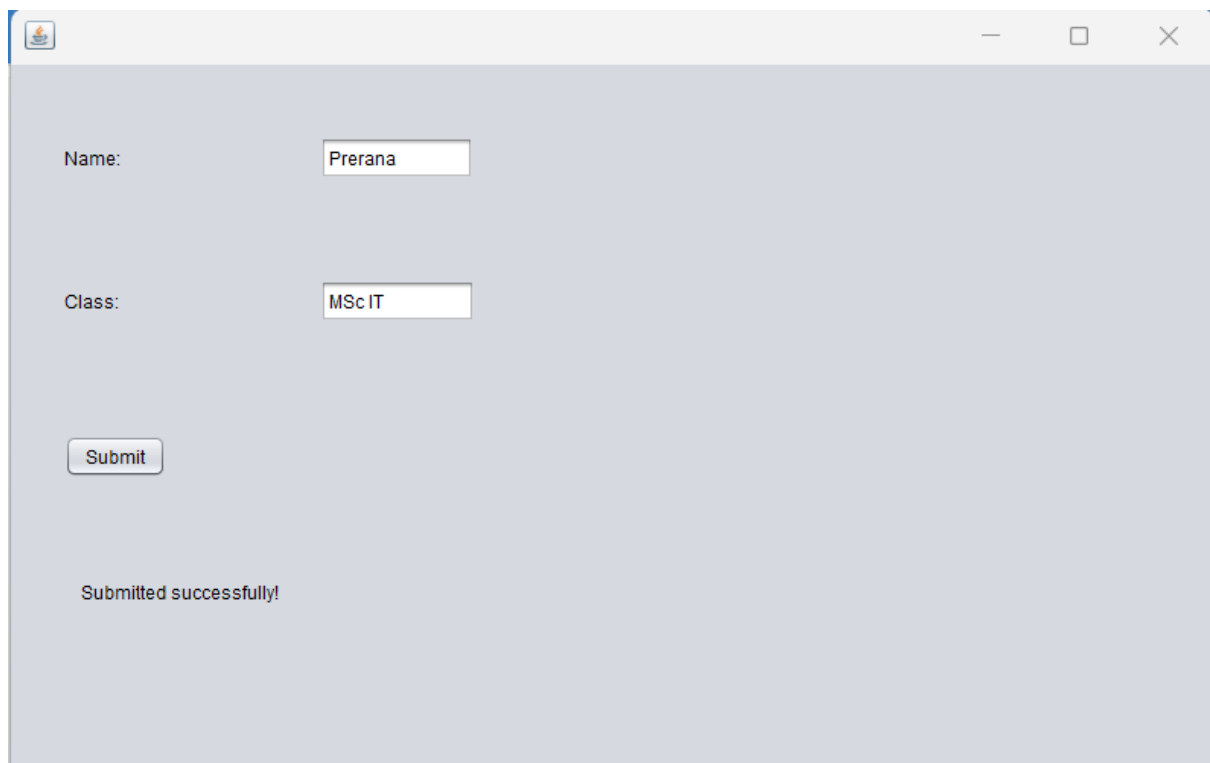
- 2) Create a Sequence and set it as start node.
- 3) Drag type into activities and indicate on text areas as shown below.
- 4) Then click on submit button.



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

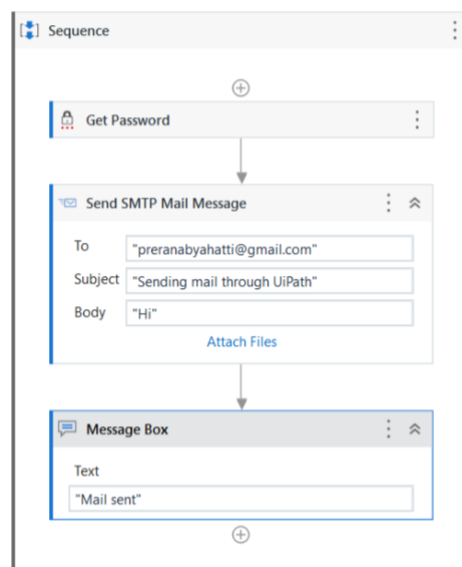


Output:

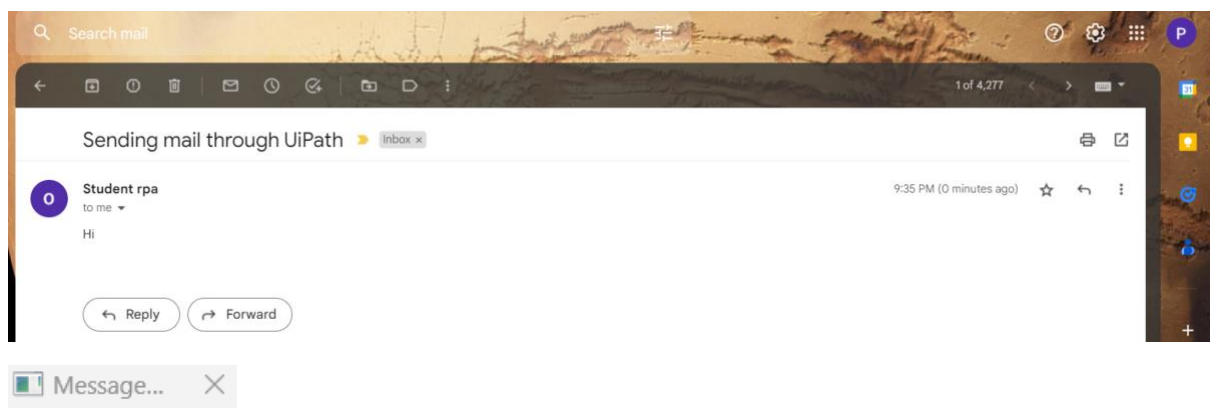


ii) Mail plugin

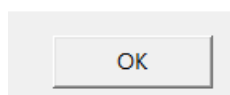
- 1) Create a sequence and set it as Start node.
- 2) Drag and drop a get password activity type the password in its properties panel and store the output in result by using a string variable.
- 3) Drag and drop a Send SMTP Mail Message activity and enter to, subject and body values.
- 4) Provide port 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.



Output:

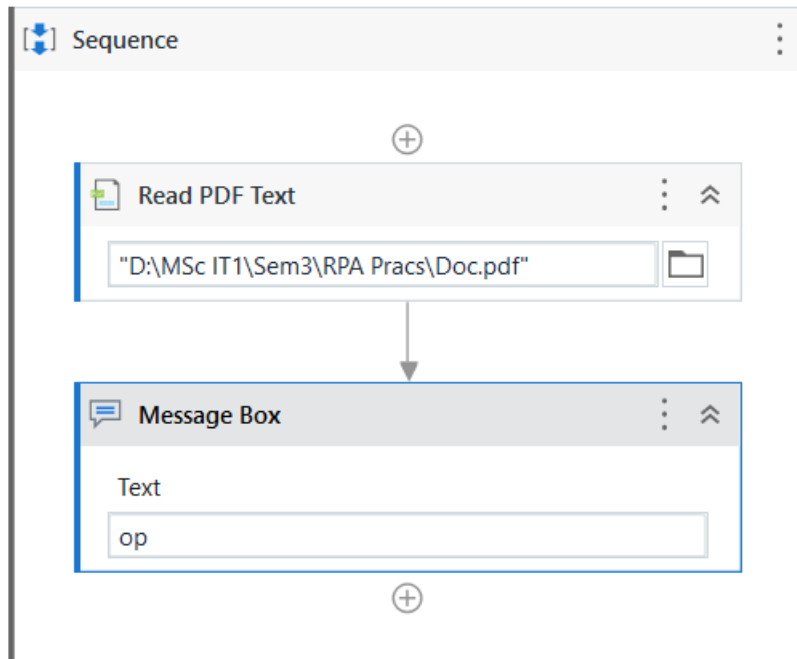


Mail sent

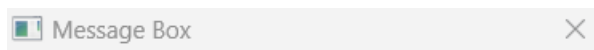


iii) PDF Plugin

- 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.

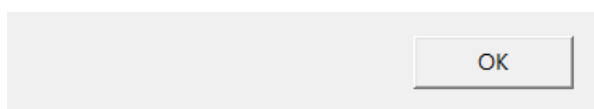


Output:



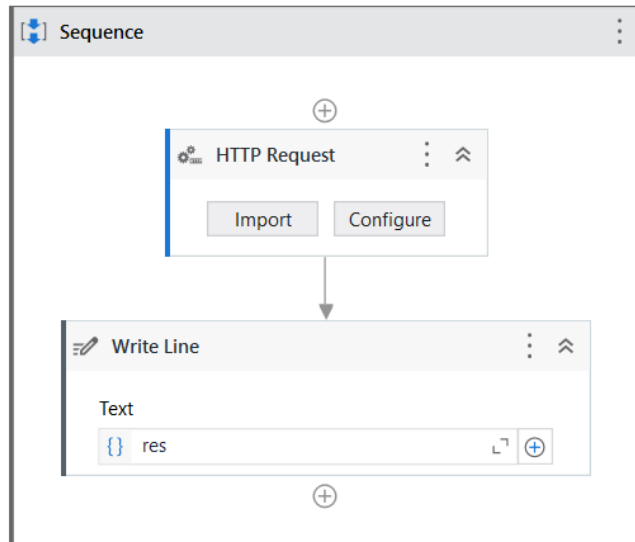
Student from MSc IT.

Student Robotic process automation through UiPath.



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.

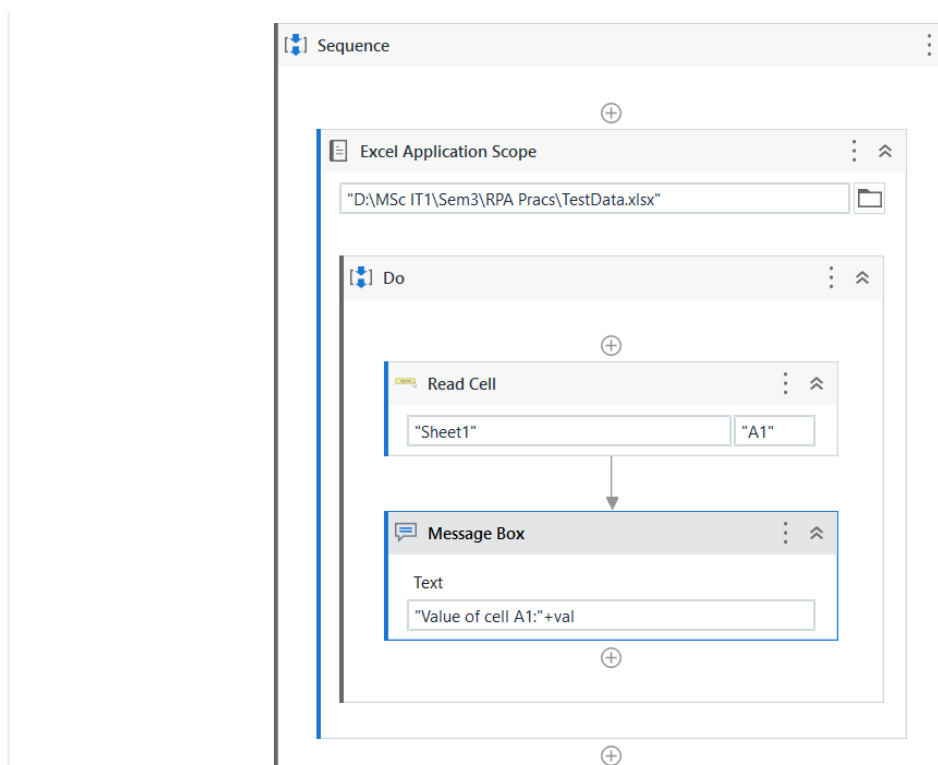


The screenshot shows the 'HTTP Request Wizard' dialog box. It has two tabs: 'Request Builder' and 'Response'. The 'Request Builder' tab is active. The 'End point' and 'Preview URL' fields both contain the URL 'https://openweathermap.org/find?q=mumbai'. The 'Enable SSL certificate verification' checkbox is checked. The 'Timeout' field is set to '6000'. The 'Client Certificate' and 'Client Certificate Password' fields are empty. The 'Request Method' is set to 'GET' and 'Accept response as' is set to 'JSON'. There are expandable sections for 'Parameters' and 'Attachments'. The 'Authentication' is set to 'None'. At the bottom, there are 'Preview' and 'Ok' buttons.



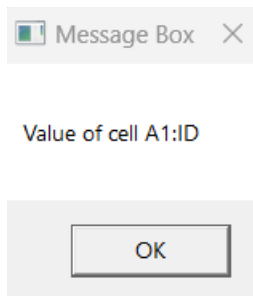
v) Excel Plugin

- 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.



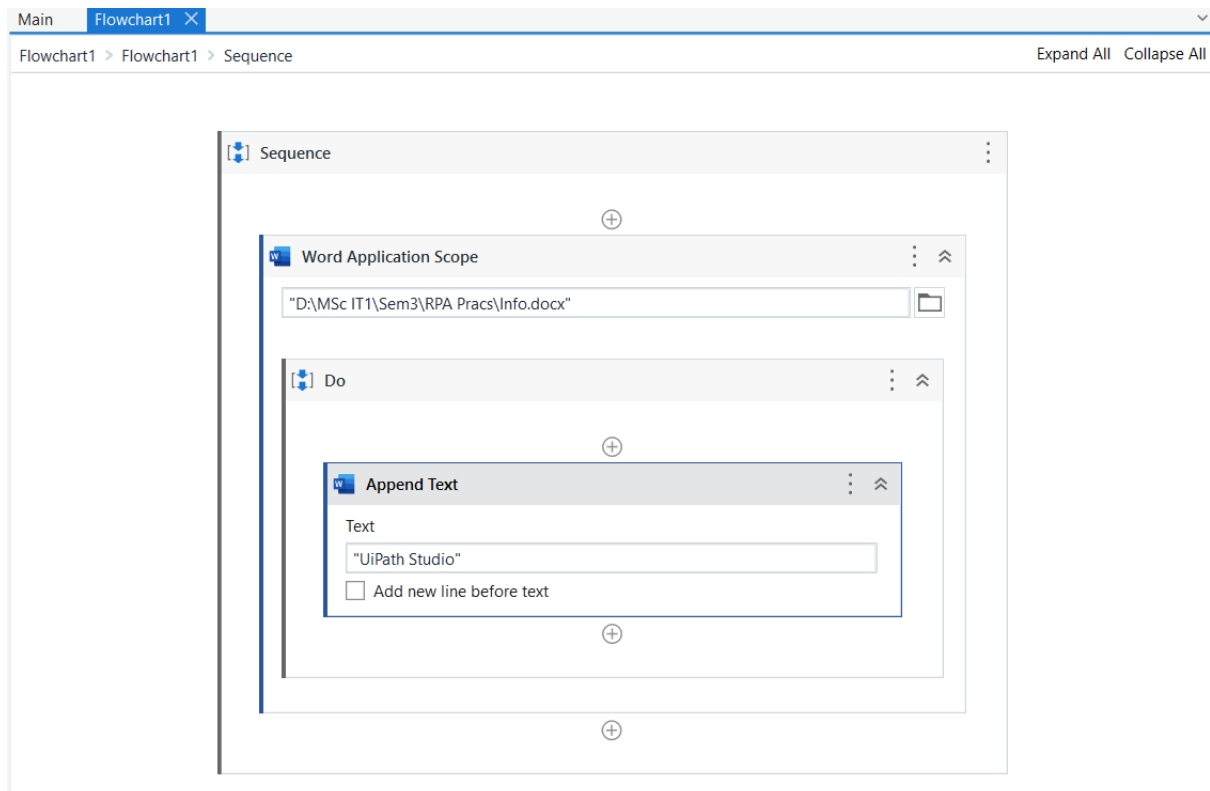
	A	B	C	D
1	ID	Fee	Status	Name
2	123	500		Bob
3	456	500		Rob
4	324	500		Tom
5	780	500		Tim

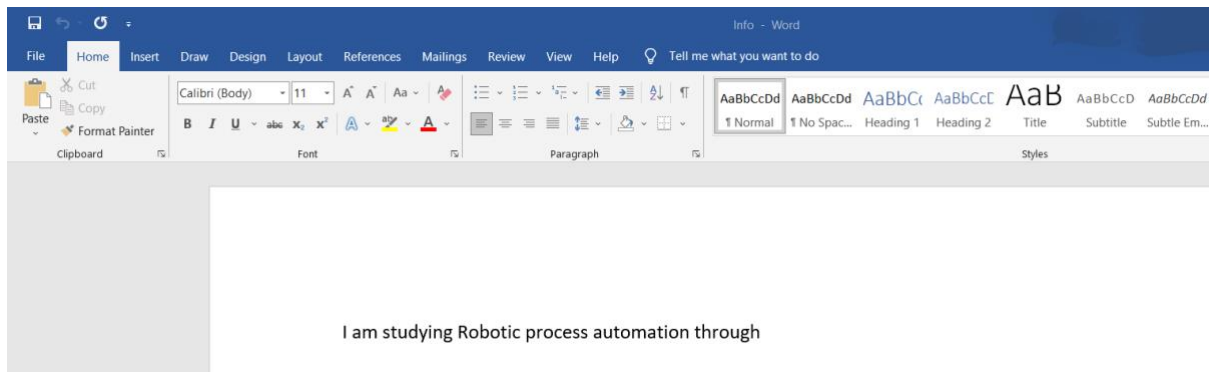
Output:



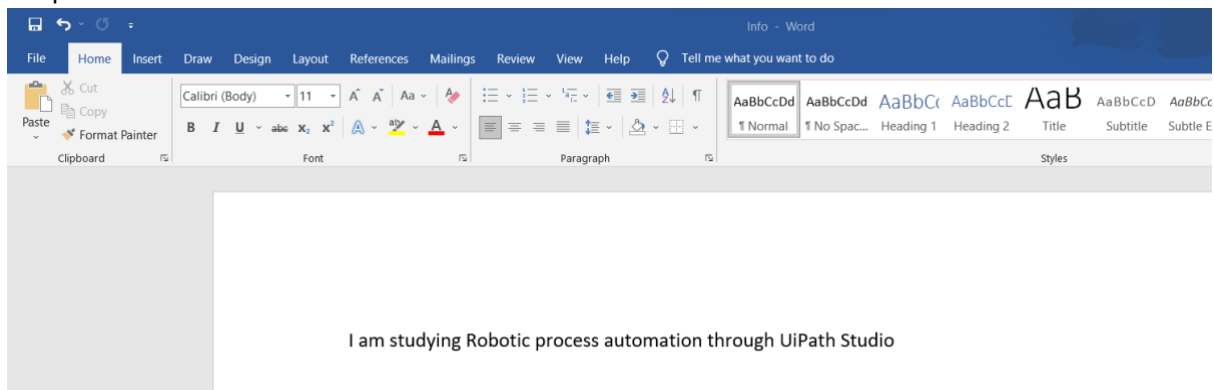
vi) Word Plugin

- 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.

Generic Credentials

[Add a generic credential](#)

GMail

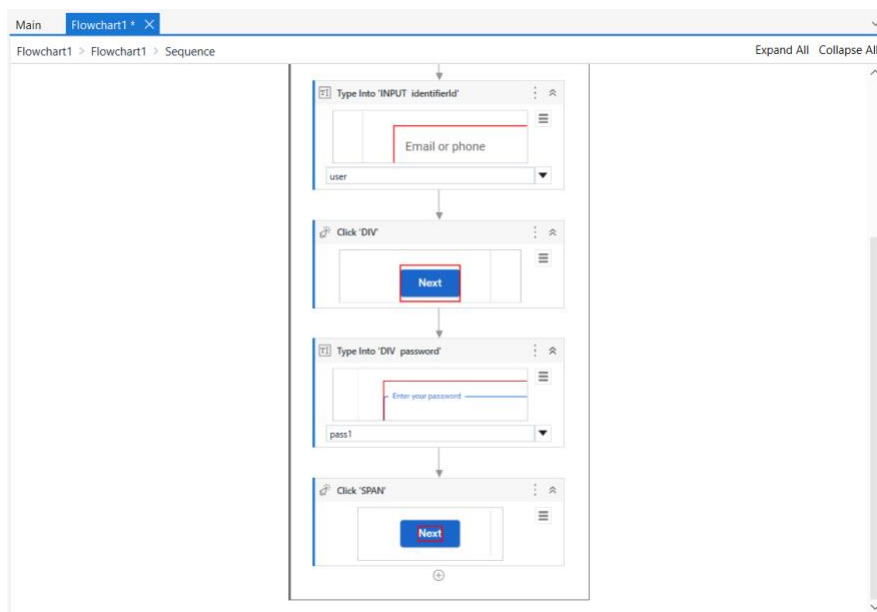
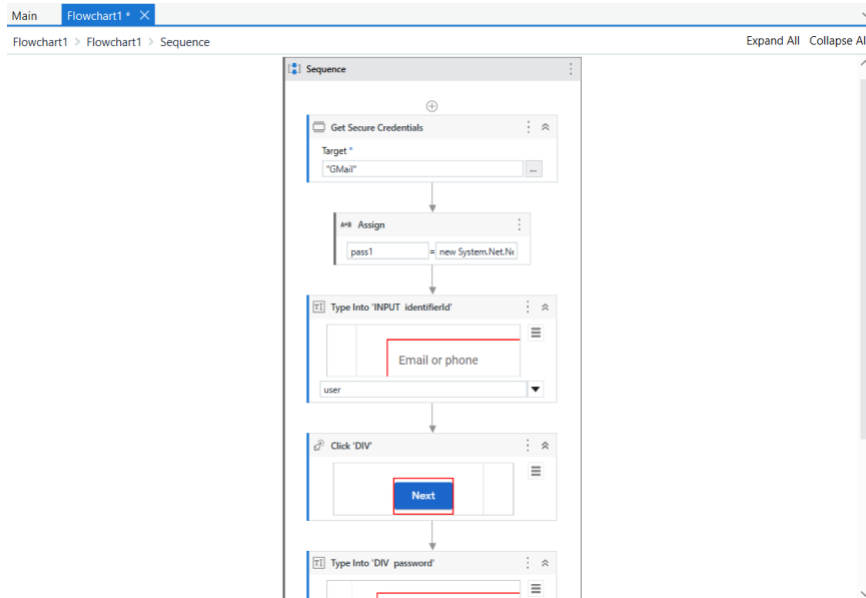
Modified: Today ^

Internet or network address: GMail
 User name: studentrpa23@gmail.com
 Password:
 Persistence: Enterprise
[Edit](#) [Remove](#)


- 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.

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

- 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.



Output:




Sign in


to continue to Gmail

Email or phone

[Forgot email?](#)



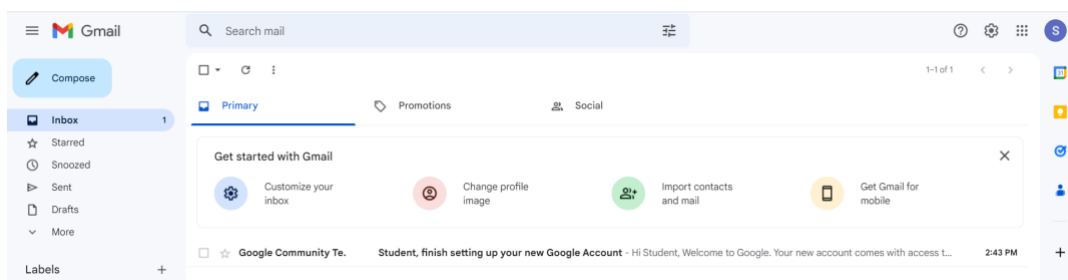
Hi Student

 studentrpa23@gmail.com ▾

Enter your password

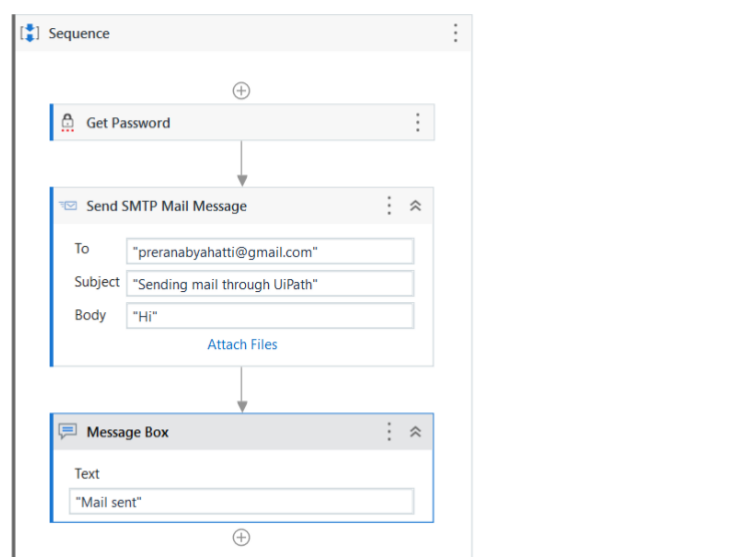
☐ Show password

[Forgot password?](#) [Next](#)

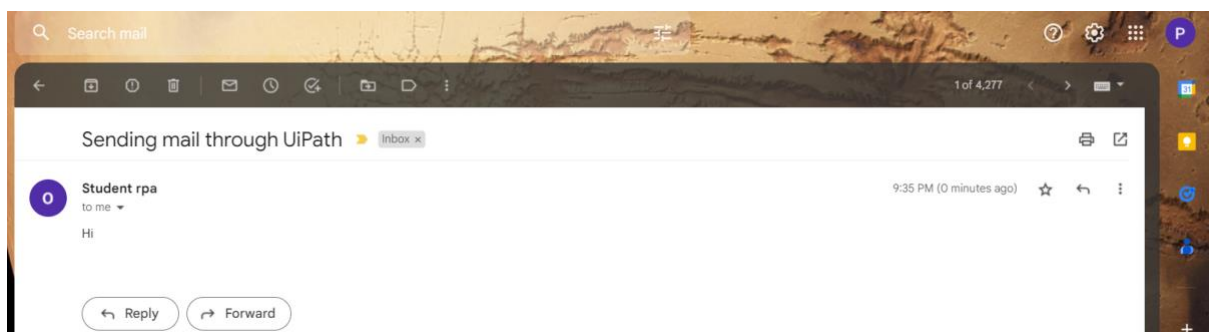


PRACTICAL NUMBER: 9

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

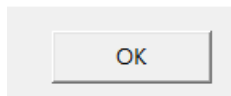


Output:



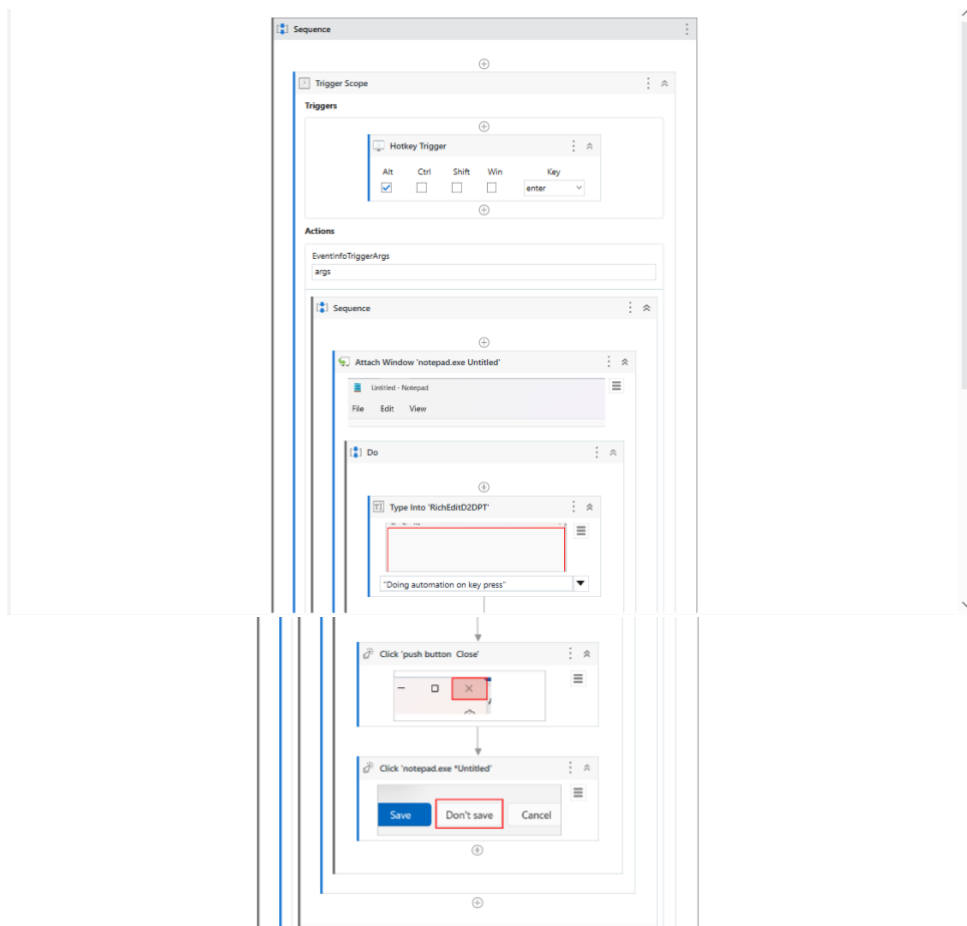


Mail sent

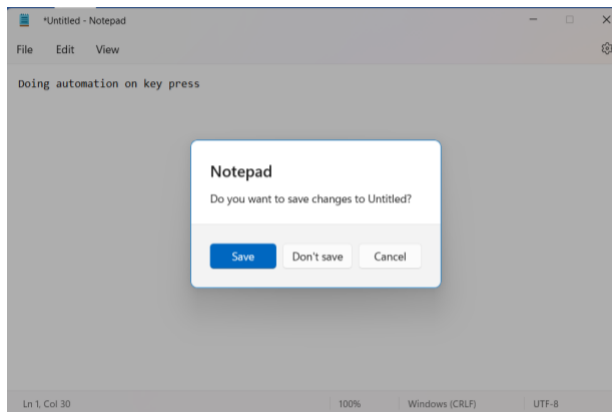


b) Automate the process of launching an assistant bot on a keyboard event.

- 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.

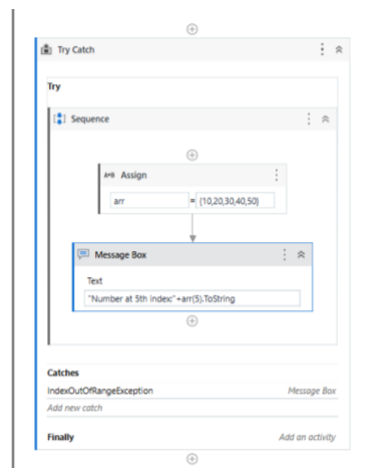


Output:



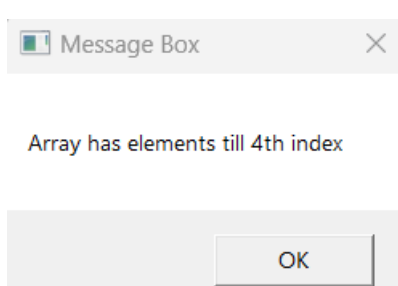
c) Demonstrate the Exception handling in UiPath.

- 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.

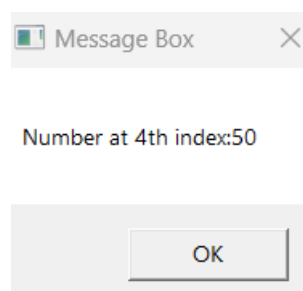


Output:

With exception:



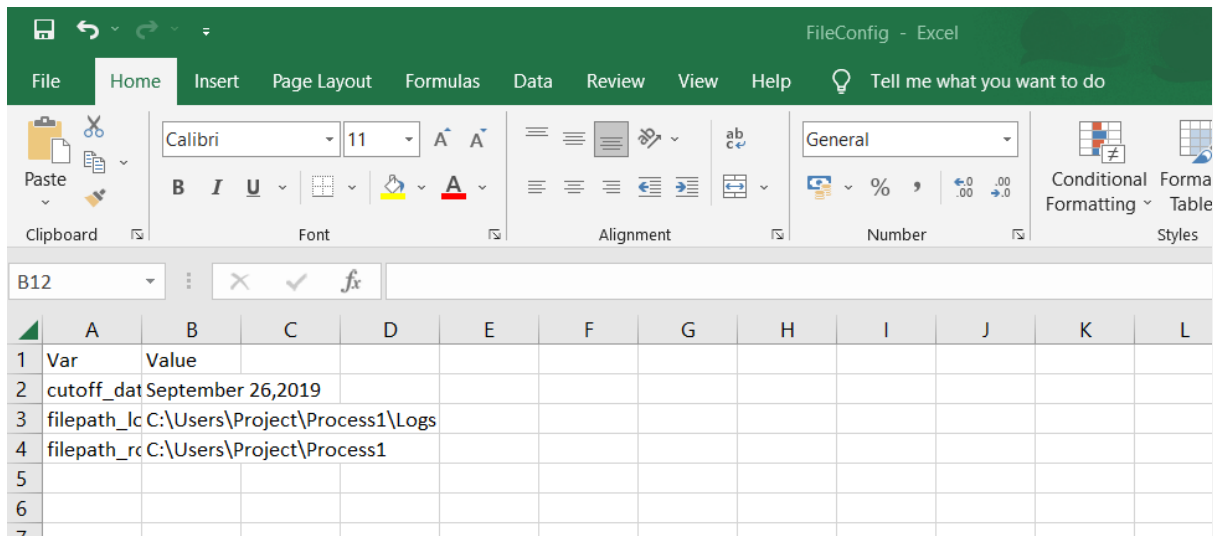
Without exception:



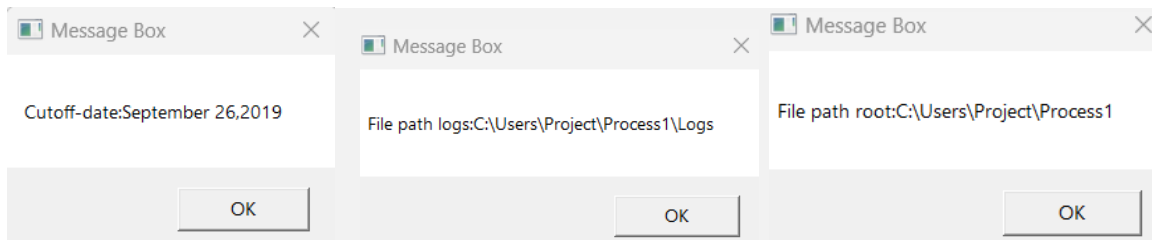
d) Demonstrate the use of config files in UiPath.

- 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.



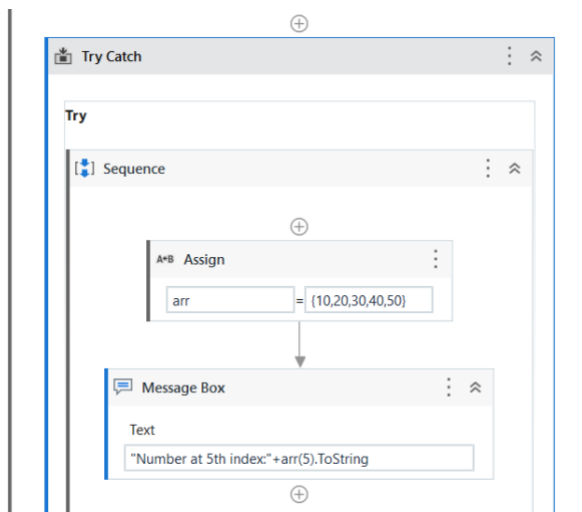


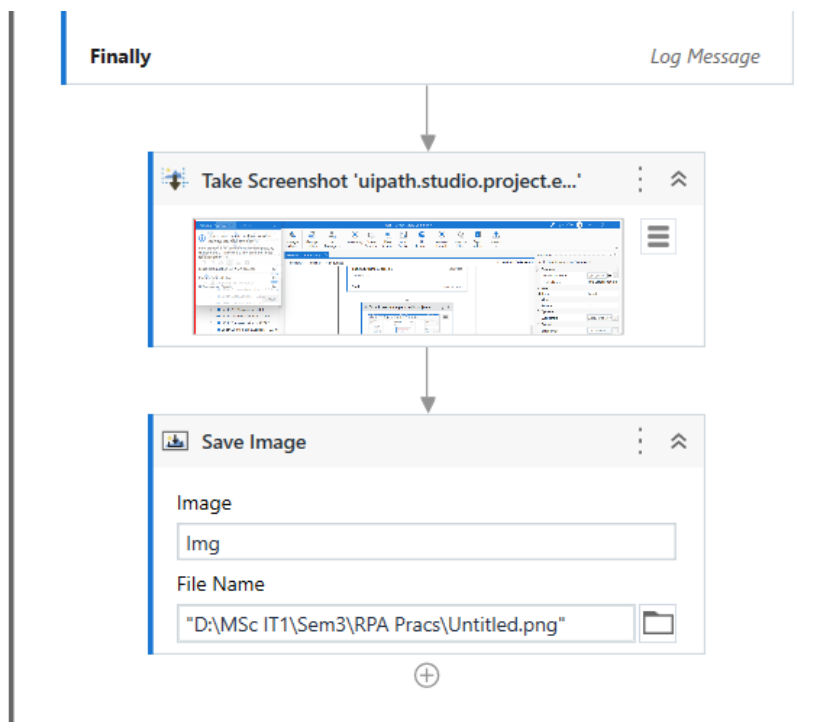
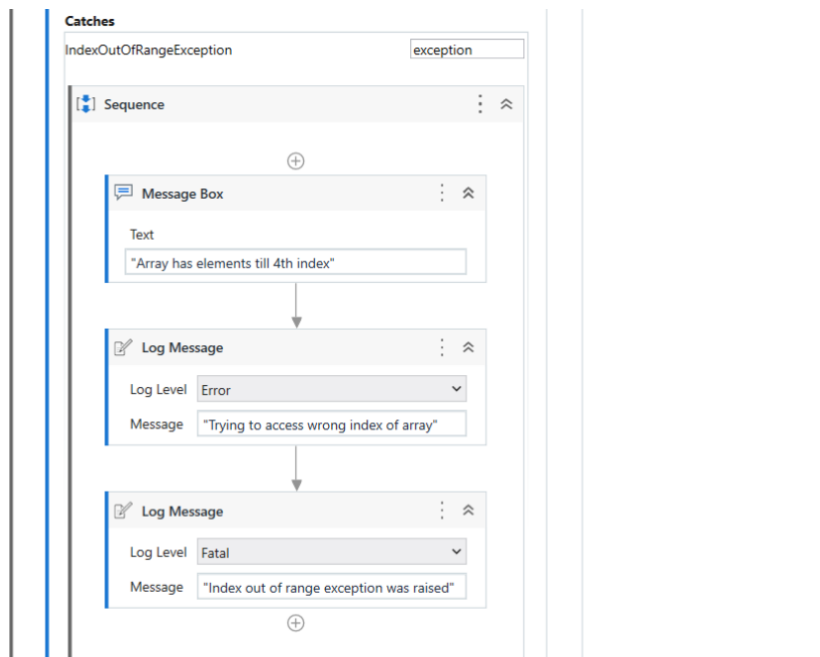
Output:



PRACTICAL NUMBER:10

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





Output:

> This PC > New Volume (D:) > MSc IT1 > Sem3 > RPA Pracs

Name	Date modified	Type	Size
CourseAssignment	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

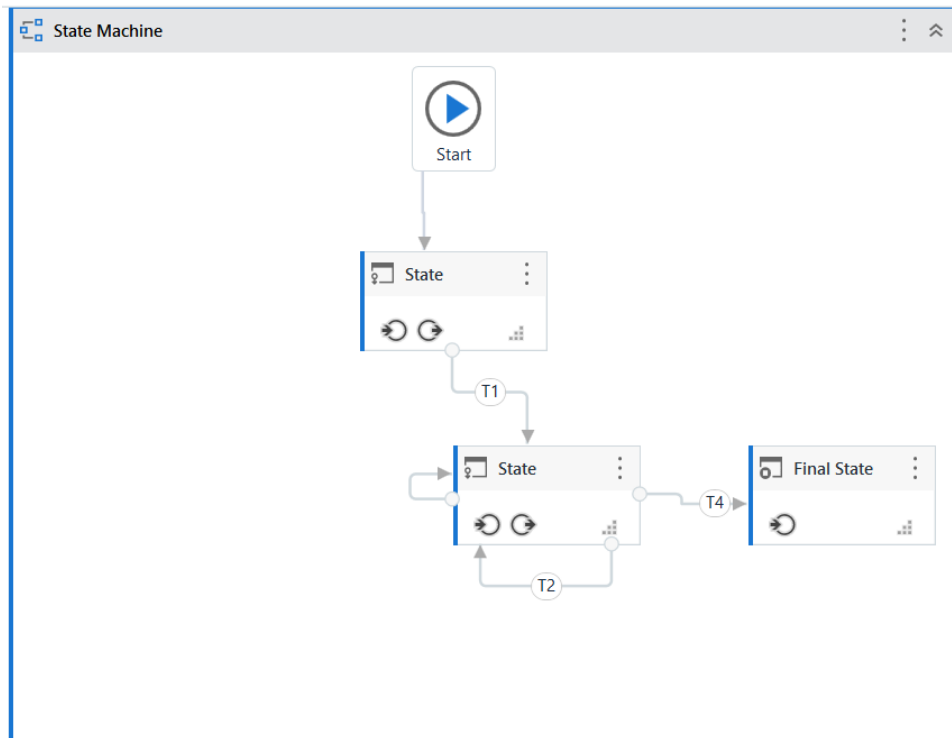
⌚ ⚠️ 1 ⚠️ 0 ⓘ 3 ⓘ 2 ✅ 0 ✅ 0 ⚙️ 🗑️

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

b. Automate any process using State Machine in UiPath.

1) Drag and drop state machine activities, state and final state activities as shown below:



2) 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

3) Configure each state and trigger activity as shown below

State

Entry

A*B Assign

num = new random().next

Exit

Message Box

Text

"Random number Generated. Are You Ready to Guess?"

Transition(s)

T1 → Destination: State

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

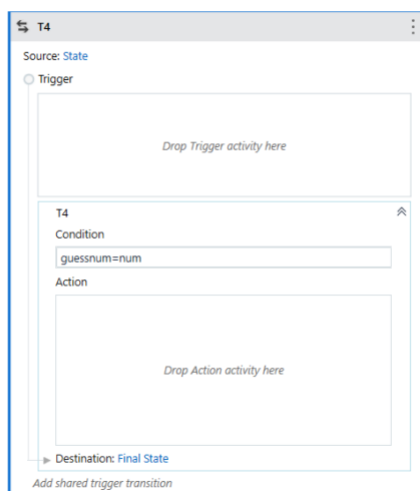
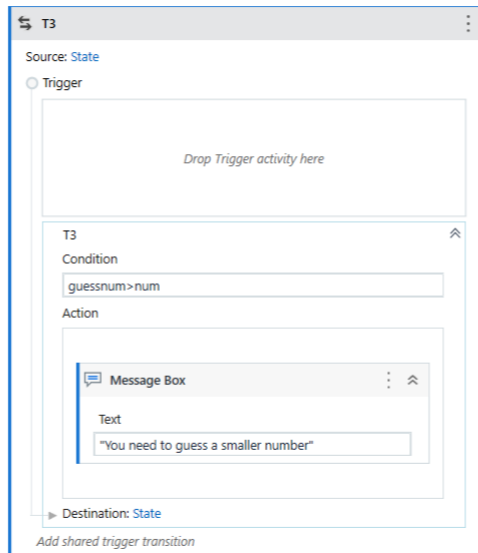
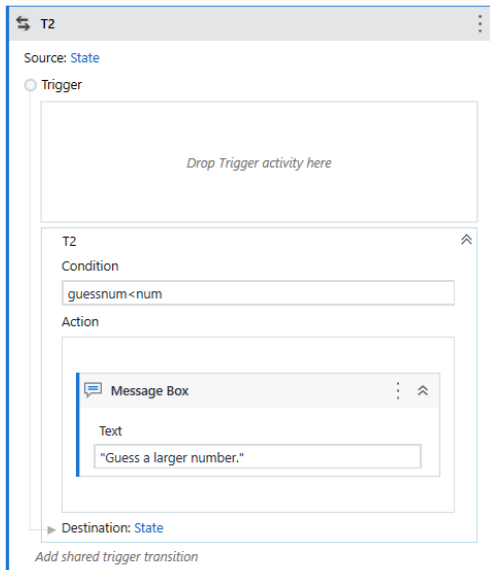
Final State

Entry

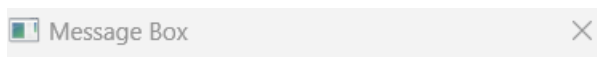
Message Box

Text

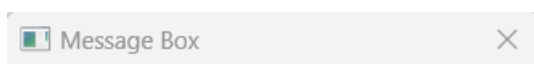
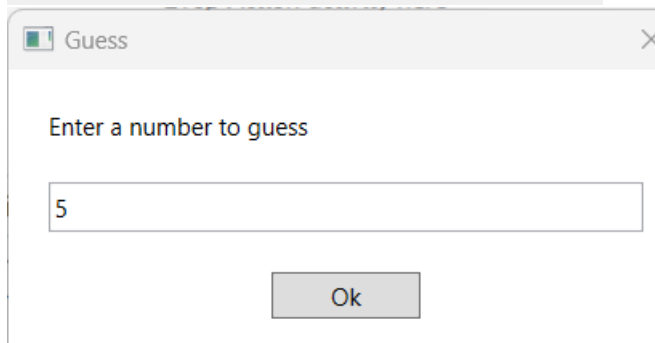
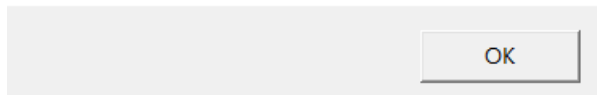
"You won."



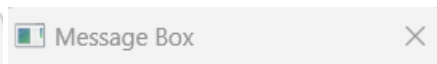
Output:



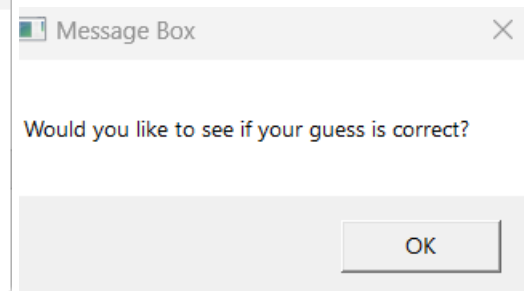
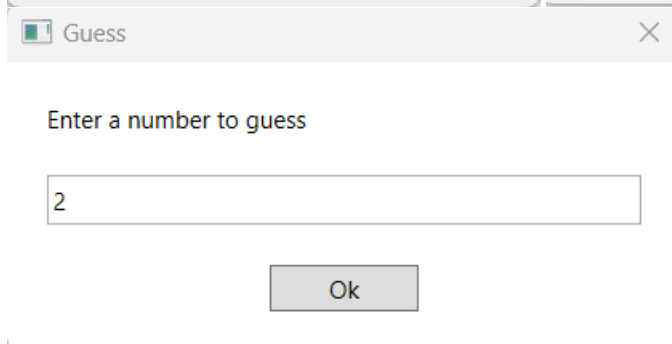
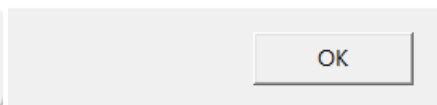
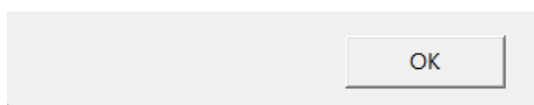
Random number Generated. Are You Ready to Guess?

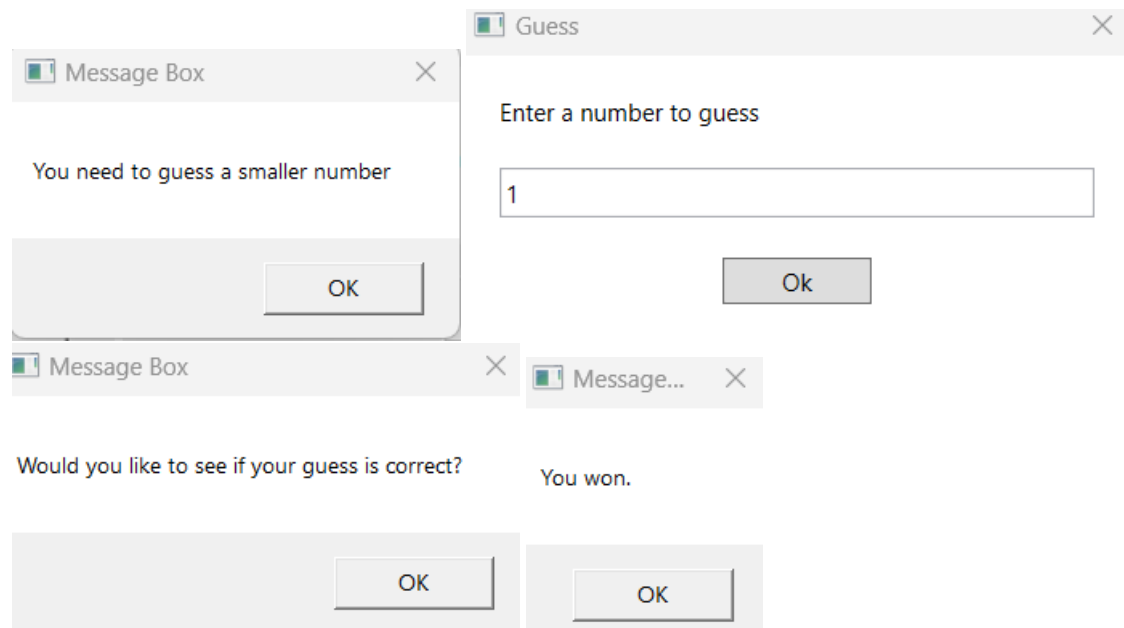


Would you like to see if your guess is correct?

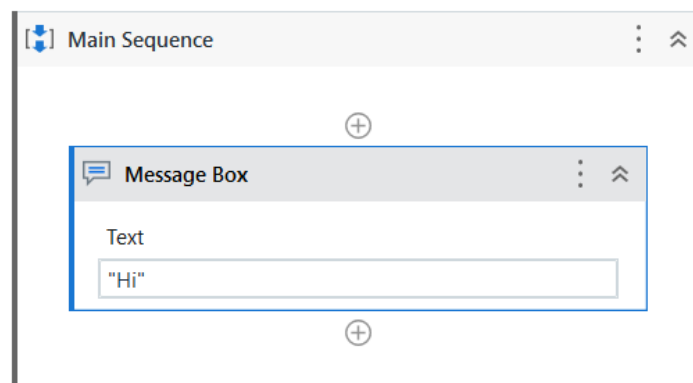


You need to guess a smaller number





- b. Demonstrate the use of publish utility.
- 1) Add a message box and display hello message.
 - 2) Click on publish present in design tab.
 - 3) Follow the below steps



Ui

Publish Process

✕

Package properties

Publish options

Certificate signing

Package properties

Package Name *

BlankProcess

▼

Version

Current Version


1.0.0


New Version *

1.0.1

☐ Is Prerelease ?

Package Icon ?

 Optional Package Icon



Project tags

Start typing to get a list of possible matches

▼

Release Notes

Cancel

Back

Next

Publish

Uj

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

Ui

Publish Process

×

Package properties

Publish options

Certificate signing

Certificate signing

Certificate

Optional Certificate Path

Certificate Password

Timestamp

Optional Certificate Timestamp

Cancel

Back

Next

Publish

Ui

Info

×

i

Project published successfully.
Name: BlankProcess
Version: 1.0.1

Details

Copy to Clipboard

OK

Output:

UiPath Orchestrator

Home

Automation

Monitoring

Queues

Assets

Storage Buckets

Processes

Jobs

Triggers

My Packages

Logs

Search

Columns

Filters

Add process

Name	Version	Job...	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

