

No.	Title/Aim	Sign
1 a	Create a simple sequence based project.	
1 b	Create a flowchart-based project.	
2 a	Automate UiPath Number Calculation (Subtraction, Multiplication, Division of numbers).	
2 b	Create an automation UiPath project using different types of variables (number, datetime, Boolean, generic, array, data table)	
3 a	Create an automation UiPath Project using decision statements.	
3 b	Create an automation UiPath Project using looping statements.	
4 a	Automate any process using basic recording.	
4 b	Automate any process using desktop recording.	
4 c	Automate any process using web recording.	
5	Consider an array of names. We have to find out how many of them start with the letter "a". Create an automation where the number of names starting with "a" is counted and the result is displayed	
6 a	Create an application automating the read, write and append operation on excel file.	
6 b	Automate the process to extract data from an excel file into a data table and vice versa	
7 a	Implement the attach window activity.	
7 b	Find different controls using UiPath.	
7 c	c. Demonstrate the following activities in UiPath: i. Mouse (click, double click and hover) ii. Type into iii. Type Secure text	
8 a	Demonstrate the following events in UiPath: i. Element triggering event ii. Image triggering event iii. System Triggering Event	
8 b	Automate the following screen scraping methods using UiPath	

**Question 1:**

- a. Create a simple sequence based project.
- b. Create a flowchart-based project.
- c. Create an UiPath Robot which can empty a folder in Gmail solely on basis of recording.

**01 CREATE A SIMPLE SEQUENCE BASED PROJECT.****CODE****STEP 01**

Click on Open main workflow.

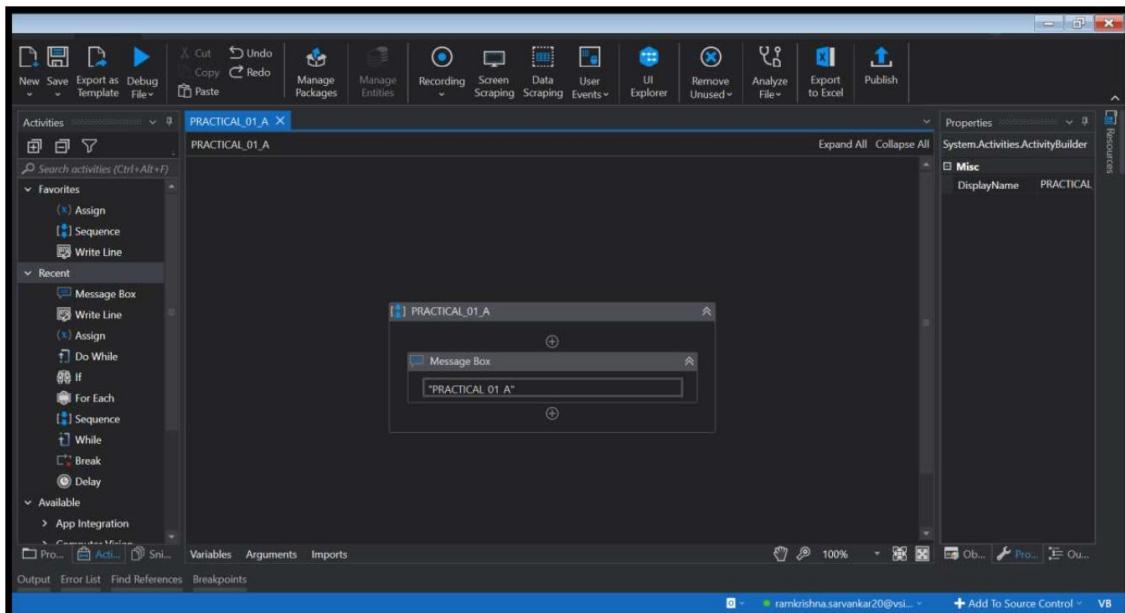
In activity panel search message box and select message box and drop in main workflow.

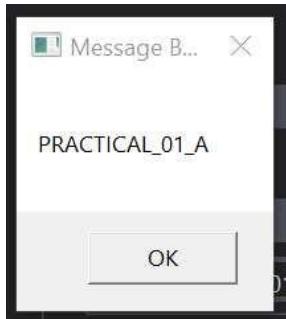
**STEP 02**

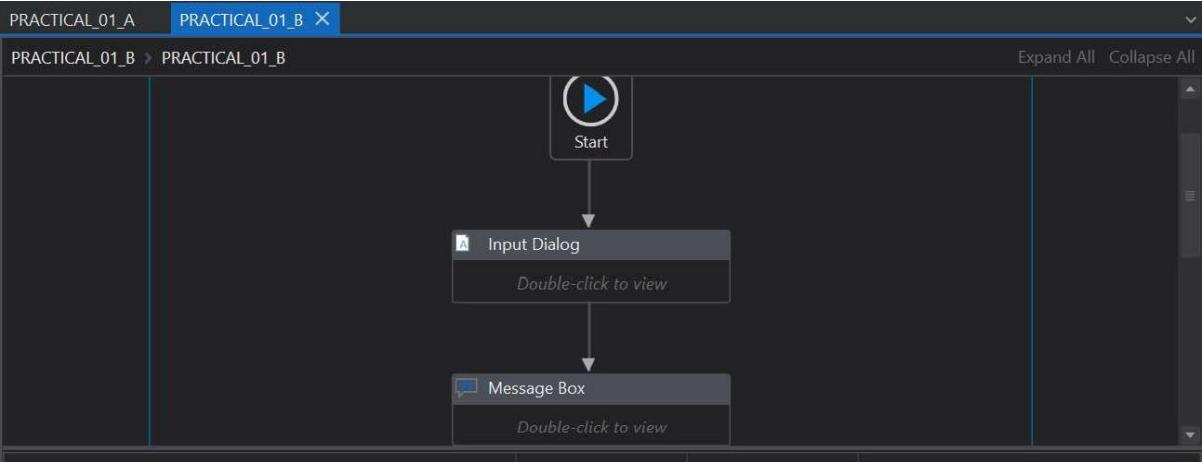
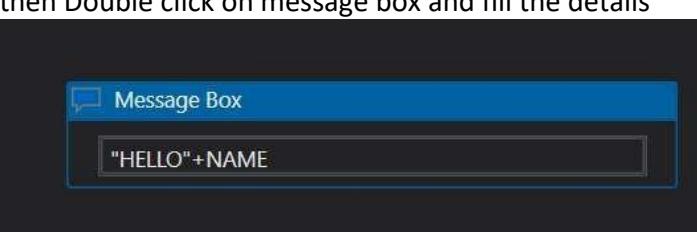
In message box type PRACTICAL\_01\_A

**STEP 03**

click on debug file and select run file



**OUTPUT**

02	<b>CREATE A FLOWCHART-BASED PROJECT.</b>
	<b>CODE</b> <b>STEP 01</b> Click on Open main workflow. Drag and drop flowchart from activities panel.  <b>STEP 02</b> Drag and drop input Dialog inside a flowchart  <b>STEP 03</b> Drag and drop message box inside a flowchart.
	 <pre> graph TD     Start((Start)) --&gt; InputDialog[Input Dialog]     InputDialog --&gt; MessageBox[Message Box]   </pre>
	<b>STEP 04</b> then Double click on input dialog and fill the details
	 <p><b>Input Dialog</b></p> <p>Dialog Title: "ENTER YOUR NAME"</p> <p>Input Label: "ENTER YOUR NAME"</p> <p>Input Type: Text Box</p> <p>Value entered: NAME</p>
	<b>STEP 05</b> then Double click on message box and fill the details
	 <p><b>Message Box</b></p> <p>"HELLO"+NAME</p>

## OUTPUT

ENTER YOUR NAME

ENTER YOUR NAME

RK

Ok

X



X

HELLORK

OK

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

Step 1

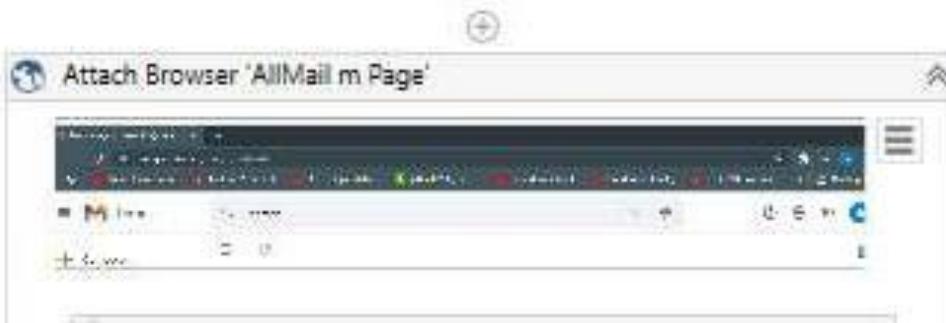
Emptying trash in Gmail

we begin with a blank project in UiPath Studio and then choose Web recorder from the Recording drop-down list

Step 2

Use the **Record** function.

Notice Open Browser between Record and Click; this is available with web recorder to record steps in browser-based applications



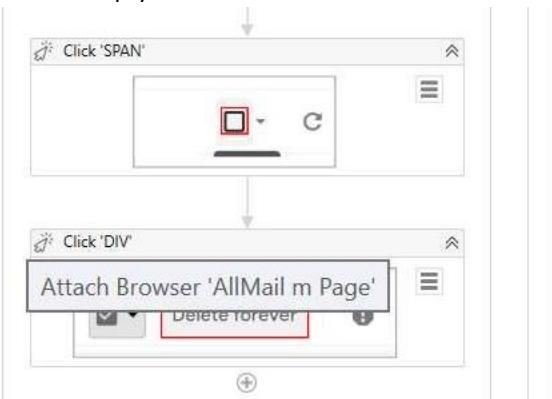
Step 3

Locate Trash Folder



Step 4

Click on Empty Trash now



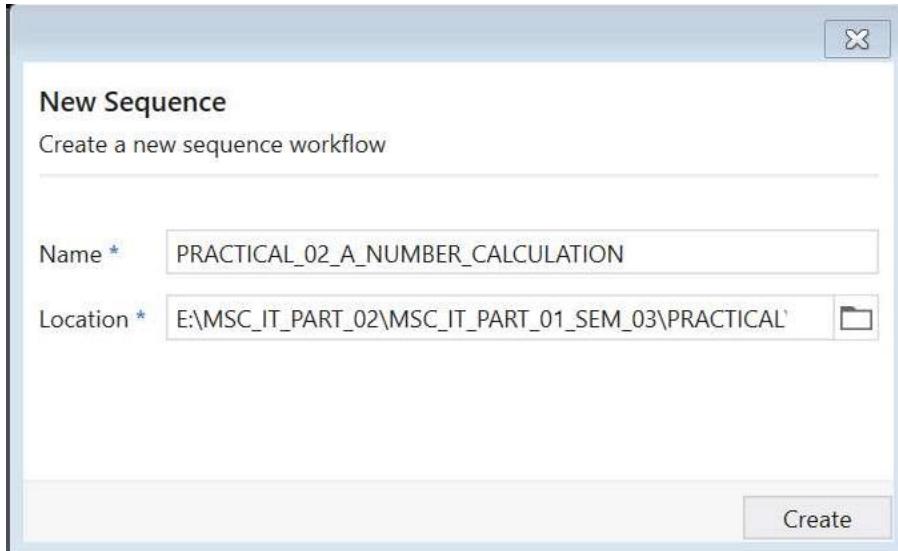


## Question 2:

- a. Automate UiPath Number Calculation (Subtraction, Multiplication, Division of numbers).
- b. Create an automation UiPath project using different types of variables (number, datetime, Boolean, generic, array, data table)

### 2.a Automate UiPath Number Calculation (Subtraction, Multiplication, Division of numbers).

**Step 1 :** Open UiPath studio select process and give Num\_Calculation and click on create



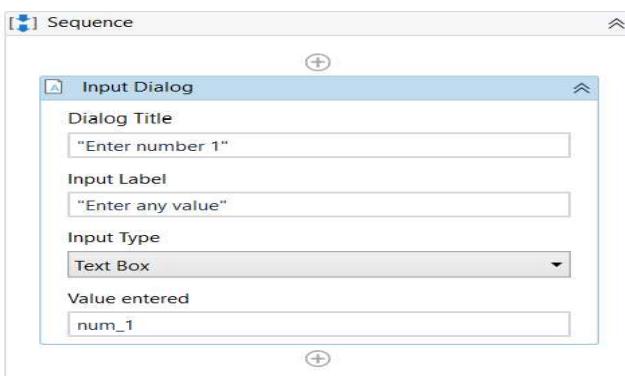
Click on open main workflow

**Step 2 :** Go to activities and select sequence drag and drop

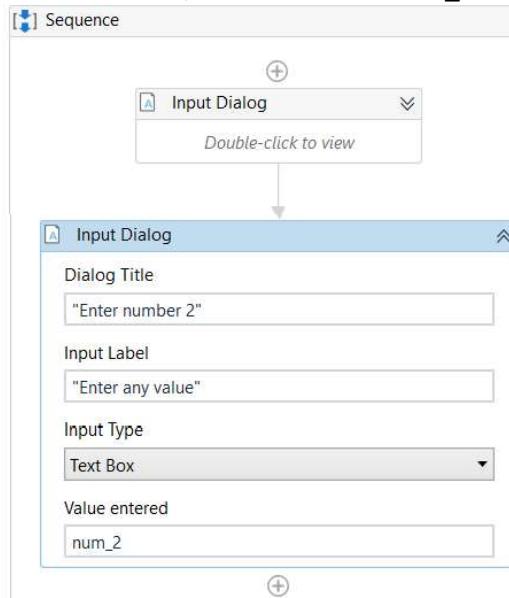


**Step 3 :** Select input dialogs from the activities drag and drop

For 1<sup>st</sup> Input Dialog-Give label name Enter number 1 ,Declare variable num\_1.Variable.type int32 in reset type num\_1



For 2<sup>nd</sup> Input Dialog-Give label name Enter number 2 ,Declare variable num\_2.Variable.type int32 in reset type num\_2



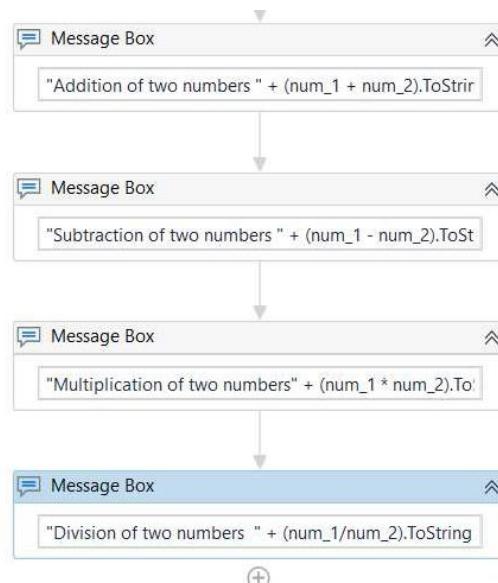
**Step 4 :** Select message boxes from activities in message box type

```
"Addition of two numbers " + (num_1 + num_2).ToString
```

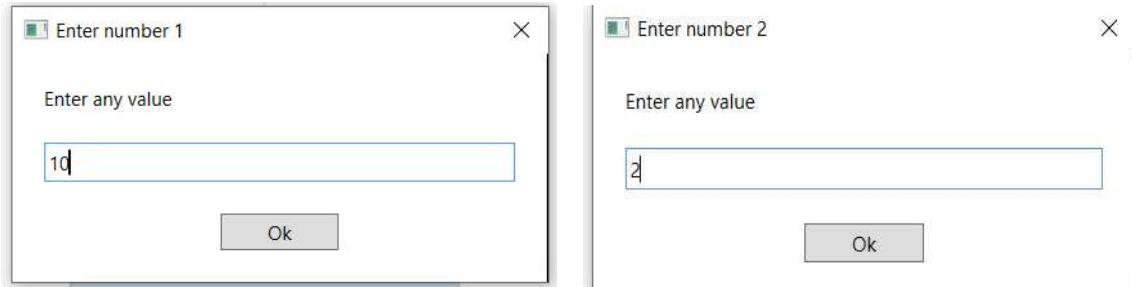
"Subtraction of two numbers " + (num\_1 - num\_2).ToString()

"Multiplication of two numbers" + (num\_1 \* num\_2).ToString()

"Division of two numbers " + (num\_1/num\_2).ToString



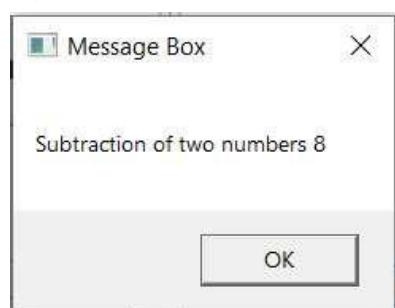
**Step 5 : Click on debug file and run file**



**1)For addition**



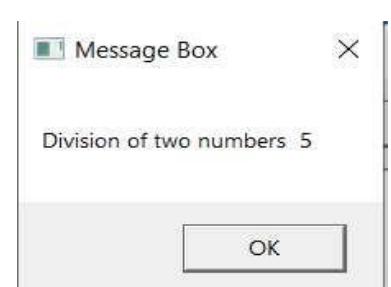
**2)For subtraction**



**3)For multiplication**



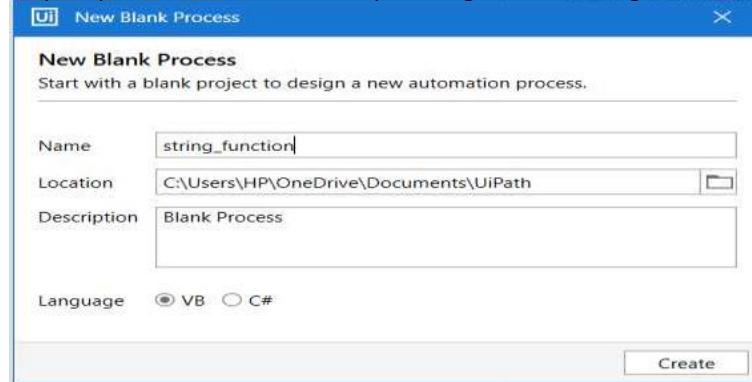
**4)For division**



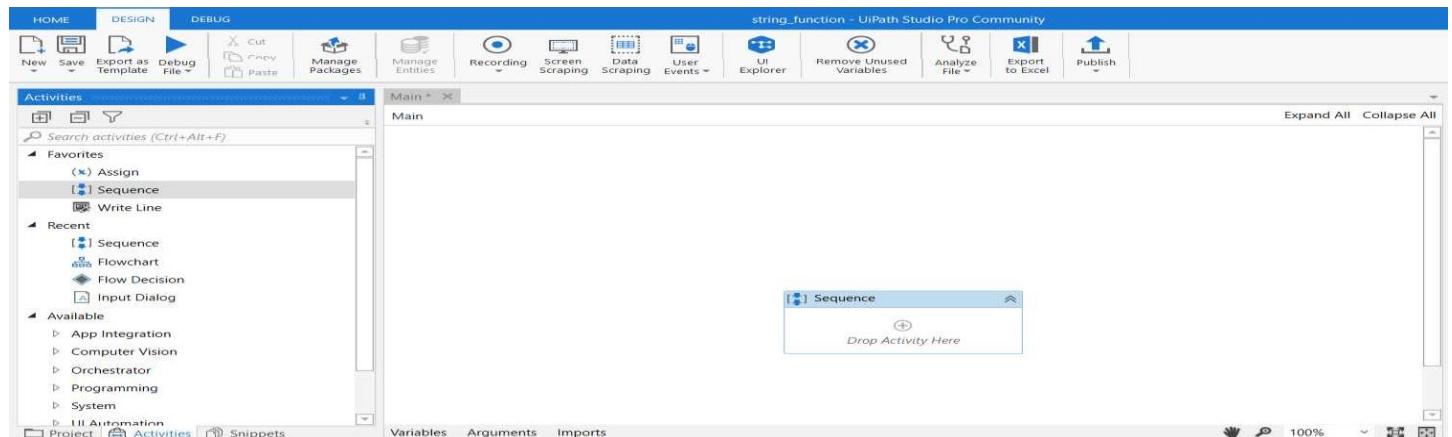
## 2.b Create an automation UiPath project using different types of variables (number, datetime, Boolean, generic, array, data table)

String count:

Step1: open UiPath studio. select process give name string function.



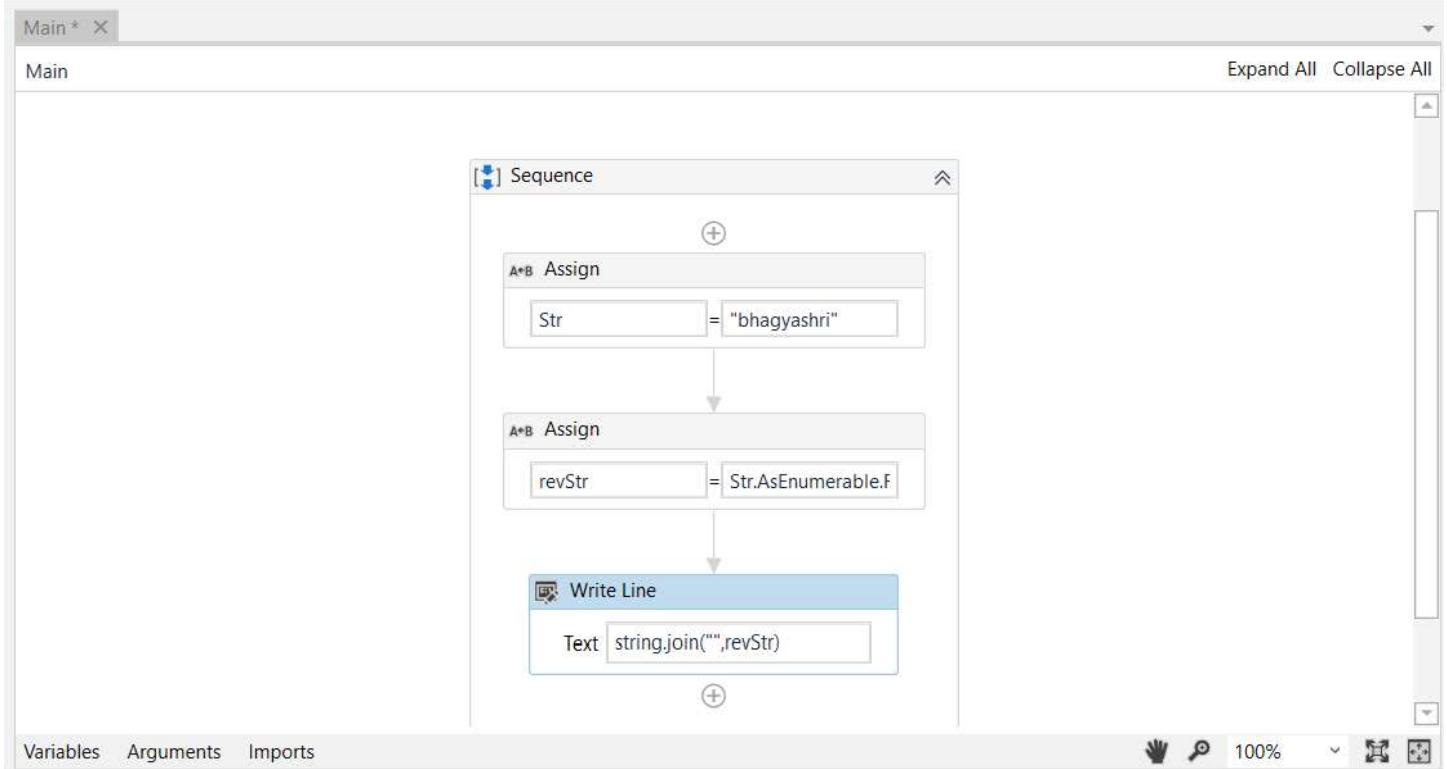
Click on open main workflow. click on new and select sequence



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



Select WriteLine drag and drop. In text string.join("",revStr)



Click on debug file and select run file.

Output:

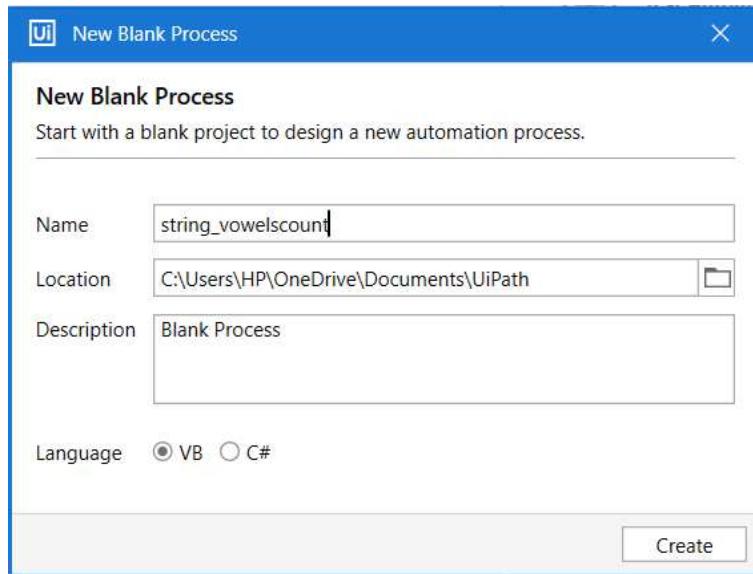
The screenshot shows the 'Output' window of a debugger. It displays the following log entries:

- Execution started for file: Main
- string\_function execution started
- irhsaygahb
- string\_function execution ended in: 00:00:01

Below the log, there are buttons for 'Output', 'Errors', 'Warnings', 'Information', 'Debug', and 'All'. A search bar labeled 'Search' is also present. At the bottom of the window, there are links for 'Error List', 'Find References', and 'Breakpoints'.

## II String vowels count

Step 1: open UiPath studio select process and give name string\_vowlescount.



Click on open main workflow select sequence form activities drag and drop.



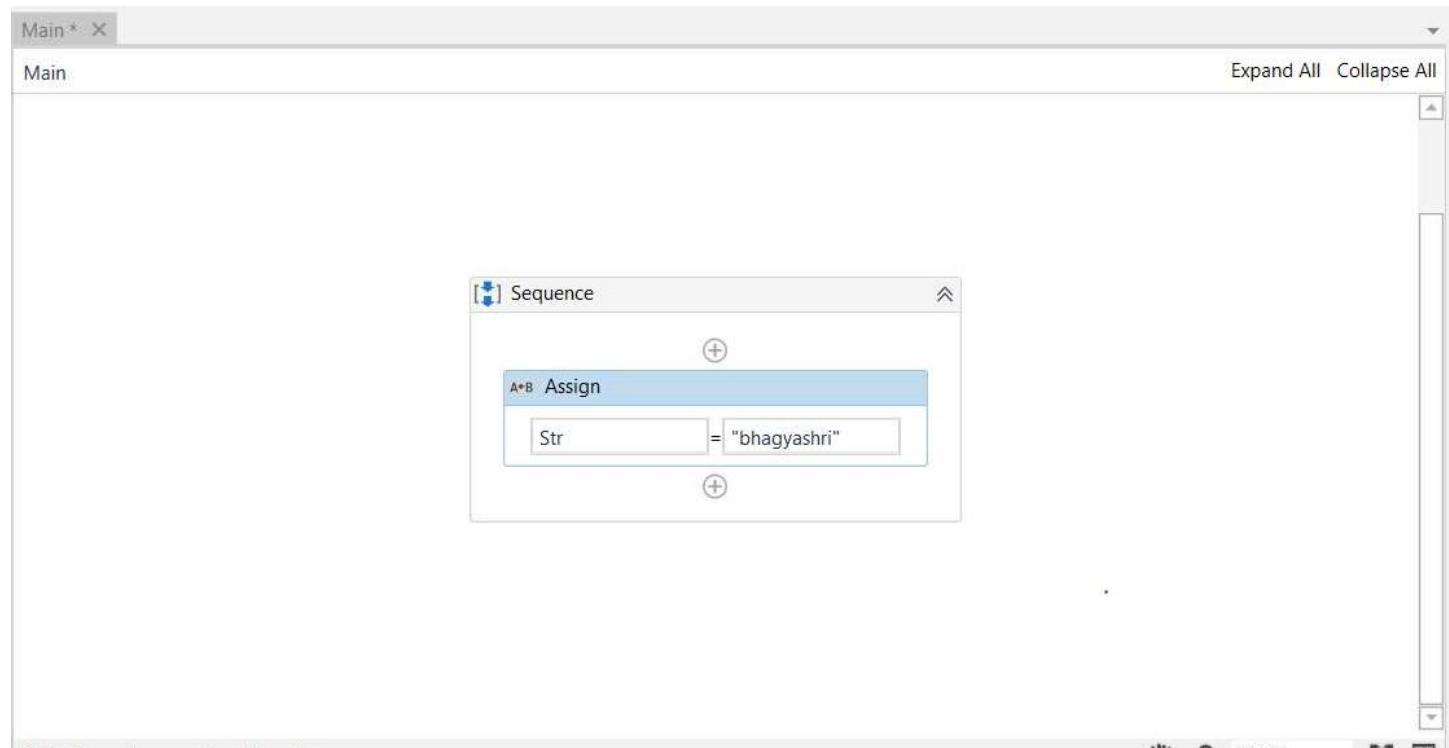
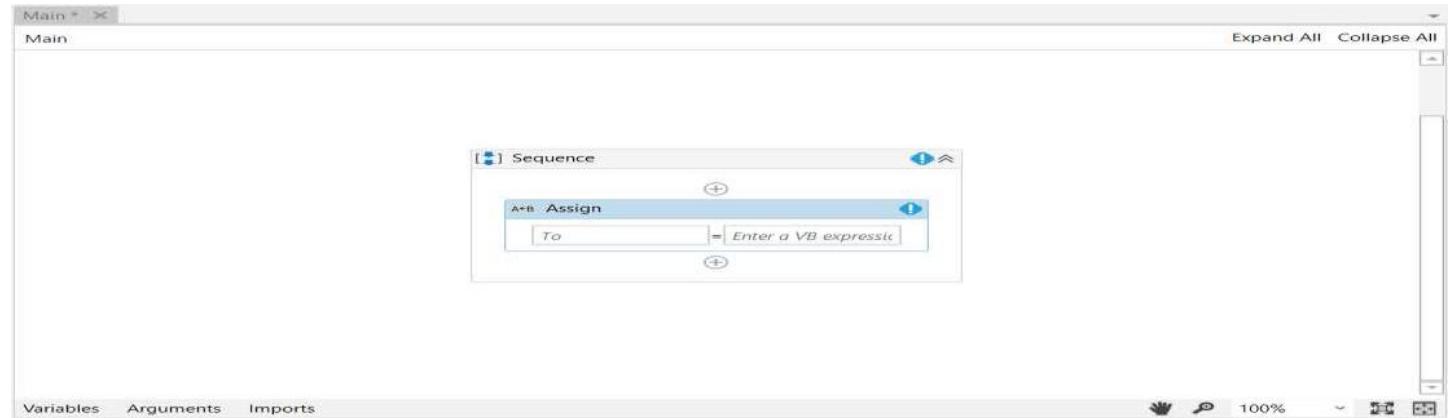
Click on variable. declare two variables

1.variable name =(Str) and variable type =string and variable scope=sequence  
2.variable name=l and variable type =array of T(string) and variable scope=sequence

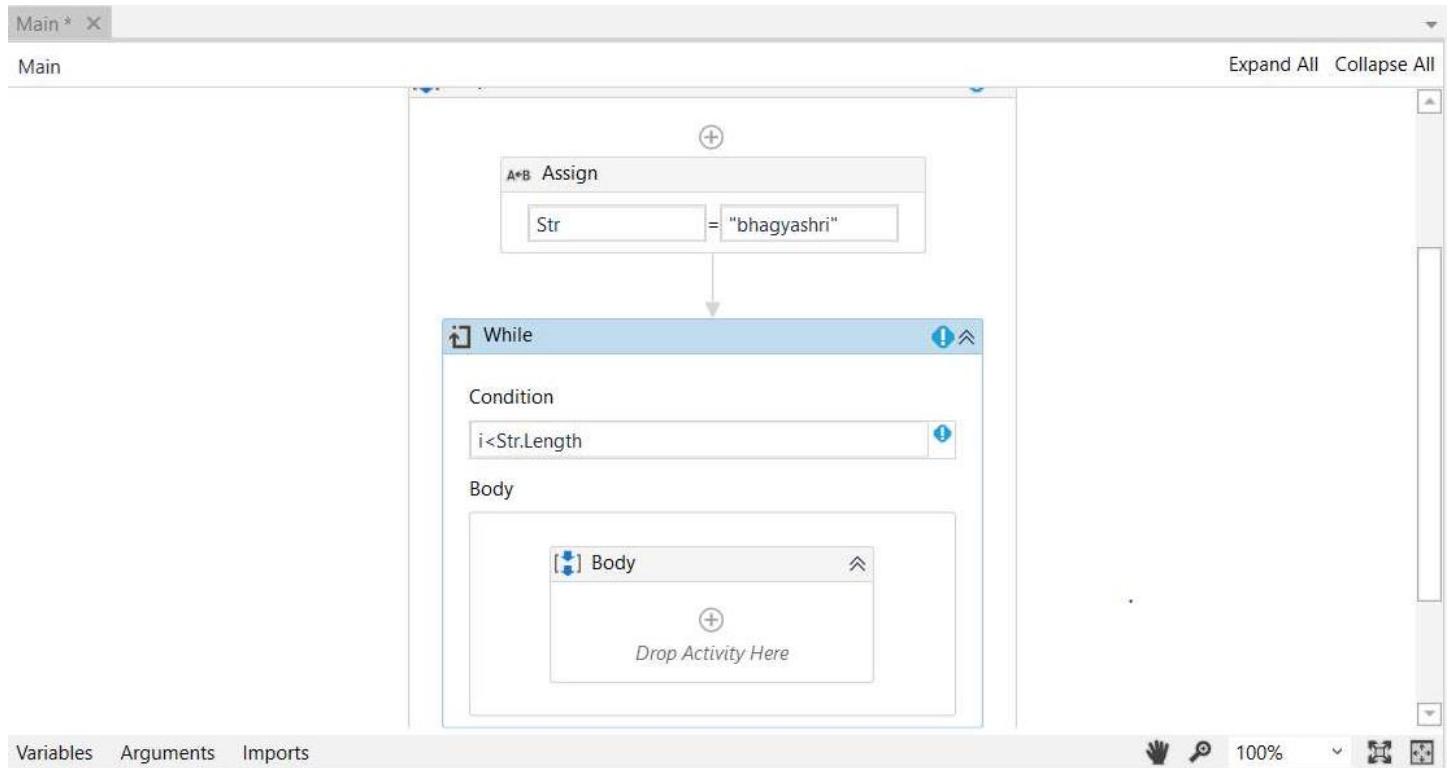
Step 2: go to activities and search assign. click on assign drag and drop in sequence.

Name	Variable type	Scope	Default
tr	String	Sequence	Enter a VB expression
	String[]	Sequence	Enter a VB expression

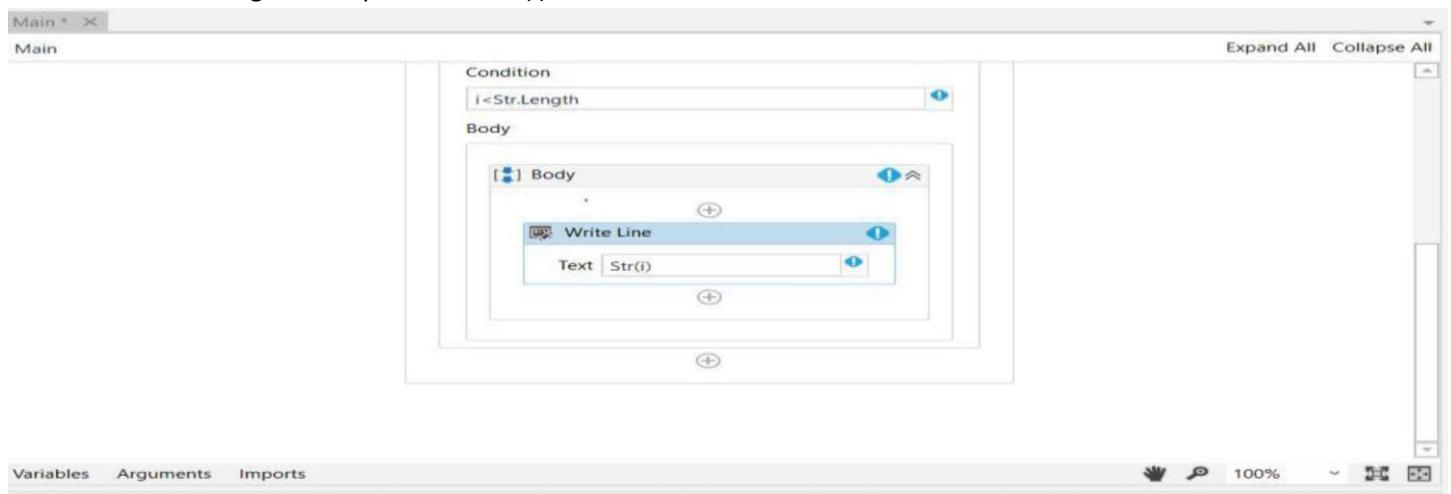
Step 2: go to activities and search assign. click on assign drag and drop in sequence.



Go to activities and search while click on it drag and drop in below assign. Condition i<Str.Length

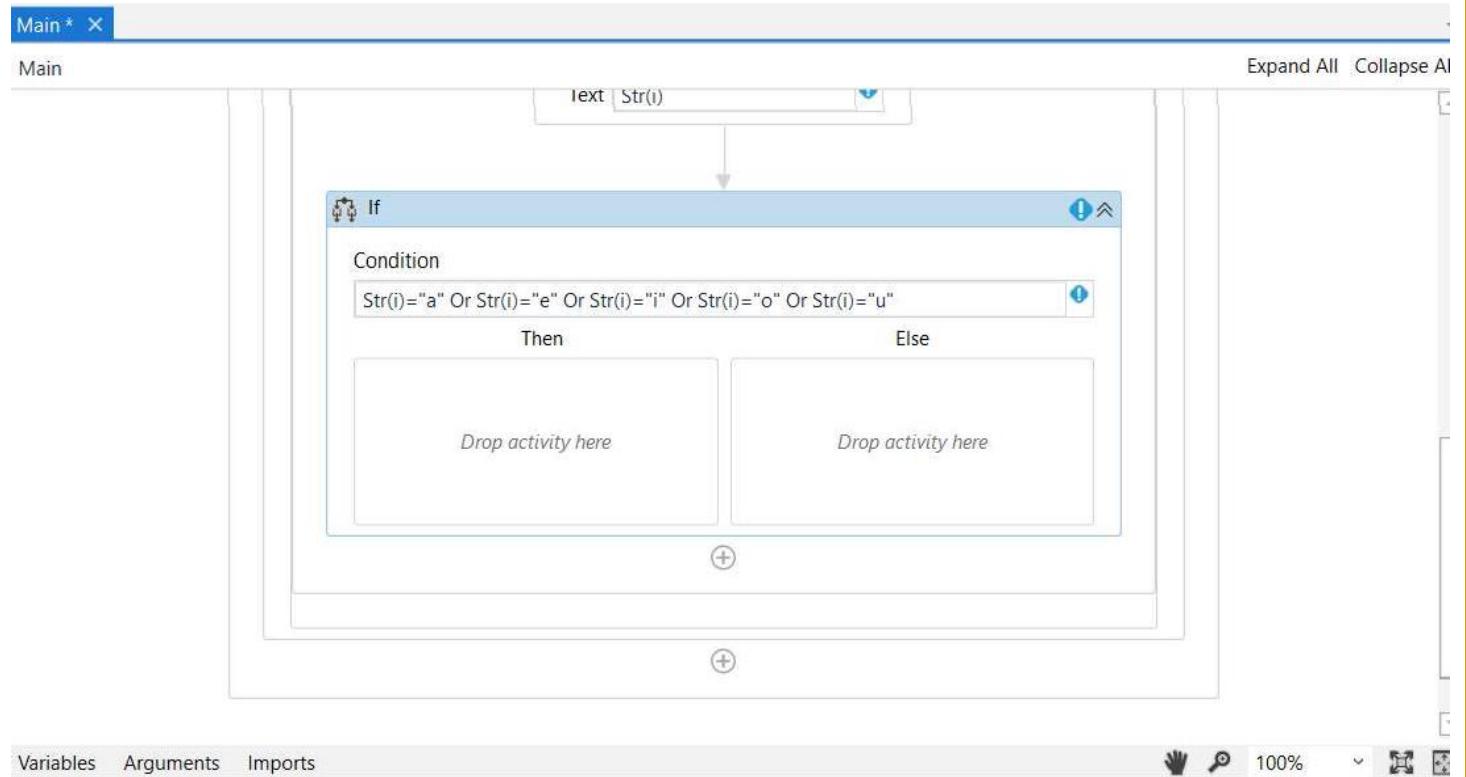


Select WriteLine drag and drop and text Str(i)



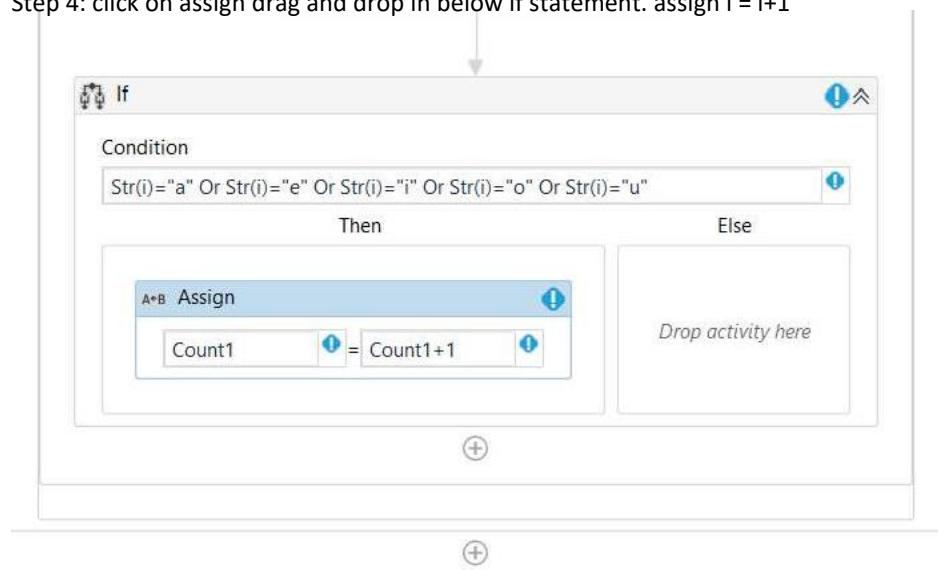
Step3: go to activities search if statement click on it drag and drop in below  
Str(i) = "a" Or Str(i) = "e" Or Str(i) = "i" Or Str(i) = "o" Or Str(i) = "u"

WriteLine and condition = Str(i) = "a" Or

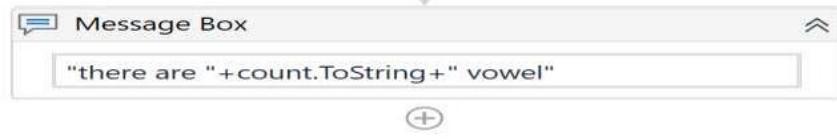


In then condition. go to activities search assign click on it drag and drop. assign value count=count1+1

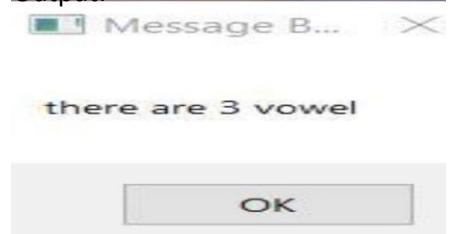
Step 4: click on assign drag and drop in below if statement. assign i = i+1



Go to activities and message box drop and drag  
Message = "there are" count. ToString + " vowel"



Output:



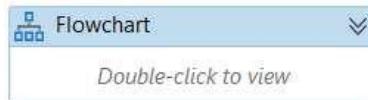
**Question 3:**

- a.Create an automation UiPath Project using decision statements.
- b.Create an automation UiPath Project using looping statements.

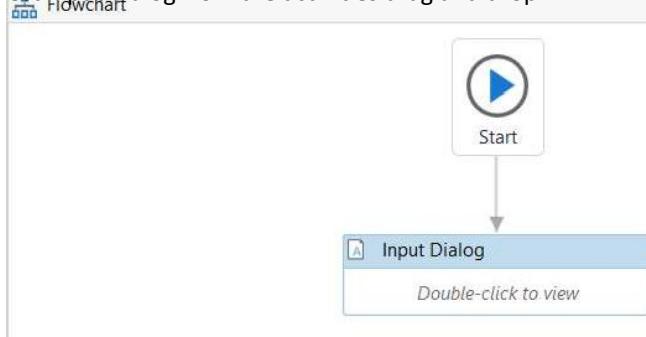
**3.a Create an automation UiPath Project using decision statements.****1) Assign activity**

**Step 1:** open UiPath studio select process and give name assign activity and click on open main workflow

**Step 2:** go to activities and select flowchart drag and drop.



**Step 3:** select input dialog from the activities drag and drop.

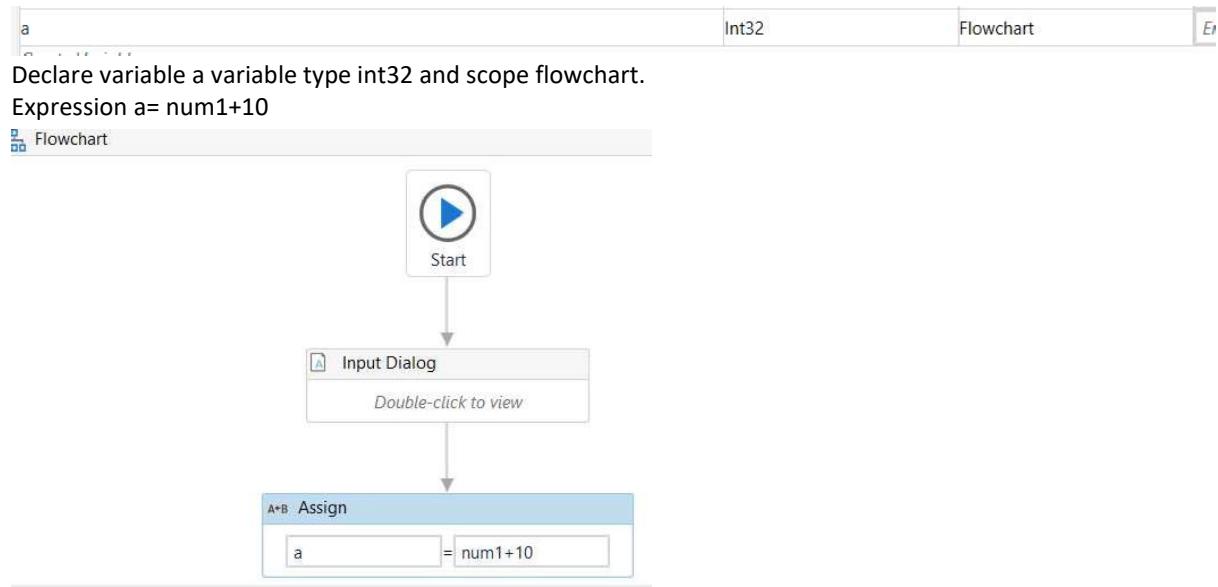


Give label name enter a number 1 Declare variable num1. Variable type int32 in result type num1.

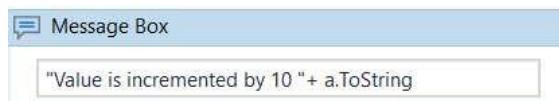
A screenshot of the 'Input Dialog' configuration window. It includes fields for 'Dialog Title' (Title. Text must be quoted), 'Input Label' ("Enter number 1"), 'Input Type' (Text Box), and 'Value entered' (num1).

Name	Variable type	Scope
num1	Int32	Flowchart

**Step 4:** select assign from activities drag and drop.



**Step 5:** select message box from activities .in message box type value is incremented by 10



**Step 6:** click on debug file and click on run file



## 2) Delay activity

**Step 1:** open UiPath studio select process and give name delay activity and click on create

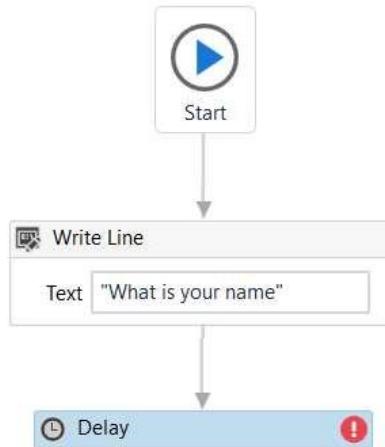
**Step 2:** go to activities and select flowchart



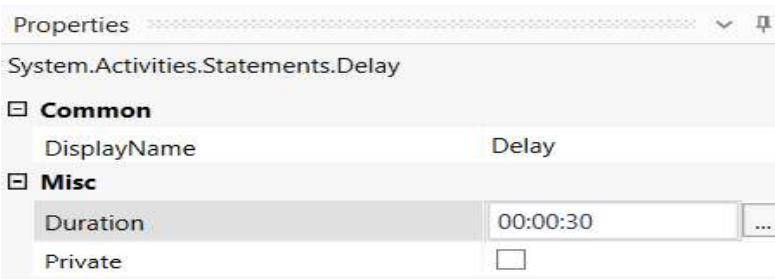
**Step 3:** go to activities and select WriteLine.



**Step 4:** add delay activity from activities and join to WriteLine.

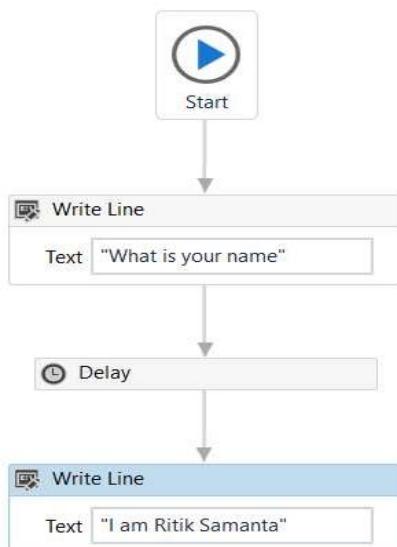


**Step 5:** Select the Delay activity and go to the Properties panel. In the Duration field, set 00:00:30. This is a 30- second delay between the two logged messages.



Take another WriteLine activity and connect it to the Delay activity.

In the Text field, write "My name is Ritik Samanta"



Click on run file and see the output

The screenshot shows the 'Output' window with the following details:

- Toolbar:** Includes icons for clock, warning (0), error (0), delay (2), info (3), and trash.
- Search Bar:** Placeholder text 'Search'.
- Log Entries:**
  - Execution started for file: Main
  - delay\_activity execution started
  - What is your name
  - I am Ritik Samanta
  - delay\_activity execution ended in: 00:00:30

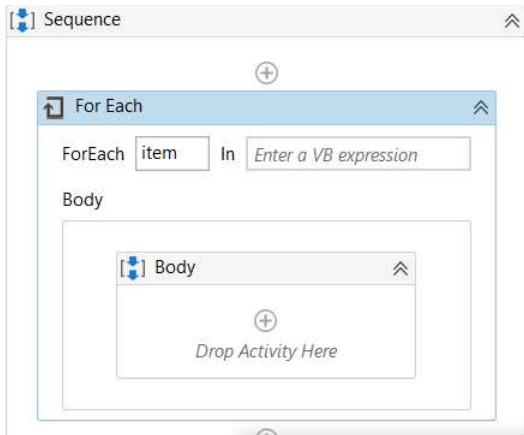
### 3) Break activity

**Step 1:** open UiPath studio select process and give name break activity and click on create

**Step 2:** Add a Sequence activity to the Designer panel



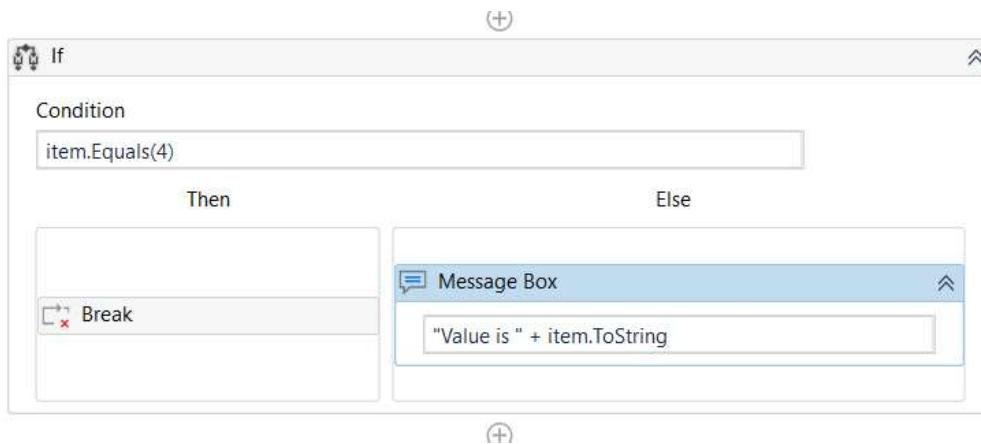
**Step3:** Next, add a for each activity inside the Sequence (as mentioned in the preceding section, to use the Break activity, we need the for each activity).



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

Name	Variable type	Scope	Default
item	Int32	Sequence	Enter a VB expression
Now, assign a default value to the integer variable x.	Int32[]	Sequence	{1,2,3,4,5}

**Step 5 :** Add if and in if Add a Break activity inside the body of the loop.



Output :

[Message ...] X

Value is 1

OK

[Message ...] X

Value is 2

OK

[Message ...] X

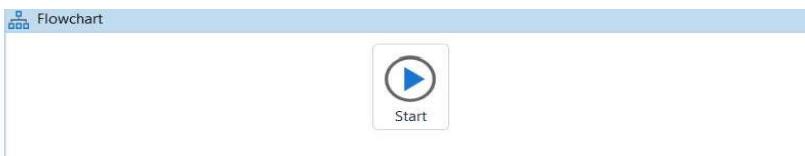
Value is 3

OK

#### 4) If activity

Step 1: open UiPath studio select process and give name if activity and click on create

Step 2 : Add a Flowchart from the Activities panel.



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

Name	Variable type	Scope	Default
x	Int32	Flowchart	Enter a VB expression
y	Int32	Flowchart	Enter a VB expression

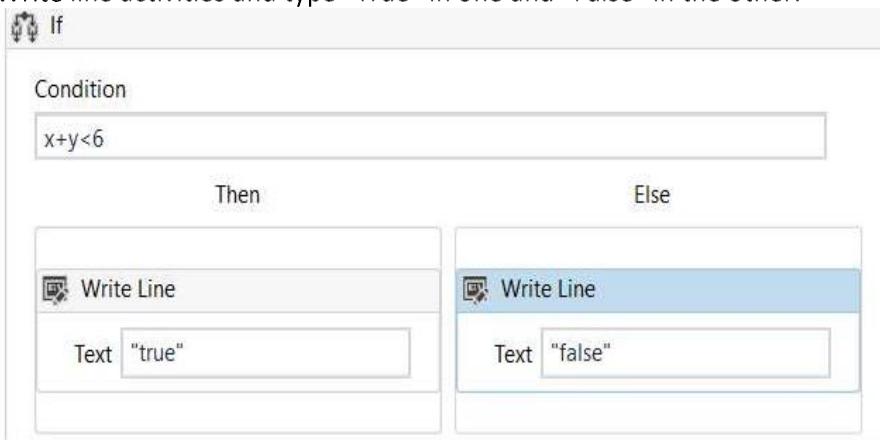
In the Properties panel, change the label name and title name of both the Input dialog activities.

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

The screenshot shows the UiPath Studio Properties panel with two input dialogs selected. Both are of type "UiPath.Core.ActivitiesInputDialog". The left dialog has its "Result" property set to "x" and the right dialog has its "Result" property set to "y". The properties are grouped into sections: Common, Input, Misc, and Output. The "Input" section contains fields for IsPassword (checkbox), Label (text box), Options (button), Options String (text box), and Title (text box). The "Output" section contains the "Result" field.

Now add the If activity to the Designer panel in the condition part,  $x+y<6$ , check whether it is true or false. Add two

Write line activities and type “True” in one and “False” in the other.



## Output :

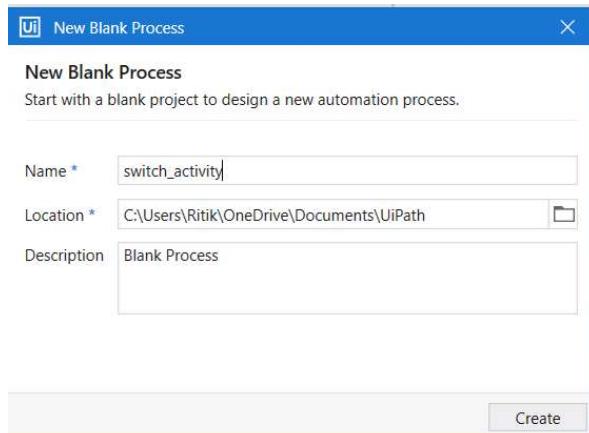
The image shows two overlapping Windows-style dialog boxes. The left dialog box has a title bar 'Enter number 1' and contains a text input field with the value '5'. The right dialog box has a title bar 'Enter number 2' and contains a text input field with the value '4'. Both dialogs have an 'Ok' button at the bottom.

① false  
② if\_activity execution ended in: 00:03:01

① true  
② if\_activity execution ended in: 00:01:38

## 5) Switch activity

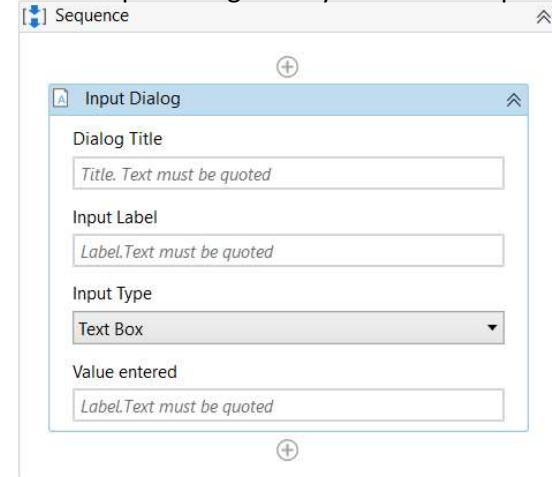
Step 1: open UiPath studio select process and give name switch activity and click on create



Step 2 : Add a Sequence activity.



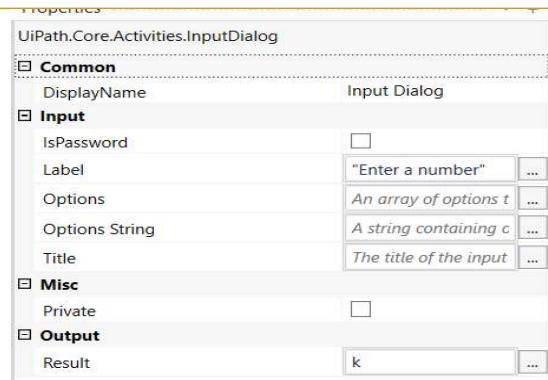
Add an Input dialog activity inside the Sequence



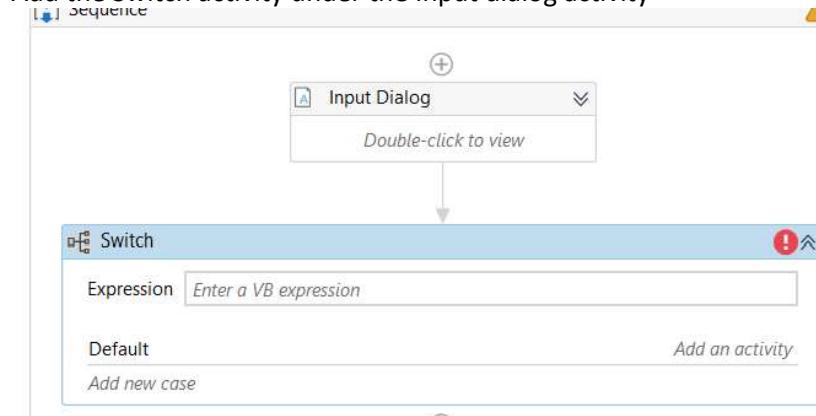
Now, create an integer type variable k.

Name	Variable type	Scope
k	Int32	Sequence

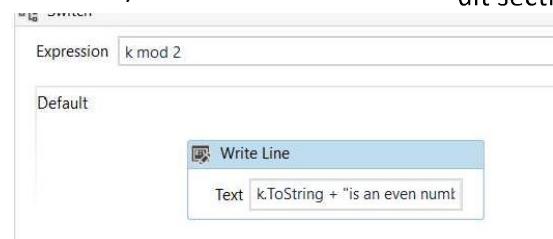
Specify the newly created variable's name in the Result property inside the Properties panel



Add the Switch activity under the Input dialog activity



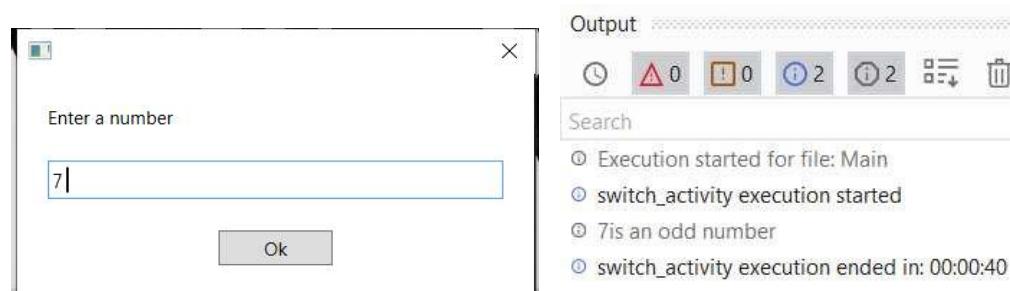
In the Expression field, set  $k \bmod 2$  to check whether the number is divisible by 2 or not. Add a Write line activity to the Default section and type the  $k.ToString +$  "is an even number" in the text field



Now, create Case 1, add the one other Write line activity to it, and type  $k.ToString +$  "is an odd number" in the text field



Output :



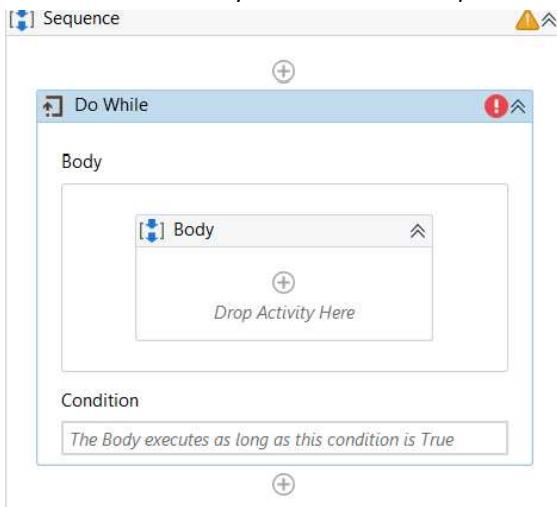
### **3.b Create an automation UiPath Project using looping statements.**

#### **1)Do while loop**

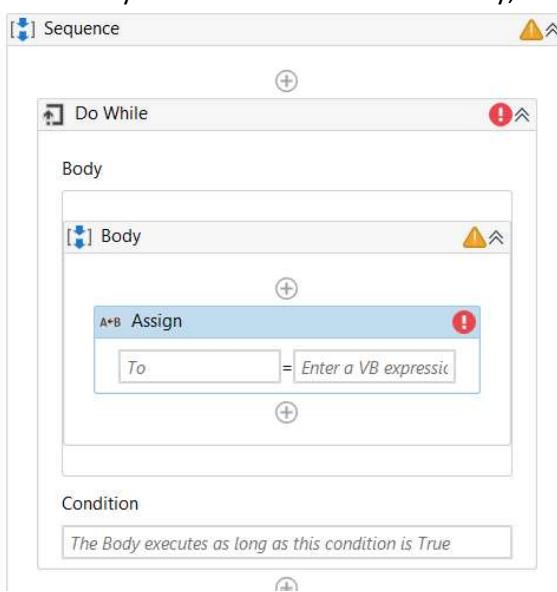
**Step 1:** On a Blank project, add a Sequence activity.



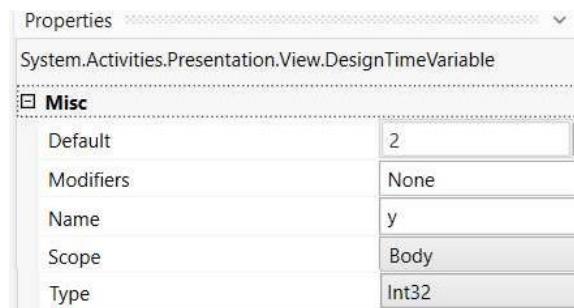
Add a Do while activity from the Activities panel.



In the body section of the Do while activity, add an Assign activity

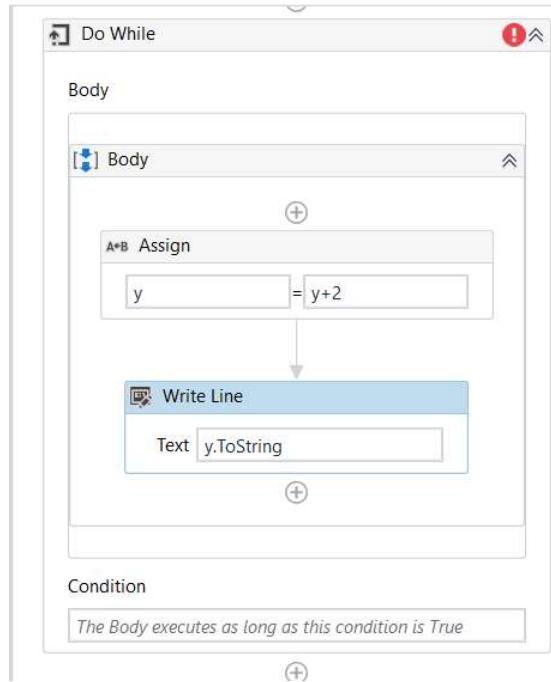


Now, select the Assign activity. Go to the Properties panel and create an integer variable y. Set its default value to 2.



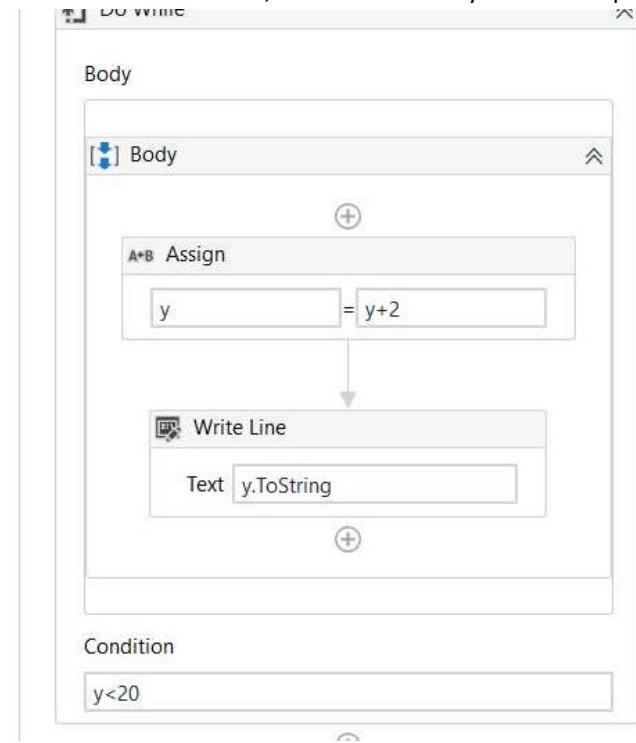
Set  $y+2$  in the value section of the Assign activity to increment the result each time by 2 until the loop is executed.

## Step 2 : Add a Write line activity inside the Assign activity

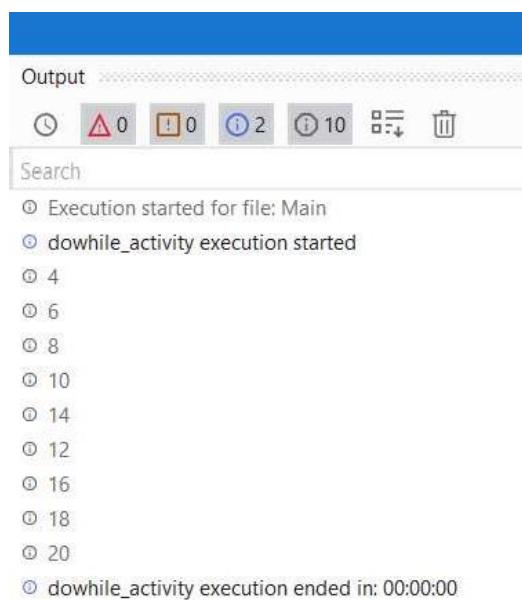


In the text field of the Write line activity, type y.

In the condition section, set the condition  $y < 20$ . The loop will continue until the condition holds true.



**Output:** On clicking the Run button, the output displayed will be as follows.



## 2) While loop

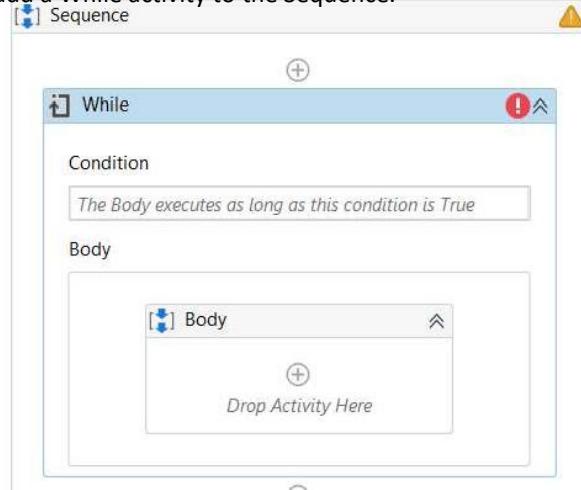
**Step 1:** On a Blank project, add a Sequence activity.



Now, create an integer type variable x. Set its default value to 5. Next

Name	Variable Type	Scope	Default
x	Int32	Sequence	5

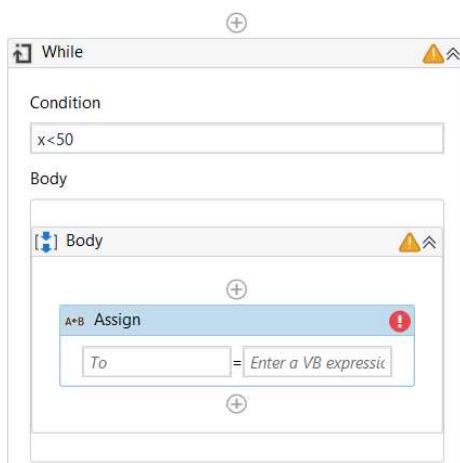
add a While activity to the Sequence.



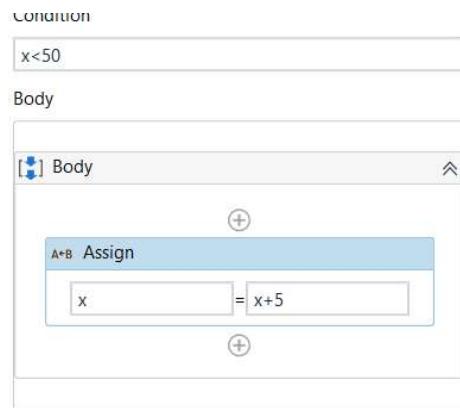
In the condition field, set  $x < 50$



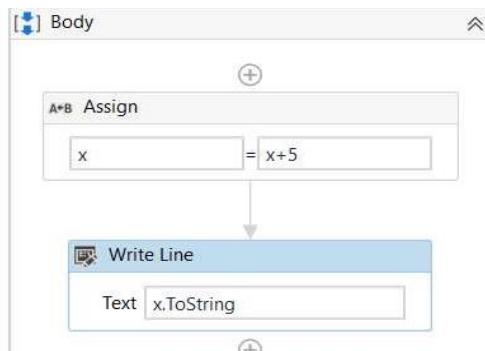
Add an Assign activity to the body section of the While loop.



Now, go to the Properties panel of the Assign activity and type in the text field integer variable for value field integer x + 5.

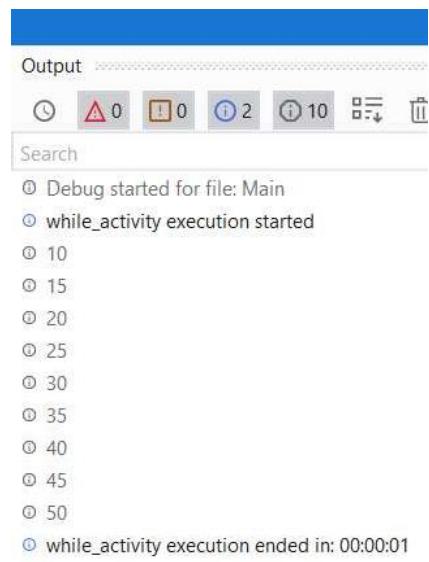


Drag and drop a Write line activity and specify the variable name x and apply ToStringmethod on this variable



Click on run file

Output :



The screenshot shows the 'Output' window from a debugger. At the top, there are icons for time (clock), errors (red triangle), warnings (yellow exclamation), and information (blue circle). Below the icons is a search bar labeled 'Search'. The main area displays the following log entries:

- ① Debug started for file: Main
- ② while\_activity execution started
- ③ 10
- ④ 15
- ⑤ 20
- ⑥ 25
- ⑦ 30
- ⑧ 35
- ⑨ 40
- ⑩ 45
- ⑪ 50
- ⑫ while\_activity execution ended in: 00:00:01

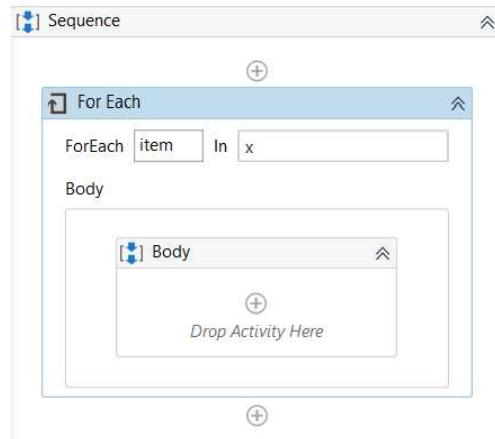
### 3)For each loop

**Step 1:** open UiPath studio select process and give name for each activity and click on create

**Step 2 :** Add a Sequence activity to the Designer panel.



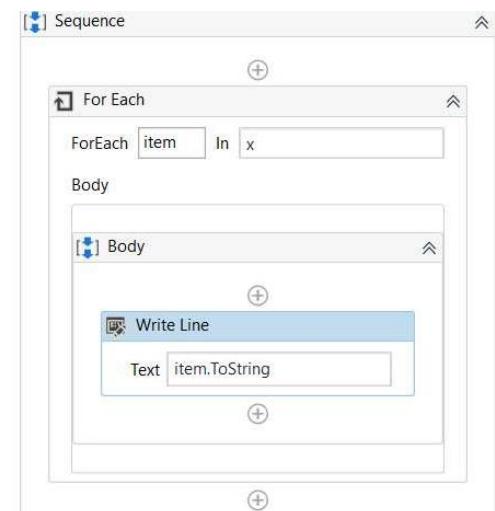
Next, add a for each activity within the Sequence and create an integer type array variable, x.



In the default value of the variable, put in `{2,4,6,8,10,12,14,16,18,20}`.

Name	Variable type	Scope	Default
x	Int32[]	Sequence	{2,4,6,8,10,12,14,16,18,20}

Add a Write line activity to the Designer Panel (this activity is used to display the results). In the Text field of the Write line activity, type item.ToString to display the output



Output: Now, run the program. You will see that each number of the array is displayed one by one because of the use of the for each activity.

The screenshot shows the 'Output' window from a software development environment. The window has a blue header bar with the word 'Output'. Below the header are several small icons: a clock, a triangle, a square, a circle with a dot, a circle with a 2, a circle with an 11, a magnifying glass, and a trash can. Underneath these icons is a search bar labeled 'Search'. The main body of the window contains the following text:

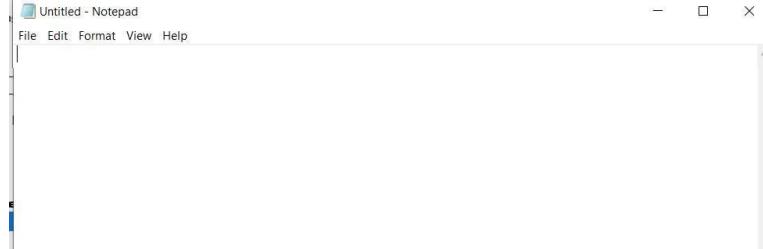
```
Execution started for file: Main
foreach_activity execution started
2
4
6
8
10
12
14
16
18
20
foreach_activity execution ended in: 00:00:00
```

**Question 4:**

- a. Automate any process using basic recording.
- b. Automate any process using desktop recording.
- c. Automate any process using web recording.

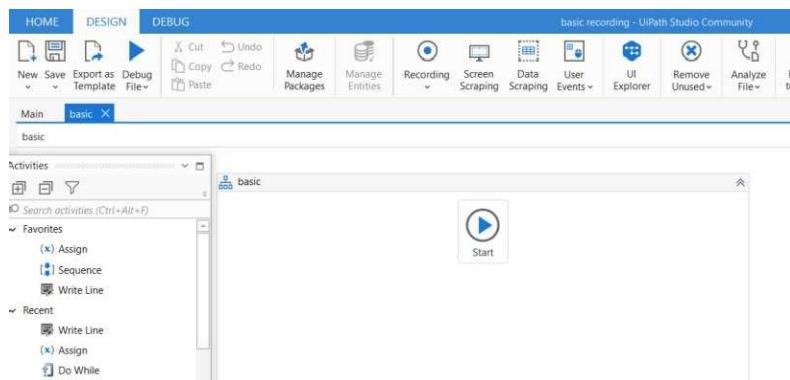
**4.a Automate any process using basic recording.**

**Step 1: Open notepad**

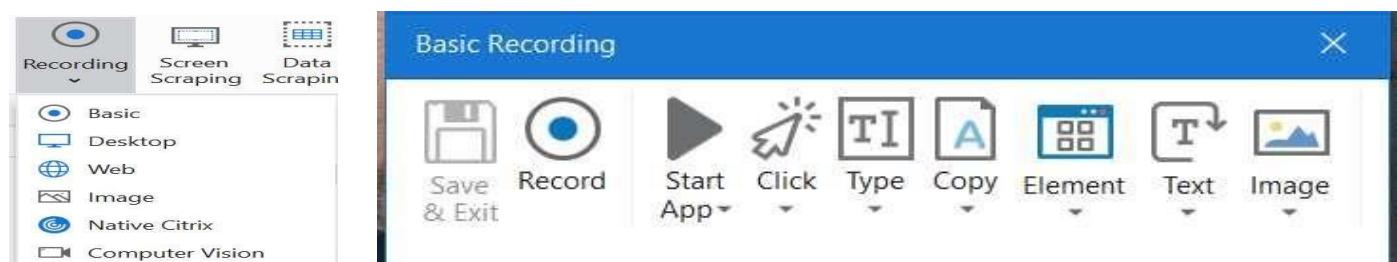


**Step 2 : Open uipath select process and give name basic recording**

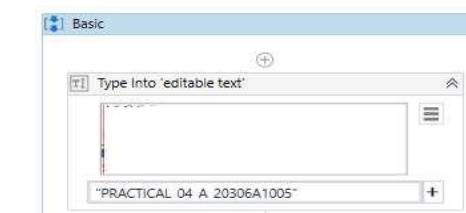
**Step 3 : Click on open main window. Click on new flowchart and give name basic recording**



**Step 4 : Click on recording and select basic recording**



**Click on record. open notepad type message**



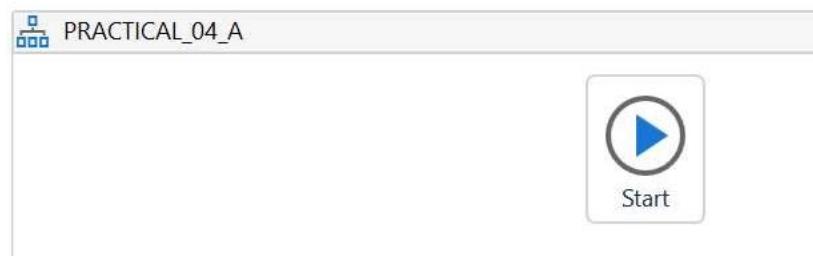
**Step 5 : CLICK SAVE AND EXIT THEN CLICK ON RUN FILE**

## **4.b Automate any process using desktop recording.**

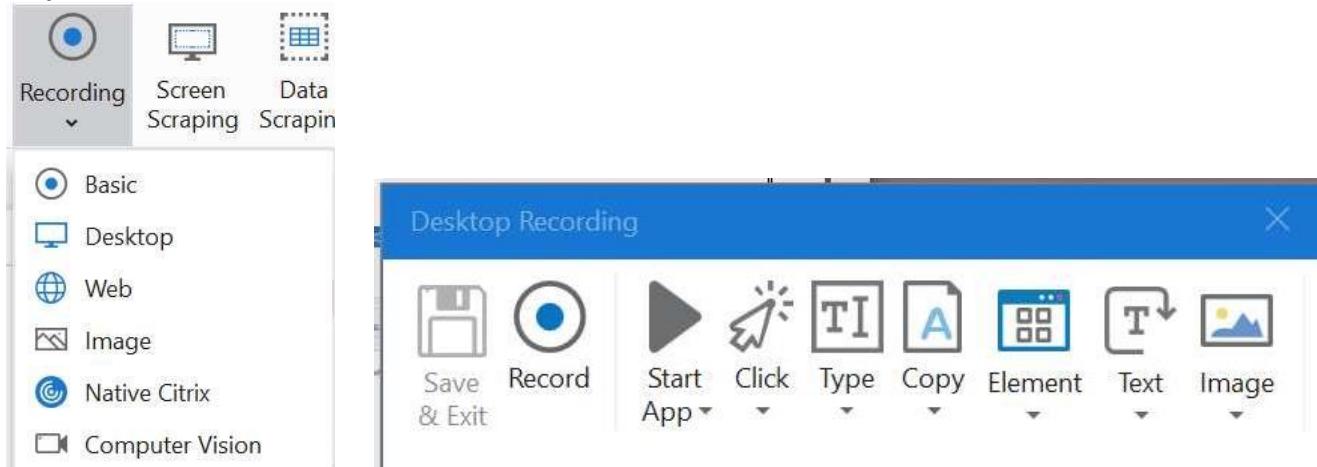
### **Step 1 : Open notepad**



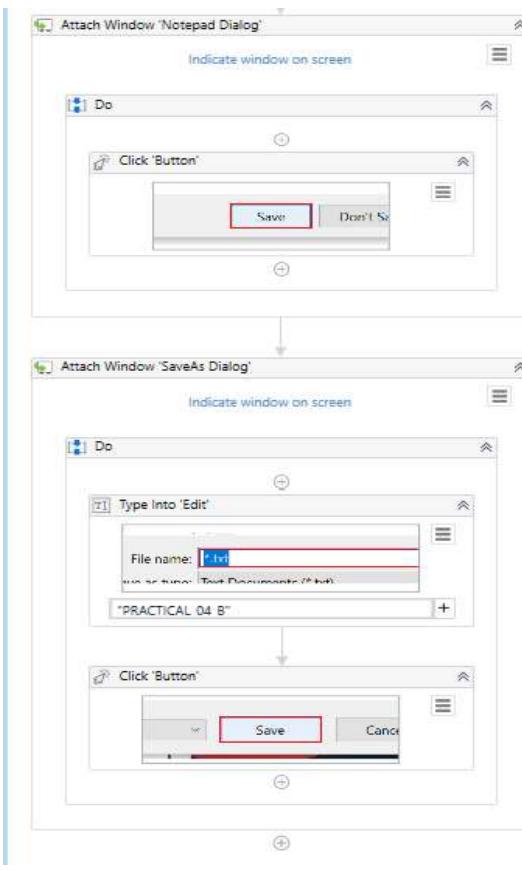
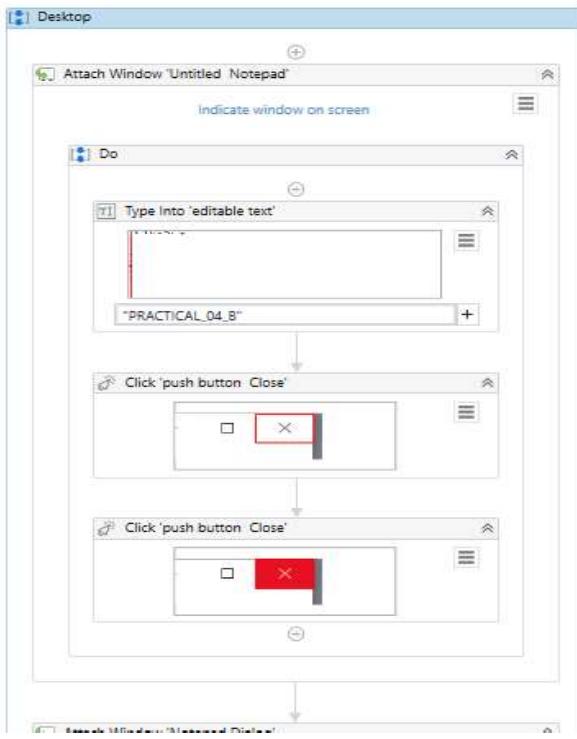
### **Step 2 : Click on open main workflow. Click on new select flowchart**



### **Step 3 : Click on recording and select DESKTOP recording**



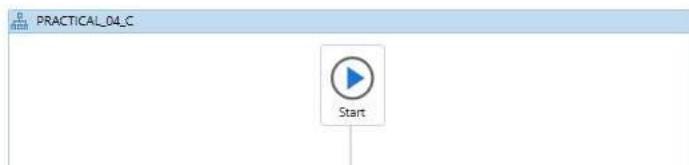
**Step 4 :** Click on record. open notepad type message



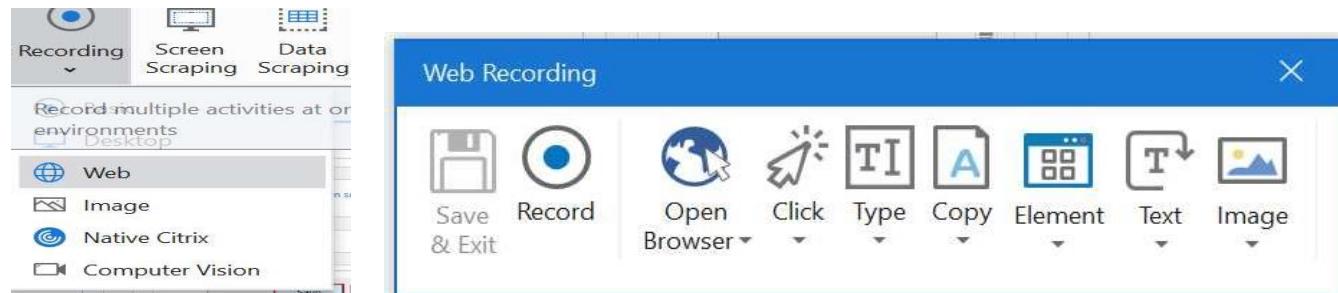
**Step 5 : CLICK SAVE AND EXIT THEN CLICK ON RUN FILE**

#### 4\_c Automate any process using web recording.

**Step 1 :** Drag and drop flowchart from activity panel.

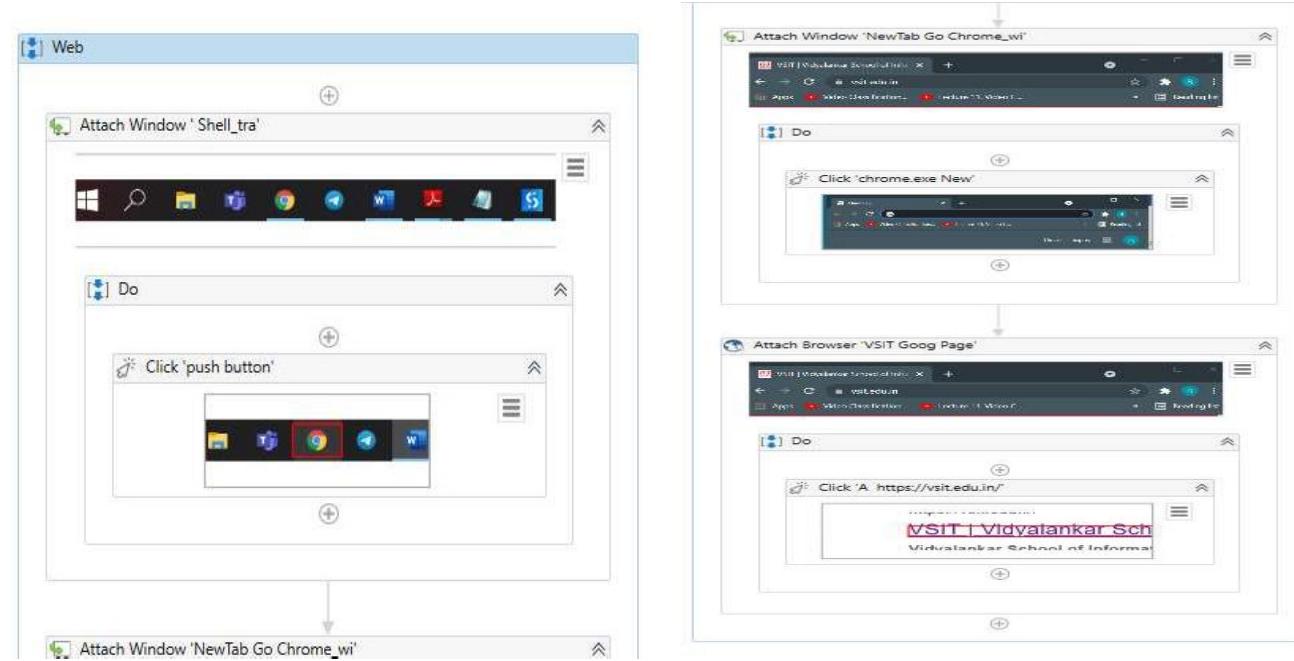


**Step 2 :** Click on the Recording icon and choose Web recording.



**Step 3 : THEN START RECORDING YOUR WEB ACTIVITY**

**Step 4 :** Now, a recording sequence is generated in our Designer panel. Connect this sequence to the Start node. Hit the Run button to see the result.



### Question 5:

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

### Step 1

**Step 1:** On a Blank project, add a Sequence activity.



### Step 2

Click on variable. declare three variables

1.variable names and variable type =string[] and variable scope=sequence

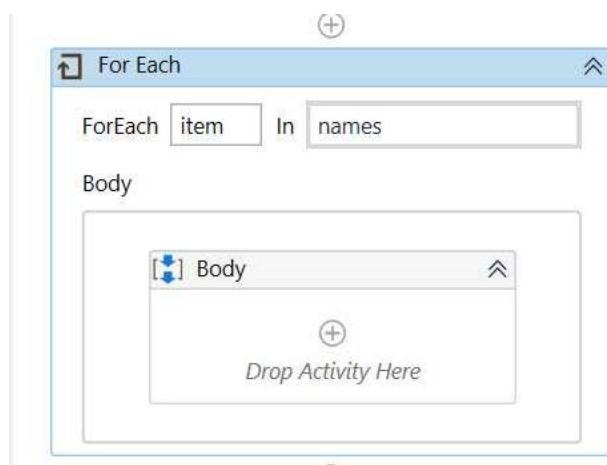
2.variable item and variable type =Int32[] and variable scope=sequence

3.variable count and variable type =Int32[] and variable scope=sequence

Name	Variable type	Scope	Default
names	String[]	Array_find	{"avdhoot","ashok","amira","ramkrishna"}
item	Int32	Array_find	Enter a VB expression
count	Int32	Array_find	Enter a VB expression

### Step 3

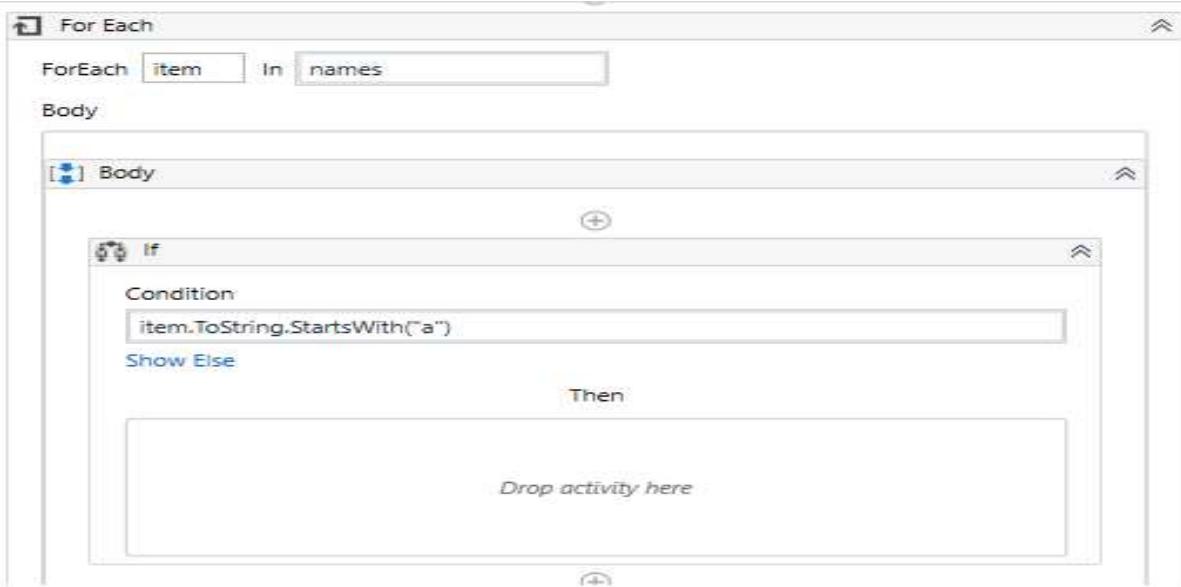
go to activities and search For Each. click on For Each drag and drop in sequence. And write For Each item in names



#### Step 4

go to activities and search if. click on if drag and drop in below the For Each body

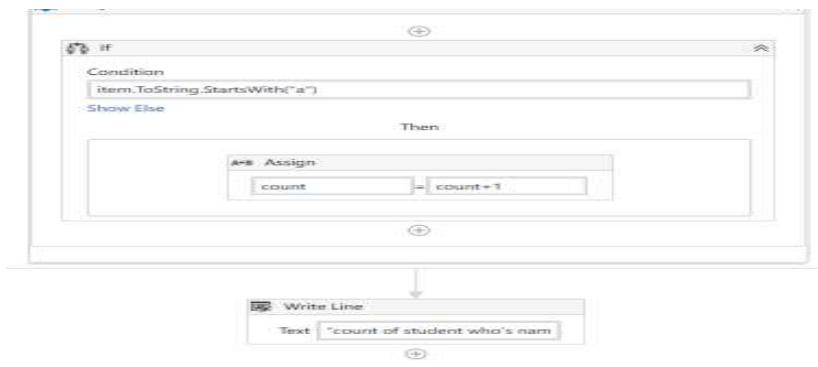
Give the if condition item.ToString.StartsWith("a")



#### Step 5

then go to the activity and search assign , click on Assign drag and drop in below the if. In assign increase the counter by 1

**go to activities and search Write Line. click on Write Line and drop in below the For Each**



#### Step 6

In a write line write condition

**"count of student whos name staring with a"+count.ToString**

- ① TEST execution started
- ① count of student who's name staring with a3
- ① TEST execution ended in: 00:00:01

**Question 6:**

- a. Create an application automating the read, write and append operation on excel file.
- b. Automate the process to extract data from an excel file into a

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

1. Open Studio and create a new **Process**.

2. Drag a **Sequence** container in the **Workflow Designer**.

- o Create the following variable:

Name	Variable type	Scope
employee	DataTable	PRACTICAL_06_A

3. Add a **Read Range** activity inside the **Sequence** container.

- o Add the expression "companyEmployees.xlsx" in the **Workbook path** field.
- o Add the value **QADep** in the **Sheet** field and set the cells range at "**A1:B5**".

4. Add a **Write Range** activity below the **Read Range** activity.

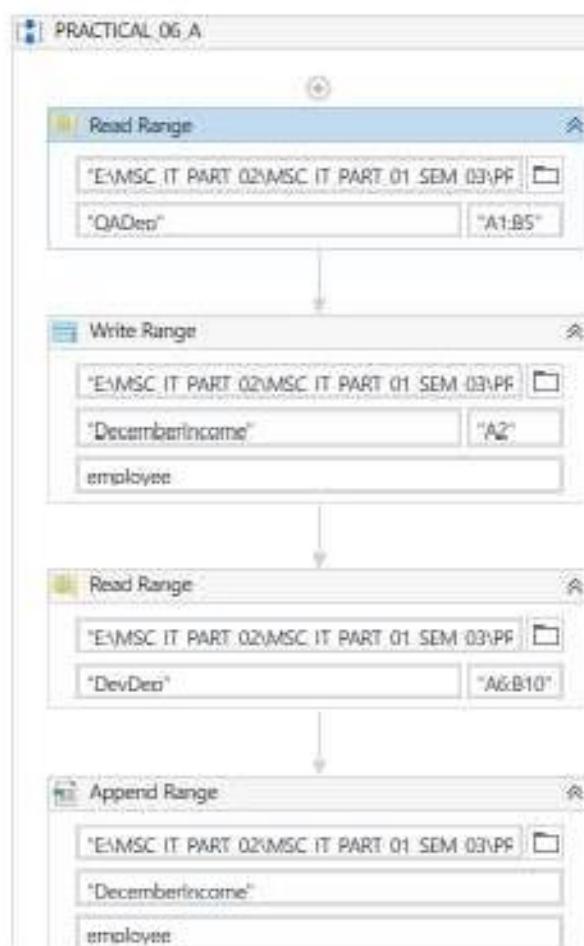
- o Add the expression "employeeIncome.xlsx" in the **Workbook path** field.
- o Add the value "DecemberIncome" in the **Sheet** field and set the cells range at "**A2**".
- o Add the variable **employees** in the **Data Table** field.

5. Add a **Read Range** activity below the **Write Range** activity.

- o Add the expression "companyEmployees.xlsx" in the **Workbook path** field.
- o Add the value **DevDep** in the **Sheet** field and set the cells range at "**A6:B10**".

6. Add an **Append Range** activity below the **Read Range** activity.

- o Add the expression "employeeIncome.xlsx" in the **Workbook path** field.
- o Add the value "DecemberIncome" in the **Sheet** field.
- o Add the variable **employees** in the **Data Table** field.



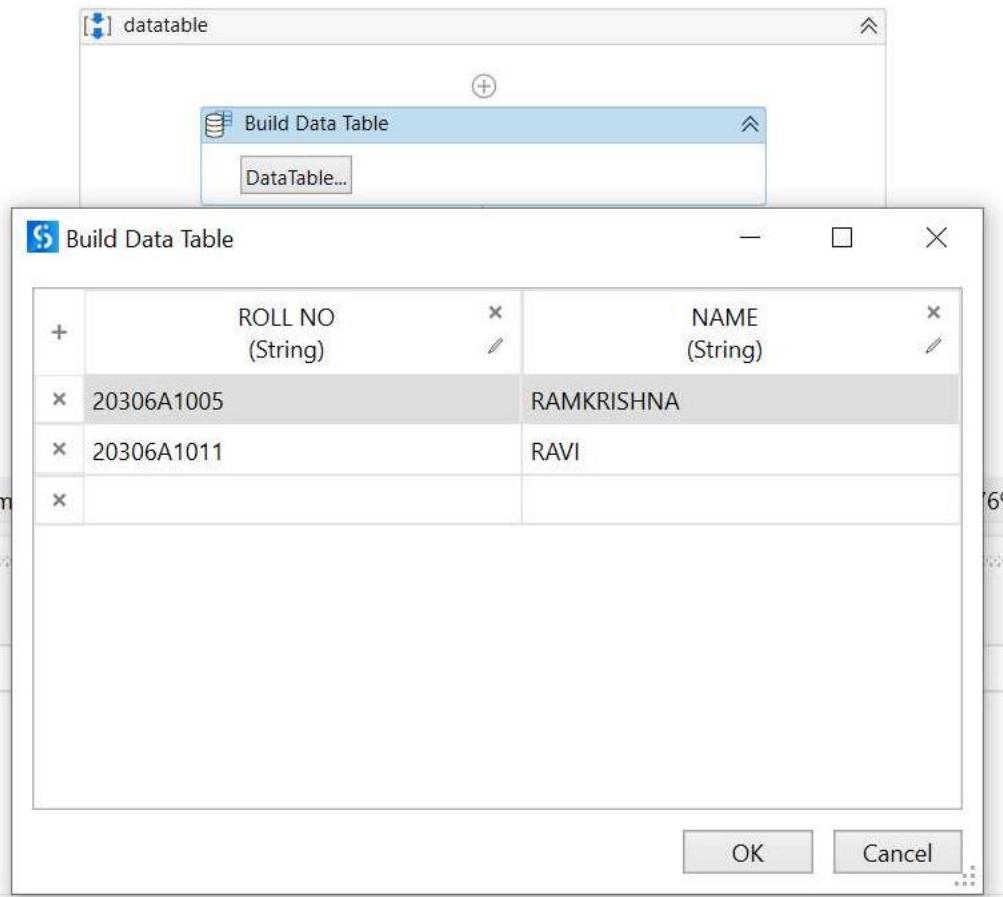
- ① Execution started for file: PRACTICAL\_06\_A
- ② TEST execution started
- ③ TEST execution ended in: 00:00:02

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

### I) DataTable To Excel

#### Step 1

Drag and drop build data table then click on DataTable And Enter The Data



#### Step 2

Then Store The Data Table Output In A Variable

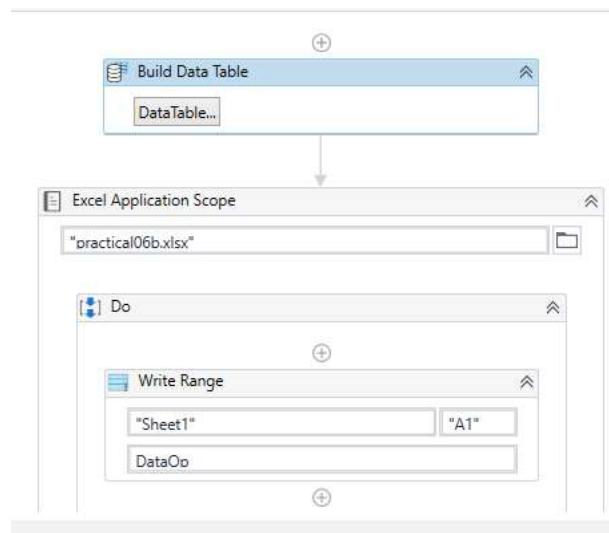
Name	Variable type	Scope
DataOp	DataTable	datatable

### Step 3

Then below Build Data Table Activity Drag And Drop Excel Application Scope Activity, inside that activity Drag and Drop Write Range Activity

### Step 4

Then Specify The Excel File Path and Add the variable that you created for Data Table in Write Range Activity



### Step 5 Run The Code

- ① Execution started for file: datatable
- ① Desktop execution started
- ① Desktop execution ended in: 00:00:04

	A	B	C	D	E
1	ROLL NO	NAME			
2	20306A10	RAMKRISHNA			
3	20306A10	RAVI			
4					
5					

## **II) Excel To DataTable**

### **Step 1**

**Add read range activity to the sequence and specify the excel file path and store the output in a variable**

### **Step 2**

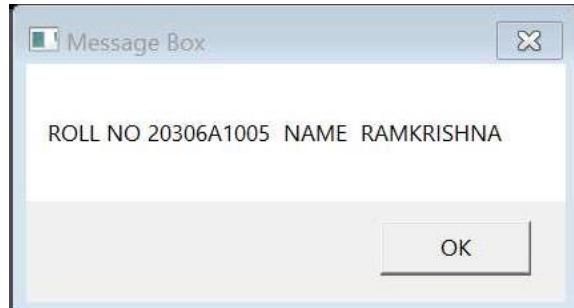
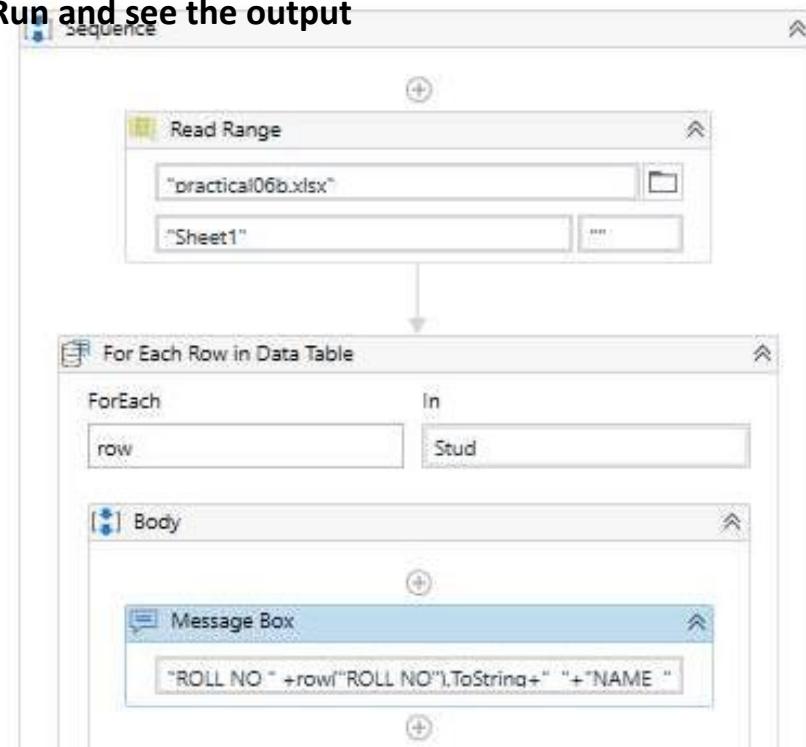
**Below read range activity add For Each Row in Data Table activity and specify the variable in which you have stored your data**

### **Step 3**

**Then drag drop message box and display the output**

### **Step 4**

**Run and see the output**





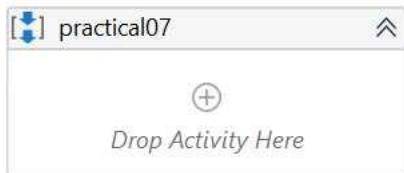
**Question 7:**

- a. Implement the attach window activity.
- b. Find different controls using UiPath.
- c. Demonstrate the following activities in UiPath:
  - i. Mouse (click, double click and hover)
  - ii. Type into
  - iii. Type Secure text

**A-Implement the attach window activity.**

**Step 1**

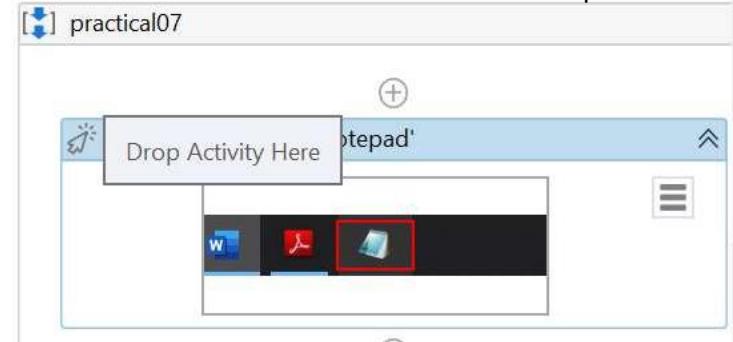
-Drag and drop a Sequence activity on the Designer panel.



**Step 2**

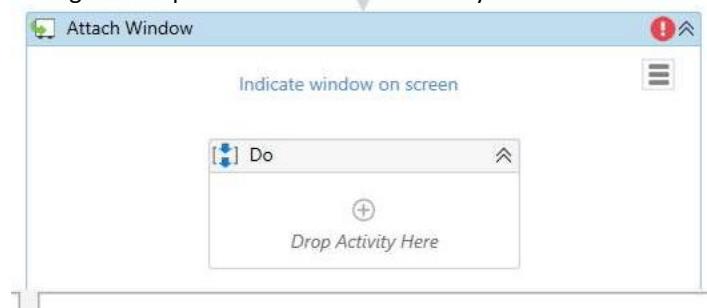
-drag and drop a Click activity inside the Designer panel

-click on Indicate on screen. Locate the Notepad icon



**Step 3**

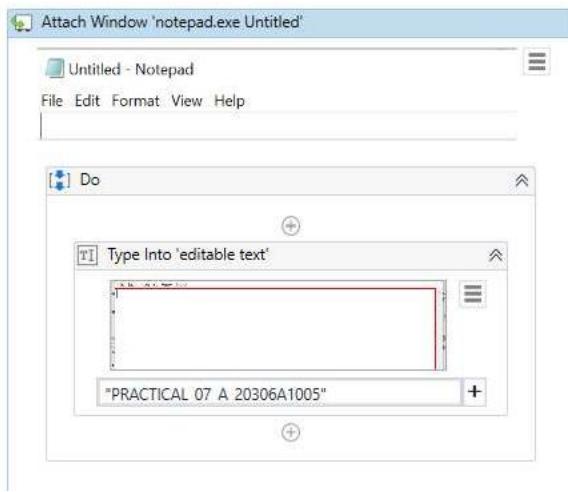
- Drag and drop the Attach Window activity



## Step 4

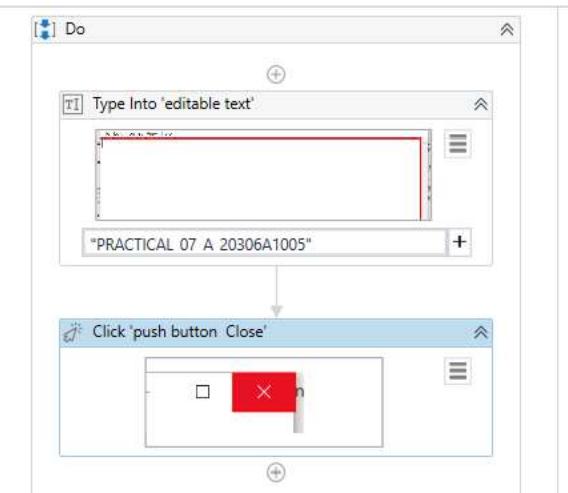
-Click on Click Window on Screen and indicate the Notepad window.

- Then add type into activity in do part



## Step 5

Attach click activity below the Type into activity. Click on the Indicate element inside window and locate the Notepad close button(X), where it closes the notepad file and Hit the Run button



## Step 6

- ① Execution started for file: practical07
- ② TEST execution started
- ③ TEST execution ended in: 00:00:04

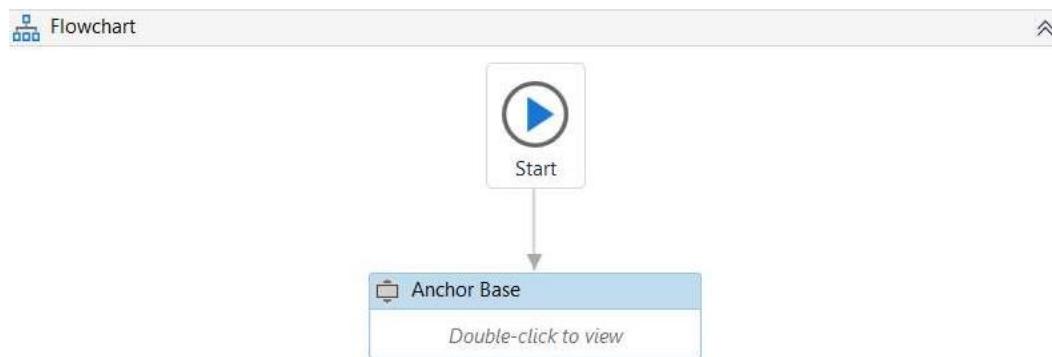
## b. Find different controls using UiPath.

### 1. Finding the control (Anchor Base)

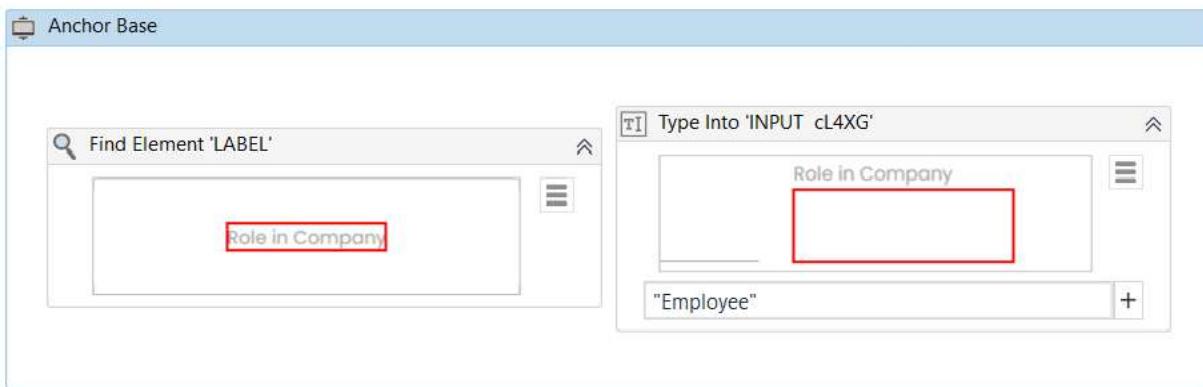
1. Go to <http://www.rpachallenge.com/>

The screenshot shows a web browser window titled "Rpa Challenge". The URL bar indicates "Not secure | rpachallenge.com". The main content area has a blue header "RPA Challenge". On the left, there is a sidebar with "Instructions" containing three numbered points. Points 1 and 2 are about workflow rules, and point 3 is about the countdown starting after clicking "Start". Below the instructions are buttons for "DOWNLOAD EXCEL" and "START". The main form area contains several input fields: "Last Name" and "Role in Company" (both empty), "Company Name" and "Email" (both empty), "Address" and "Phone Number" (both empty), and "First Name" (empty). A large orange "SUBMIT" button is centered below these fields. The "Role in Company" field is highlighted with a green border, indicating it is the current focus or selected control.

2. Drag and drop a Flowchart activity on the Designer panel of a blank project. Also, drag and drop an Anchor base control from the Activities panel. Connect the Anchor base control with Start.



3. Double click on the Anchor base control.



4. There are two activities that we have to supply to the Anchor base control: Anchor and action activities. Drag and drop the Anchor base activity (for example; Find Element activity) in the Anchor field and Action activity (for example; Type into) in the Drop Action Activity Here field of the Anchor base control.

5. In Find Element Select the “Role in Company” using Indicate on Screen

6. In Type into Select input box of “Role in Company” and in text add your name.

7. Hit the run button.

Output:

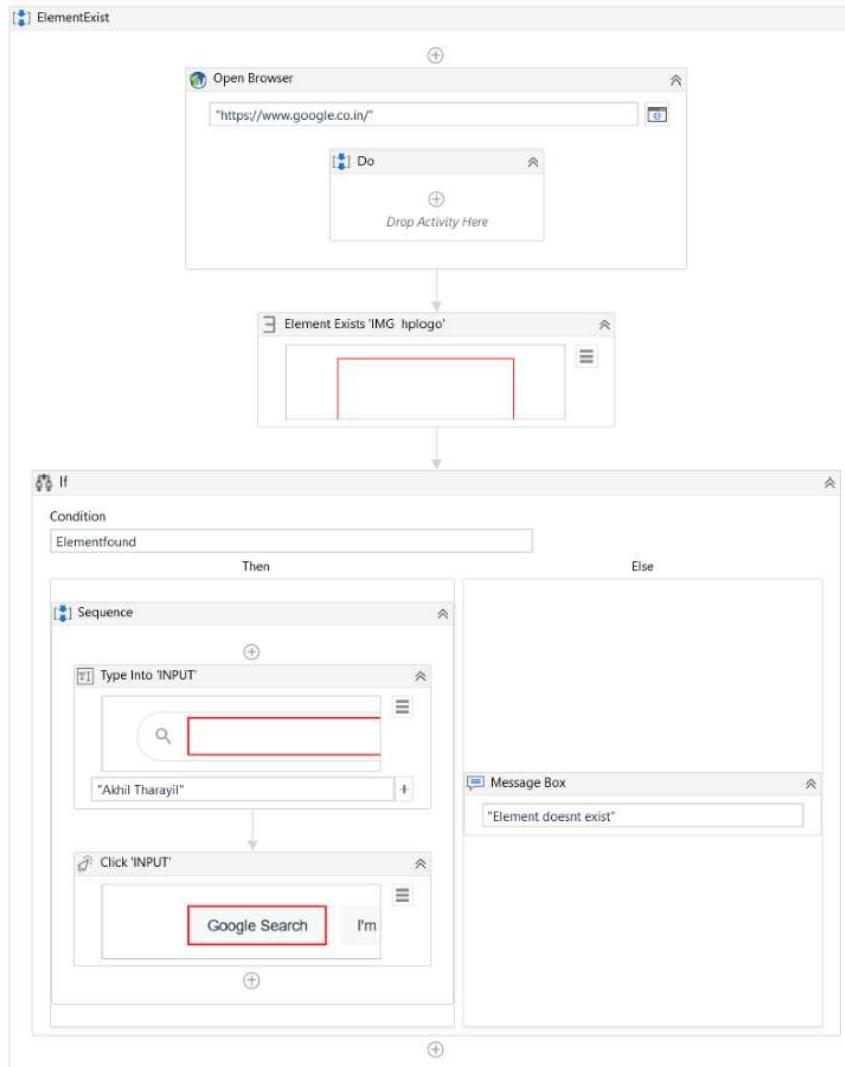
The screenshot shows the RPA Challenge web form. On the left, a sidebar titled 'Instructions' contains three numbered steps: 1. The goal of this challenge is to create a workflow that will input data from a spreadsheet into the form fields on the screen. 2. Beware! The fields will change position on the screen after every submission throughout 10 rounds thus the workflow must correctly identify where each spreadsheet record must be typed every time. 3. The actual countdown of the challenge will begin once you click the Start button until then you may submit the form as many times as you wish without receiving penalties. Below the instructions is a 'Good luck!' message and a 'DOWNLOAD EXCEL' button with a cloud icon. At the bottom is a large orange 'START' button. The main form area has four input fields: 'Last Name' (empty), 'Role in Company' (containing 'Employee'), 'Company Name' (empty), and 'Email' (empty). Below these are 'Address' (empty) and 'Phone Number' (empty) fields. At the bottom is a 'First Name' field (empty) and a large orange 'SUBMIT' button.

## 2. Element Exists.

- 1.Drag and drop sequence activity into the designer panel.
- 2.Drag and drop **open browser activity** into the sequence. Give URL as <https://www.google.co.in/>.

3.Below that drag and drop the **Element Exist activity**. Click on indicate on screen and click on the logo of “google”. In properties, define Output>Exists:Elementfound (By ctrl+k in order to create variable, which is shown in the figure)

4.Now drag and drop **if activity** below the Element exist activity. In Condition type **Elementfound**. In **Then** section drag and drop the **Type into activity**. Click on indicate on screen, click on the search bar and type “Akhil Tharayil”. Below that drag and drop the **click activity**, Indicate on screen click on “google search button”. Now in else section drag and drop the **message box** and type “element doesn’t exist”



5. Now hit the run button. Output:

A screenshot of a Google search results page. The search query 'Akhil Tharayil' is entered in the search bar. Below the search bar, there are several navigation links: All (selected), Videos, News, Images, Maps, More, Settings, and Tools. The search results indicate 'About 28,000 results (0.74 seconds)'. The first result is a link to 'www.facebook.com › akhil.tharayil.50' with the title 'Akhil Tharayil | Facebook'. A snippet below the link states: 'Akhil Tharayil is on Facebook. Join Facebook to connect with Akhil Tharayil and others you may know. Facebook gives people the power to share and makes...'

### 3. Element scope

- This control is used to attach a UI element and perform multiple actions on it.
- You can use a bunch of actions within a single UI element.

### 4. Find Children

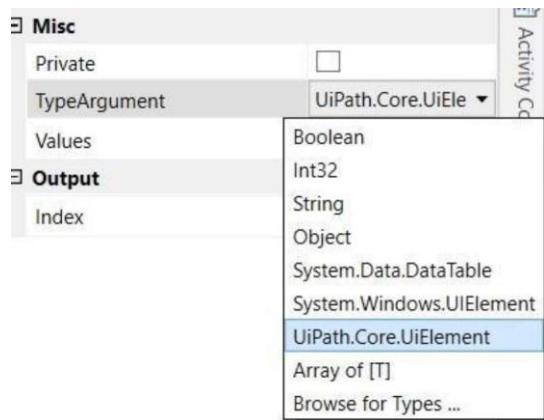
1. Goto <https://www.spicejet.com/> in the browser.

A screenshot of the SpiceJet flight booking website. The URL 'https://www.spicejet.com/' is visible in the browser's address bar. The page features the SpiceJet logo and slogan 'Red. Hot. Spicy.' The main header has a red background with the text 'Book Flight' and an airplane icon. Below the header, there is a selection for 'One Way' (radio button selected), 'Round Trip', and 'Multicity'. A field labeled '\*FROM' with the placeholder 'Departure City' is highlighted with a yellow box. The background of the page is orange.

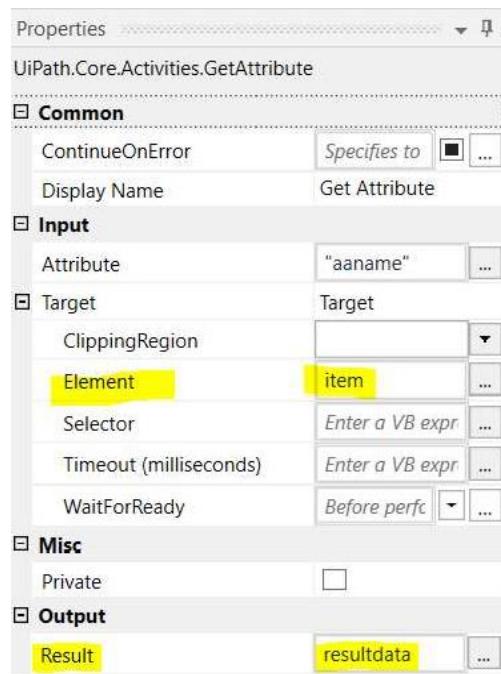
### 2. Drag and drop the flowchart into the designer panel.

3. Now drag and drop the **Find Children** activity below the START. At Indicate on screen click on “Departure City”.  
In properties > children:Places.(creating variable using ctrl+k)  
**Output**  
Children  
Places  
...

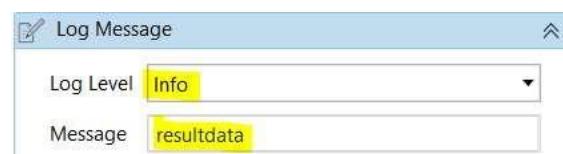
4.Drag and drop the **For Each** Activity. Double click on it. Type ForEach “item” in “Places”. Now in Properties do the changes. Type argument:**UiPath.Core.UiElement**(Inorder to get that click on “Browse on types” and search for it)



Now drag and drop the **get attribute** to the Body. Now do the changes in the properties. Also create the output as resultdata.(using ctrl +k to create variable)



Drag and drop the Log message below the get attribute.

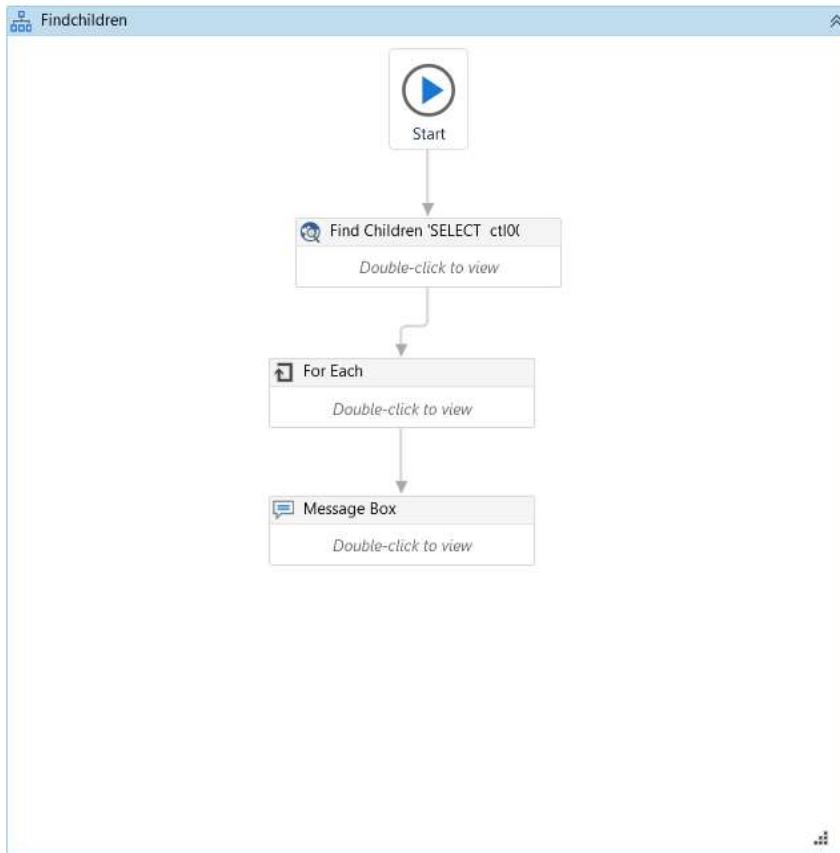


5. Finally Drag and drop the **message box** activity below **foreach** activity. Double click on it. Type

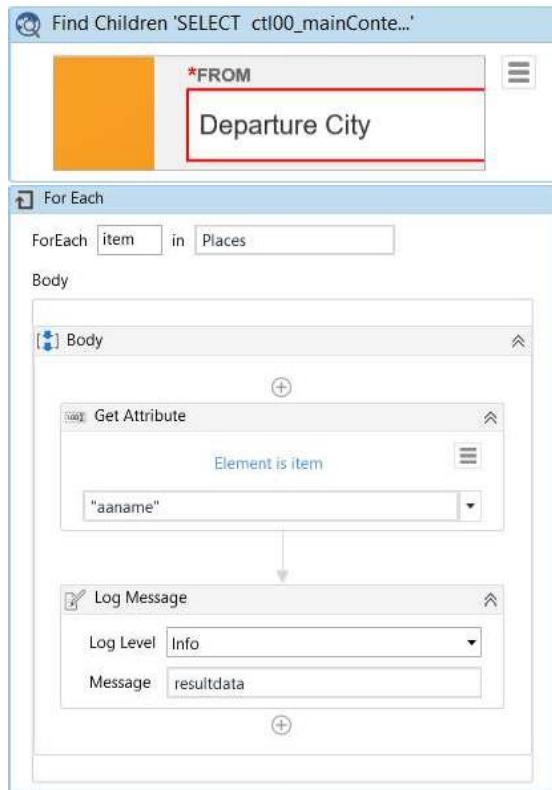
Places.Count().ToString



6.Hit the run button.



Inside look of each activity present in flowchart.



Output:



Output   0  0  8

Search

-  Ahmedabad (AMD)
-  Ajmer (KQH)
-  Almaty (ALA)
-  Amritsar (ATQ)
-  Aurangabad (IXU)
-  Bagdogra (IXB)
-  Bangkok (BKK)
-  Bathinda (BUP)
-  Belagavi (IXG)
-  Bengaluru (BLR)
-  Bhopal (BHO)
-  Bishkek Airport (FRU)

## 6.Find Element

1.Drag and drop the flowchart to the designer panel.

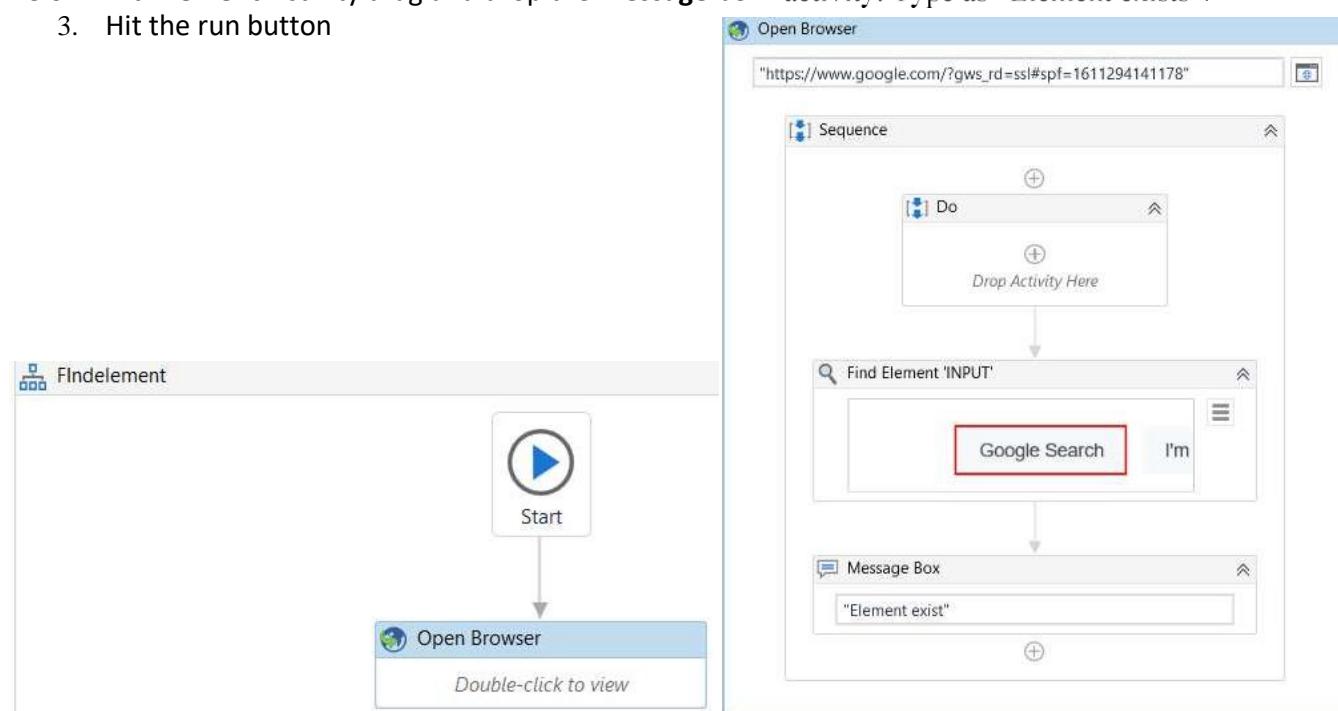
2.Now drag and drop the **open browser** activity. Give the url as

[https://www.google.com/?gws\\_rd=ssl#spf=1611294141178](https://www.google.com/?gws_rd=ssl#spf=1611294141178). Drag and drop the **Find Element** activity. In Properties>Output, **FoundElement:element**(using ctrl+k for creating the variable)



Below **Find Element** Activity drag and drop the **message box** activity. Type as “Element exists”.

3. Hit the run button



## 7.Find Relative Element

1.Drag a Sequence container in the Workflow Designer.

Create the following variable:

Name	Variable type	Scope	Default
Editelement	UiElement	findrelativeelement	Enter a VB expression
Formatelement	UiElement	findrelativeelement	Enter a VB expression

The screenshot shows the 'Variables' section of the UiPath Workflow Designer. A variable named 'Editelement' is being created. The 'Variable type' dropdown menu is open, displaying various .NET types and the 'UiPath.Core.UiElement' class, which is currently selected. Other visible options in the dropdown include Boolean, Int32, String, Object, System.Data.DataTable, System.Windows.UIElement, Array of [T], and Browse for Types ...

2. Drag an **OpenApplication** activity inside the Sequence container. Inside the activity, click the Indicate window on screen option. Then you can select the Notepad window.

3. Drag a Find Element activity below the **OpenApplication** activity. Inside the activity, click the Indicate window on screen option. Then you can select the “Edit” option in the notepad.

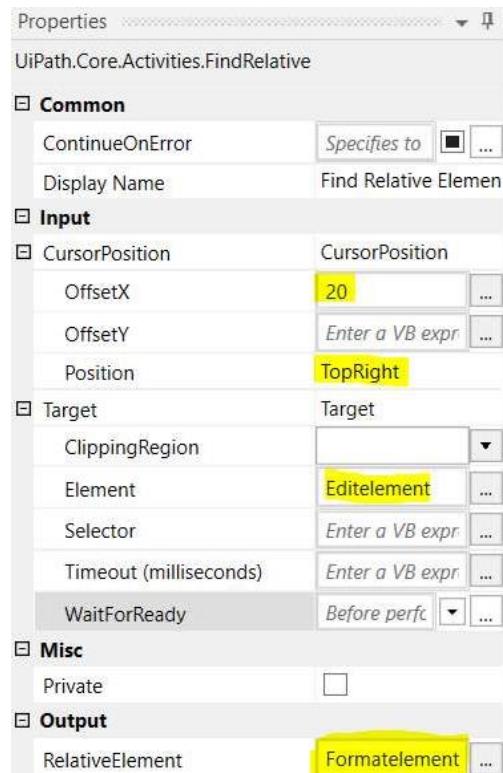
-In the Properties panel, select the COMPLETE option from the WaitForReady drop-down list.

- Add the variable EditElement in the FoundElement field.

The screenshot shows the properties of a 'WaitUiElementAppear' activity. In the 'Misc' section, the 'WaitForReady' dropdown is set to 'COMPLETE', which is highlighted with a red circle. In the 'Output' section, the 'FoundElement' field is set to 'Editelement', also highlighted with a red circle. Other properties shown include 'ContinueOnError' (set to 'Specifies to'), 'Display Name' ('Find Element 'menu''), 'Input' settings for 'Target' and 'Element', and 'Timeout (milliseconds)'.

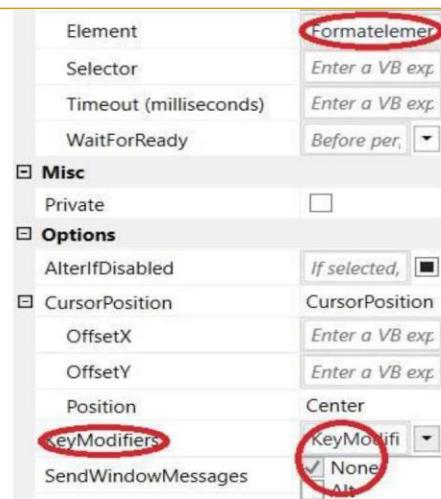
4. Place a Find Relative activity below the Find Element activity.

- In the Properties panel, add the value 20 in the OffsetX field.
- Select the option TopRight from the Position drop-down list.
- Add the variable Editelement in the Element field.
- Add the variable Formatelement in the RelativeElement field.



5. Place a Click activity below the Find Relative activity.

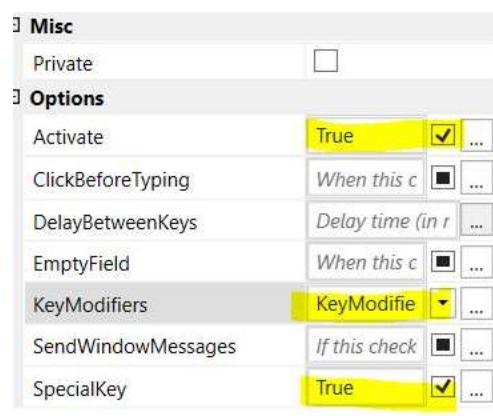
- In the Properties panel, add the variable FormatElement in the Element field.
- Select the None option from the KeyModifiers drop-down list.



6. Place another Click activity below the first Click activity. Inside the activity, click the Indicate on screen option. Click on “font” (Using f2 button).
  7. Drag an Activate activity below the Click activity. Inside the activity, click the Indicate on screen option. Click on entire font window.
  8. Place a Set Focus activity below the Activate activity. Inside the activity, click the Indicate on screen option, and select the Size menu option from font window of the notepad.
  9. Drag a Send Hotkey activity below the Set Focus activity.
- In the Key field, type the value down.



- In the Properties panel, select the check box for the Activate option. This option brings the UI element to the foreground and activates it before the text is written.
- Select the None option from the KeyModifiers drop-down list.
- Select the check box for the SpecialKey option. This indicates that you are using a special key in the keyboard shortcut.



10. Place a Click activity below the Send Hotkey activity. Inside the activity, click the Indicate on screen option. Click on OK button of the font window of notepad.
11. Run the process. The automation opens a new Notepad file, navigates through the menu and changes the font size.

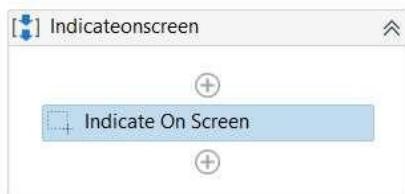


#### **8. Get ancestor**

- This control is used to retrieve the ancestor of the specified UI element.
- You have to supply a variable to receive the ancestor element as output. You can specify the variable name in the **Ancestor** property of the **Get ancestor** control.
- After receiving the ancestor element, you can retrieve its attributes, properties, and so on for further analysis.

#### **9. Indicate on screen**

1.Drag and drop the **sequence activity** into the designer plane. 2.Place **indicate on screen** into the **sequence** activity.

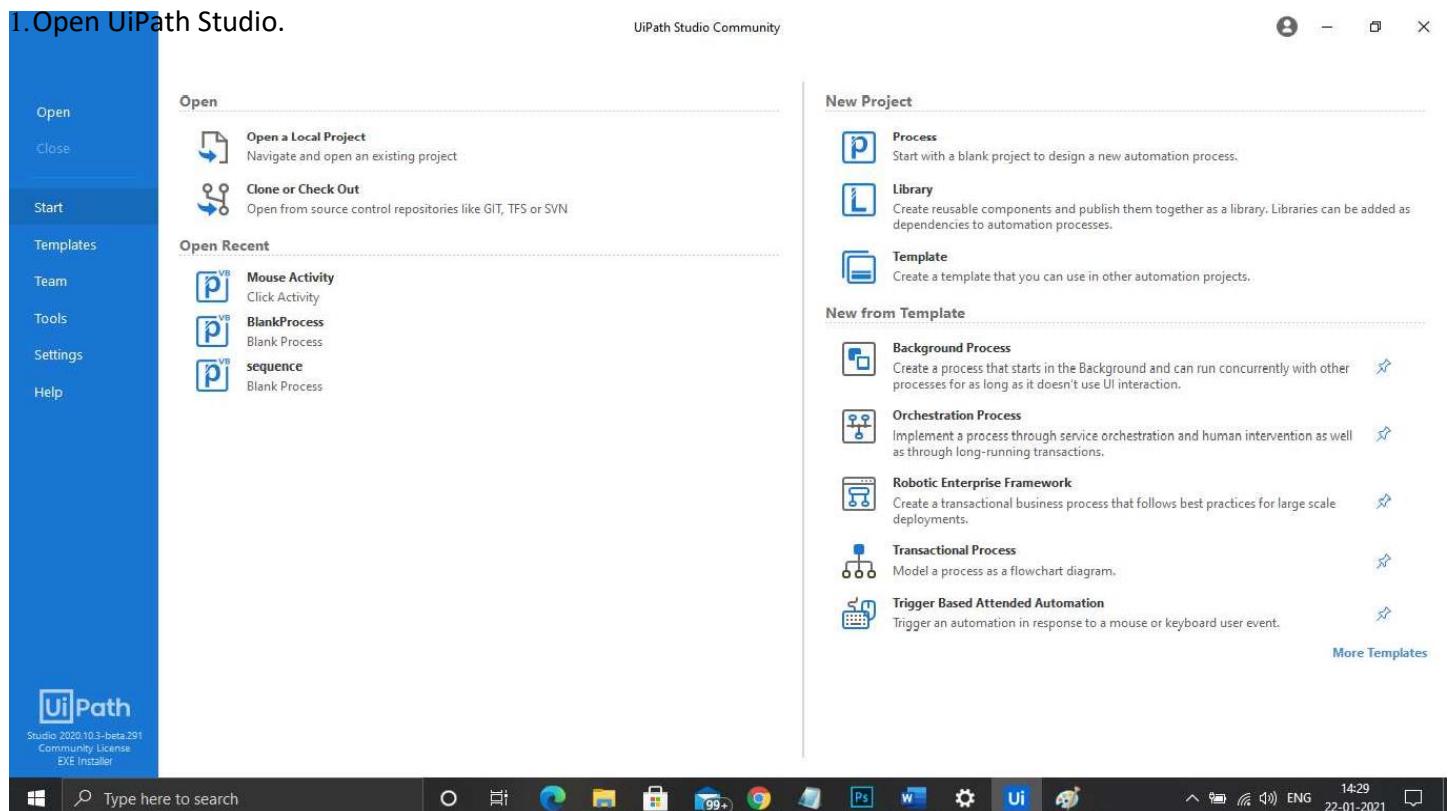


### c. Demonstrate the following activities in UiPath:

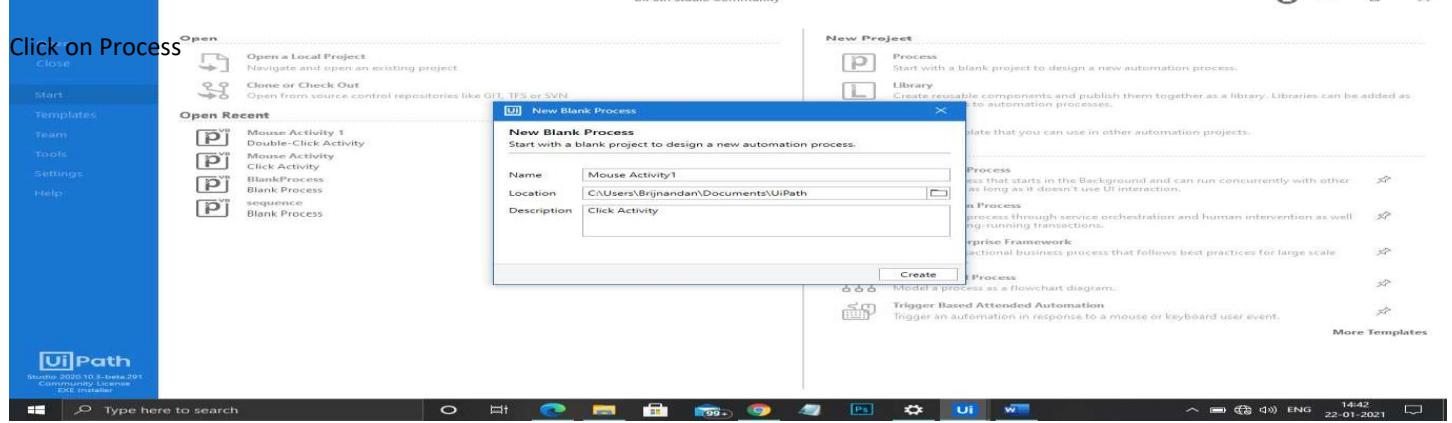
- i. Mouse (click, double click and hover)
- ii. Type into
- iii. Type Secure text

#### Click Activity

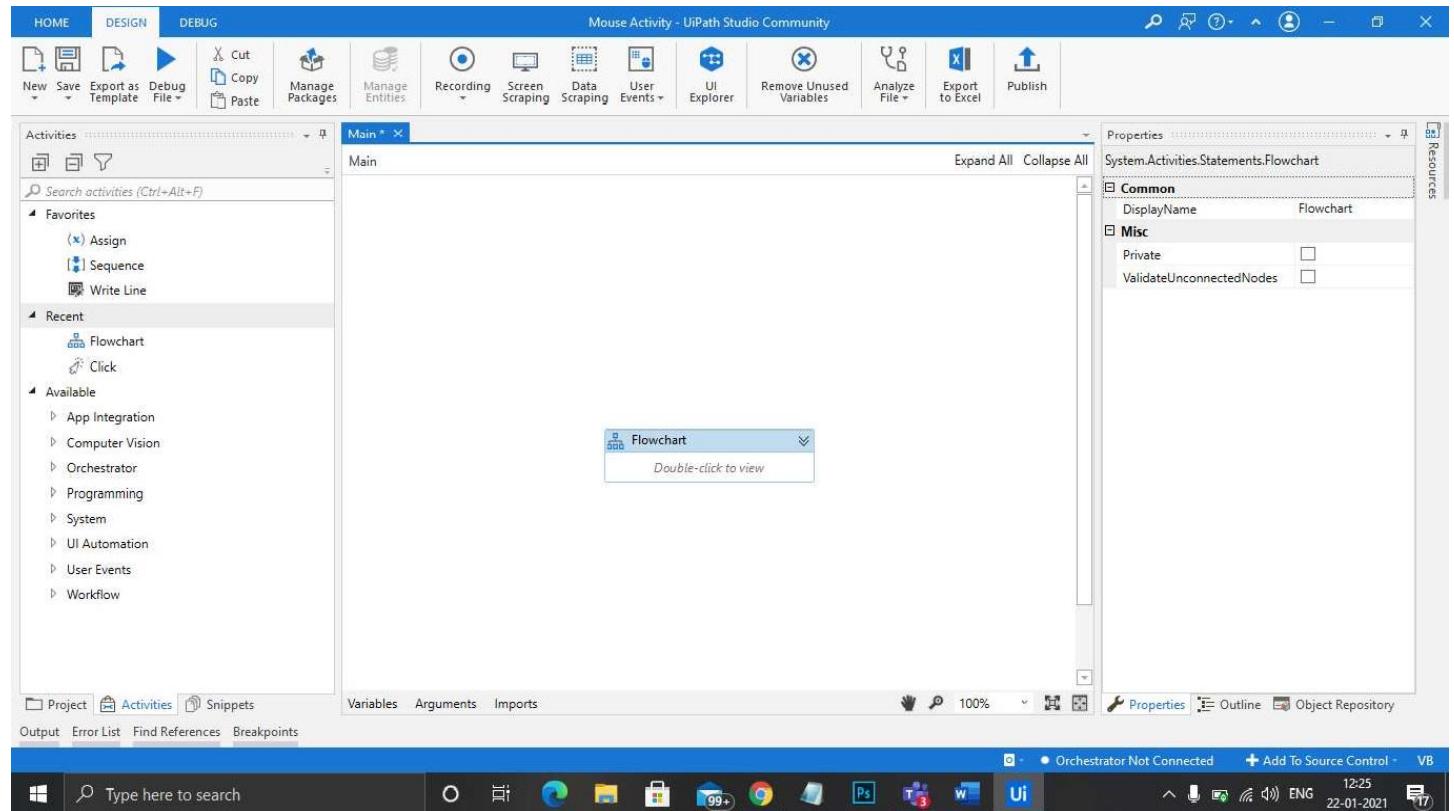
##### I. Open UiPath Studio.



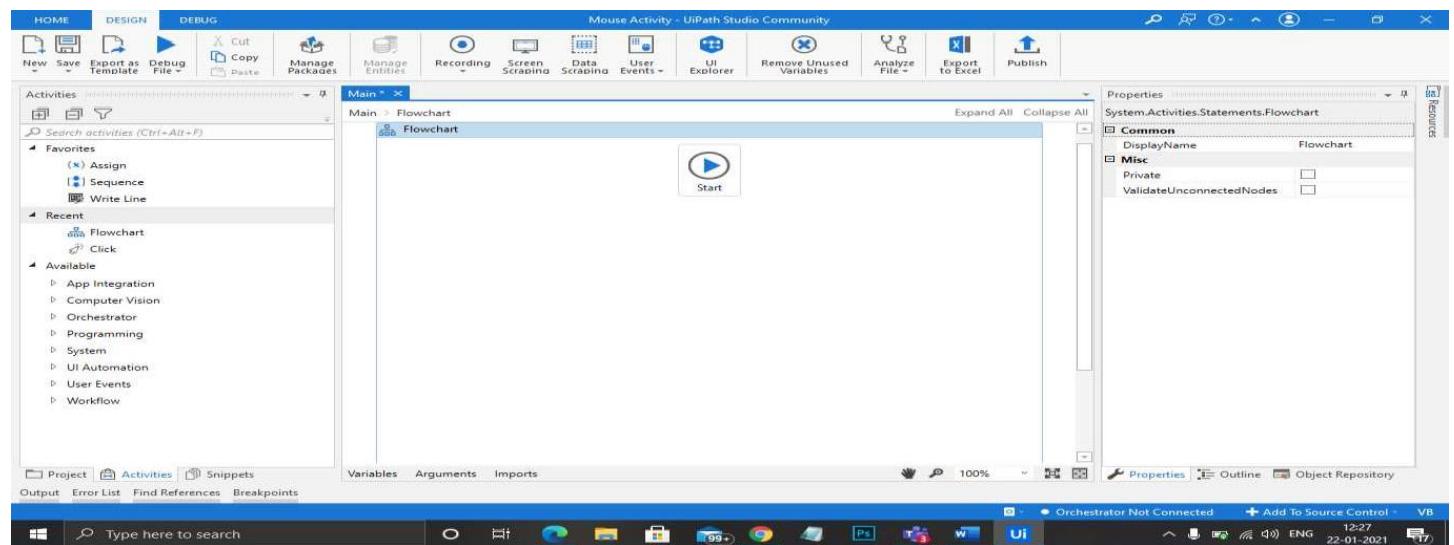
##### Click on Process



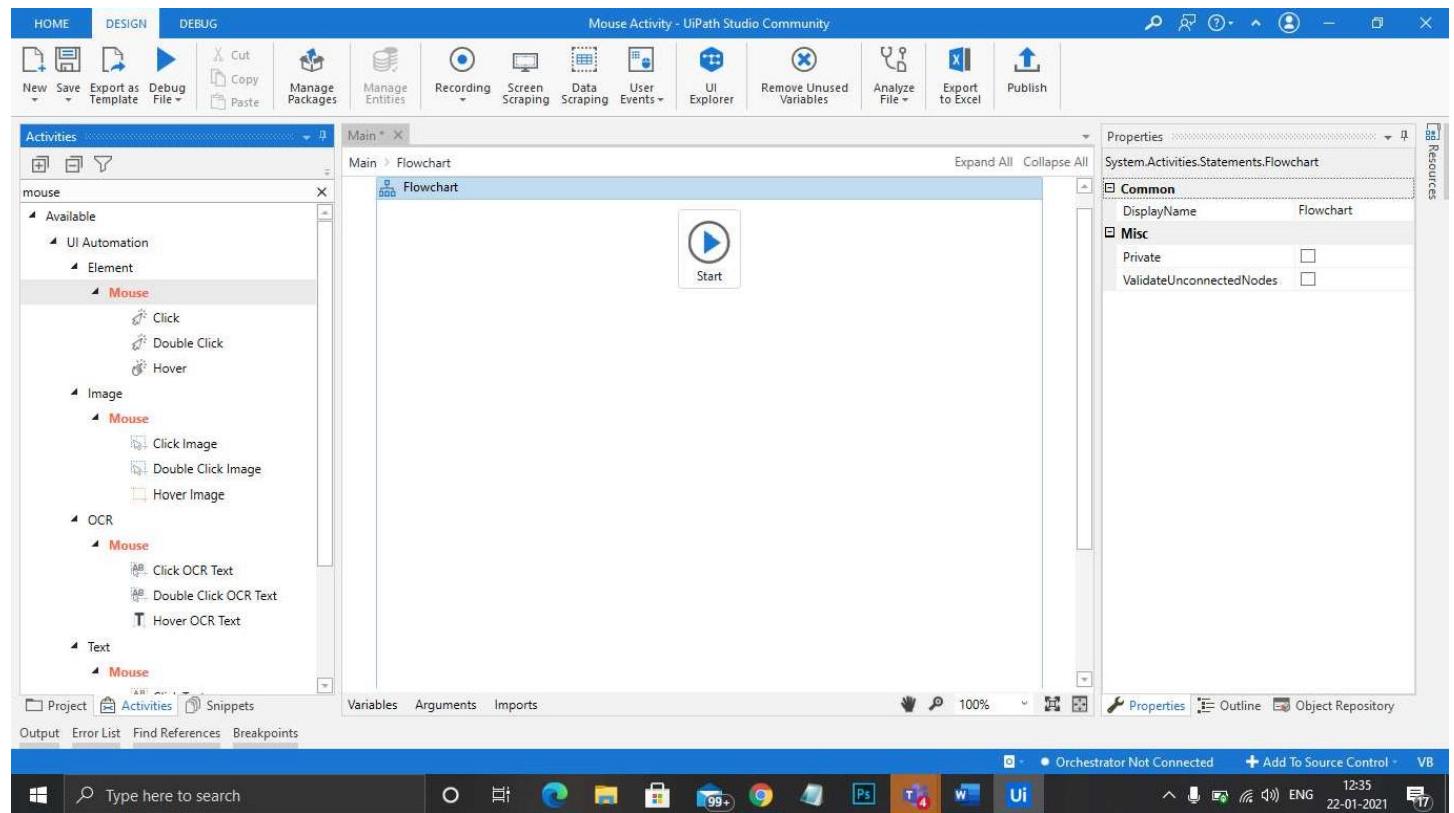
Click on Workflow and Drag Flow Chart from Activities panel



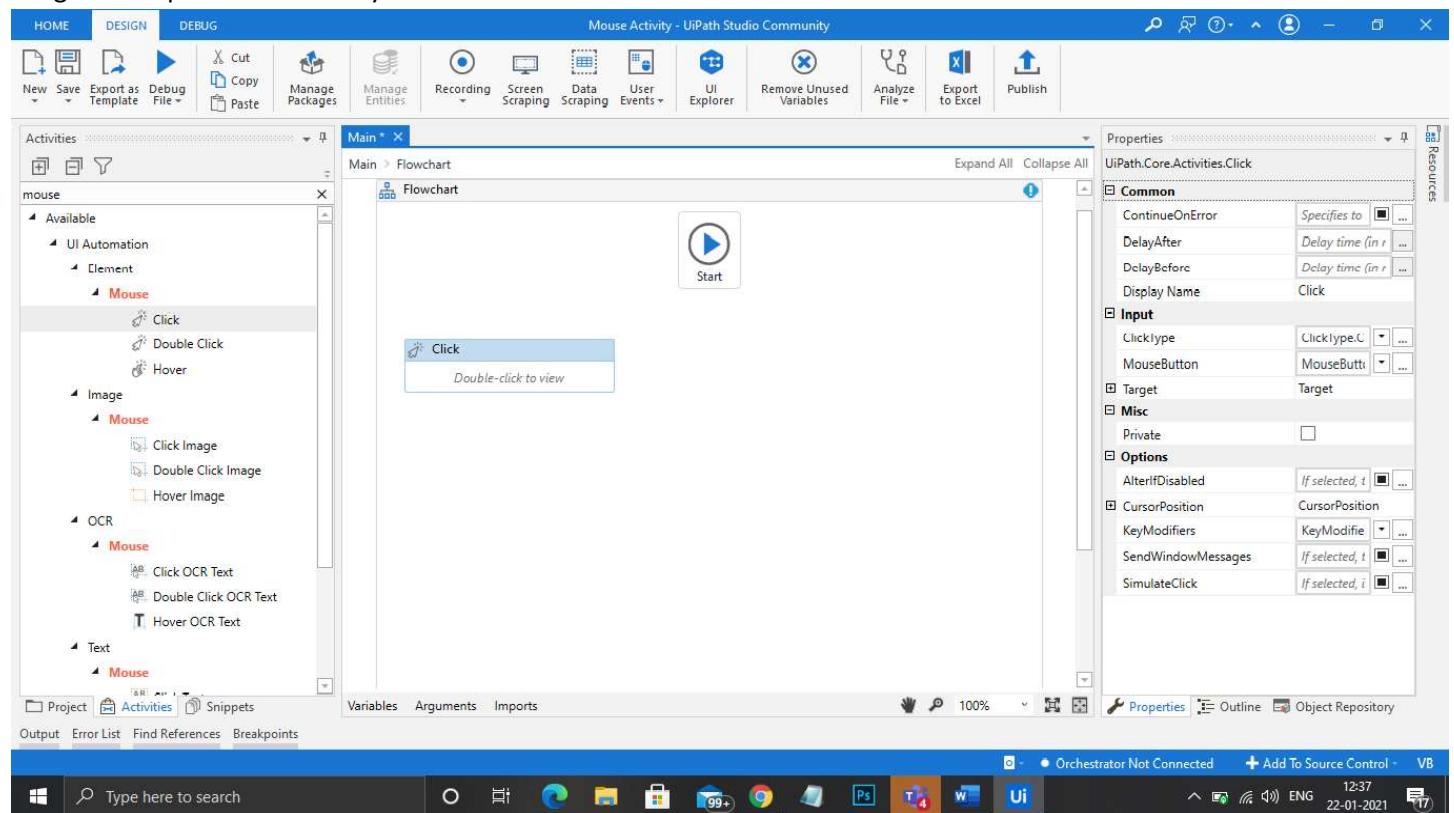
Double Click on FlowChart



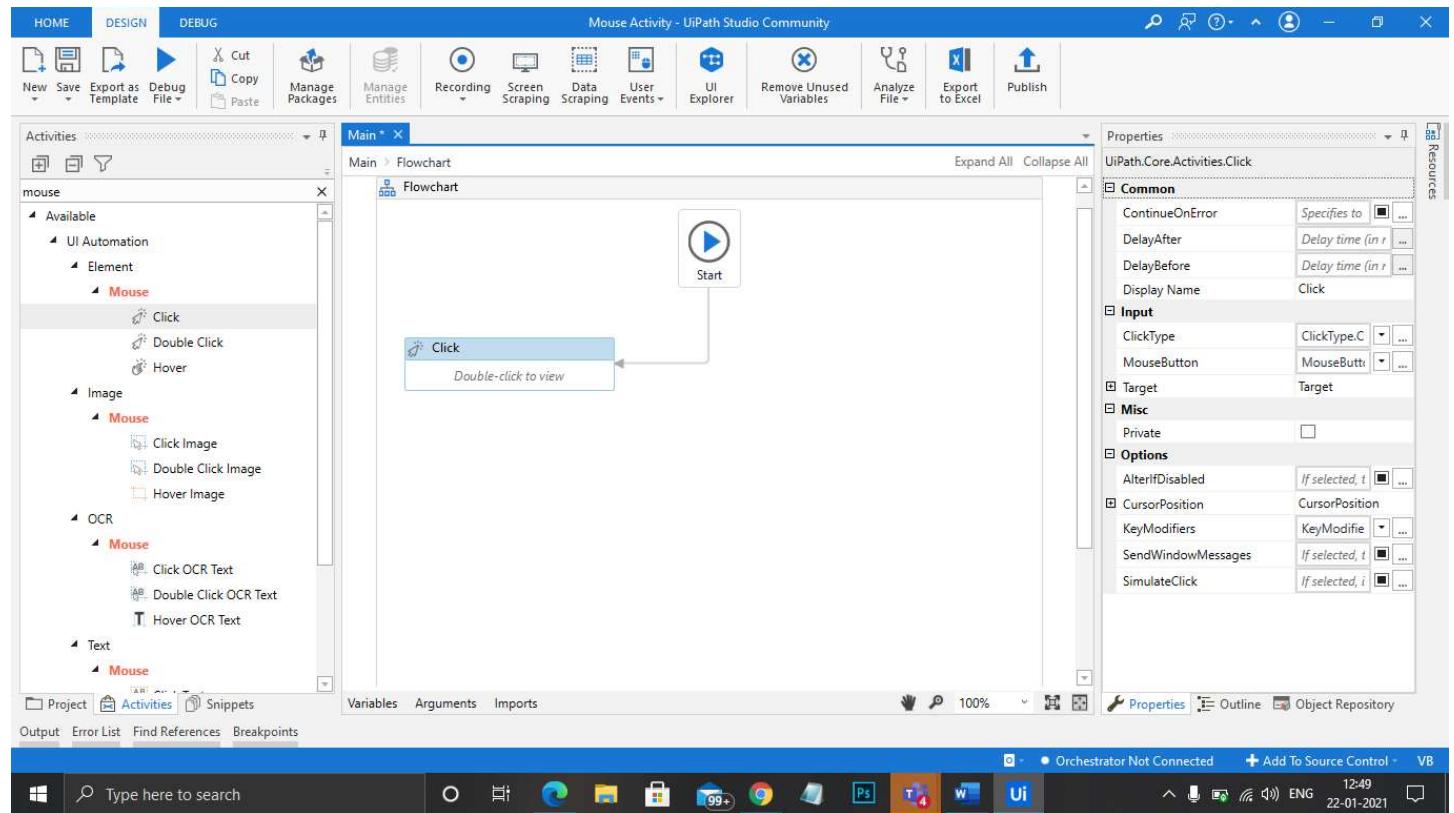
Now Go to the Activities Panel and Search For Mouse .



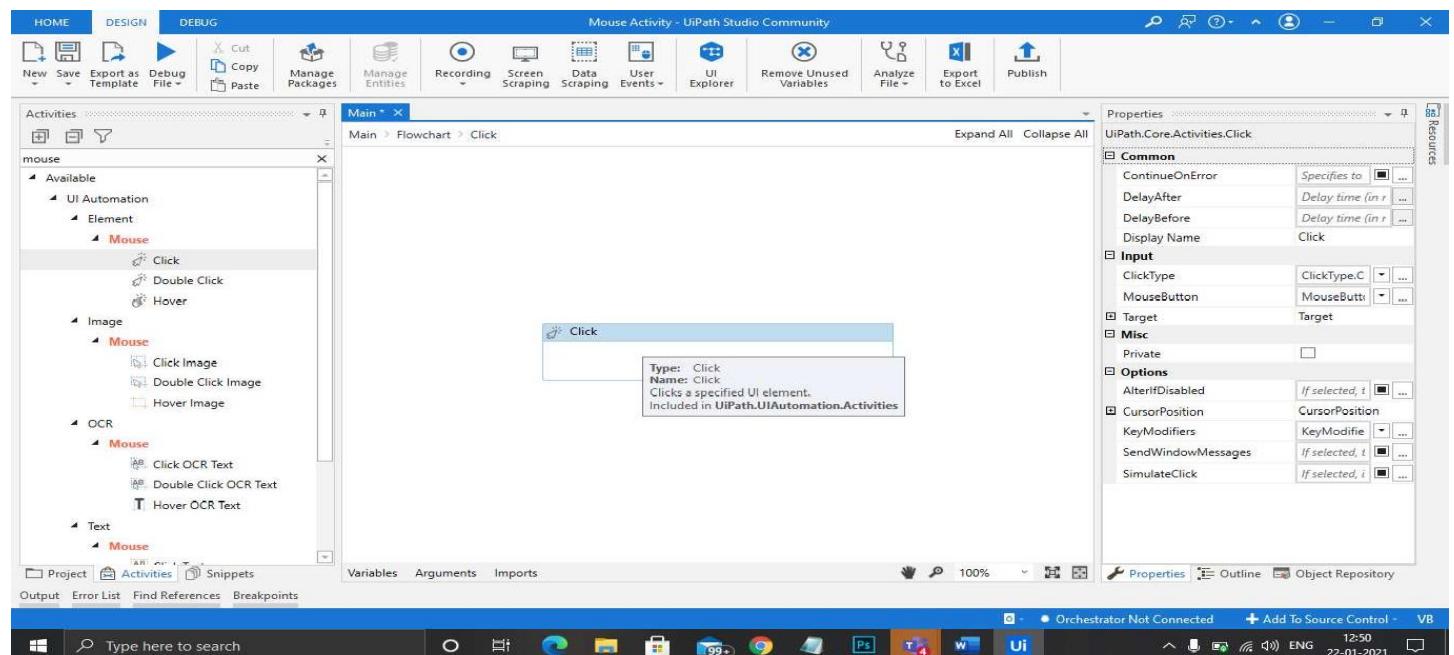
Drag and drop the Click activity



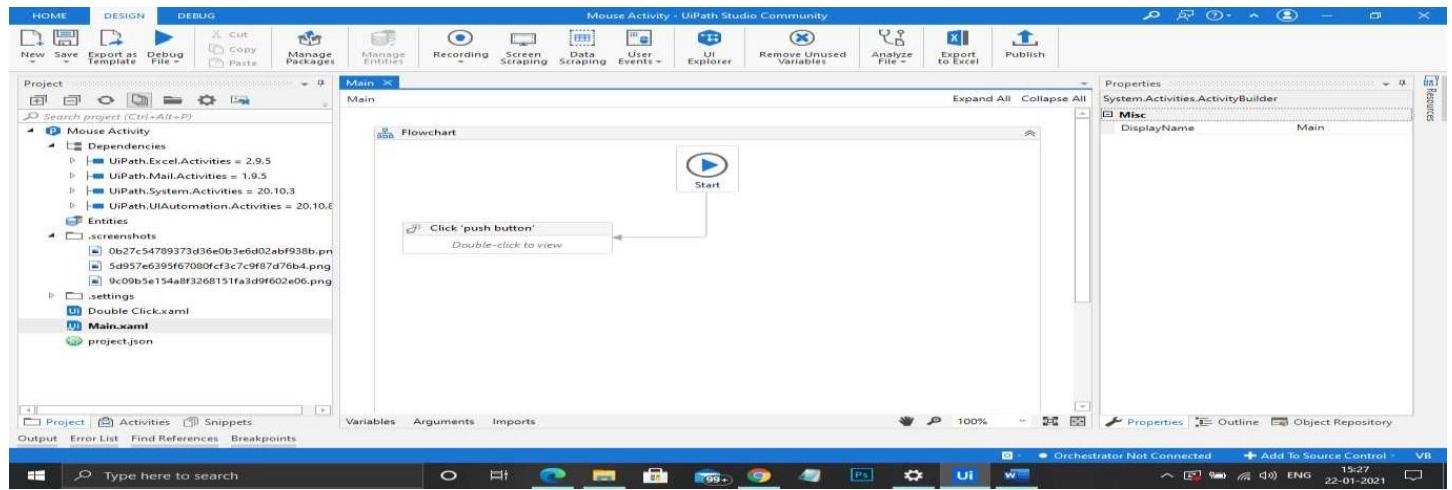
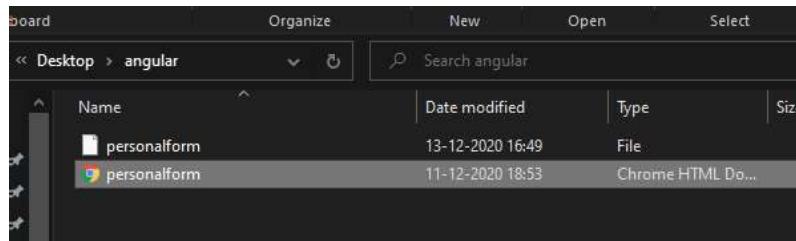
## Set Click Activity as Start Node



Double click on the Click activity.

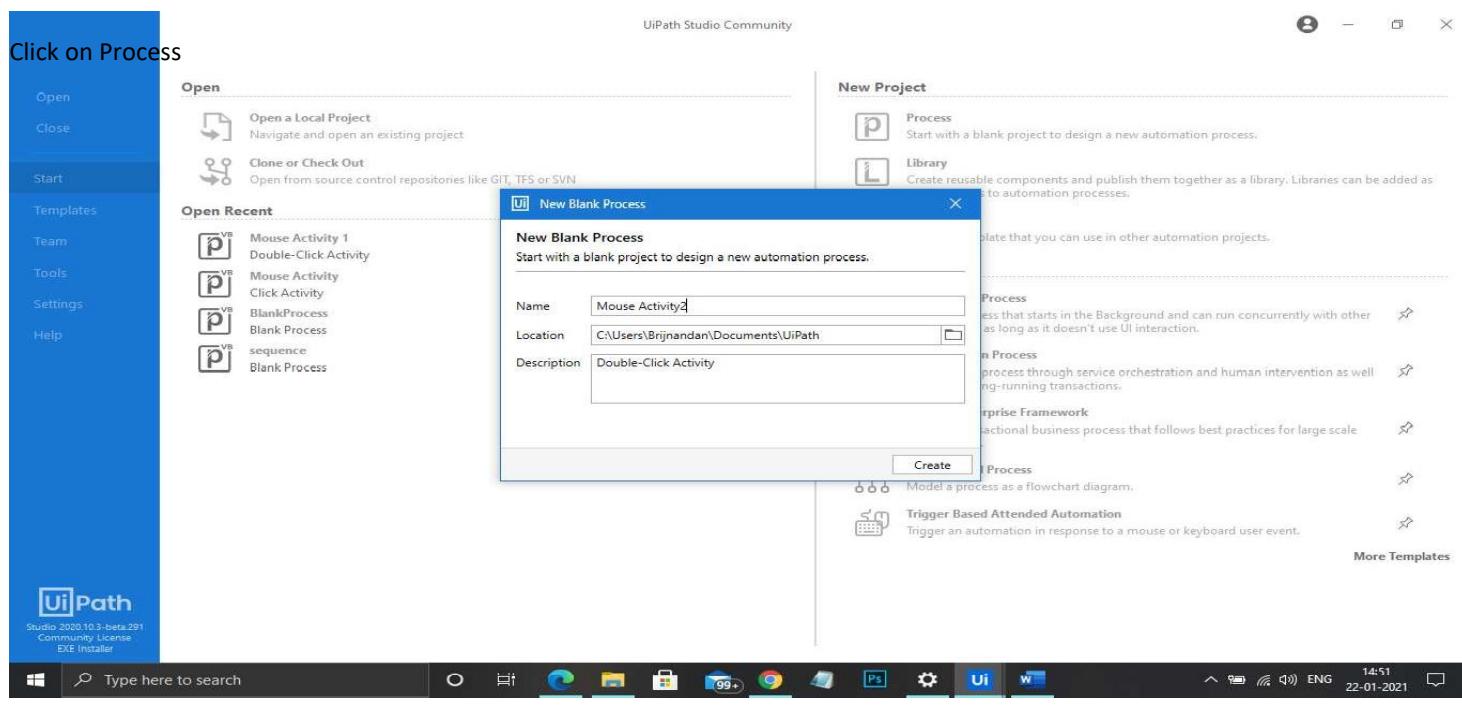
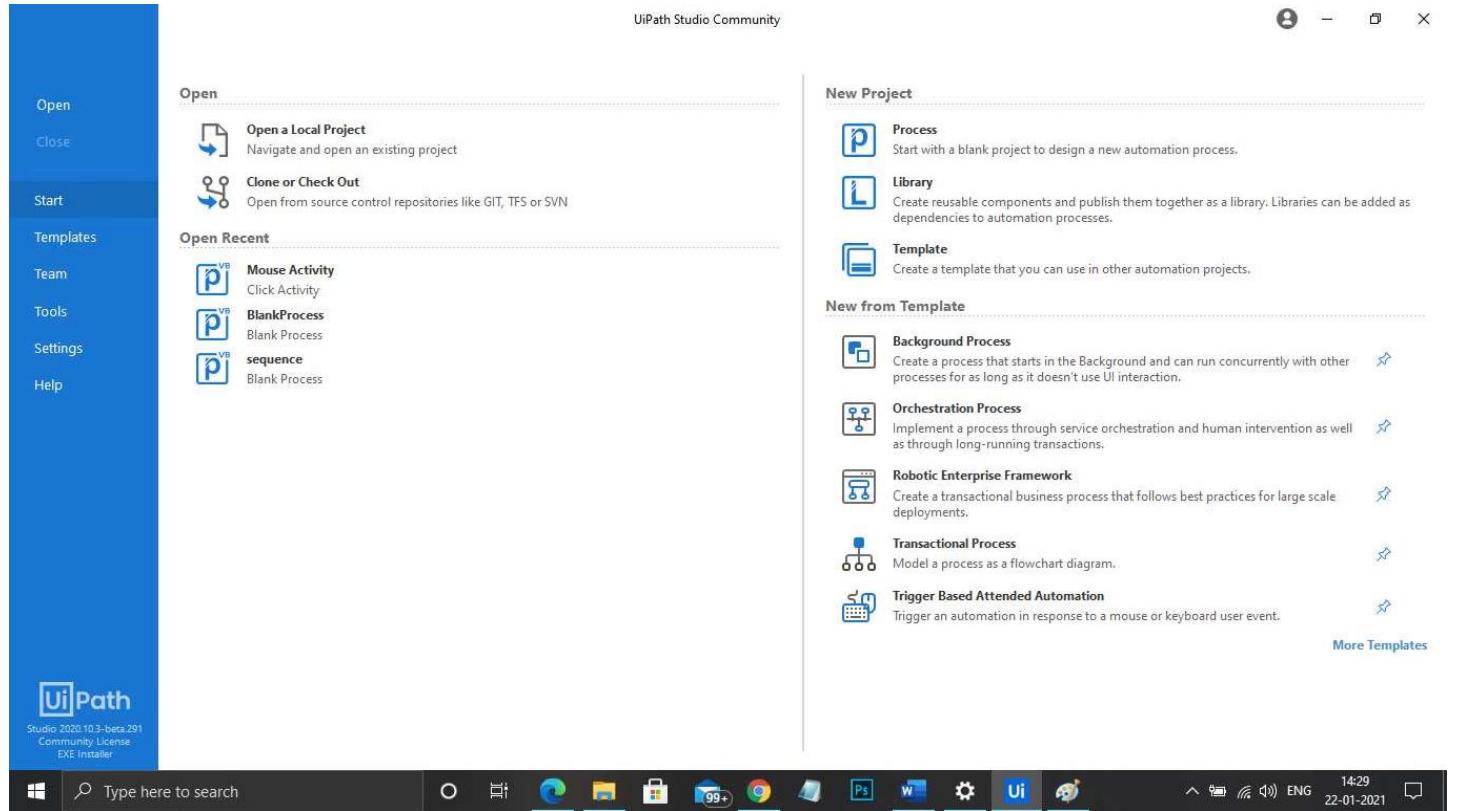


Click on Indicate on screen and indicate the UI element you want to click on. And Now Click On Run.

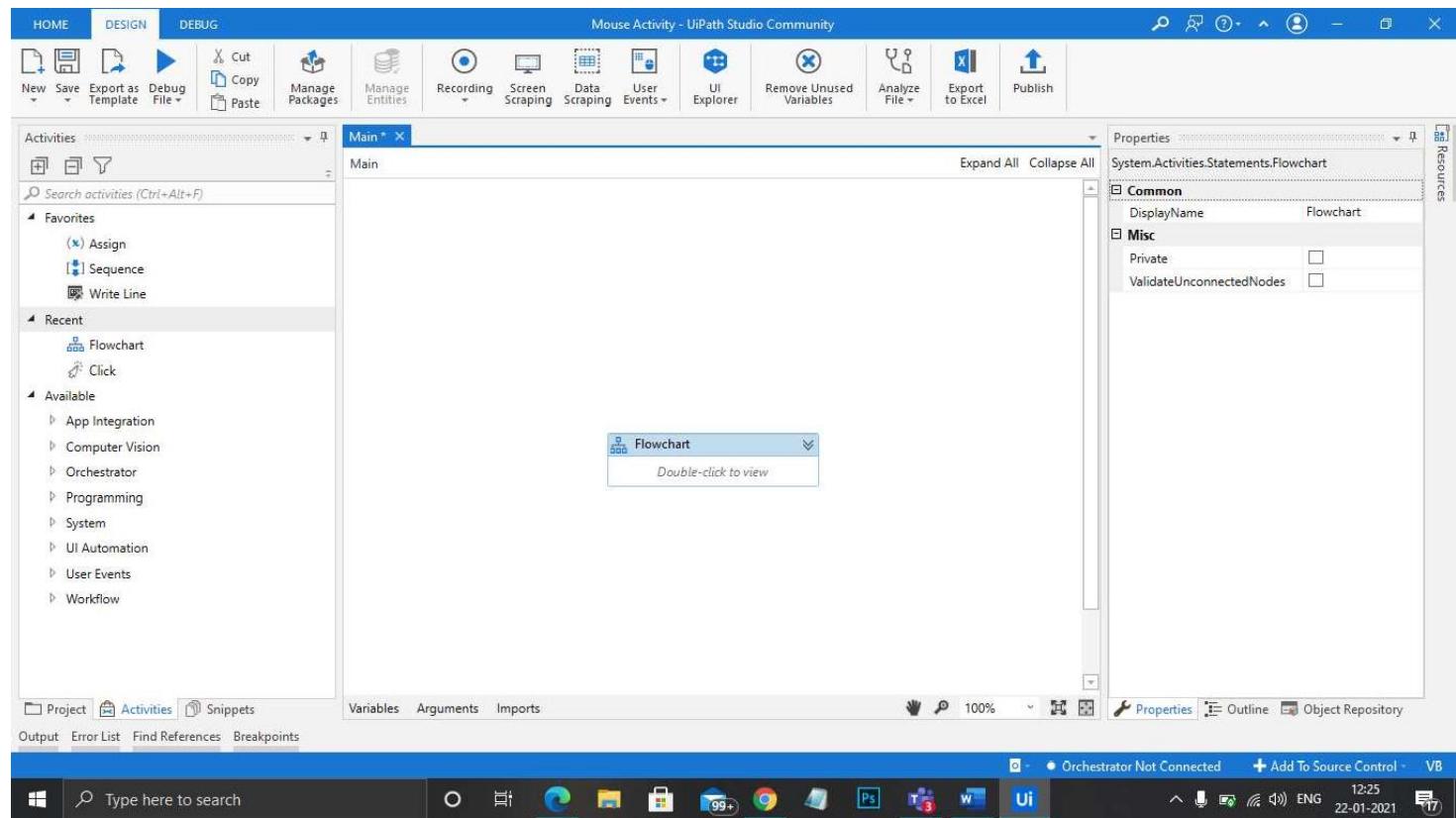


## 2. Double-Click Activity

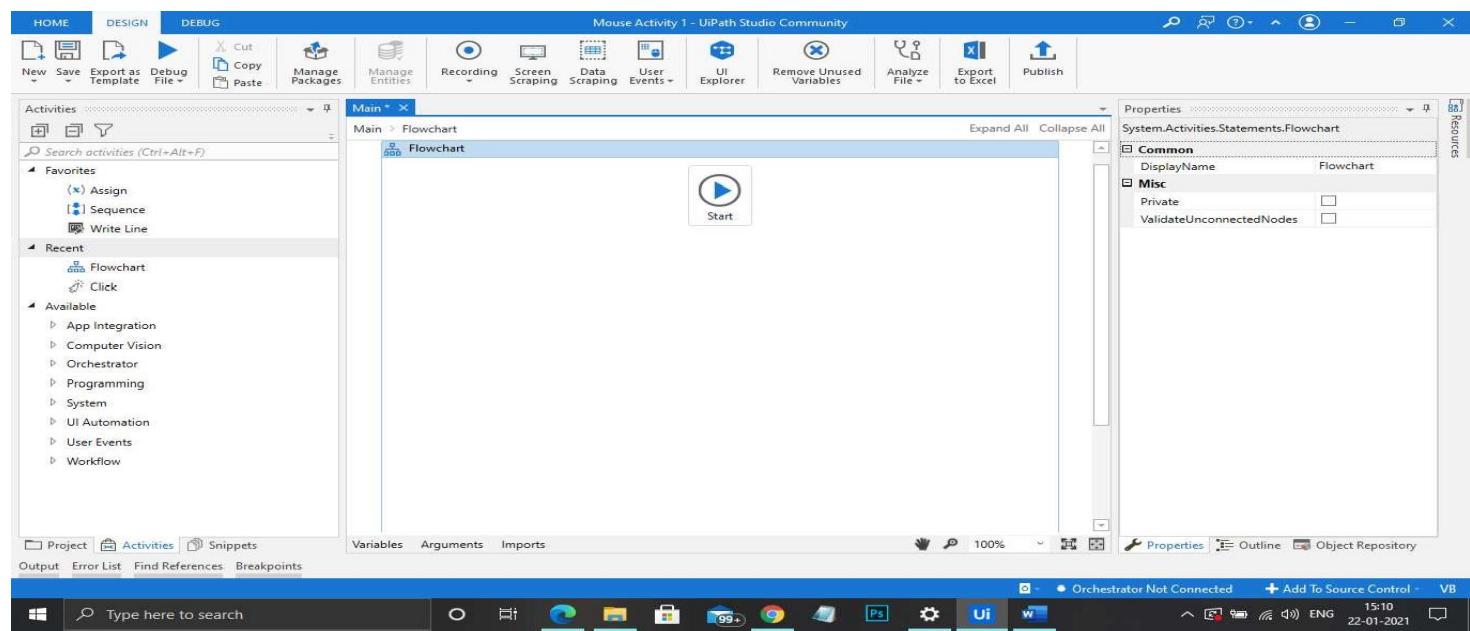
Open UiPath Studio.

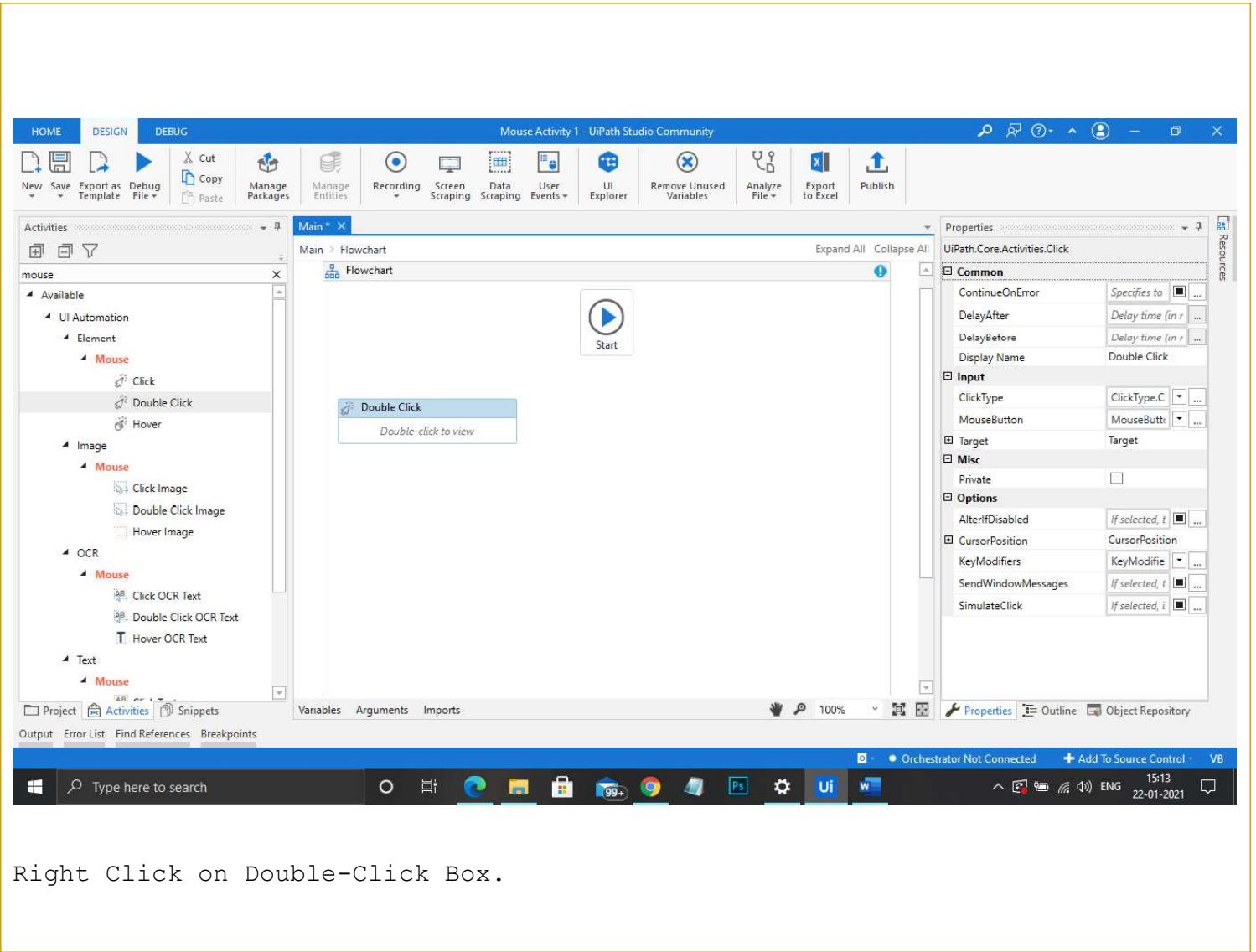


Click on Workflow and Drag Flow Chart from Activities panel.

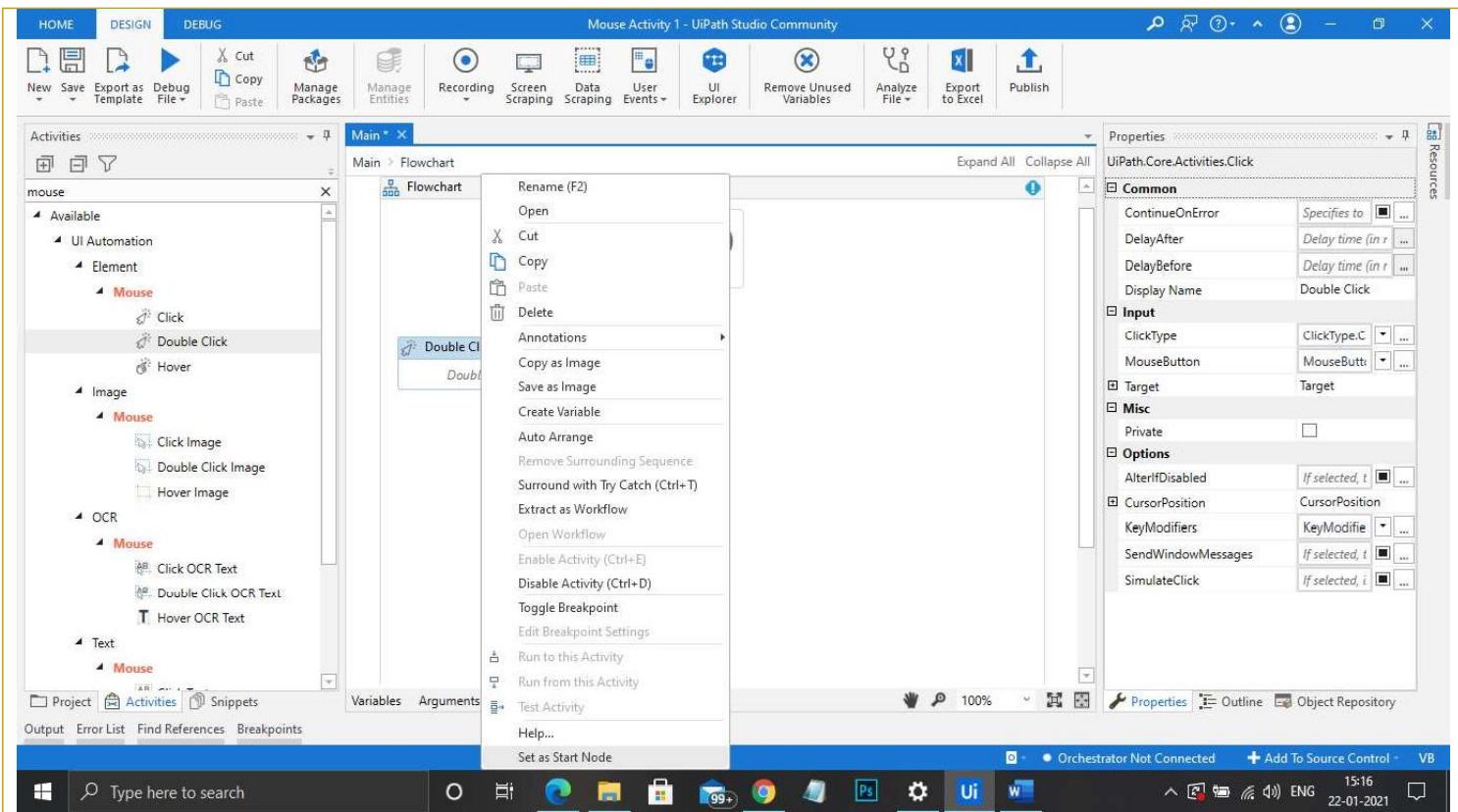


Double click on Flow ChartSearch

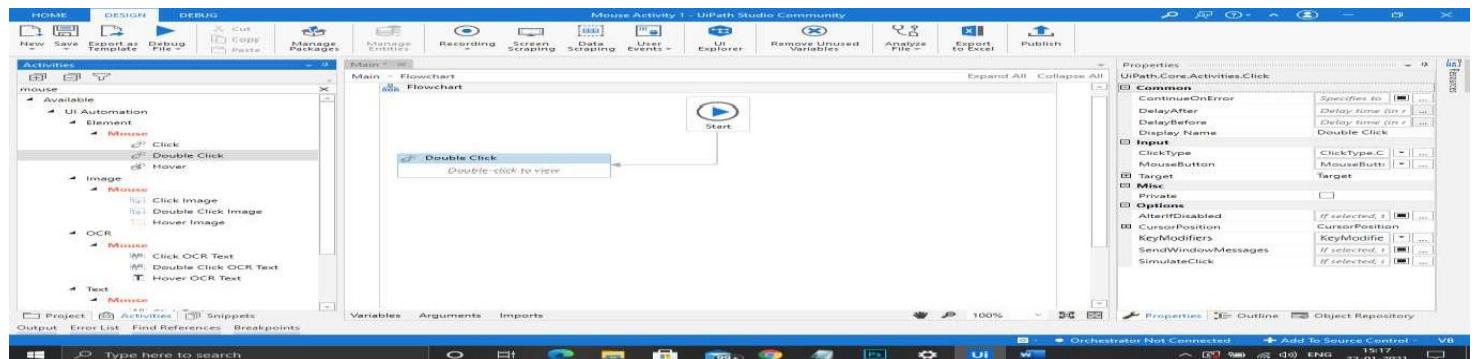




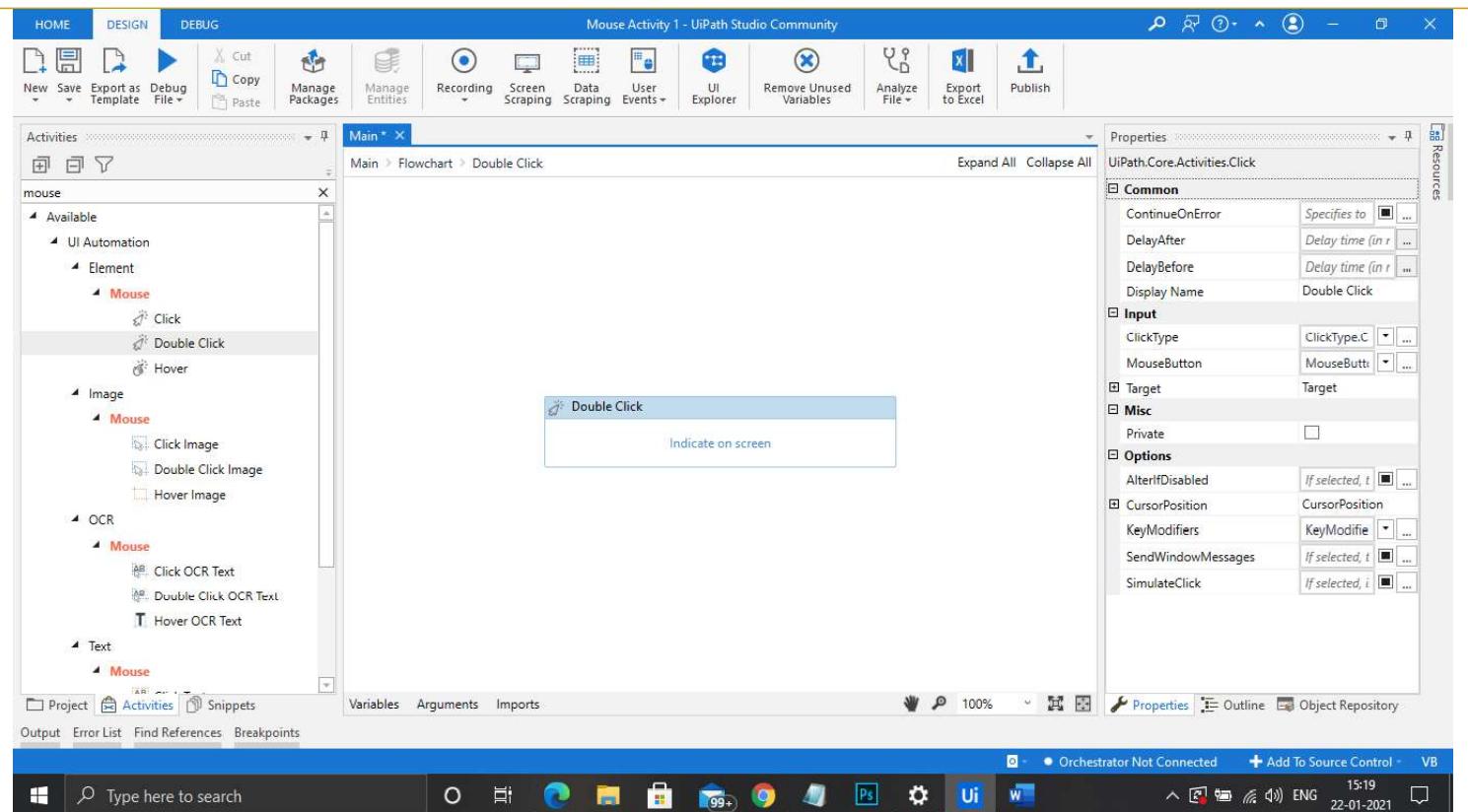
Right Click on Double-Click Box.



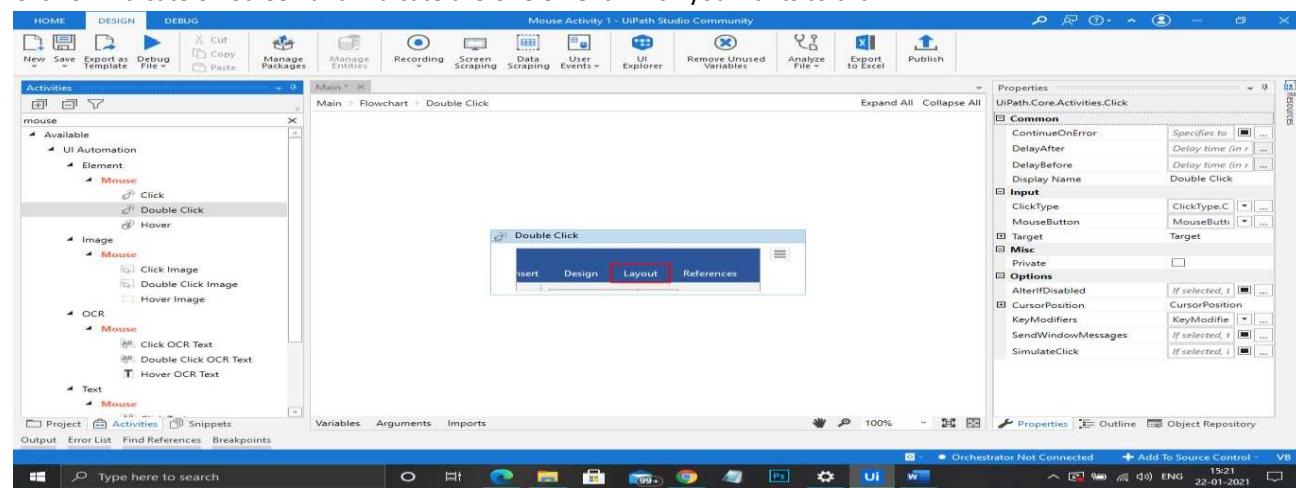
Select set as Start Node.



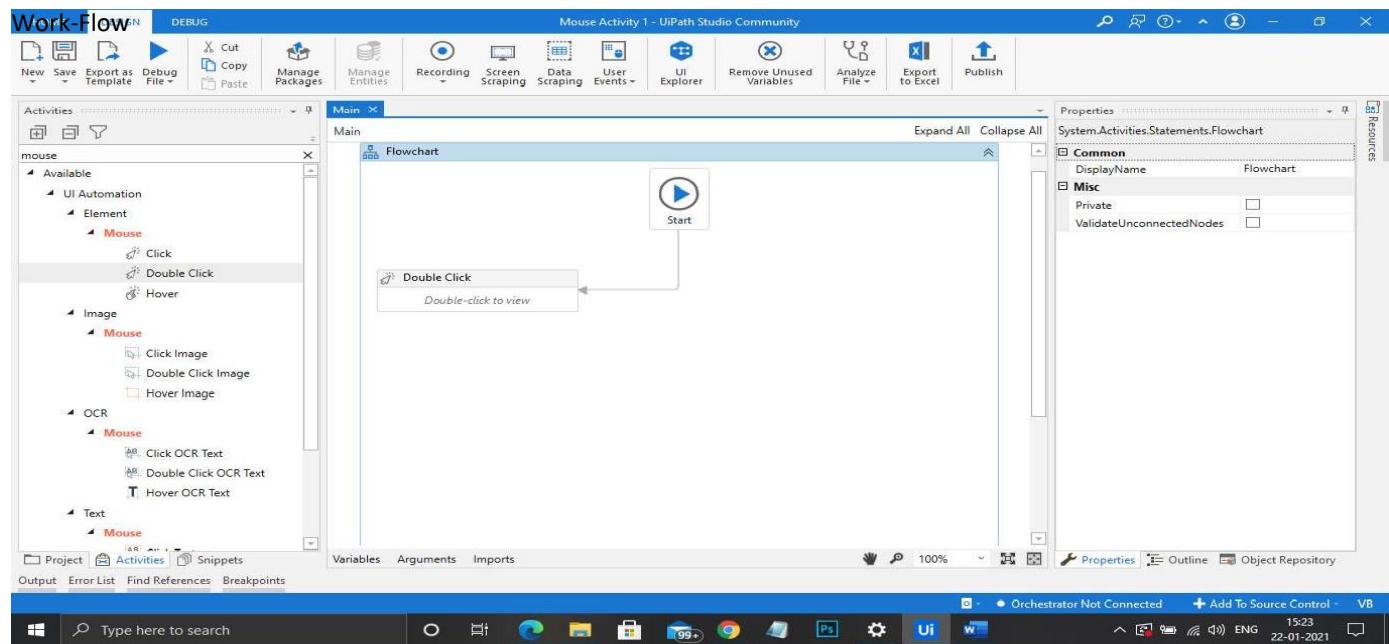
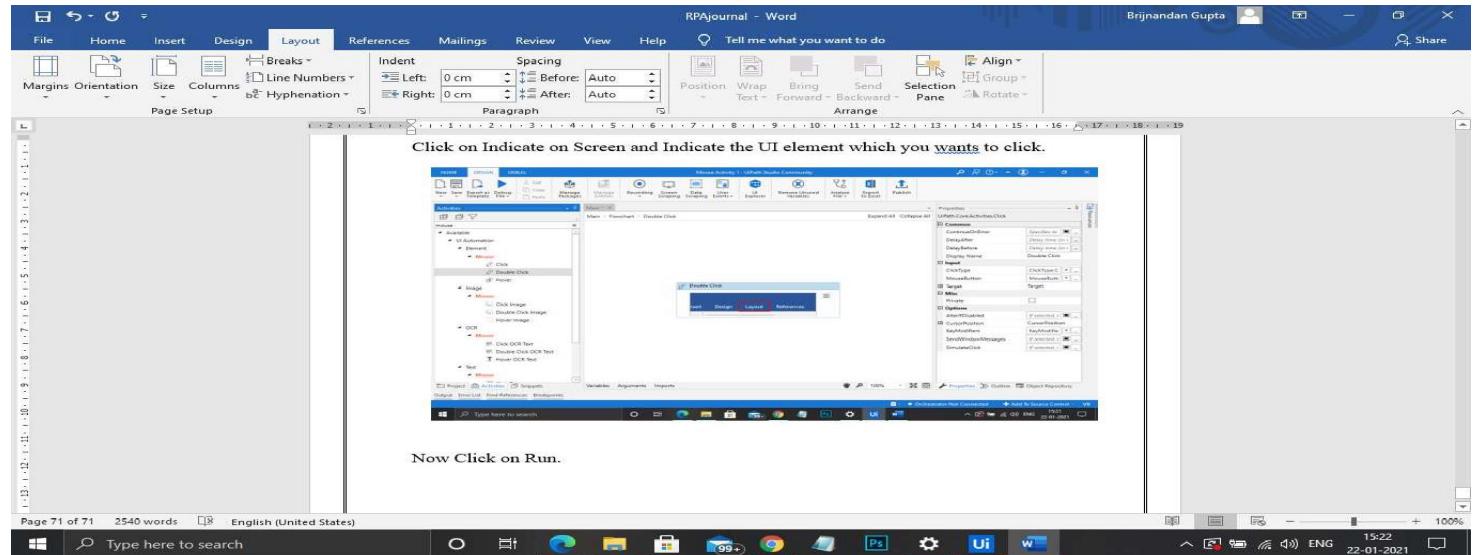
Double click on Double Click box.



Click on Indicate on Screen and Indicate the UI element which you wants to click.



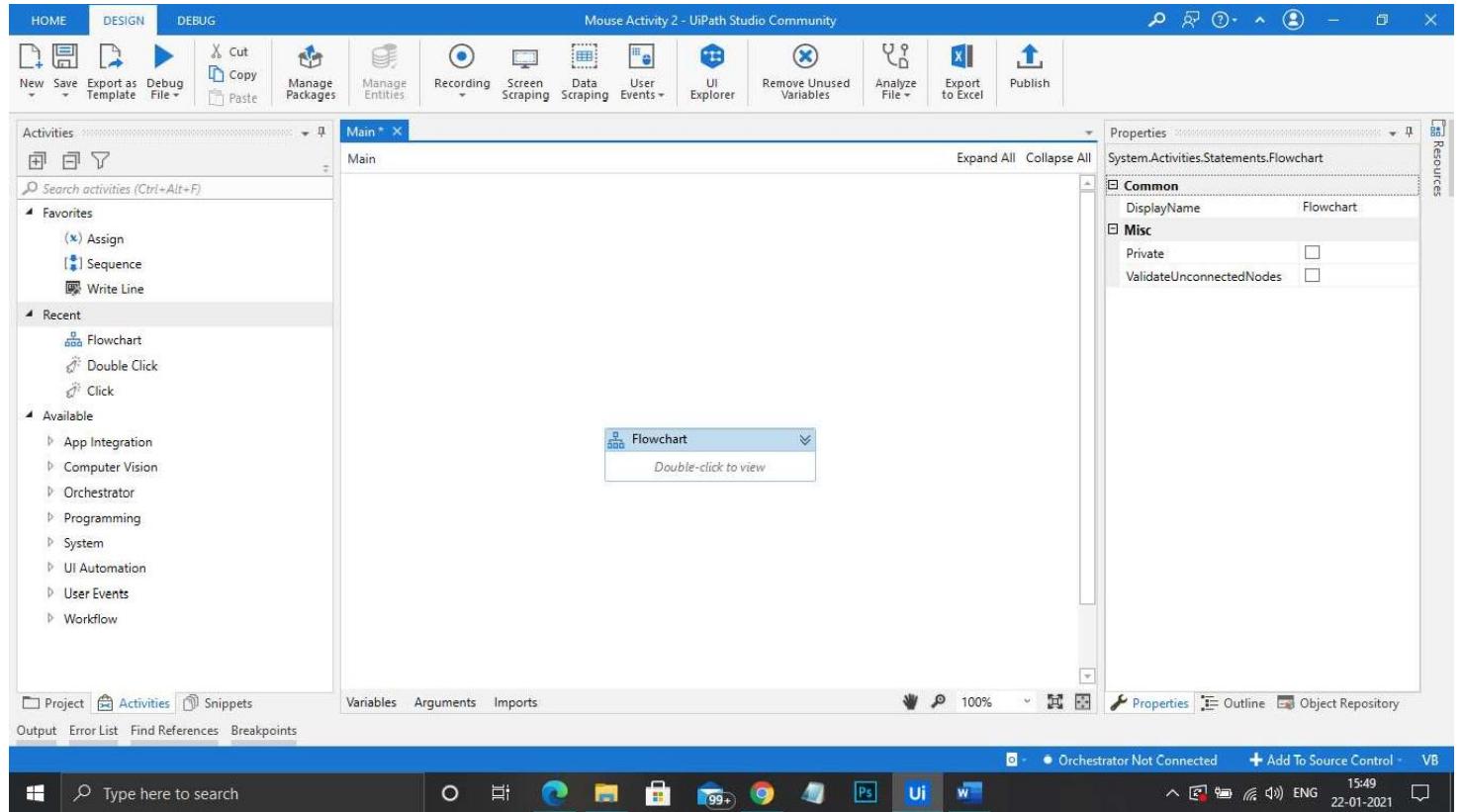
## Now Click on Run.



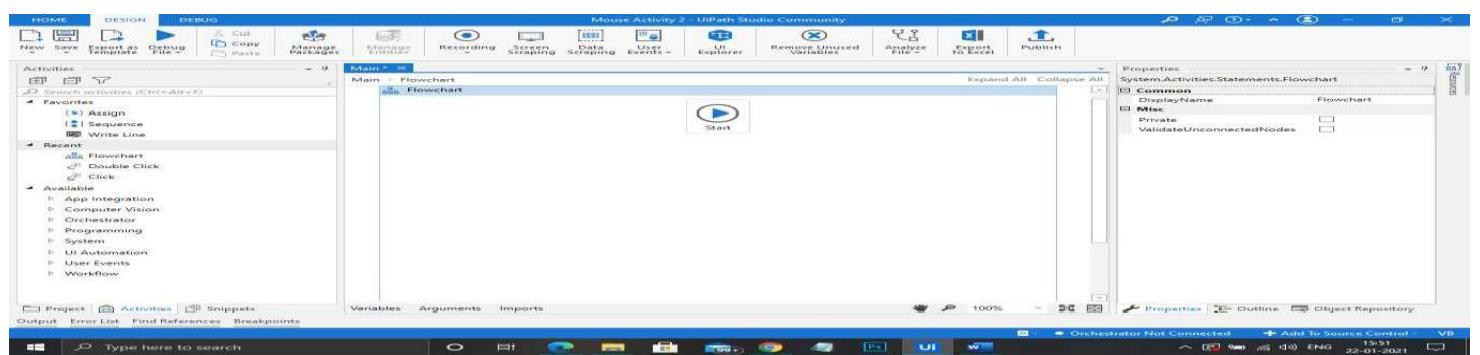
### 3. Hover Activity

#### Open UiPath Studio

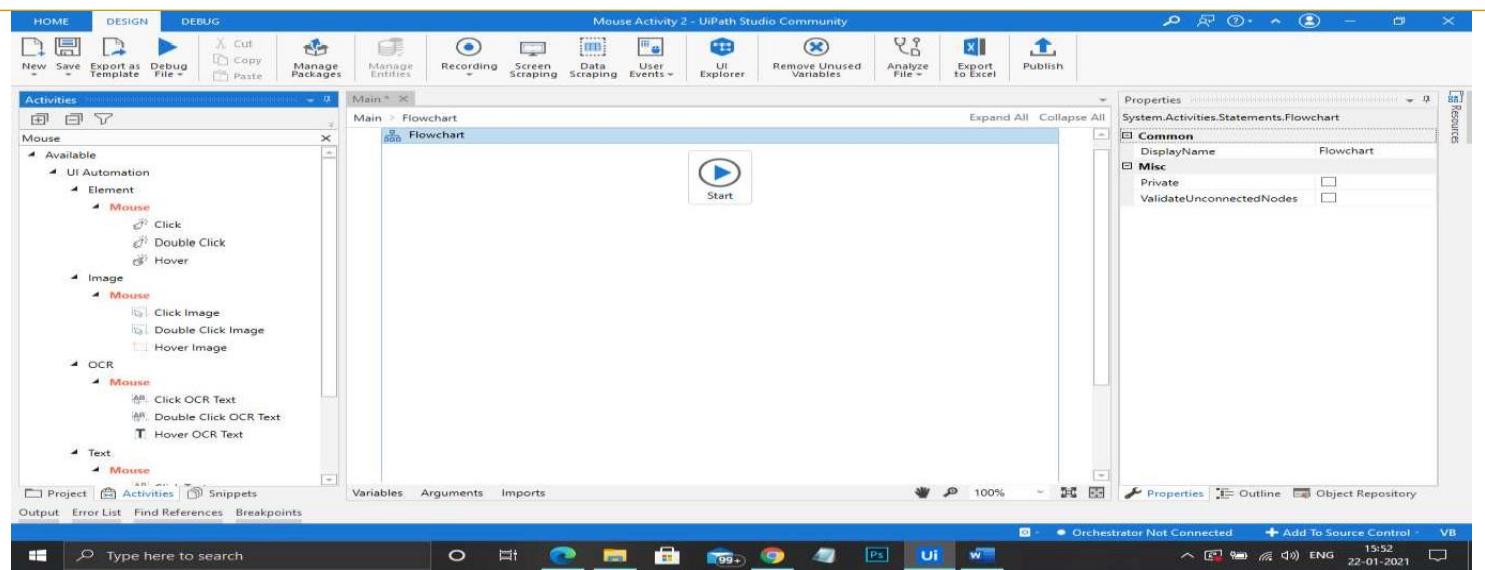
Click on Open main WorkFlow. Drag and Drop Flow Chart from Activities panel



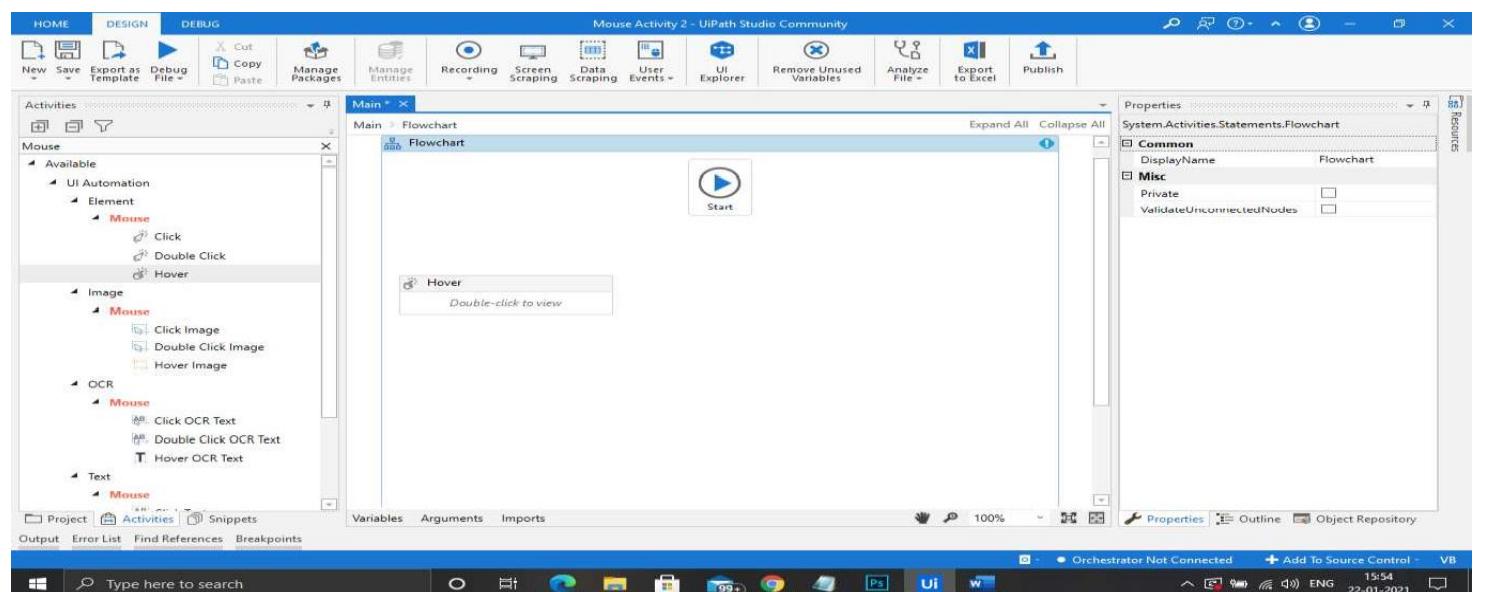
Double click on Flow Chart



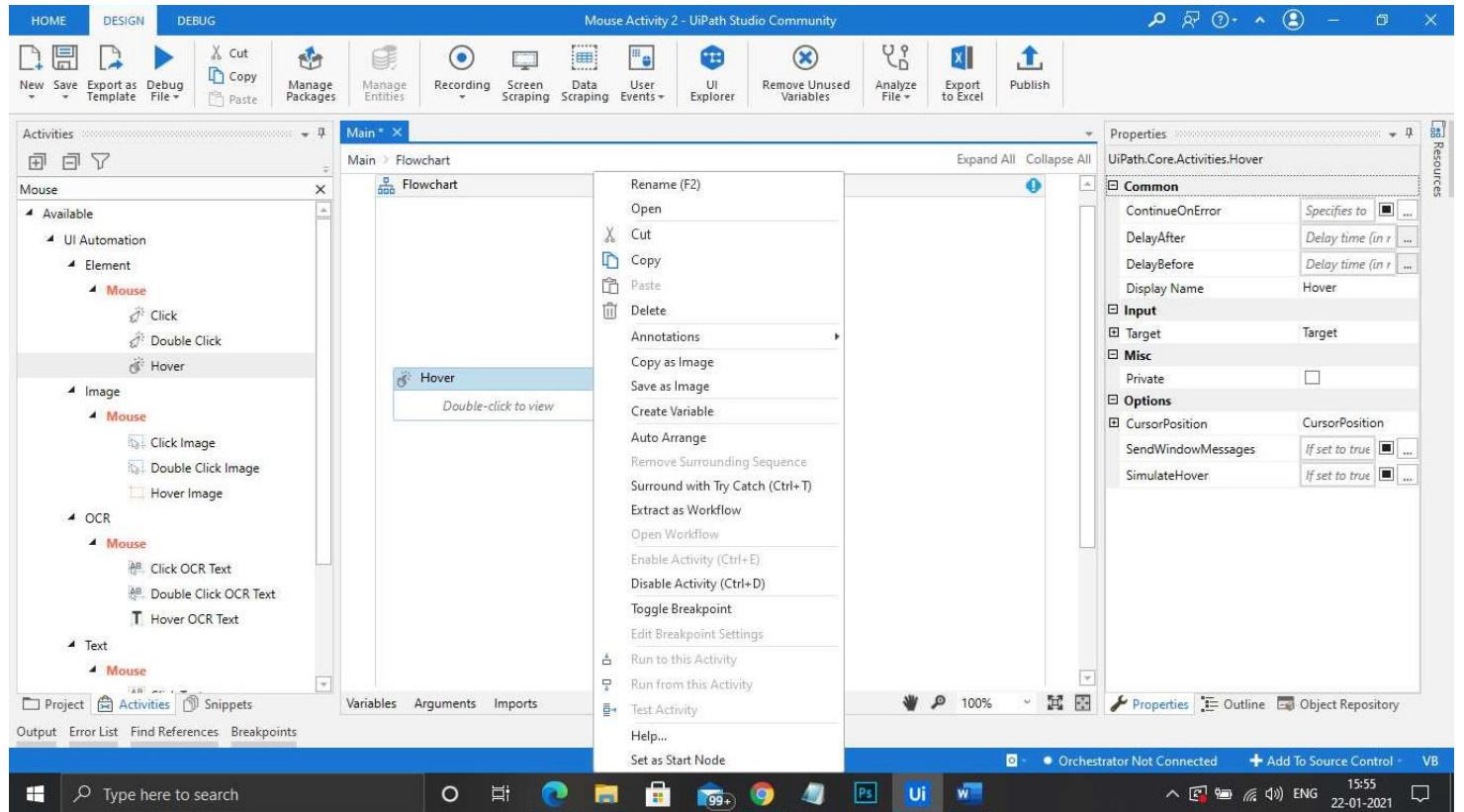
Search Mouse in Activities panel



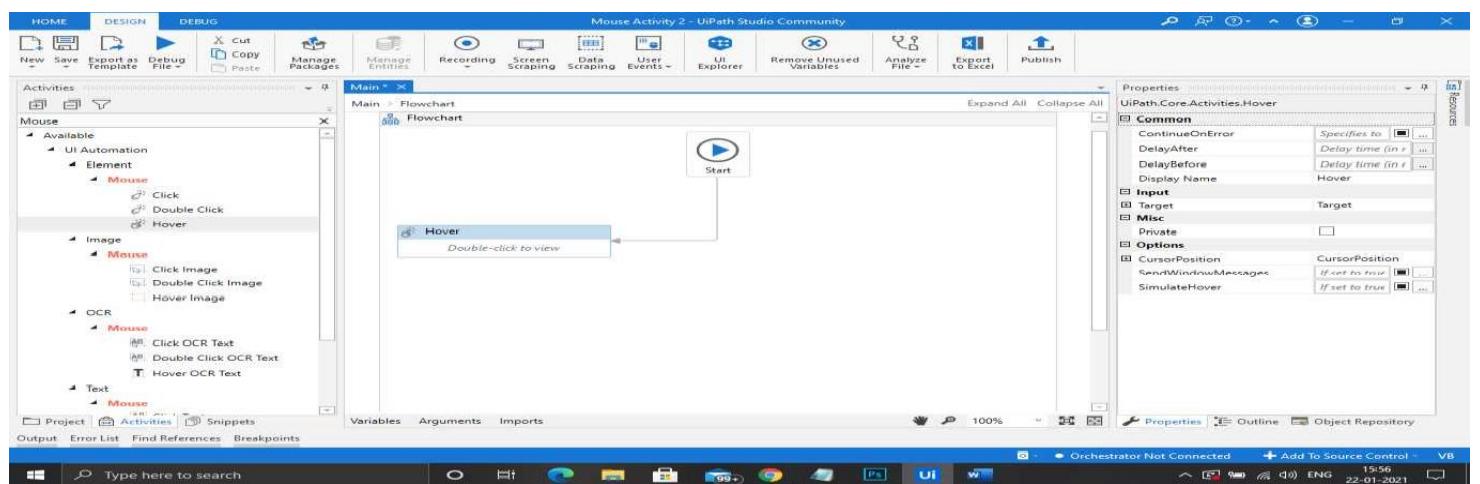
Drag and Drop Hover Activity from Activities panel



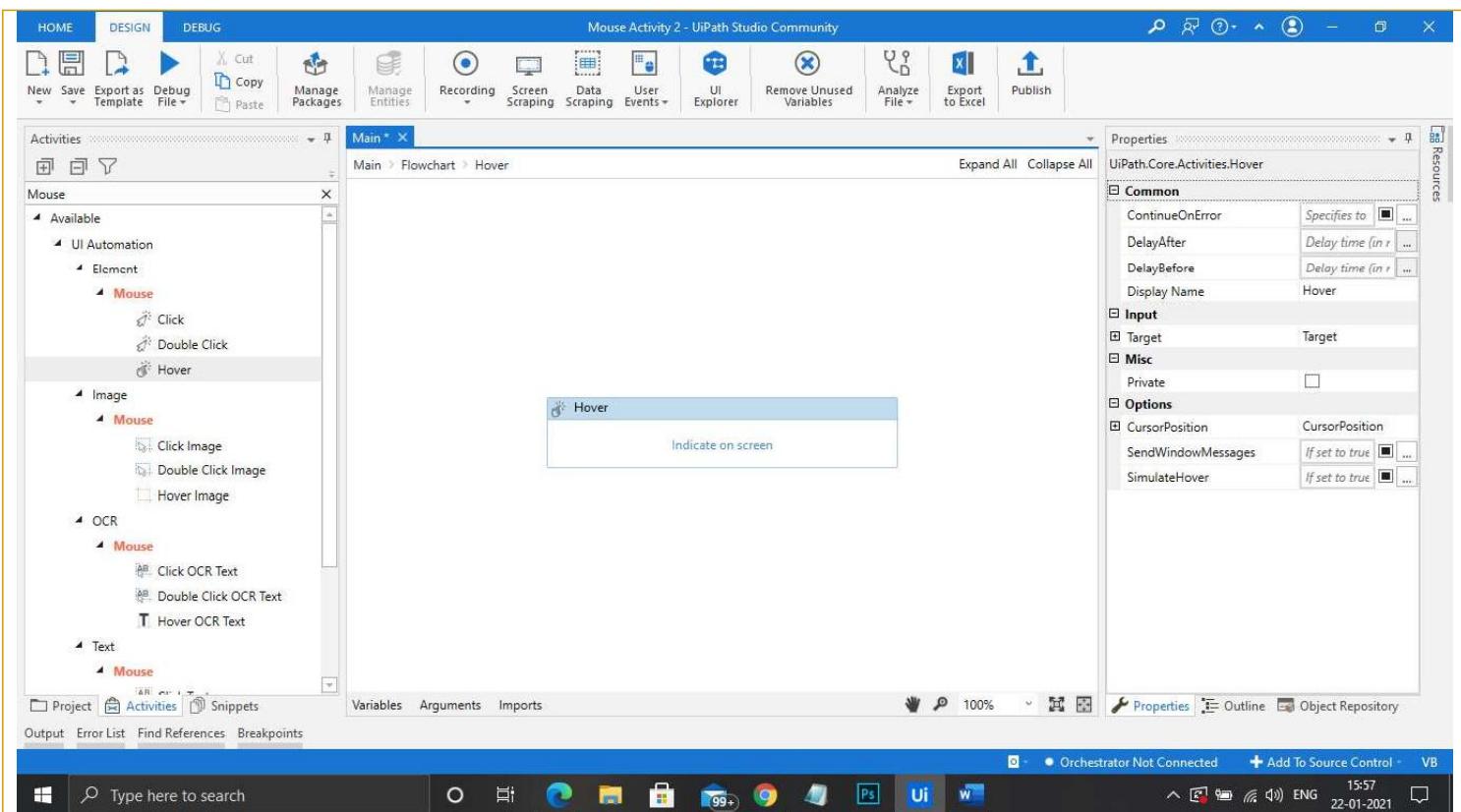
## Right click on Hover Activity box



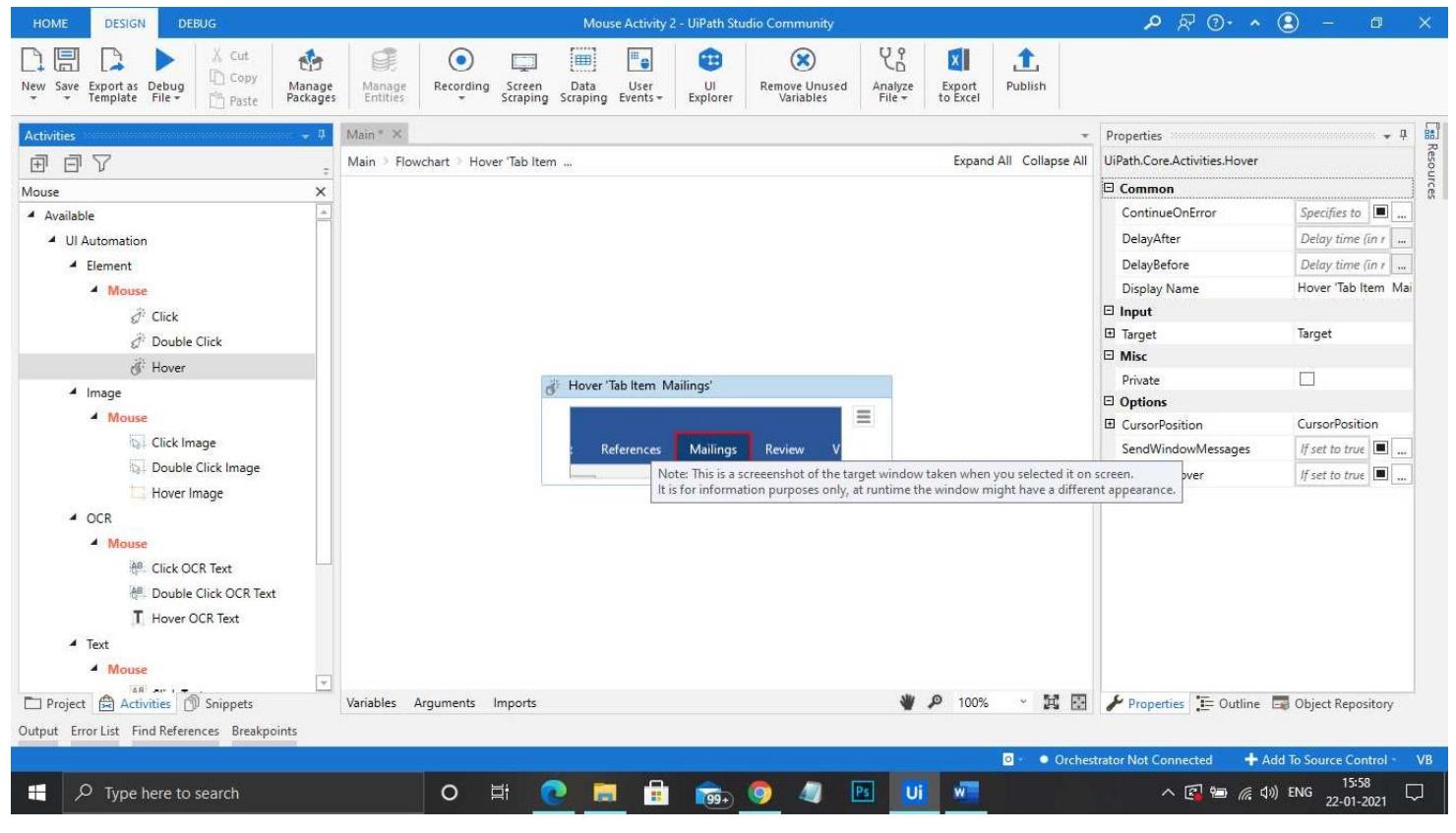
## Select Set as Start NodeDouble



click on Hover Activity box

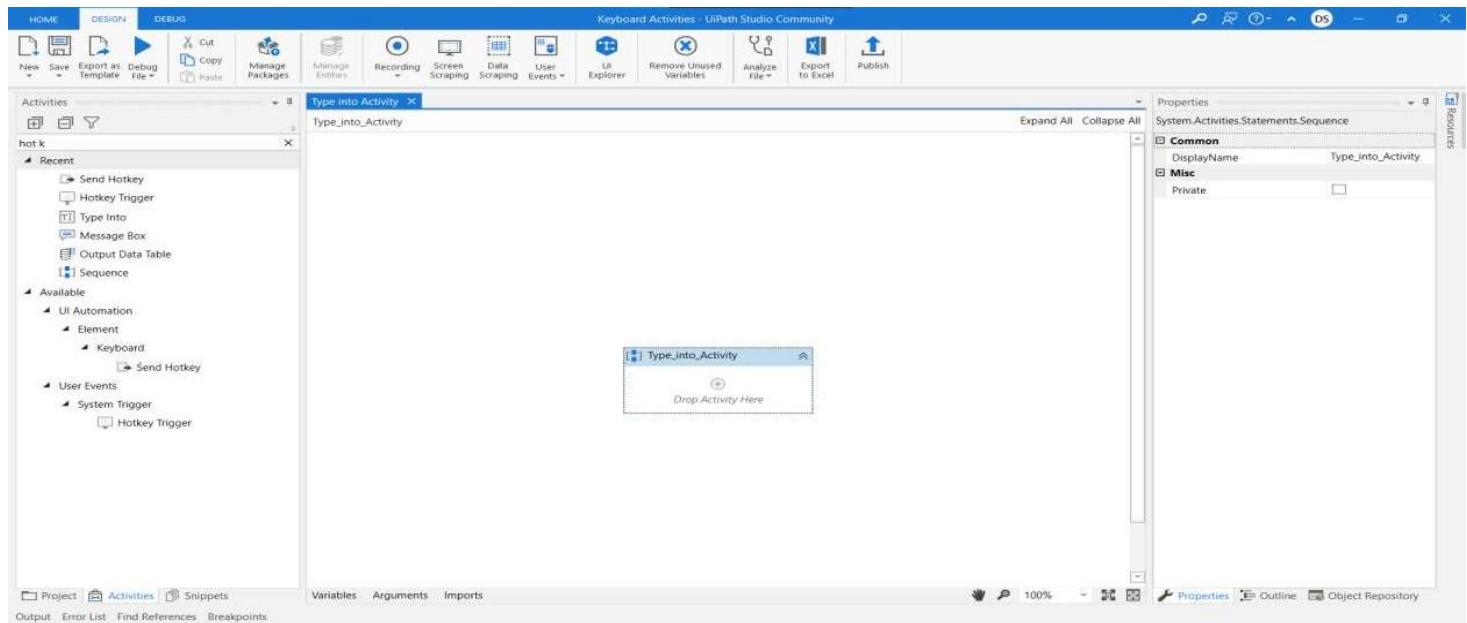


Click on Indicate on Screen and indicate the UI element you want to Hover. And Execute it.



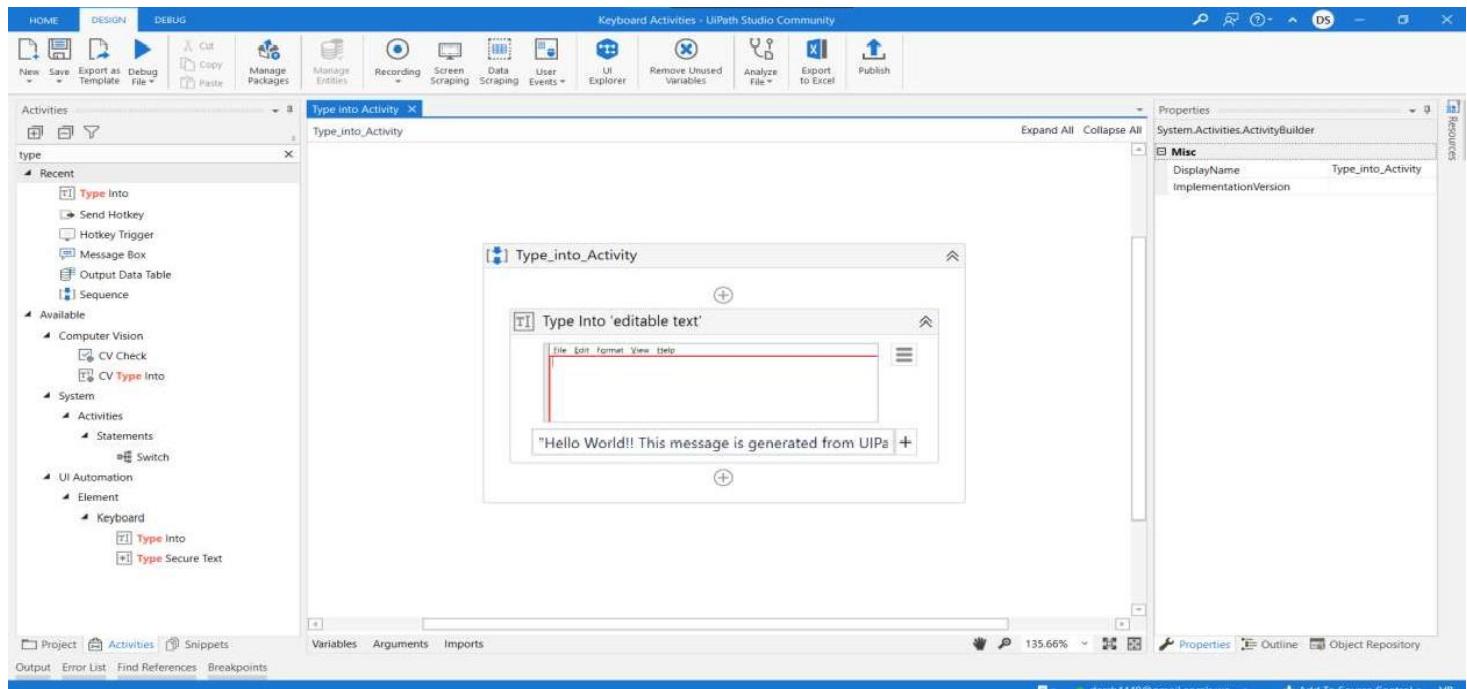
## ii Type into

Step1: Add a new sequence and name it as Type into Activity

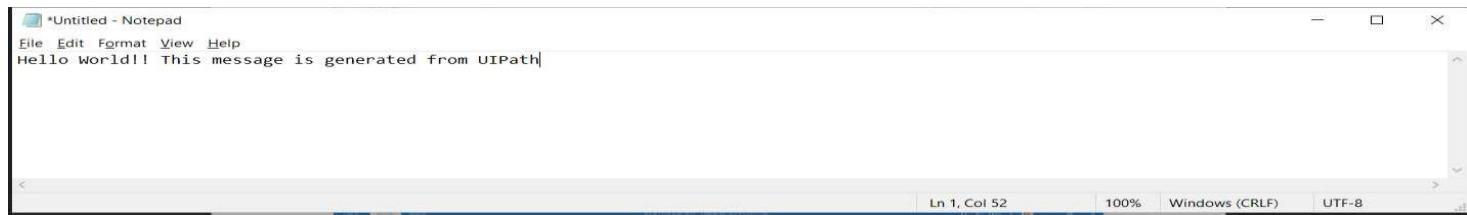


Step2: Search for Type into Activity in the activity panel and drag it inside the sequence. Step3: Click on Indicate on Screen and indicate the pointer towards notepad editor.

Step4: Type the message to be printed on the notepad in the editable text section.

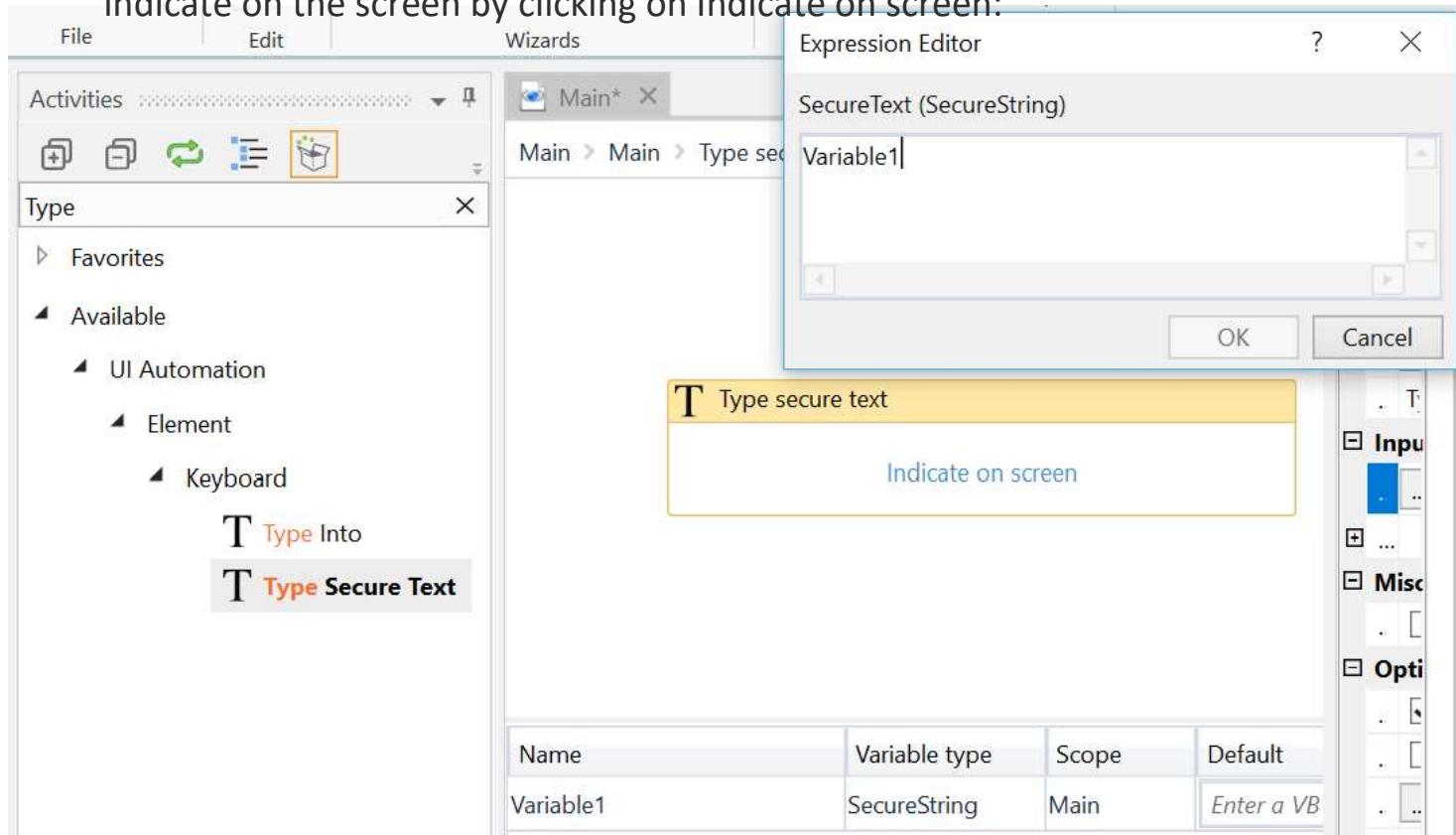


Step5: Hit the Run Button to see the results.



### iii. Type Secure text

1. Drag and drop a Flowchart on the Designer panel. Search for **Keyboard** in the search bar of the Activities panel. Drag and drop the **Type secure text** activity. Right-click on the **Type secure text** activity and select Set as Start Node.
2. Create a variable of type **SecureString**. Now, double-click on the **Type secure text** activity and specify the variable's name in the **SecureText** property of the **Type SecureText** activity. You also have to indicate on the screen by clicking on **Indicate on screen**:





**Question 8:**

a. Demonstrate the following events in UiPath:

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

b. Automate the following screen scraping methods using UiPath

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

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

- i. Mail Plugin
- ii. PDF Plugin

**a. Demonstrate the following events in UiPath:**

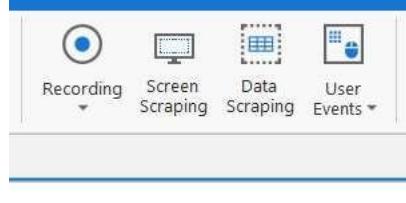
**i. Element triggering event**

**step 01**

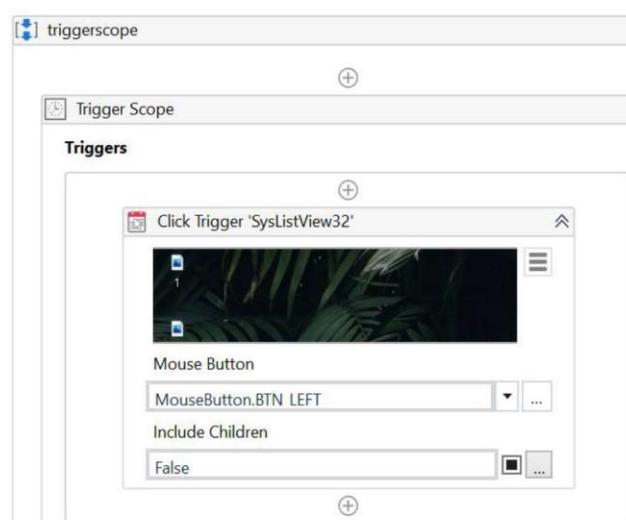
On click element

Steps:-

Click on user events select on click element

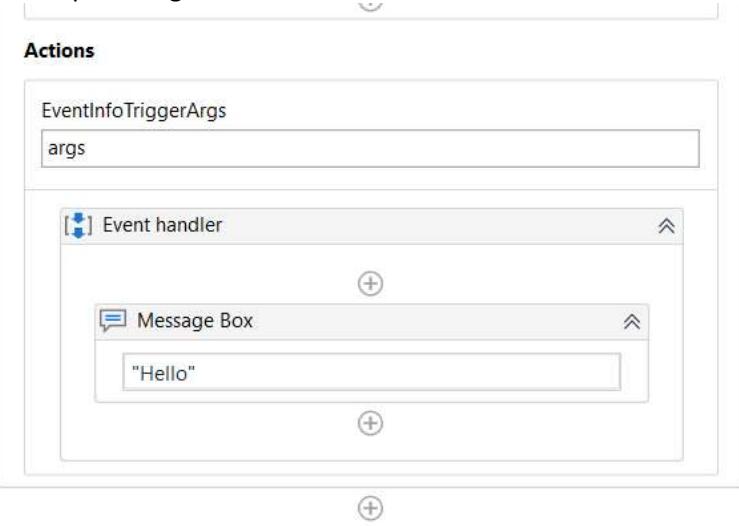


**step 02**



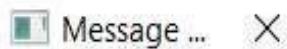
### step 03

Drag and drop message box inside event handler



### step 04

Click on run file and see the output



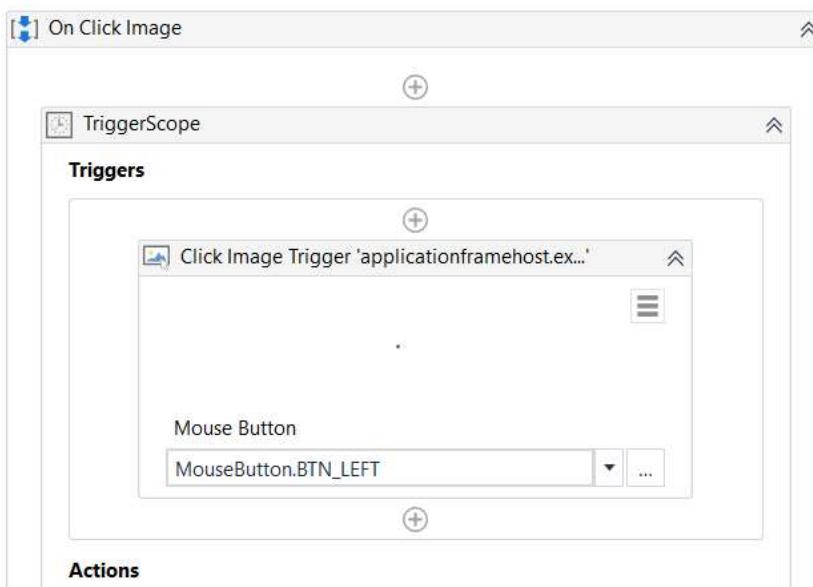
Hello

OK

## ii. Image triggering event

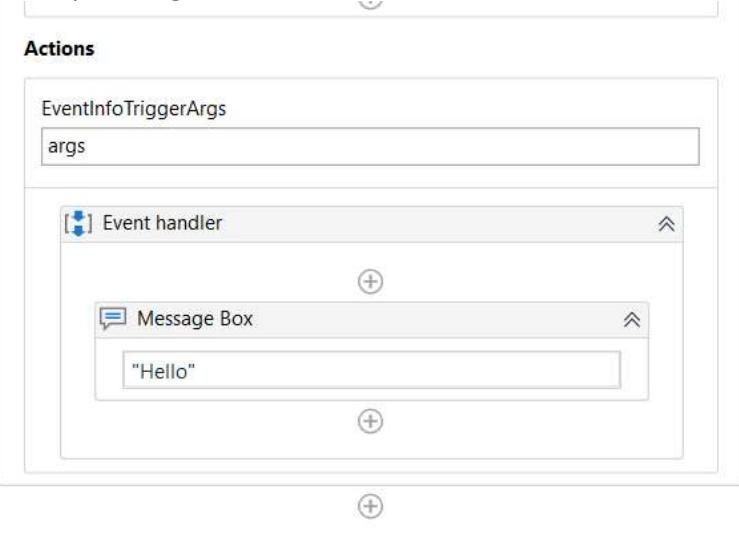
### step 01

Click on user events and under that click on click image



## step 02

Drag and drop message box inside event handler



## step 03

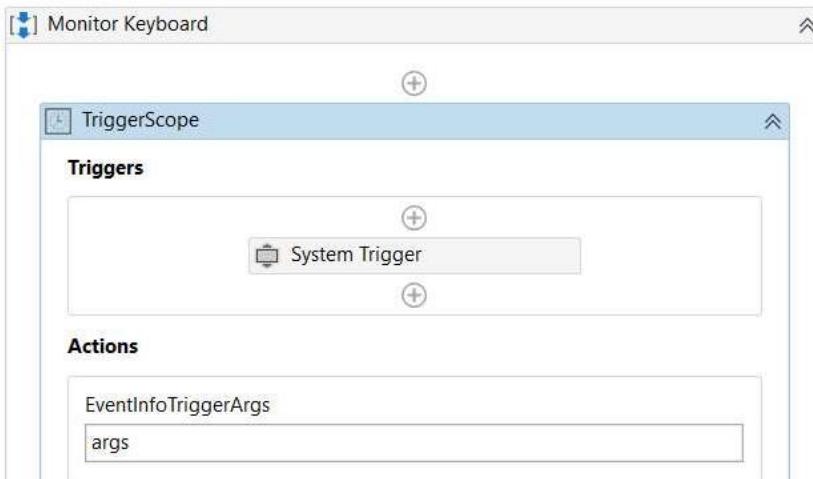
Click on run file and see the output



### iii. System Triggering Event

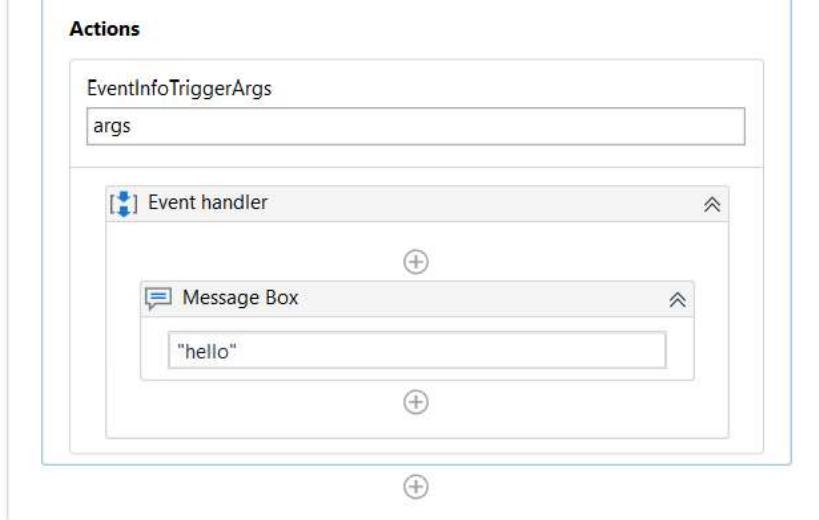
#### step 01

drag and drop a monitor event and under that drag and drop system trigger



## step 02

Drag and drop message box under event handler



## step 03

Run file and see the output—



hello

OK

## b. Automate the following screen scraping methods using UiPath

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

### Step 01

select screen scrapping from ui path studio ribbon



### Step 02

then select a file to scrap

The new era of Information has brought a lot of new opportunities in the domain of automation. As lots of new data in various formats are being stored and then mined for useful insights one such format which has created the deepest impact in overall automation domain is mining textual data to get the important stuff out of it and then use that for various analysis and decision making to various levels of automation. In this paper various methods for Information Extraction will be discussed and one of the methods in conclusion will be chosen for implementation.

### step 03

Scrape Result Preview

**Full text**  
The new era of Information has brought a lot of new opportunities in the domain of automation. As lots of new data in various formats are being stored and then mined for use insights one such format which has created the deepest impact in overall automation domain is mining textual data to get the important stuff out of it and then use that for various analysis and decision making to various levels of automation. In this paper various methods for Information Extraction will be discussed and one of the methods in conclusion will be chosen for implementation.

Indicate Anchor [UI Element](#) or [Region](#) to Scrape.

Scraping Method [FullText](#) ▾

Scrape Options

Ignore Hidden

Refresh

## step 04

### Native

#### Scrape Result Preview

The new era of Information has brought a lot of new opportunities in the domain of automation.

Indicate Anchor [UI Element](#) or [Region](#) to Scrape.

Scraping Method [Native](#) ▾

#### Scrape Options

No Formatting

Get Words Info

[Refresh](#)

## step 05

### OCR

#### Scrape Result Preview

The new era of Information has brought a lot of new opportunities in the domain of automation. As lots of new data in various formats are being stored and then mined for insights one such format which has created the deepest impact in overall automation domain is mining textual data to get the stuff out of it and then use that for various analysis and decision making at various levels of automation. In this paper various methods for Information Extraction will be discussed and one of the methods in conclusion will be chosen for implementation.

Indicate Anchor [UI Element](#) or [Region](#) to Scrape.

Scraping Method [OCR](#) ▾

#### Scrape Options

OCR Engine [Microsoft OCR](#) ▾

Languages [English \(United Kingdom\)](#) ▾

Scale

Get Words Info

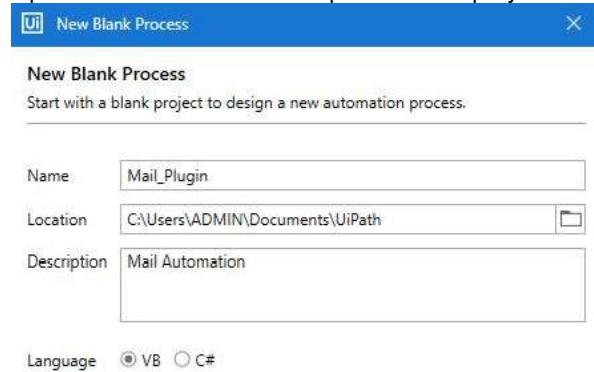
[Refresh](#)

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

### i. Mail Plugin

#### step 01

Open UiPath and create new process with project name



#### step 02

Now search mail in activities



#### step 03

Drag and Drop outlook Add your outlook email address activity



## step 04

Add your outlook email address

Properties

UiPath.Mail.Outlook.Activities.GetOutlookMailMessages

**Common**

DisplayName Get Outlook Mail Messages

TimeoutMS *Specifies the amount of time (in milliseconds) to wait for the activity to complete.*

**Input**

Account "ramkrishna.sarvankar20@vsit.edu.in"

MailFolder "Inbox"

**Misc**

Private

**Options**

Filter *A string used as a filter for the messages to be retrieved.*

FilterByMessageIds *Returns only those mail messages with the specified message ID.*

MarkAsRead

OnlyUnreadMessages

OrderByDate NewestFirst

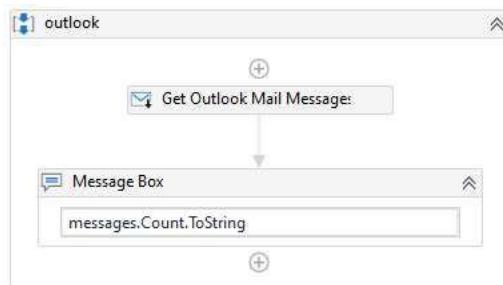
OrderType 5

**Output**

Messages msg

## step 05

Search for message box and drag it to the body



## step 06

Now click on the Run and see the output

## step 07



## **ii. PDF Plugin**

### **step 01**

**Open the Read PDF With OCR sequence container by double-clicking on it.**

### **step 02**

**Drag a Read PDF With OCR activity inside the sequence.**

- Add the value "Invoice02.pdf" in the FileName field.
- In the Properties panel, add the value 1 in the DegreeOfParallelism field.

### **step 03**

**Drag the Google OCR engine inside the Read PDF With OCR activity.**

- In the Properties panel, add the variable extractedTextTesseract in the Text field.

### **step 04**

**Drag another Read PDF With OCR activity and place it below the previous one.**

- Add the value "Invoice02.pdf" in the FileName field.
- In the Properties panel, add the value 1 in the DegreeOfParallelism field.

### **step 05**

**Drag the Microsoft OCR engine inside the Read PDF With OCR activity.**

- In the Properties panel add the variable extractedTextMicrosoft in the Text field.

### **step 06**

**Drag a Write Text File activity below the Read PDF With OCR activity.**

- Add the value "OCRMicrosoft.txt" in the FileName field.
- Add the variable extractedTextMicrosoft in the Text field.

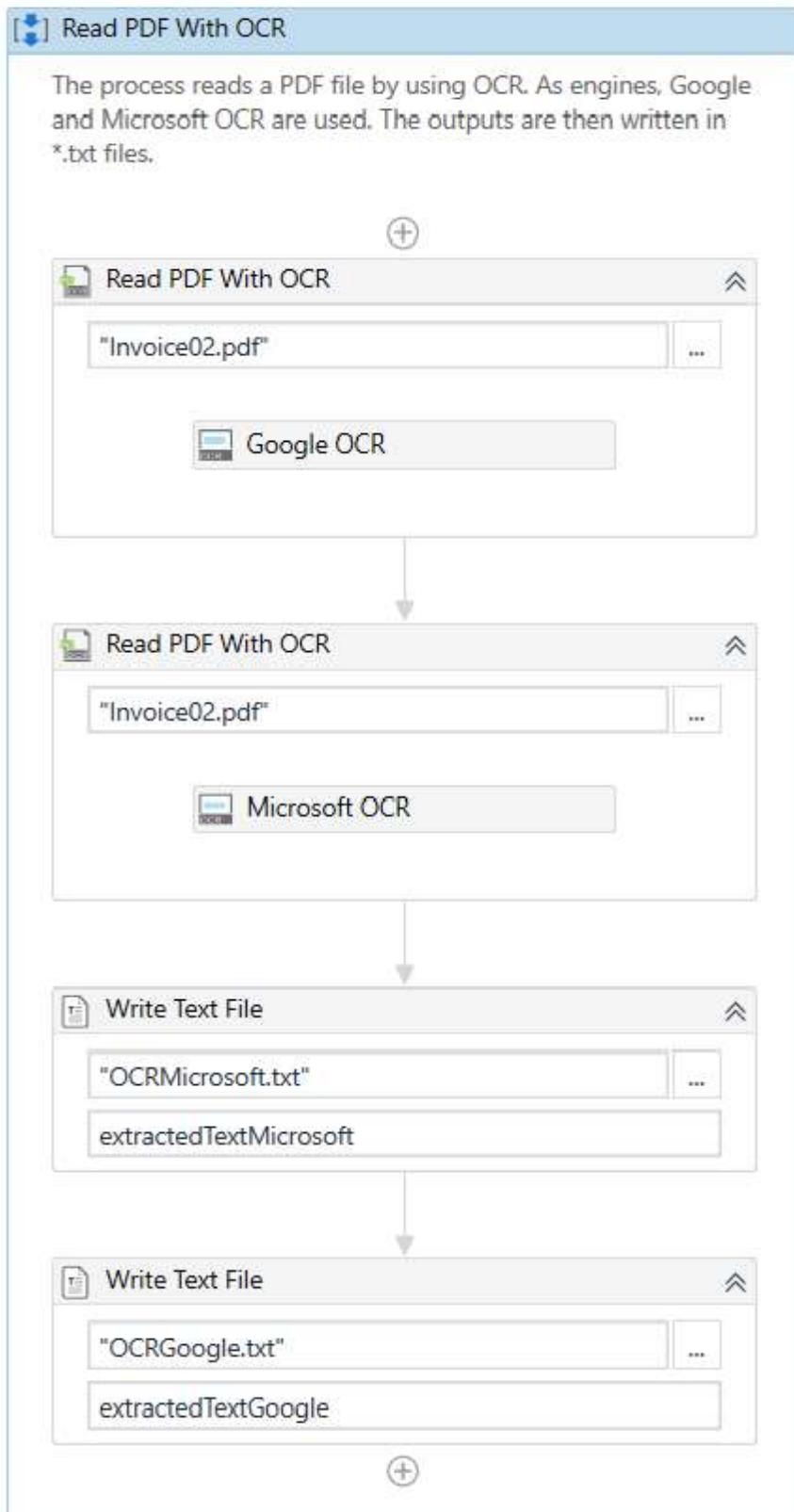
### **step 07**

**Drag a Write Text File activity below the previous Write Text File activity.**

- Add the value "OCRTesseract.txt" in the FileName field.
- Add the variable extractedTextTesseract in the Text field.

**This is how the Read PDF with OCR sequence should look:**

## step 08



Run the process. The robot extracts the data using the specified process and saves the output in a .txtfile.

### Question 9:

- a. Automate the process of send mail event (on any email).
- b. Automate the process of launching an assistant bot on a keyboard event.

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

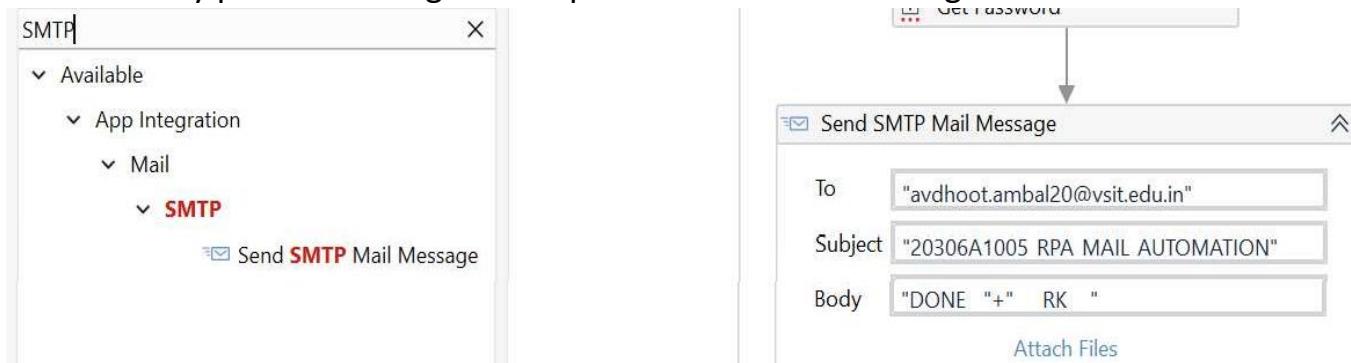
### Step 01

- Open UiPath Studio
- Click on Open main WorkFlow.
- Create New Sequence



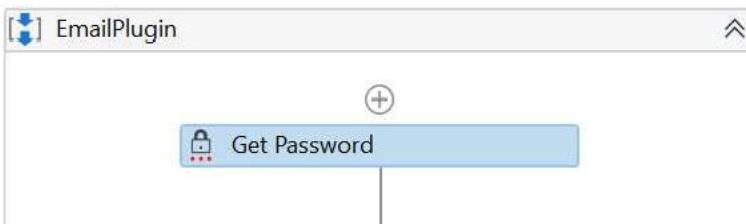
### Step 02

Go to activity panel and drag and drop Send SMTP mail message



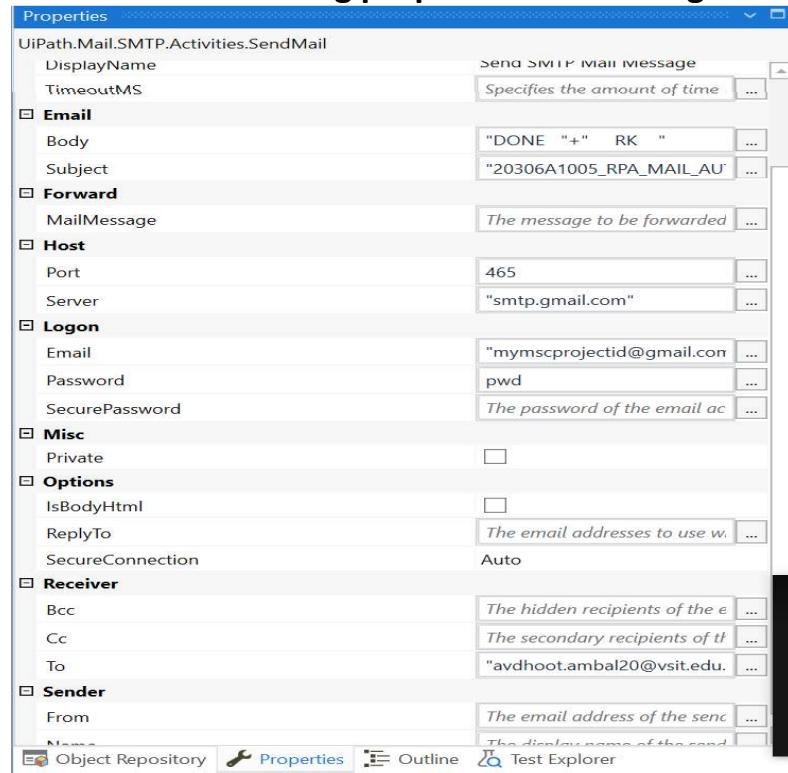
### Step 03

Now drag and drop get password activity and enter your email id password

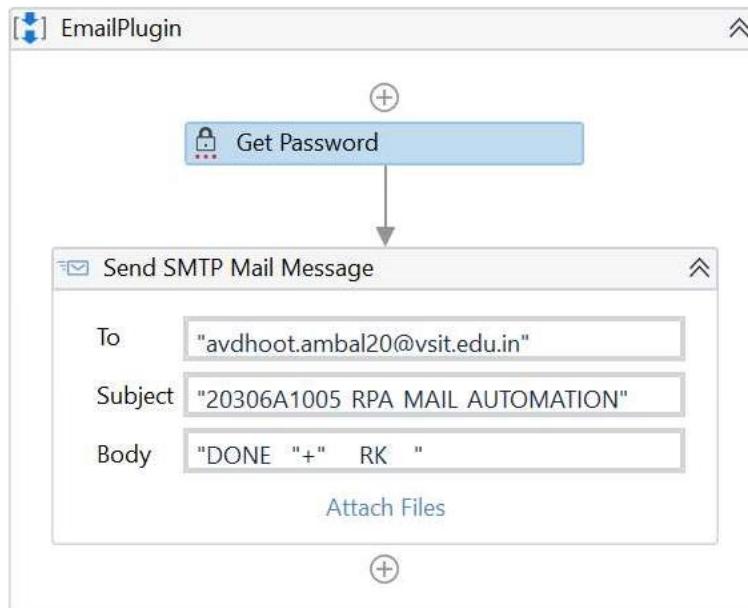


## Step 04

Now set the following properties for sending an SMTP mail



## Step 05



## Step 06

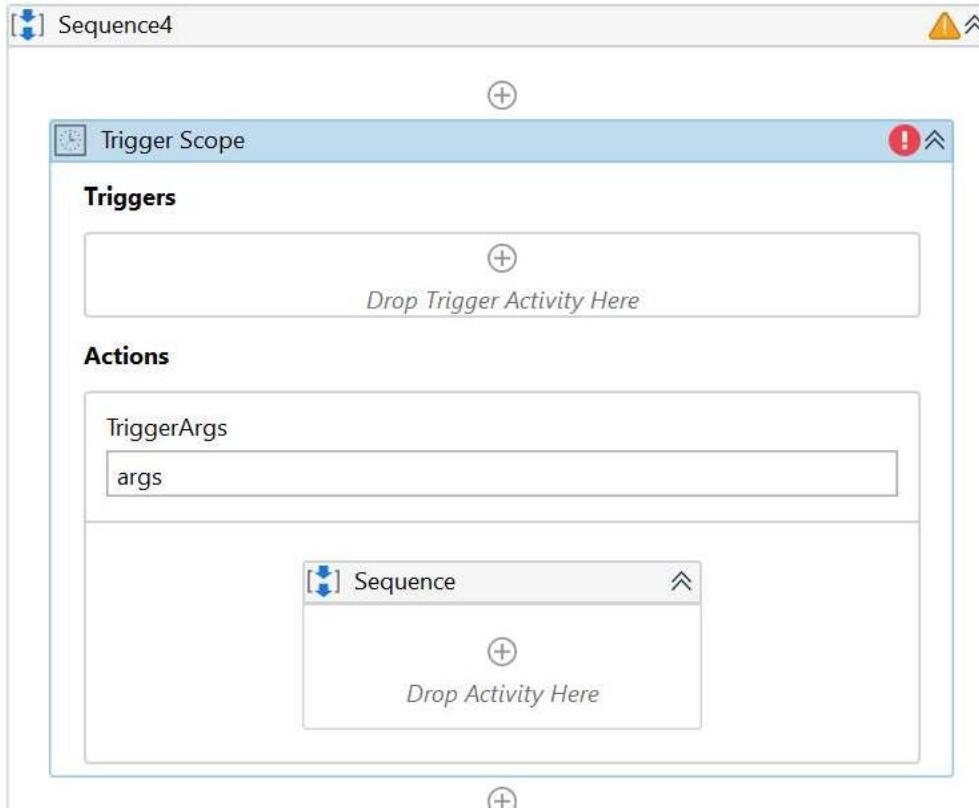
Now run the program to see the output

A screenshot of a Gmail inbox interface. On the left, there's a sidebar with icons for Compose, Inbox, Starred, Snoozed, Sent (which is highlighted with a grey background), and Drafts. The main area shows an email message with the subject "20306A1005\_RPA\_MAIL\_AUTOMATION". The recipient is listed as "mymscprojectid@gmail.com" with "to avdhoot.ambal20" below it. There are status indicators "DONE" and "RK" at the bottom of the message. The top right features standard Gmail navigation icons like back, forward, and search.

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

### Step 01

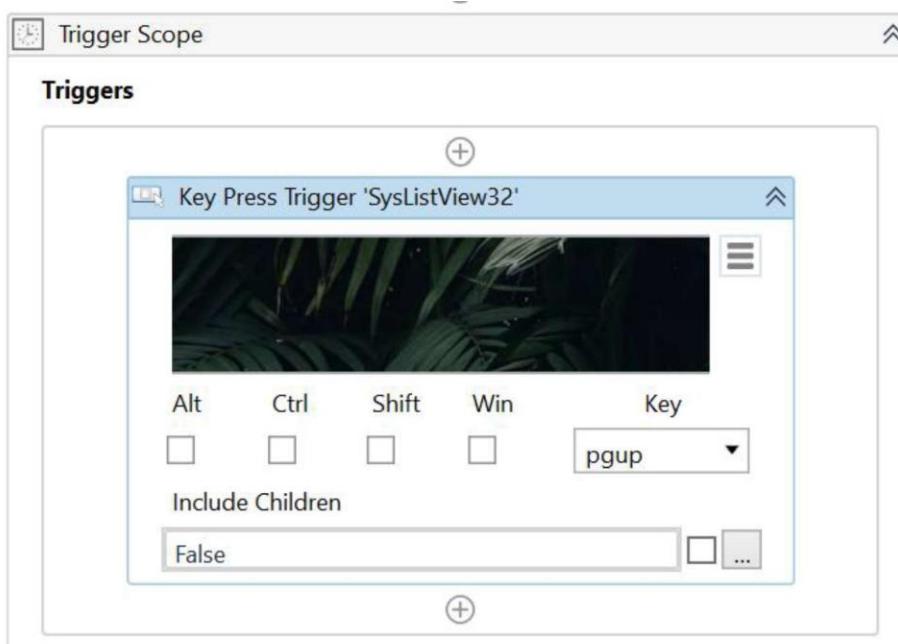
Create New Sequence and drag and drop Trigger Scope Activity



### Step 02

-Inside triggers drag and drop key press trigger and select a area to to trigger the key using indicate on screen option

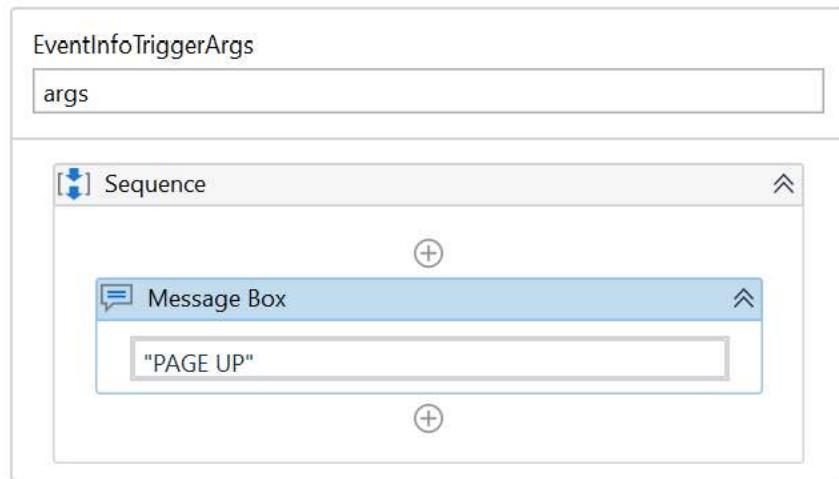
-from key drop down option select pageup key



## Step 03

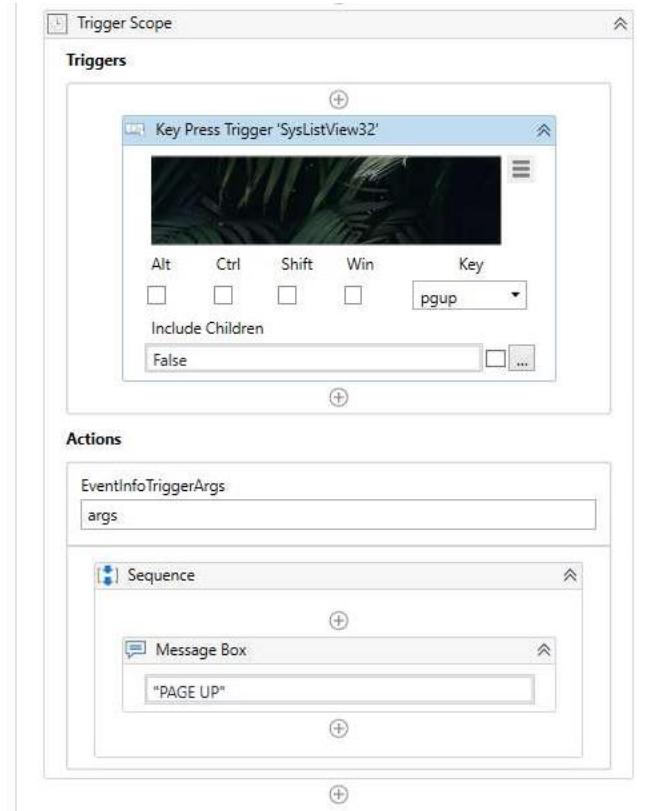
### Inside action part drag and drop message box activity

#### Actions



## Step 04

### Run the program to see the outcome



## C. Demonstrate the Exception handing in UiPath.

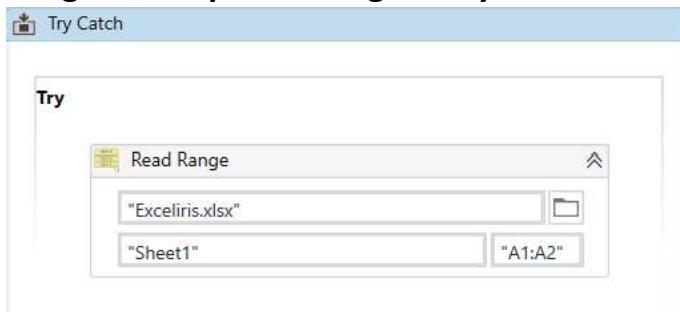
### Step 01

- Open UiPath Studio
- Click on Open main WorkFlow.
- Create New Sequence



### Step 02

#### Drag and drop read range in try block



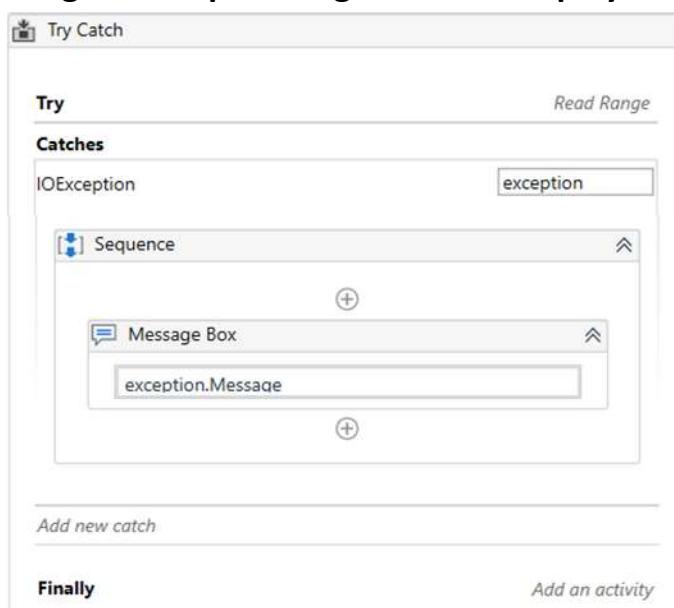
### Step 03

#### Then In Catches block select IOException



### Step 04

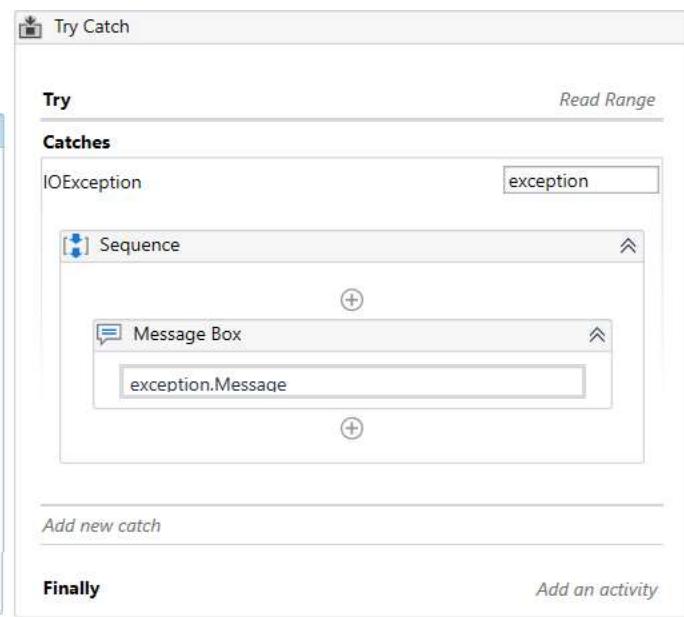
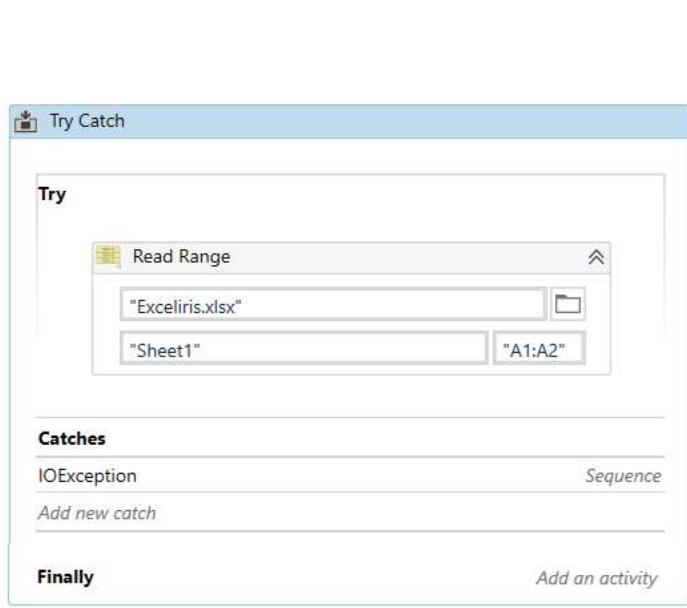
#### Drag and drop message Box and display an Input output error that you want



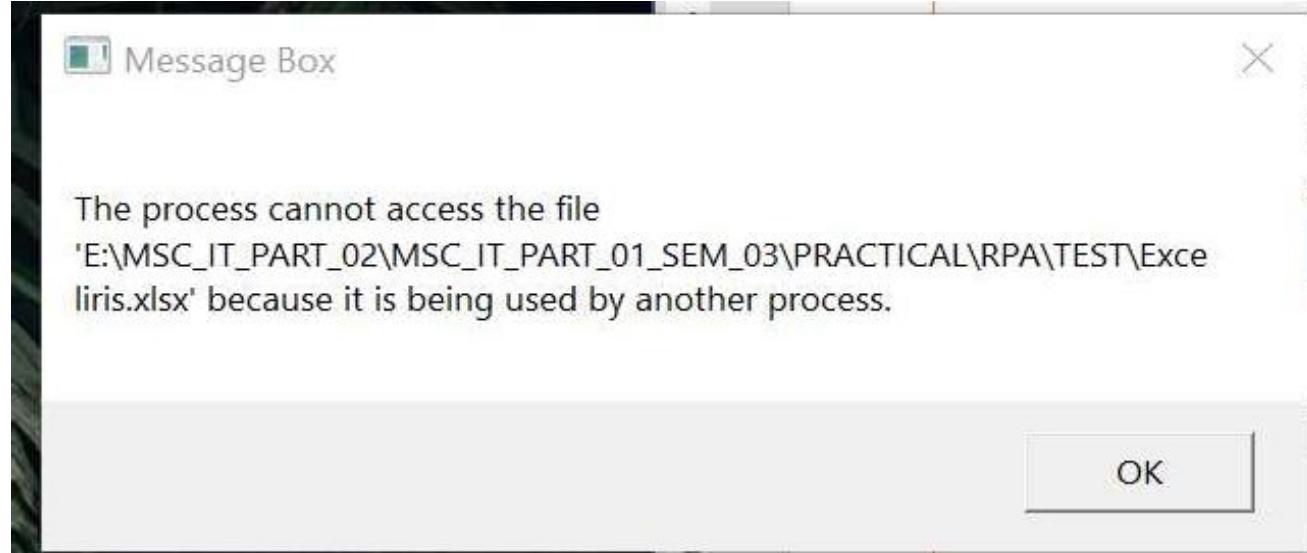
## Step 05

Run the program to see the output

## Step 06



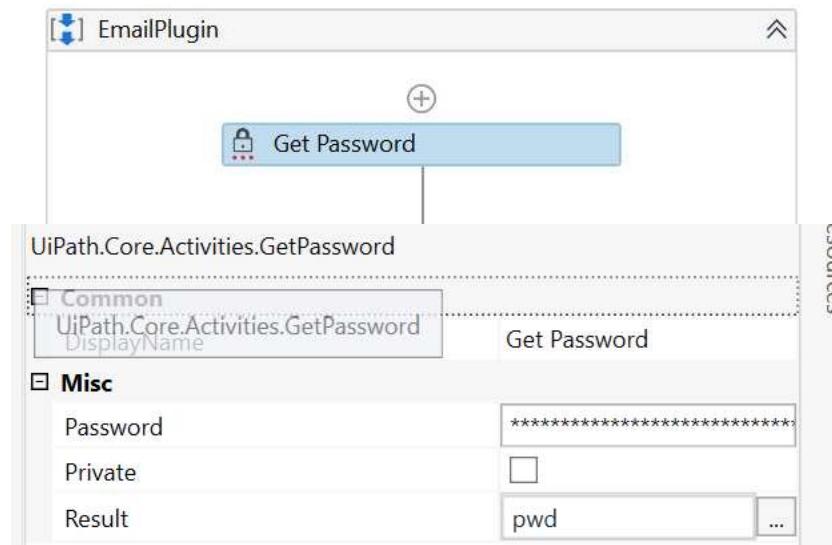
## Step 07



**d. Automate the process of send mail event (on any email). With attachment**

**step 01**

**drag and drop get password activity and enter your password**



**step 02**

**drag and drop read range activity to read the excel file where you have stored your data**

The screenshot shows the UiPath interface with a 'Read Range' activity selected. The properties pane for the 'Read Range' activity shows the following settings:

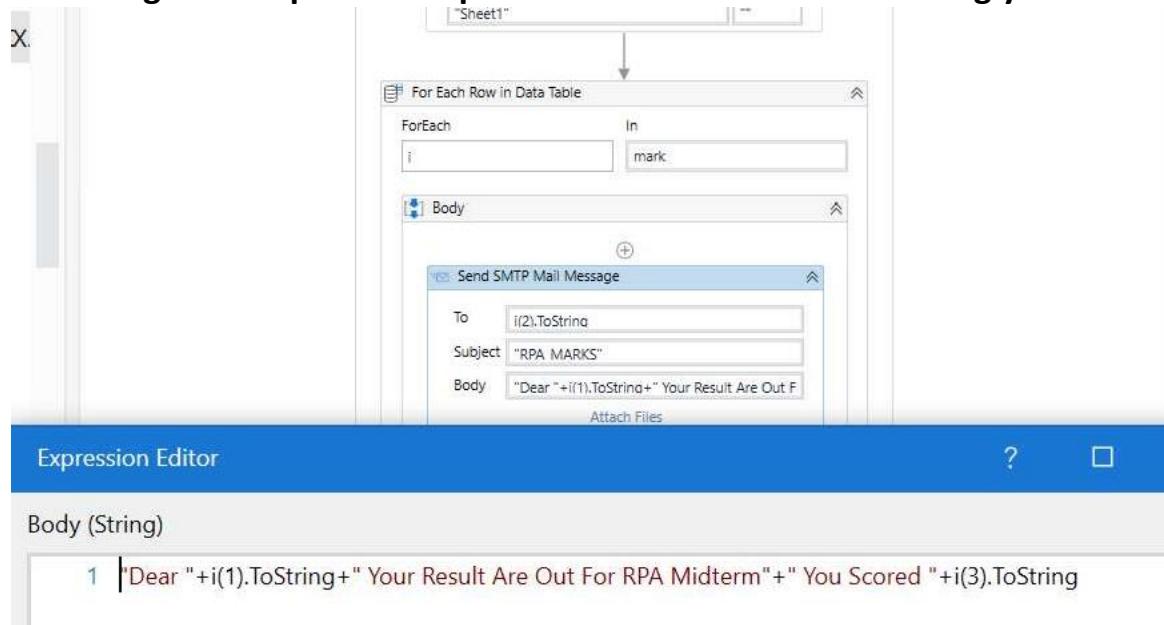
- File: "C:\Users\Acer\Desktop\RPA\_MARK.xlsx"
- Sheet: "Sheet1"

Below the activity, a preview of an Excel spreadsheet is shown, displaying the following data:

	A	B	C	D	E
1	RollNo	Name	Email	RPA_Marks	
2	1	avdhoot	avdhoot.ambal20@vsit.edu.in	29	
3	2	sanjeela	sanjeela.sagar@vsit.edu.in	30	
4					

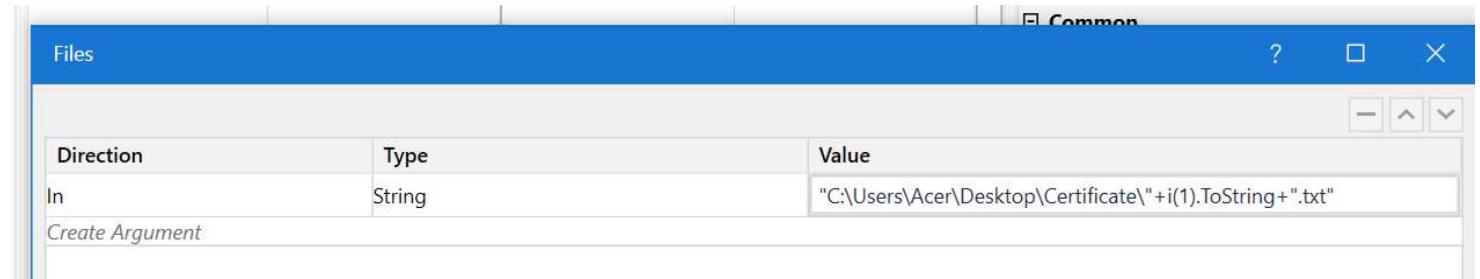
### step 03

drag and drop foe each loop to iterate through our excel file  
then drag and drop send smtp mail and fill the values accordingly



### step 04

to send email with attachment add path where you have stored your attachment by clicking attach files

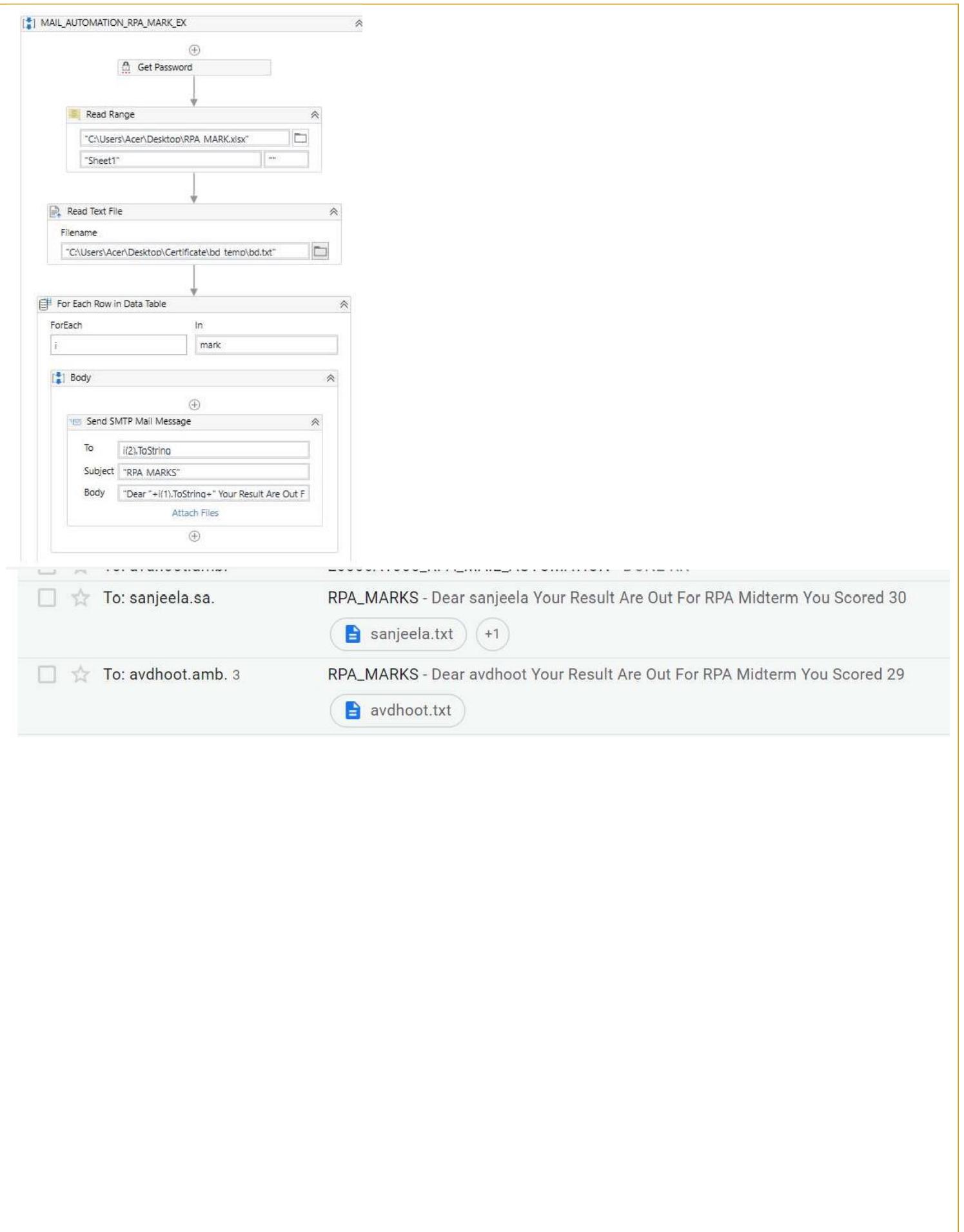


This PC > Desktop > Certificate

Name	Date modified	Type	Size
avdhoot	22-10-2021 10:41 AM	Text Document	1 KB
sanjeela	22-10-2021 10:41 AM	Text Document	1 KB

### step 05

Now Run the program to see the outcome

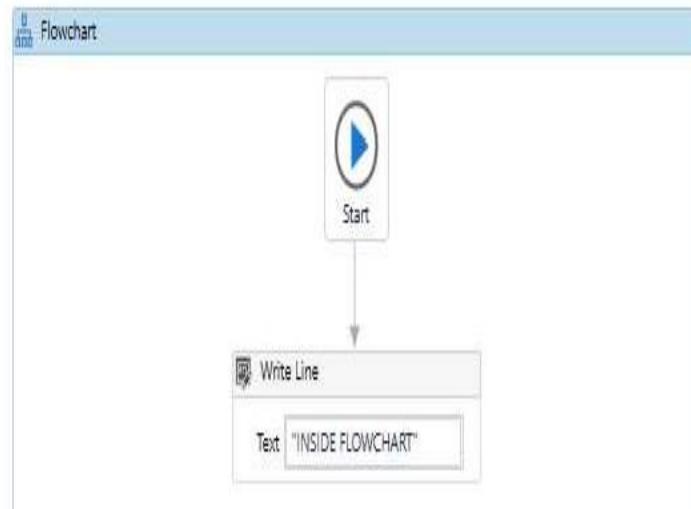
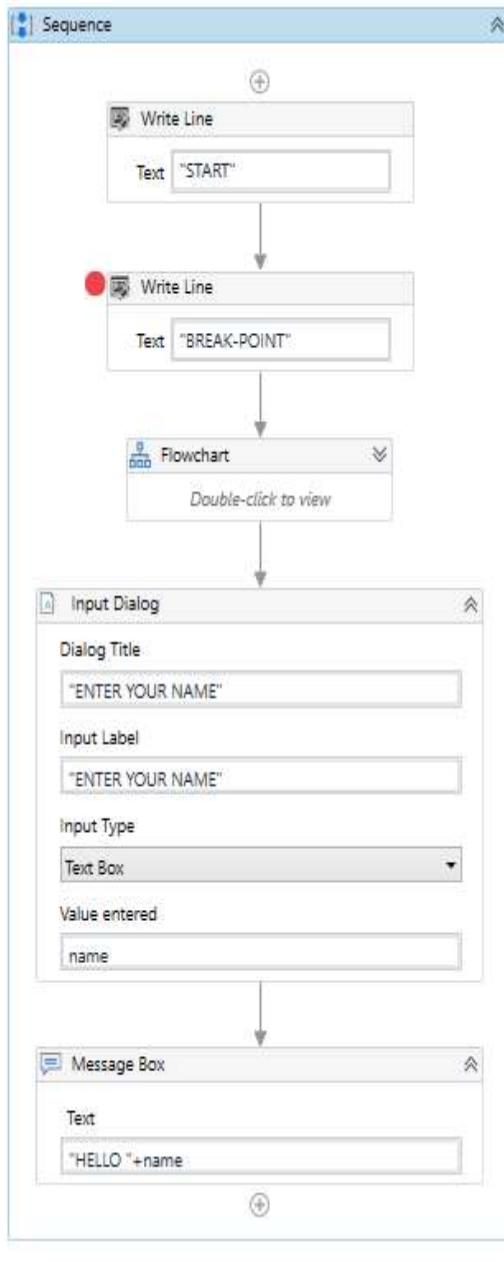


### Question 10:

UiPath automation Debugging

- Step into
- Step over
- Step out

CREATE THE FOLLOWING FLOWCHART



## Step Into:

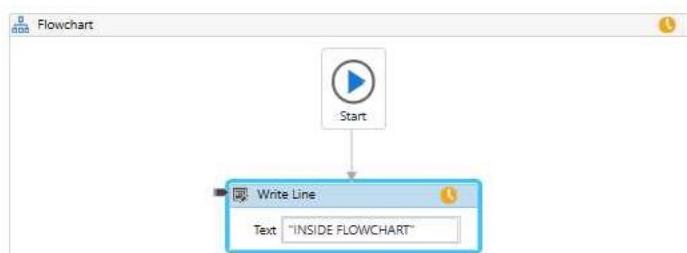
The Step Into is used for debugging one activity at a time. When this action is triggered, the debugger opens and highlights the activity before it is executed. The Step Into will execute all the activities present in an activity(Container).

When Step Into is used with Invoke Workflow File activities, the workflow is opened in a new tab in read-only mode, and each activity is executed one by one. The keyboard shortcut for Step Into is F11.



Main > Sequence > Flowchart

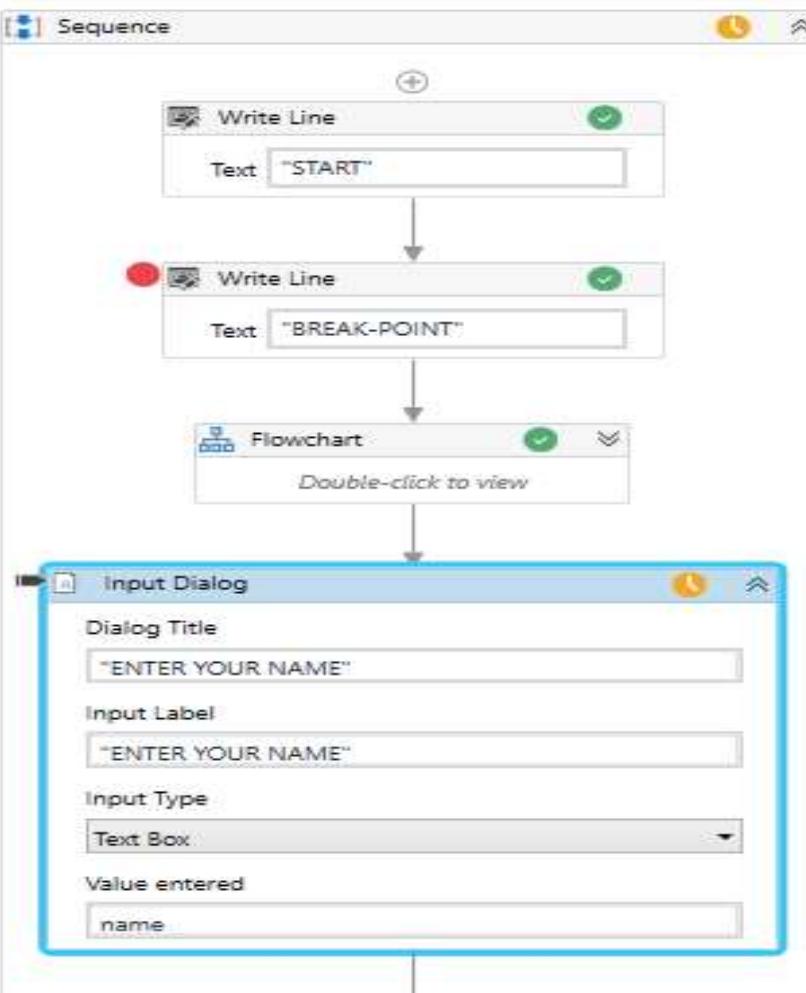
Ex



## Step Over:

Unlike the Step Into action, The Step-Over does not open the current container. When Step Over is used, the action debugs the next activity, highlighting containers such as flowcharts, sequences, or Invoke Workflow File activities without opening them.

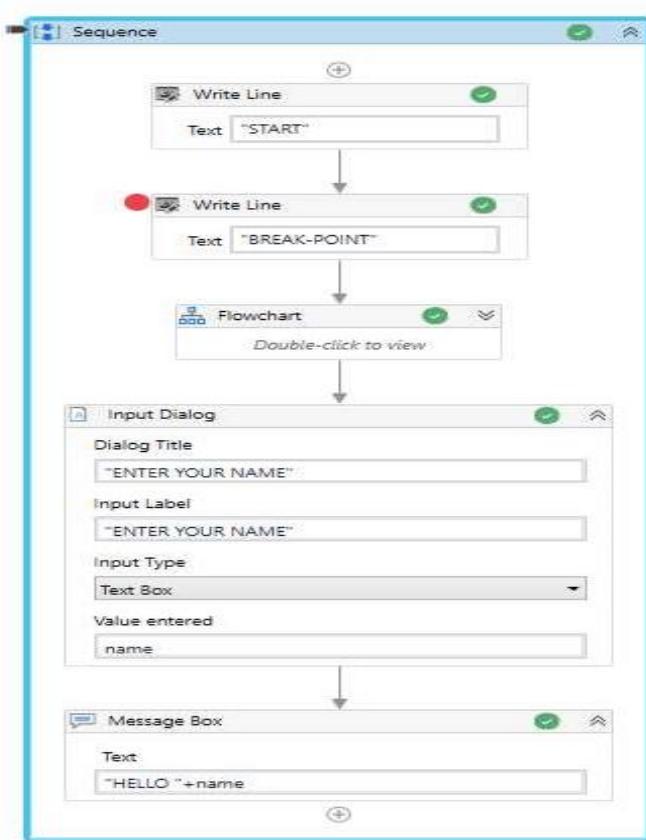
This action comes in handy for skipping analysis of large containers, which are unlikely to trigger any issues during execution. Step Over is available using the F10 keyboard shortcut.



## Step Out:

As the name suggests, The Step Out is used for stepping out and pausing the execution at the level of the current container. Step Out completes the execution of activities in the current container, before pausing the debugging.

This option works well with nested sequences. Step Out is available using the Shift + F11 keyboard shortcut



**click on Log activities, you can see the log files as shown below**

AppData > Local > UiPath > Logs		Date modified	Type
ts	2021-10-29_VisionHost	29-10-2021 11:40 AM	JSON Source
nts	2021-10-29_VisionHost	29-10-2021 11:40 AM	Text Docume
ds	2021-11-10_Execution	10-11-2021 09:27 AM	Text Docume
	2021-11-10_UiPath.Studio.Analyzer	10-11-2021 09:07 AM	Text Docume
	2021-11-10_UiPath.Studio.DataBaseServer	10-11-2021 09:07 AM	Text Docume
	2021-11-10_UiPath.Studio	10-11-2021 09:56 AM	Text Docume
	2021-11-10_UiPath.Studio.Project	10-11-2021 09:22 AM	Text Docume
	2021-11-12_Execution	12-11-2021 11:22 AM	Text Docume
	2021-11-12_UiPath.Studio.Analyzer	12-11-2021 10:49 AM	Text Docume
ENT (D:)	2021-11-12_UiPath.Studio.DataBaseServer	12-11-2021 10:49 AM	Text Docume
)	2021-11-12_UiPath.Studio	12-11-2021 10:49 AM	Text Docume
MS (H:)	2021-11-12_UiPath.Studio.Project	12-11-2021 10:55 AM	Text Docume
(P:)	install_error_log	20-10-2021 08:37 AM	Text Docume

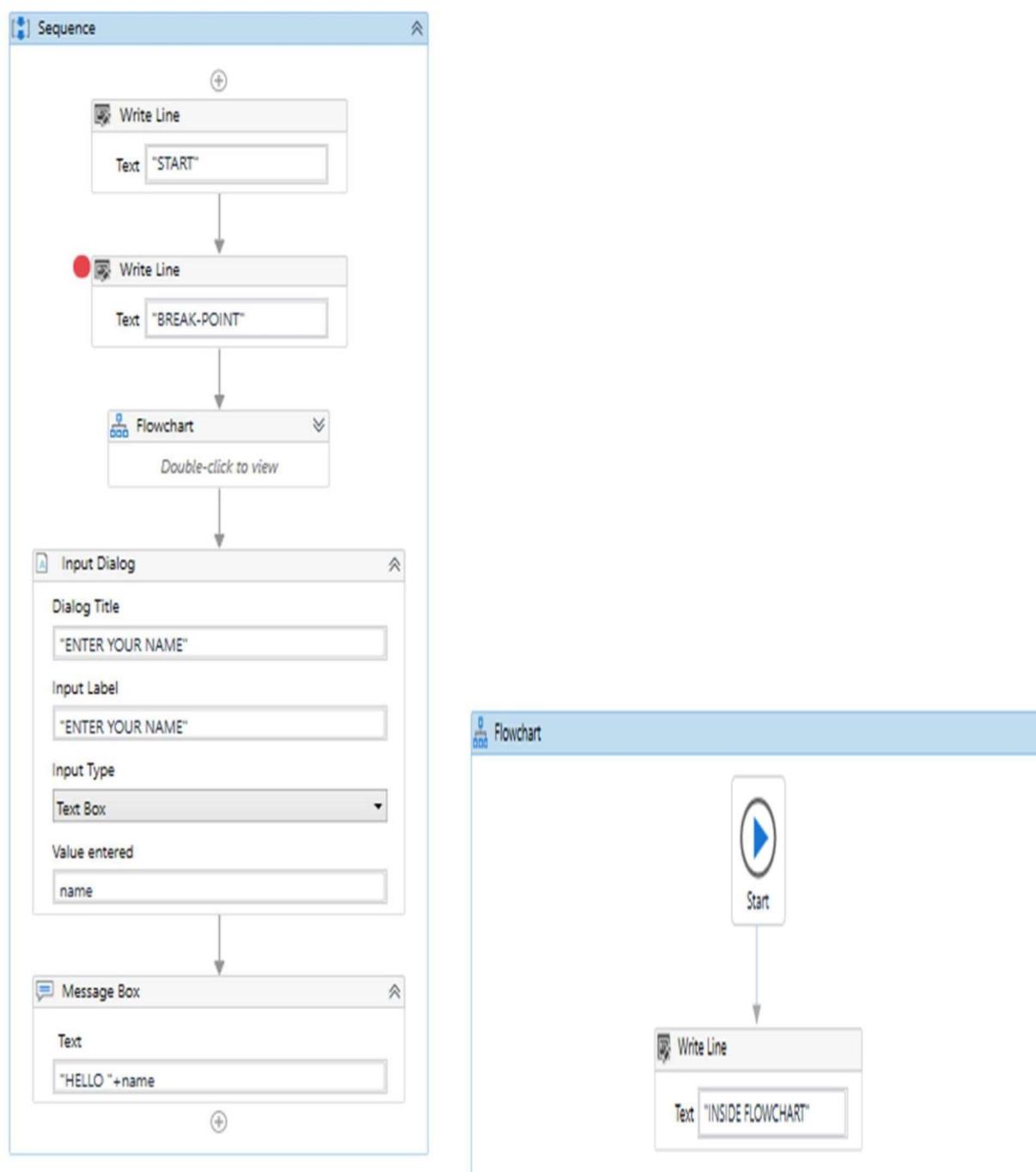


## Question 10:

### UiPath automation Debugging

- Step into
- Step over
- Step out

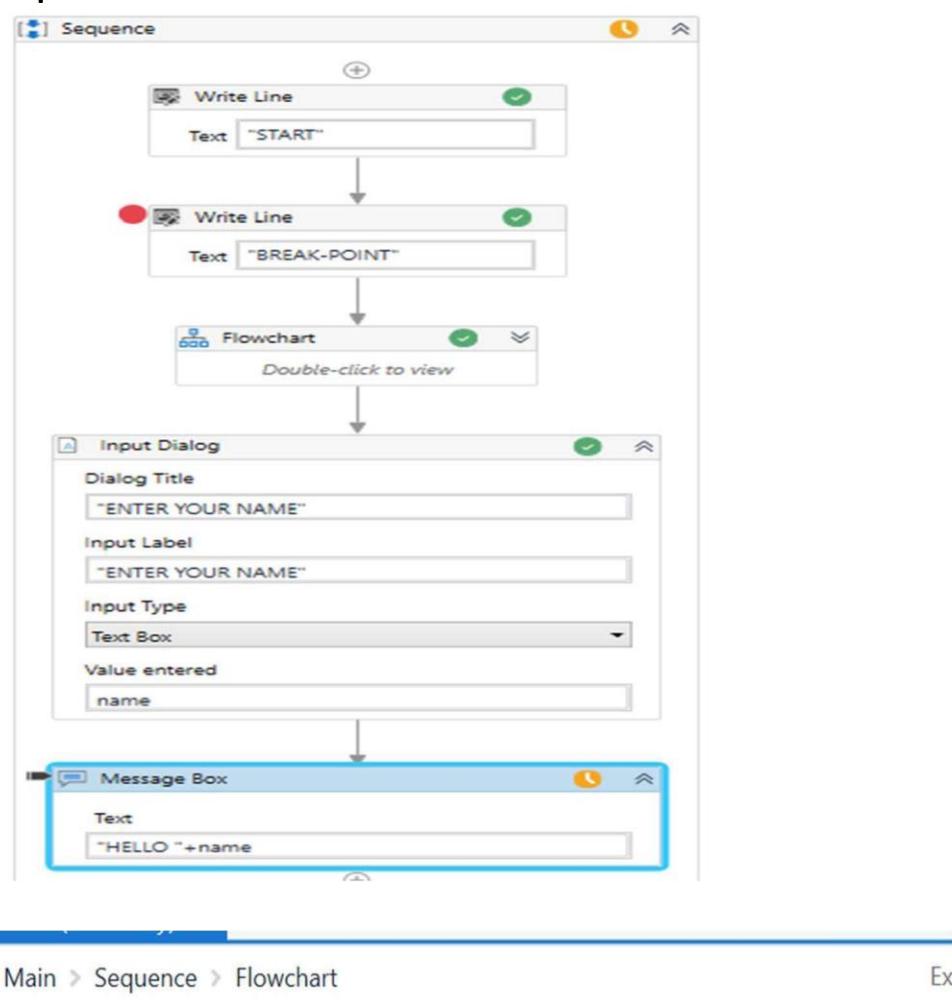
Create the following flowchart



## Step Into:

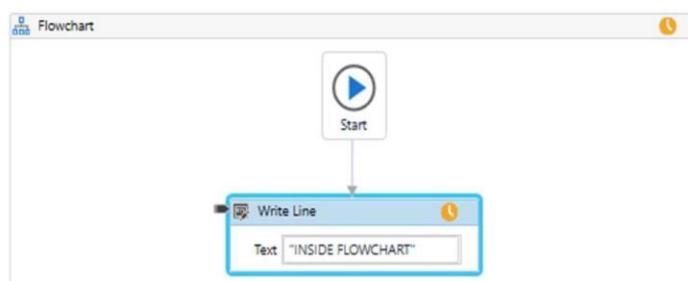
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Main > Sequence > Flowchart

Ex

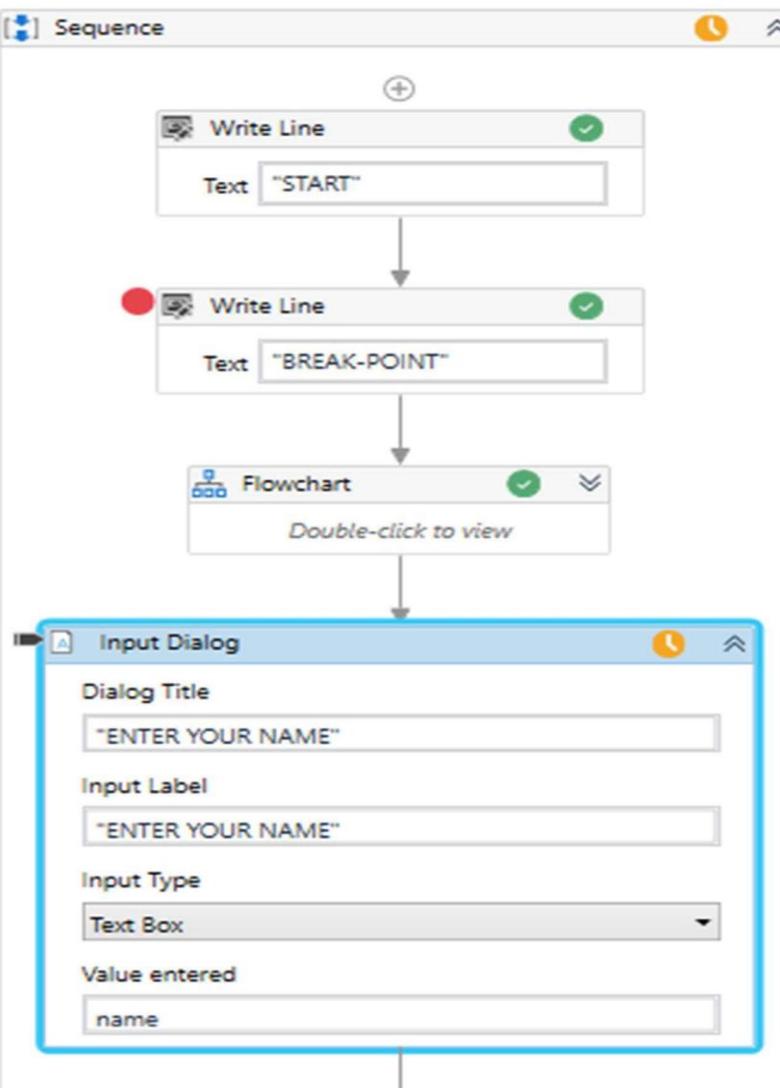


|

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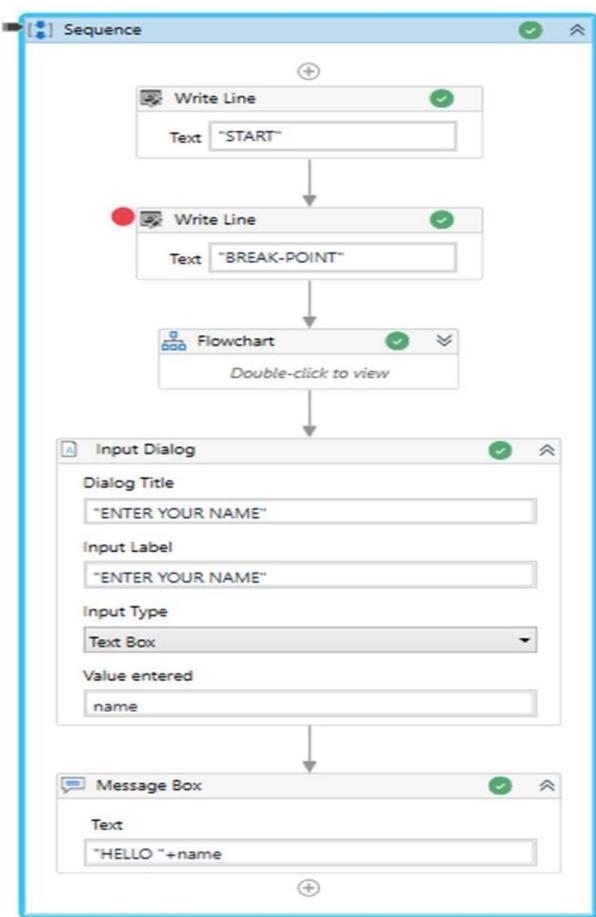
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	2021-11-12_UiPath.Studio	12-11-2021 10:49 AM	Text Docume
	2021-11-12_UiPath.Studio.Project	12-11-2021 10:55 AM	Text Docume
	install_error_log	20-10-2021 08:37 AM	Text Docume