

# Practical No: 1

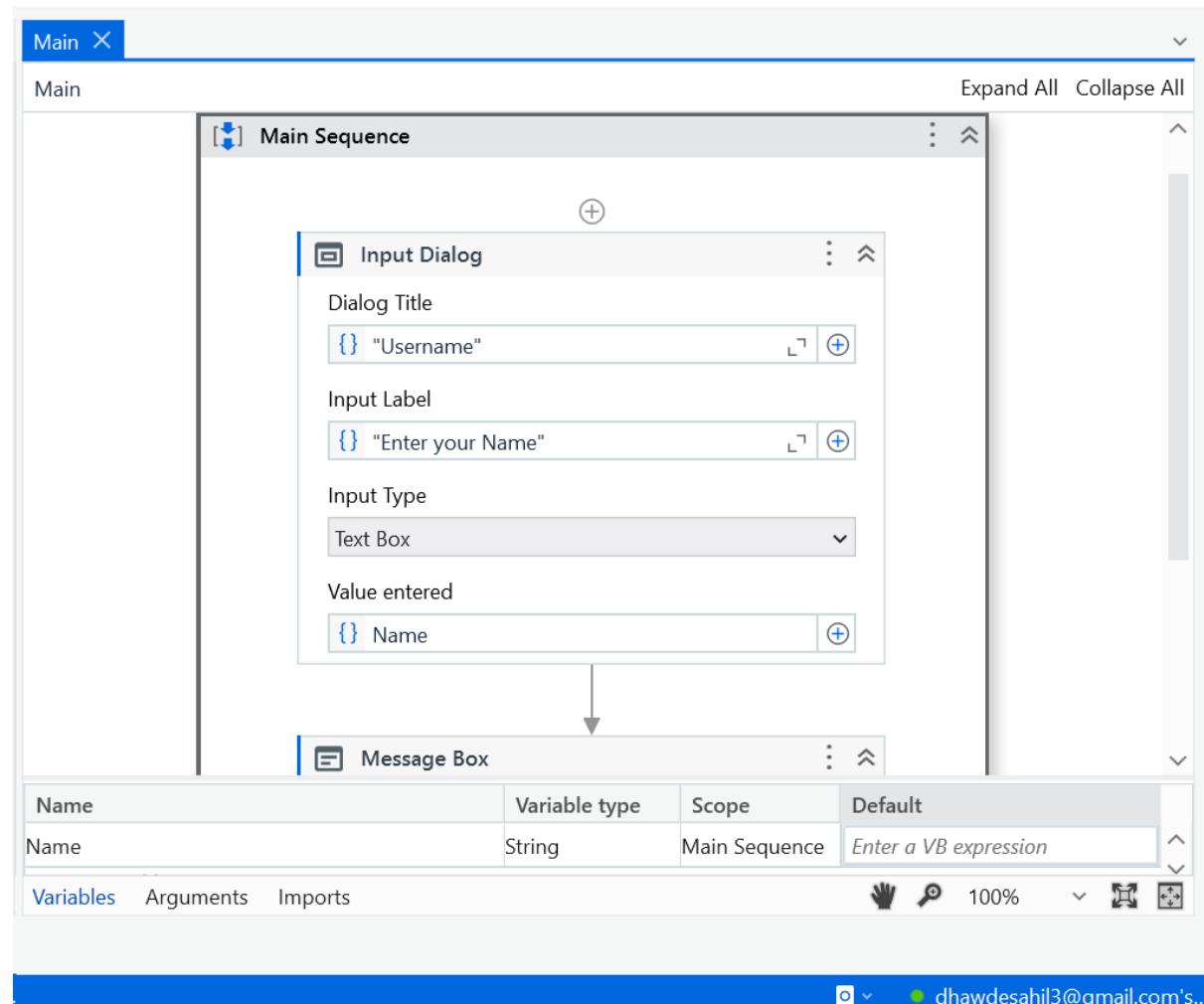
**Aim:** Implement the following:

## A. Create a simple sequence-based project.

**Steps:**

1. Open Project.
2. Select Sequence activity, double click it.
3. Select from activities panel Input dialog and configure it
4. Create a variable Name (string) to hold the output.
5. Select from activities panel Message Box & configure by tying “Your Name is’+ Name.
6. Run the project.

**Process & Output:**



Message Box

Text \*

{ } "Your Name is " + Name

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

Variables Arguments Imports

100%

dhawdesahil3@gmail.com's...

Message Box

Username

Enter your Name

Sahil

Ok

Name	Scope	Default
Name	Main Sequence	Enter a VB expression

Variables Arguments Imports

100%

dhawdesahil3@gmail.com's...

Message Box

Text \*

{ } "Your Name is "

Message Box

Your Name is Sahil

OK

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

Imports

100%

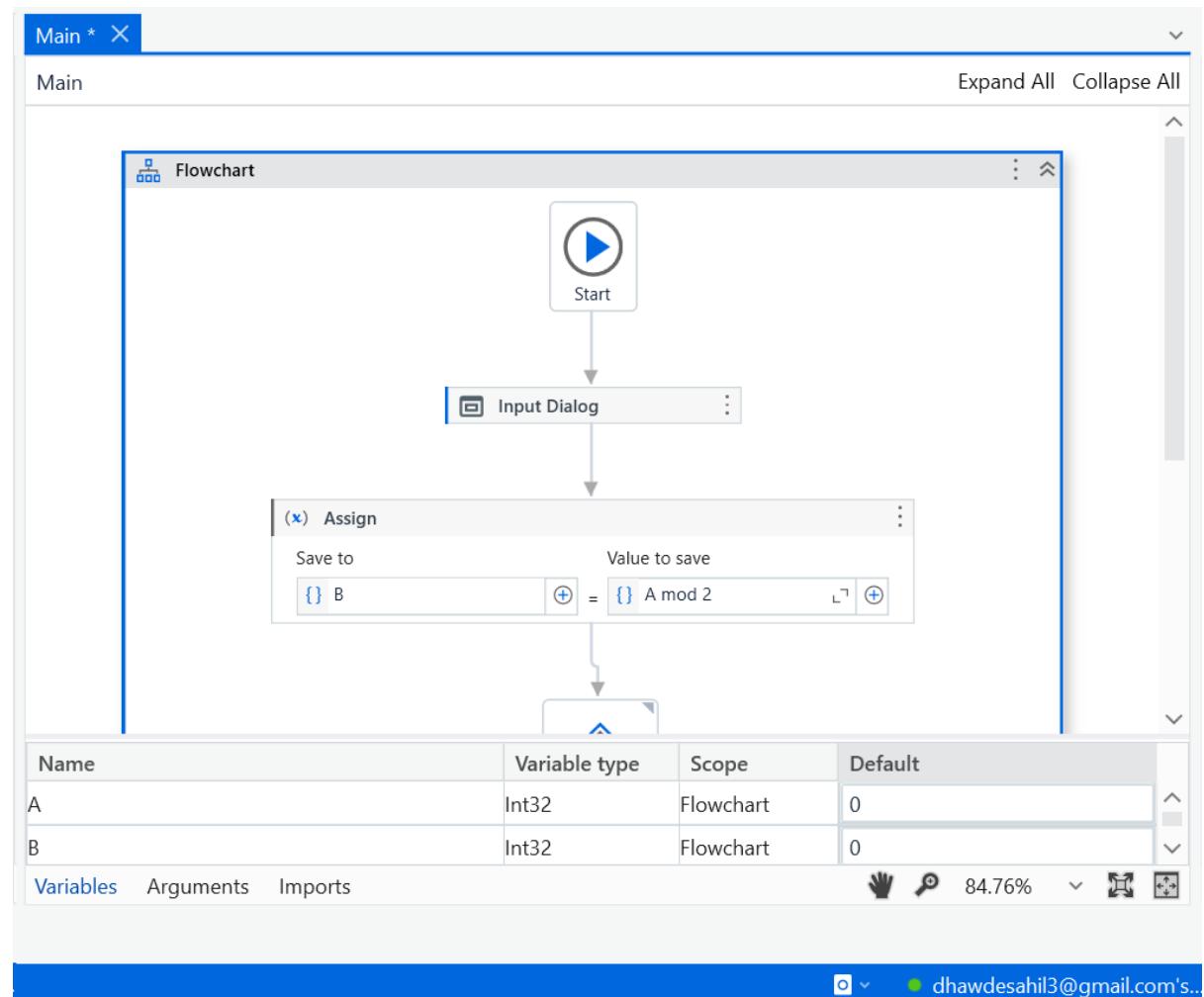
dhawdesahil3@gmail.com's...

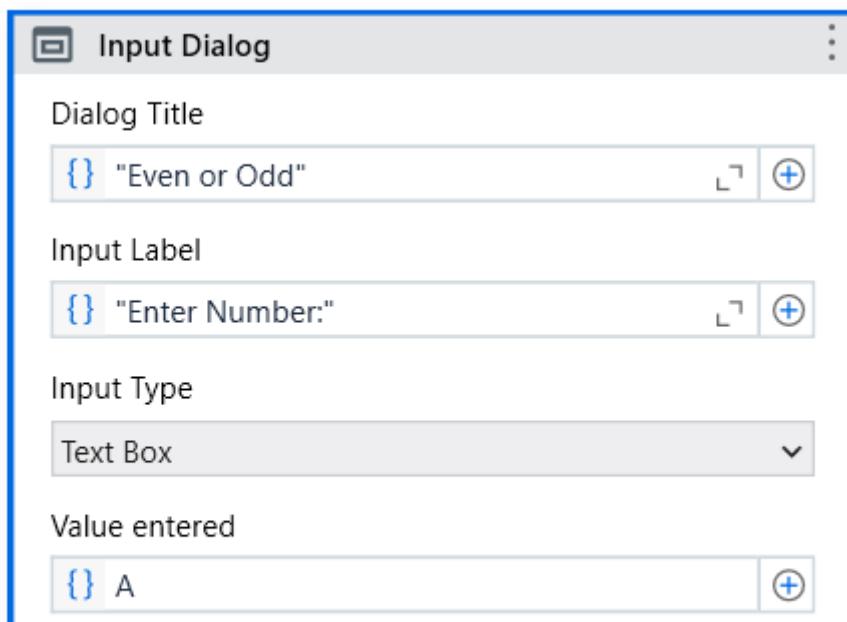
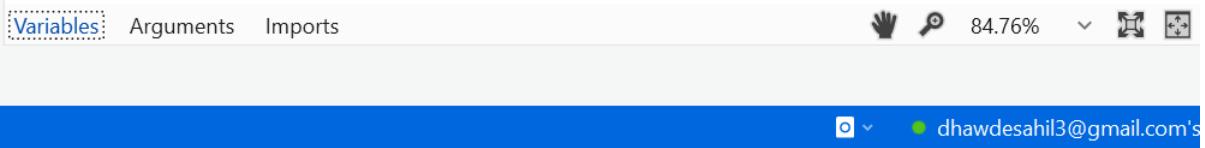
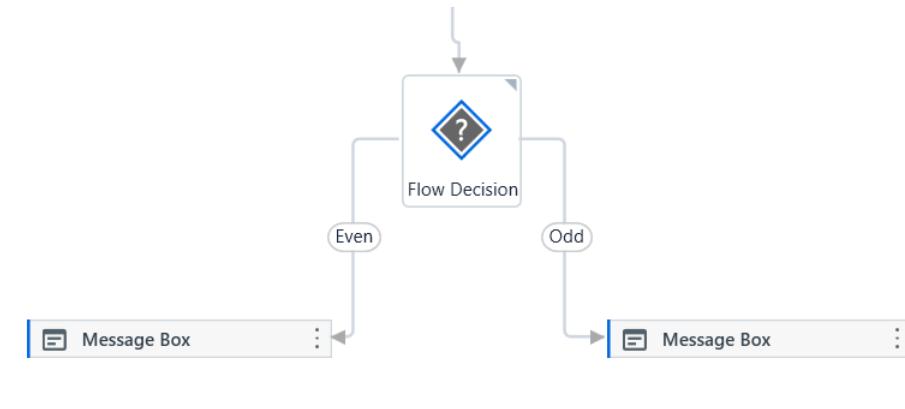
## B. Create a flowchart-based project.

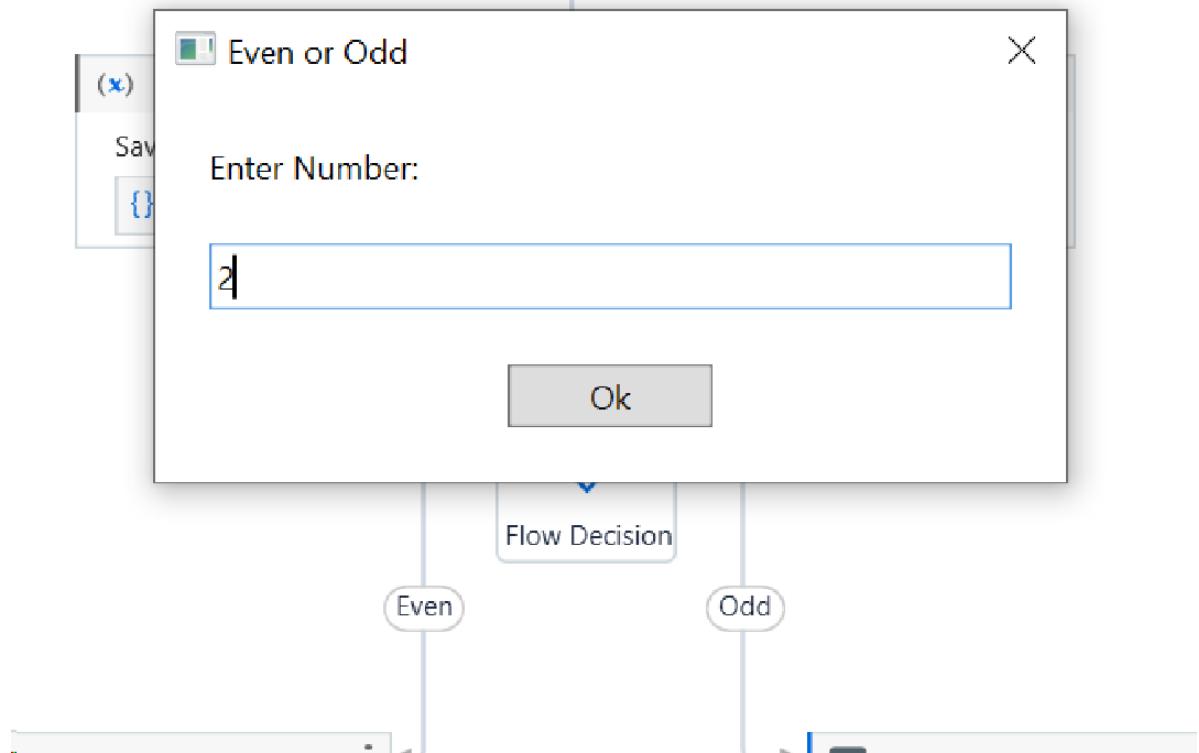
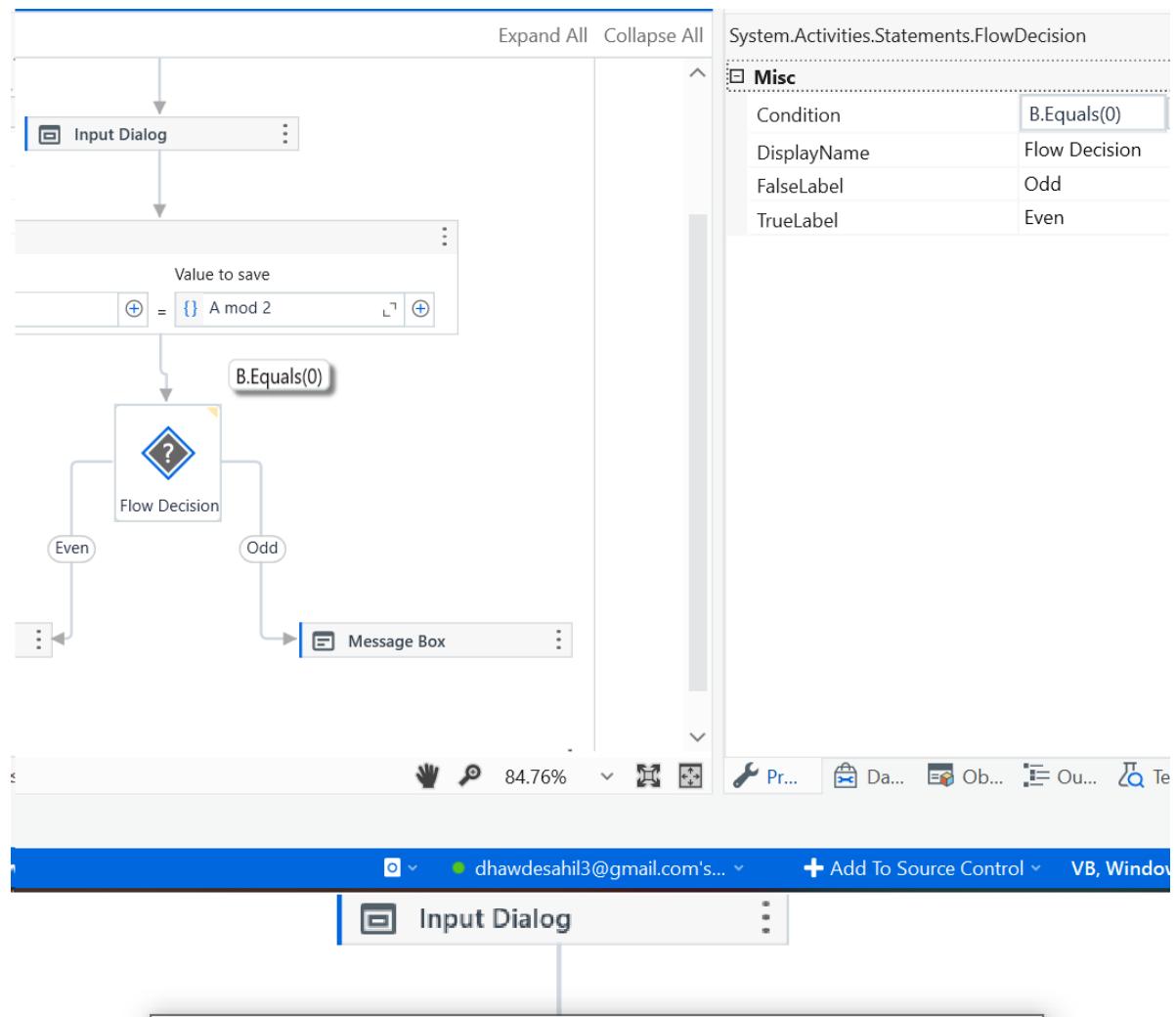
### Steps:

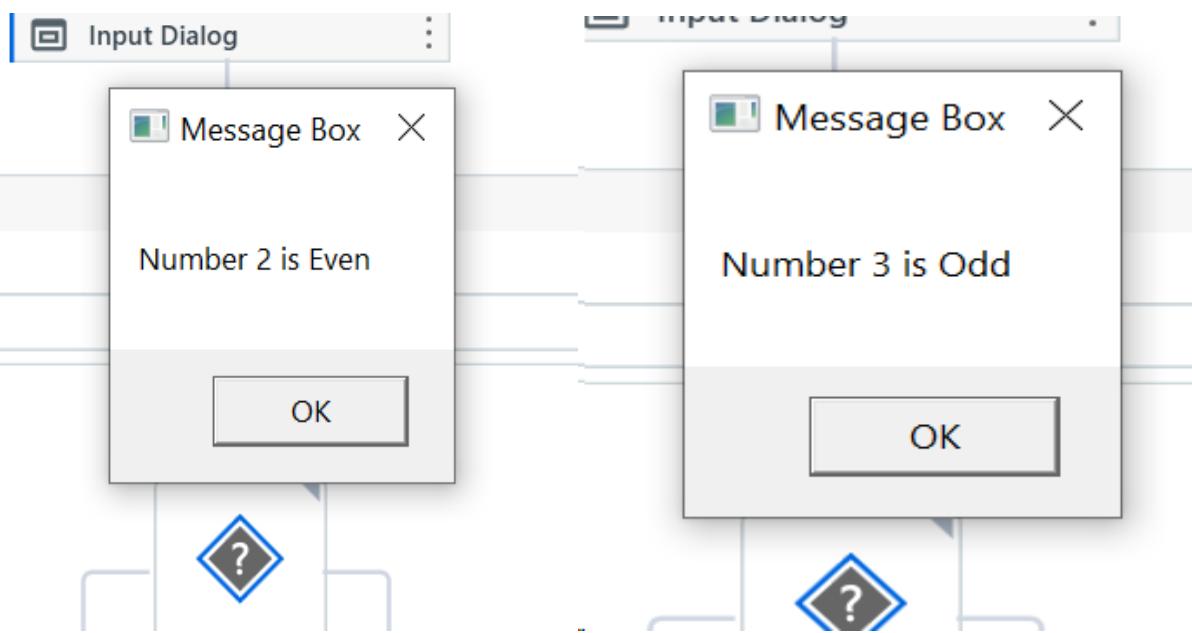
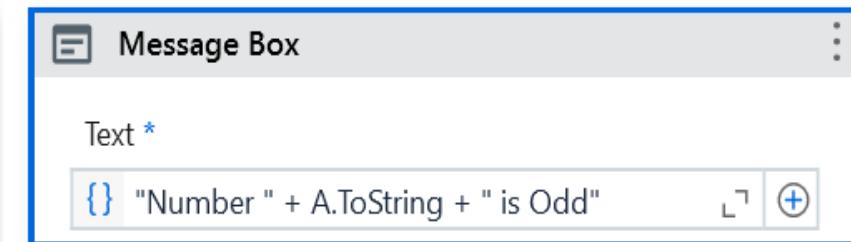
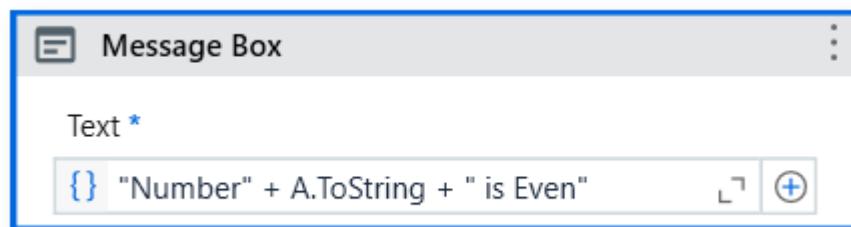
1. Open Project.
2. Select Flowchart activity, double click it.
3. Create two variables A and B (int32).
4. Select from activities panel Input dialog and enter A in Value entered.
5. Select Assign activity and enter “B = A mod 2”.
6. Select from activities panel Flow Decision & type in Condition “B.Equals(0)”.
7. And change False and True labels to Odd and Even.
8. Select two Message box for Odd and Even.
9. And type “Number” + A.ToString “is even.” for even label and “Number” + A.ToString “is odd.” for odd label.
10. Run the project.

### Process & Output:







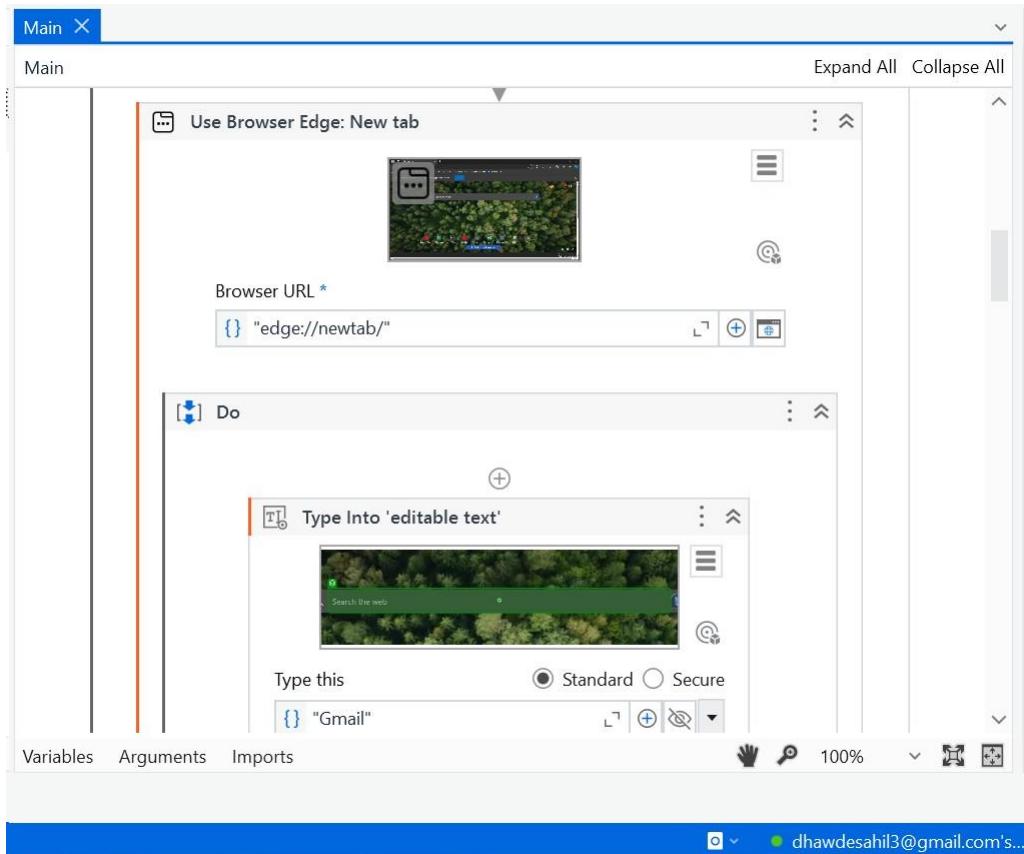


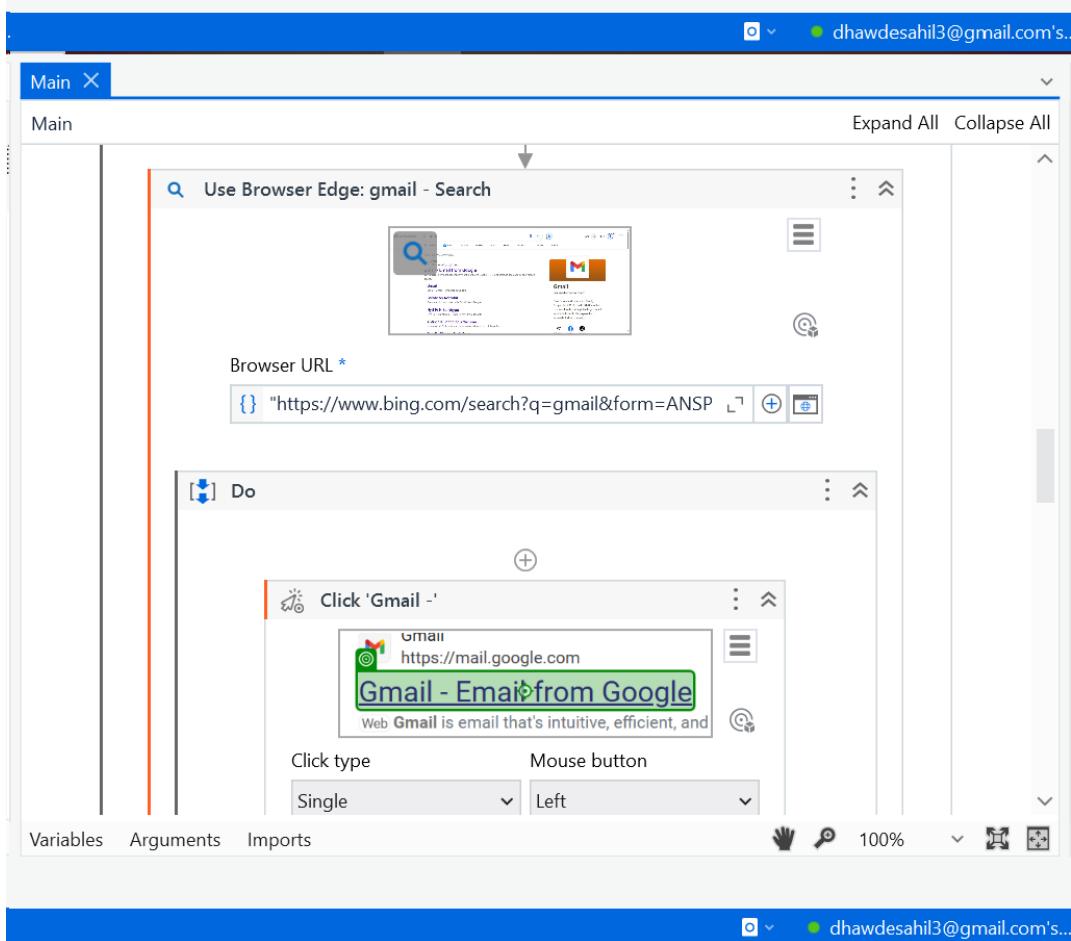
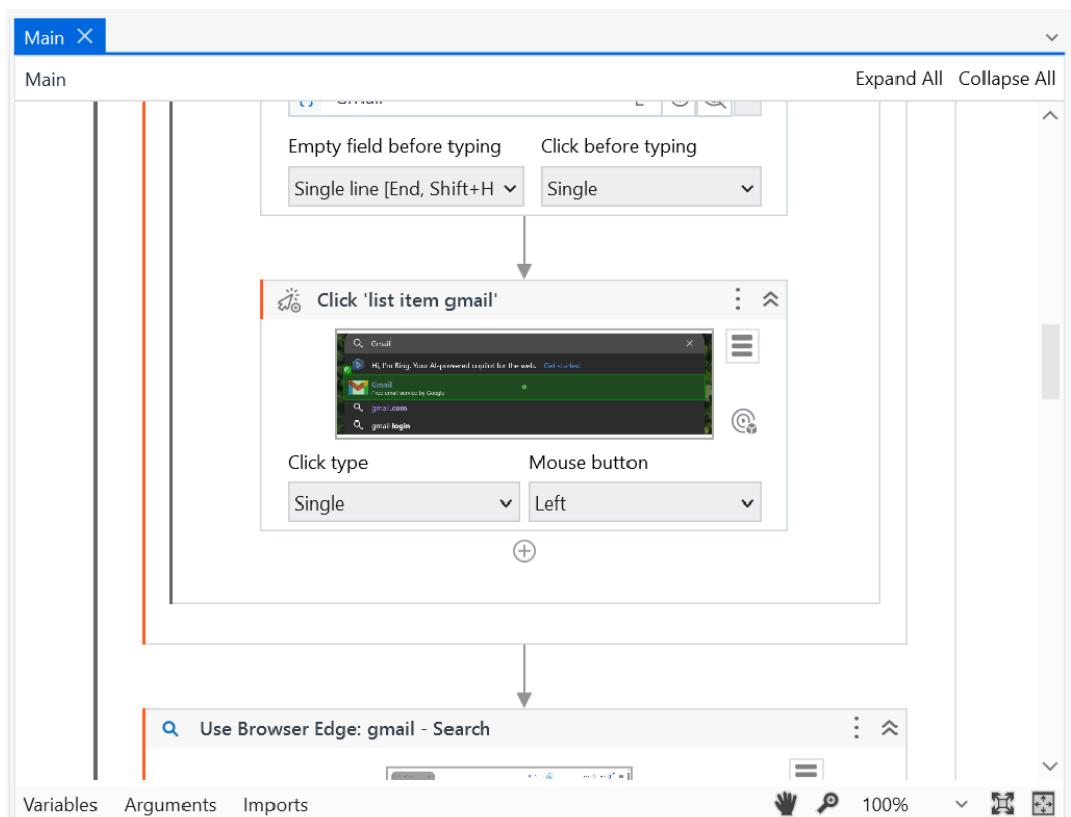
### C. Create an UiPath Robot which can empty a folder in Gmail solely on basis of recording.

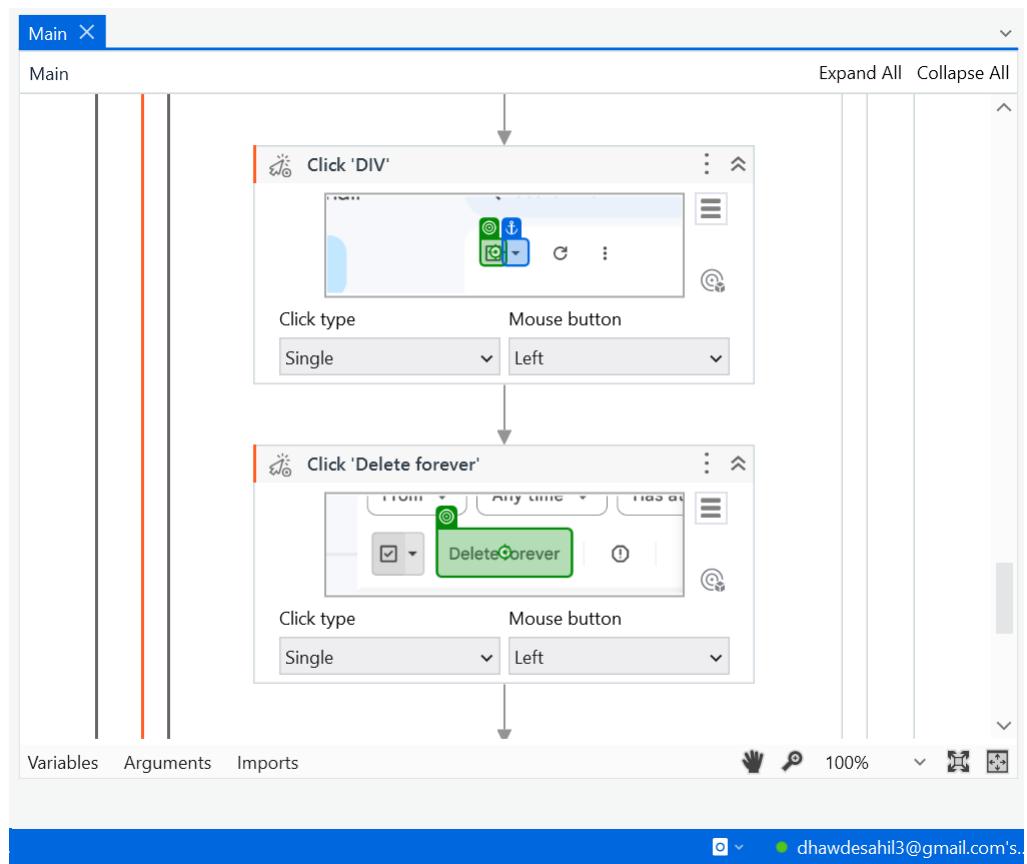
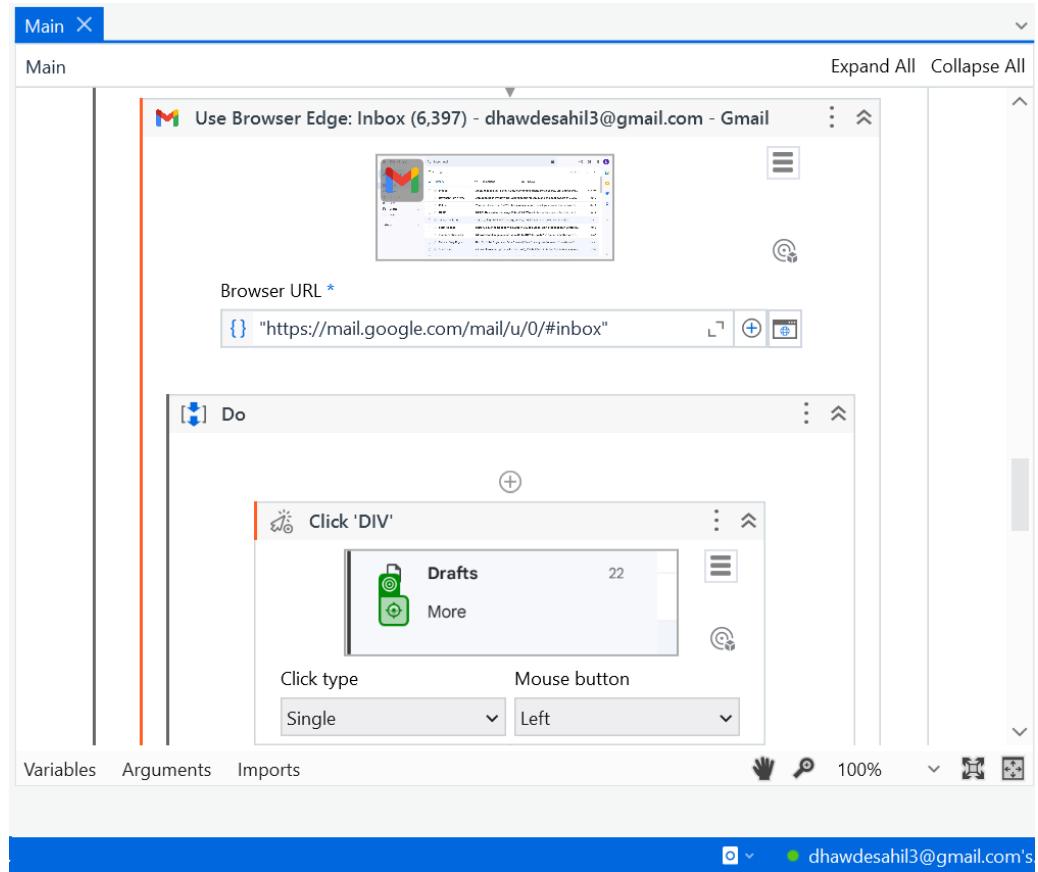
#### Steps:

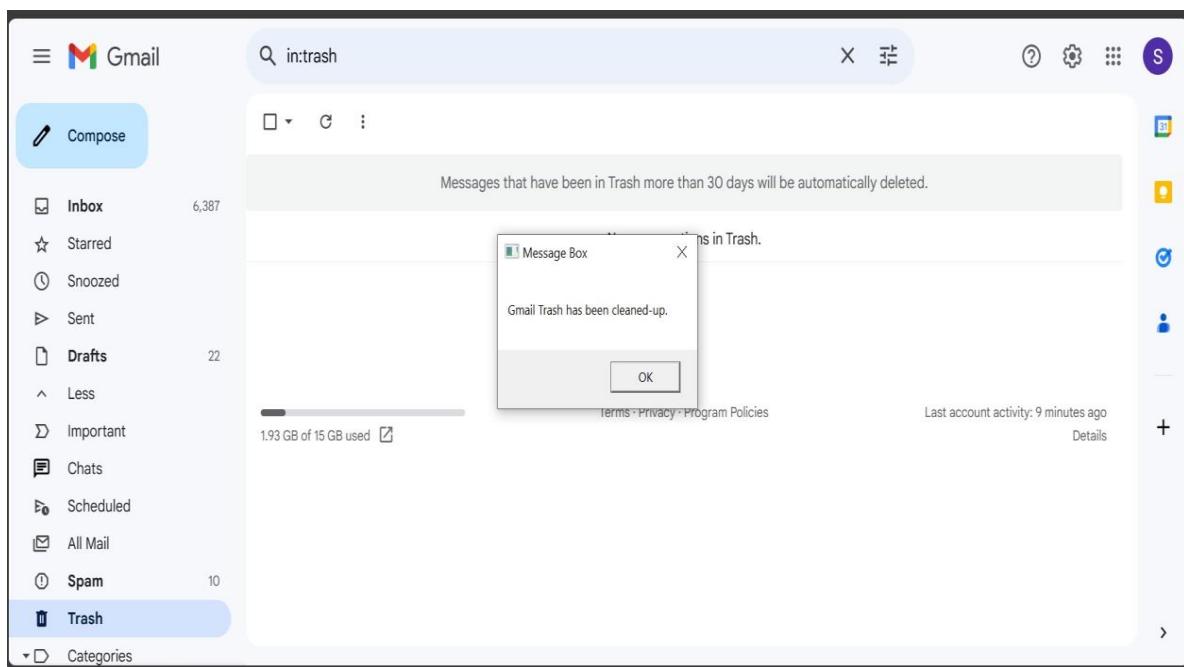
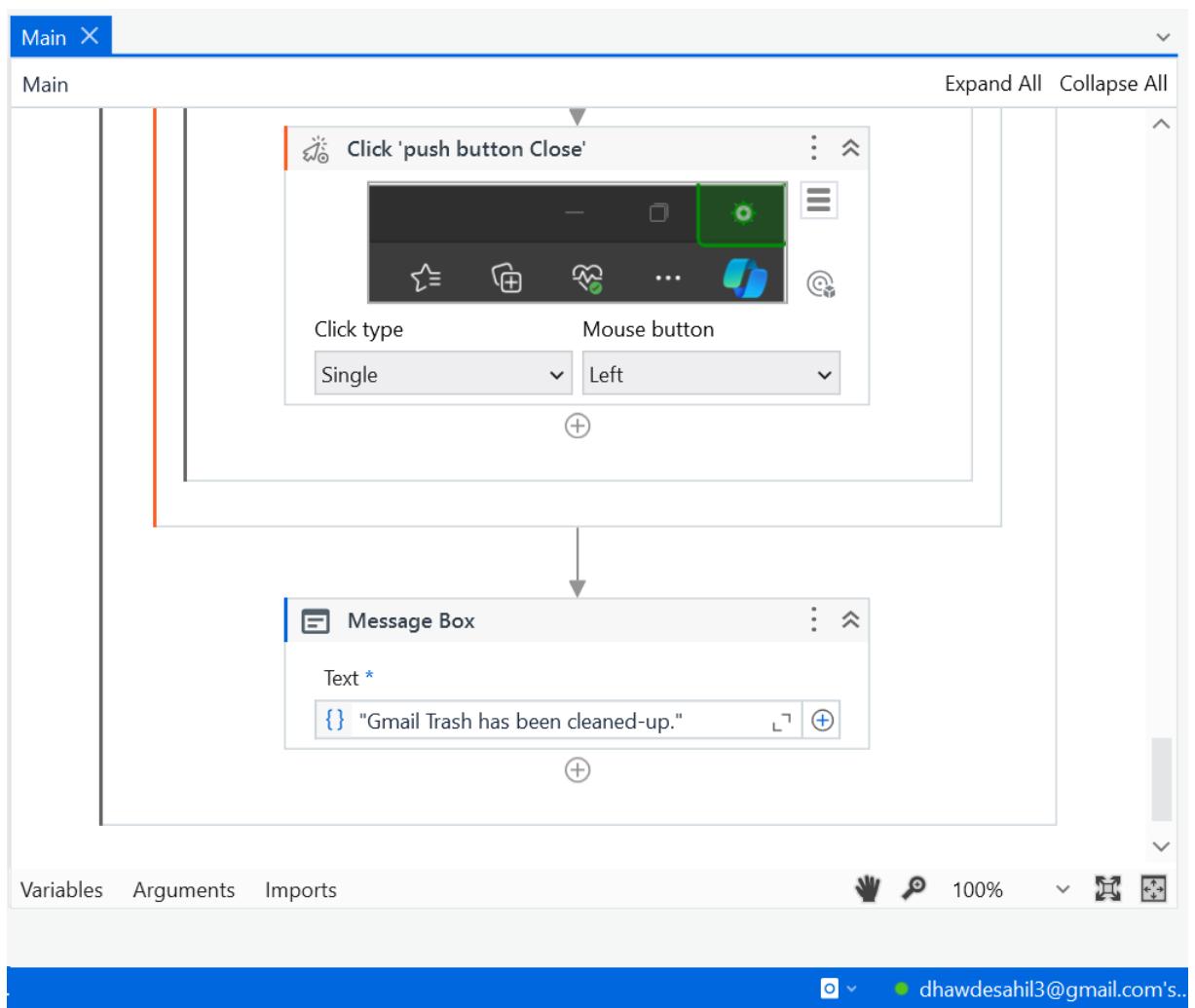
1. Open project.
2. Select Sequence activity.
3. Select App/Web Recorder icon on Ribbon panel of UiPath studio.
4. Select Microsoft Bing icon from task bar and select “Single Click” option.
5. In browser, select search bar with “Single Click” option and select Type Into activity to Type this as “Gmail”.
6. Click “Gmail” on list item.
7. And select first link on browser with “Single Click” options.
8. In Gmail, select Trash that is on left side with “Single Click” options.
9. In Trash, check select all button and select “Delete Forever” button with “Single Click” options.
10. Select close button with “Single Click” options to close the browser.
11. Select from activities panel Message box activity, type “Gmail Trash has been cleaned-up.”
12. Run the project.

#### Process & Output:









## Practical No: 2

**Aim:** Implement the following:

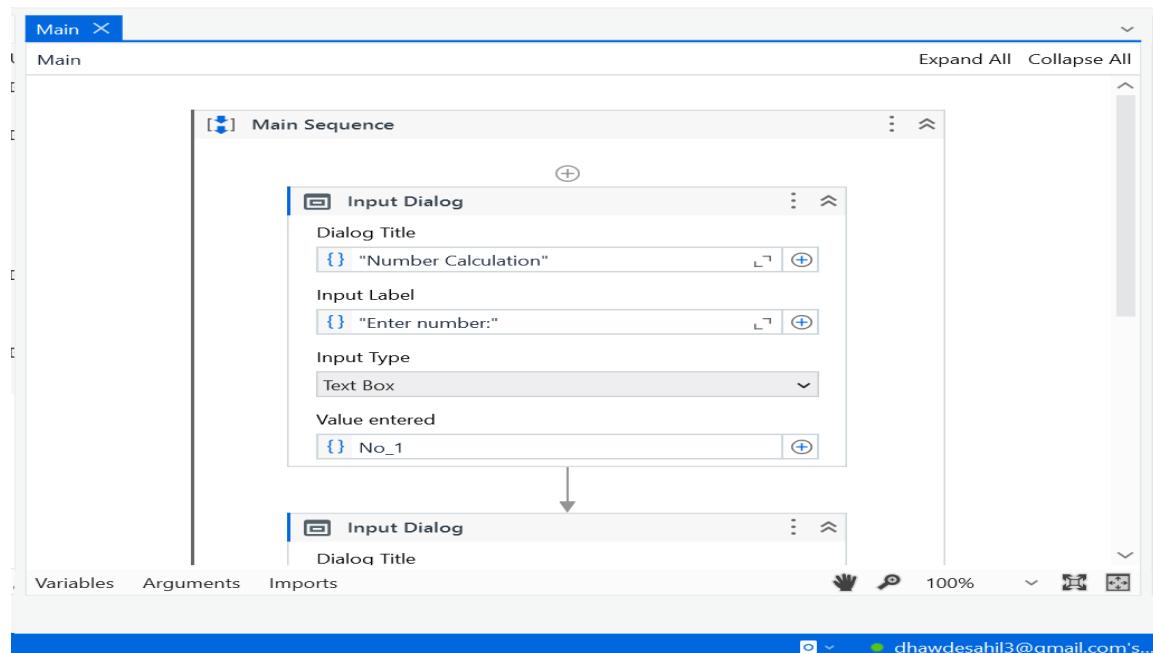
### A. Automate UiPath Number Calculation (Subtraction, Multiplication, Division of numbers).

**Steps:**

1. Open Project.
2. Select Sequence activity.
3. Create two integer variables No\_1, No\_2 to hold the output.
4. Select from activities panel two Input dialog and configure it.
5. Select from activities panel Message box.
6. And type

```
"Sum of " + No_1.ToString + " and " + No_2.ToString + " is " + (No_1 +
No_2).ToString + vbCrLf +
"Subtraction of " + No_1.ToString + " and " + No_2.ToString + " is " + (No_1 -
No_2).ToString + vbCrLf +
"Product of " + No_1.ToString + " and " + No_2.ToString + " is " + (No_1 *
No_2).ToString + vbCrLf +
"Division of " + No_1.ToString + " and " + No_2.ToString + " is " + (No_1
No_2).ToString".
```
7. Run the project.

**Process & Output:**



Main X

Main

Expand All Collapse All

**Input Dialog**

Dialog Title: { "Number Calculation" }

Input Label: { "Enter number:" }

Input Type: Text Box

Value entered: { "No\_2" }

Name Variable type Scope Default

No_1	Int32	Main Sequence	0
No_2	Int32	Main Sequence	0

Create Variable

Variables Arguments Imports 100%    

UI Expression Editor

Message Box > Content (InArgument<Object>)

Use Variables ▾

```
"Sum of " + No_1.ToString + " and " + No_2.ToString + " is " + (No_1 + No_2).ToString + vbCrLf +
"Subtraction of " + No_1.ToString + " and " + No_2.ToString + " is " + (No_1 - No_2).ToString + vbCrLf +
"Product of " + No_1.ToString + " and " + No_2.ToString + " is " + (No_1 * No_2).ToString + vbCrLf +
"Division of " + No_1.ToString + " and " + No_2.ToString + " is " + (No_1 / No_2).ToString
```

Describe your expression in natural language... 

Save Cancel

Number Calculation

Enter number:

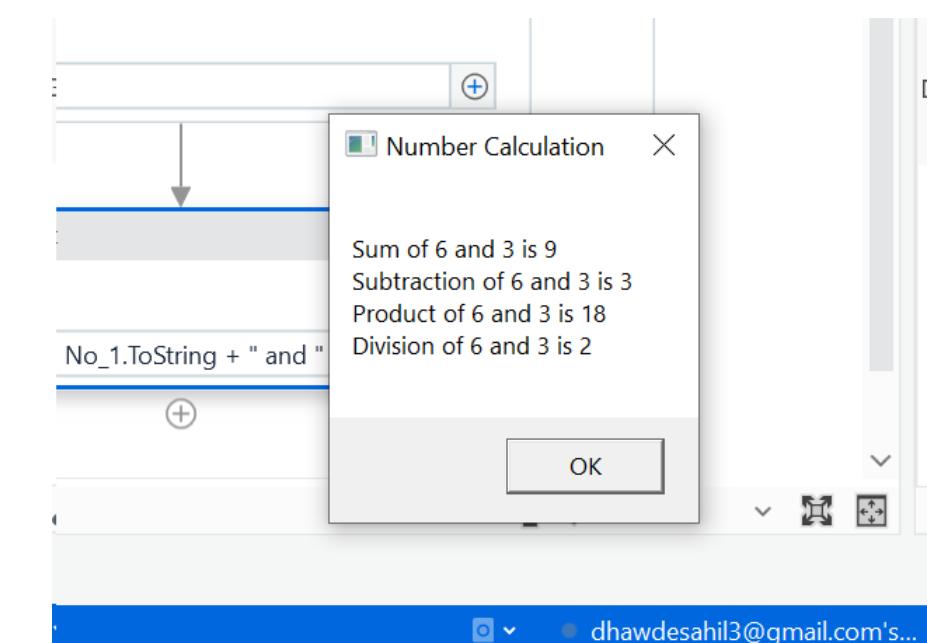
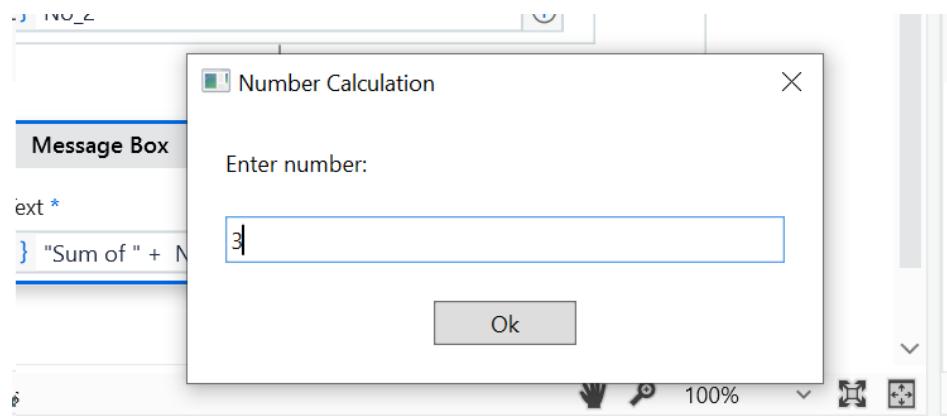
6

Ok

Message Text \* { "Sum of " + No\_1.ToString + " and " + No\_2.ToString + " is " + (No\_1 + No\_2).ToString + vbCrLf }

100%    

dhawdesahil3@gmail.com's...



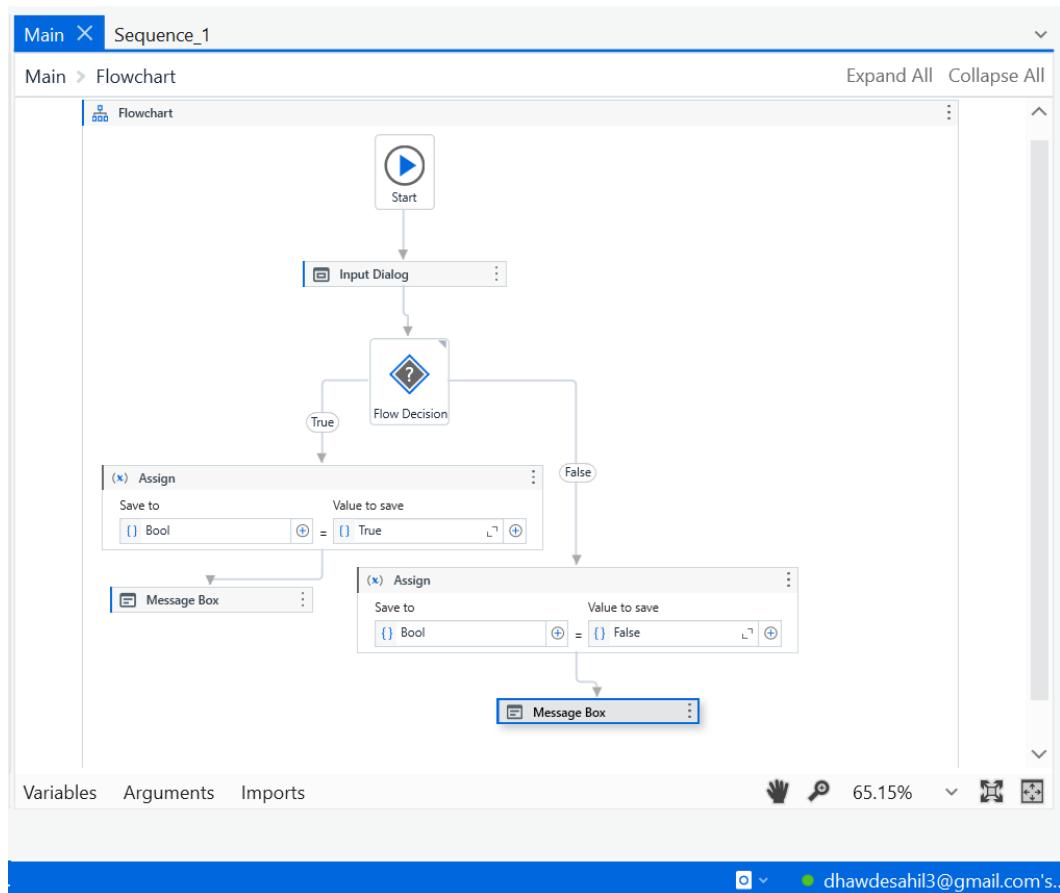
## B. Create an automation UiPath project using different types of variables (number, datetime, Boolean)

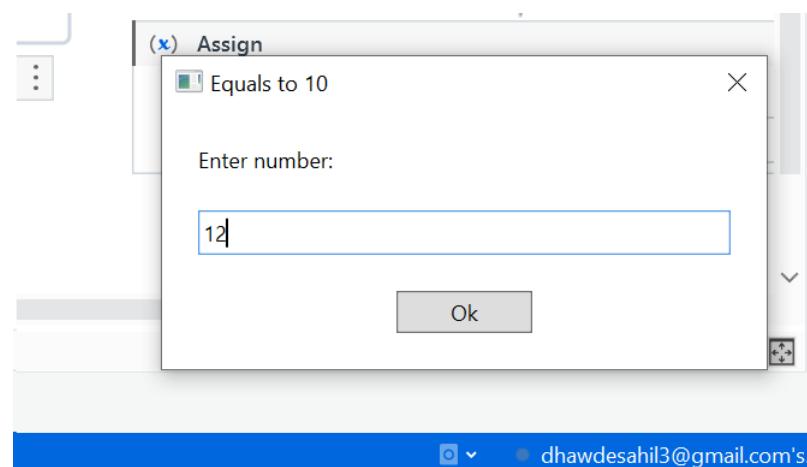
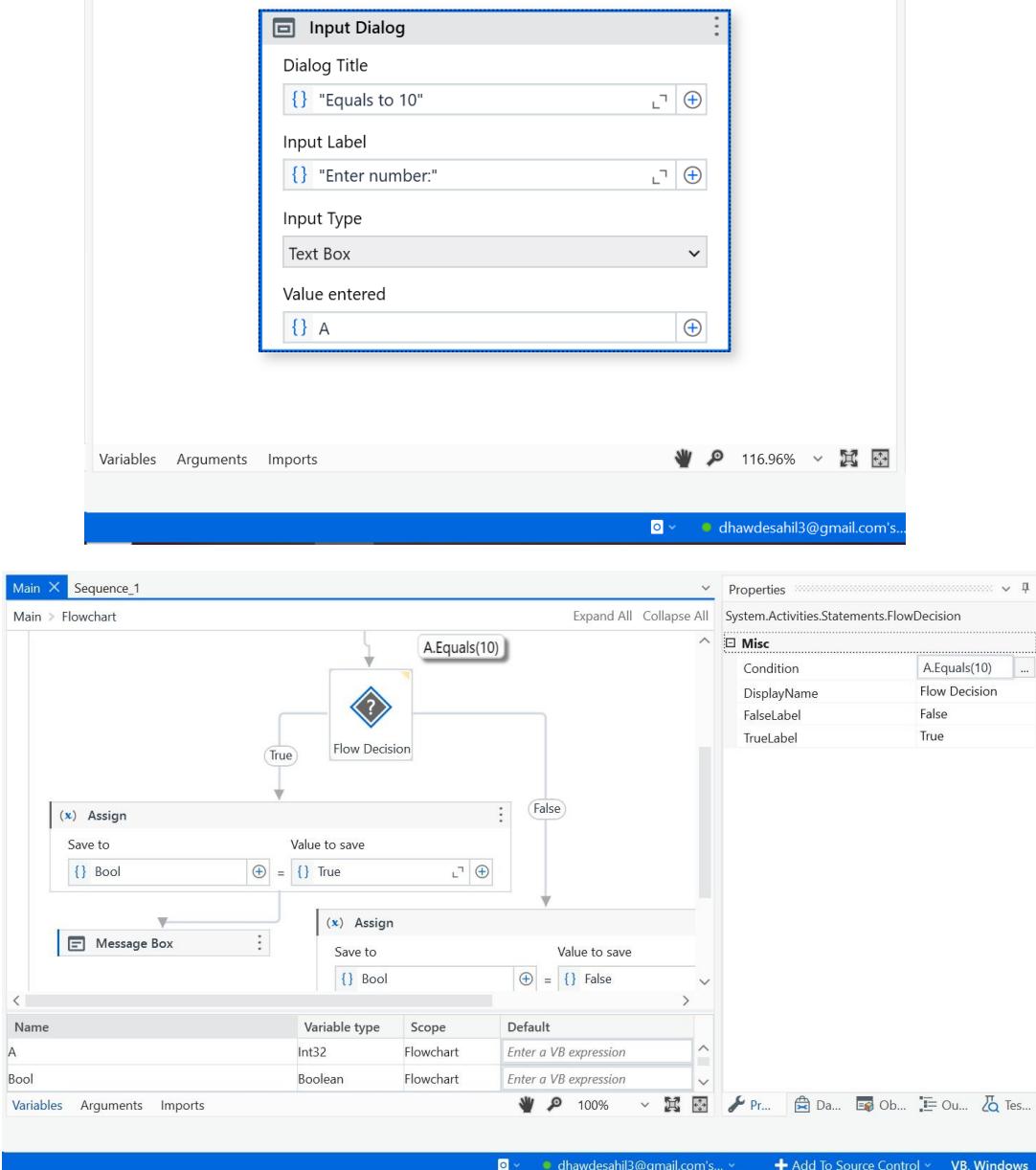
### i. Boolean and Number

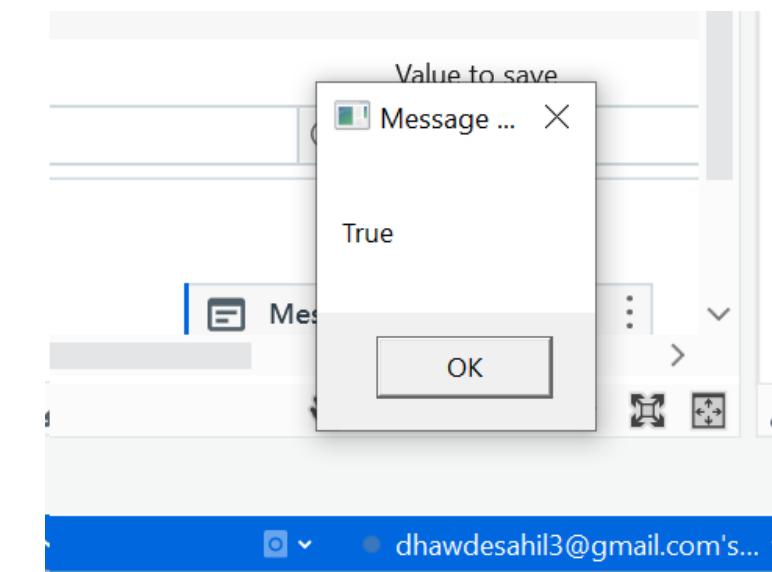
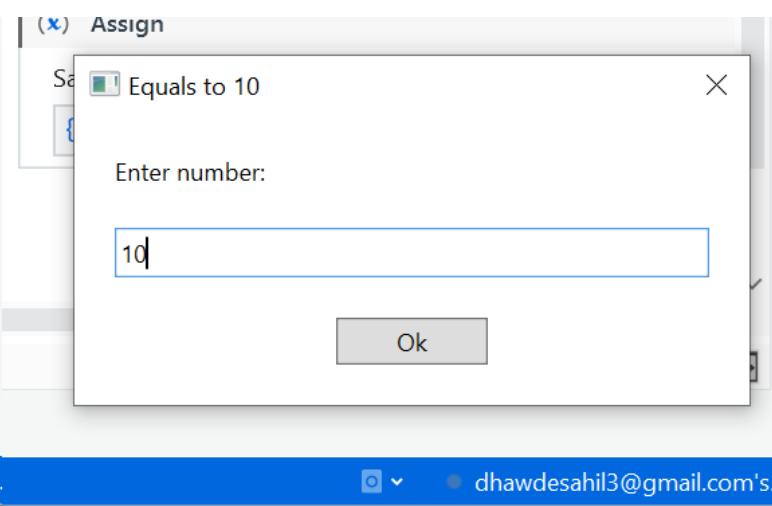
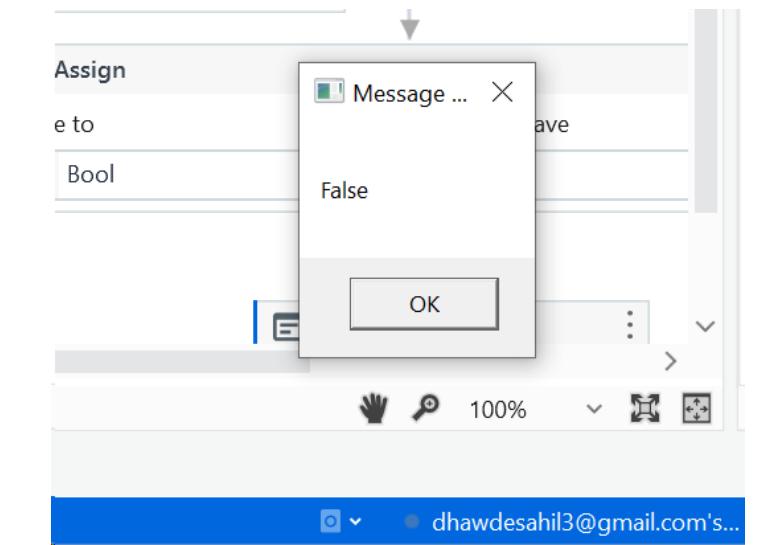
#### Steps:

1. Open Project.
2. Select Flowchart activity, double click it.
3. Create a two variables A (int32) and Bool (Boolean).
4. Select from activities panel Input dialog and enter A in Value entered.
5. Select from activities panel Flow Decision & type in Condition “A.Equals(10)”.
6. Select two Assign activity, one for True and other for False.
7. Assign bool = True for True side and Assign bool = False for False side
8. Select two Message box activity for True and False.
9. And type “bool” for both True label and False label.
10. Run the project.

#### Process & Output:





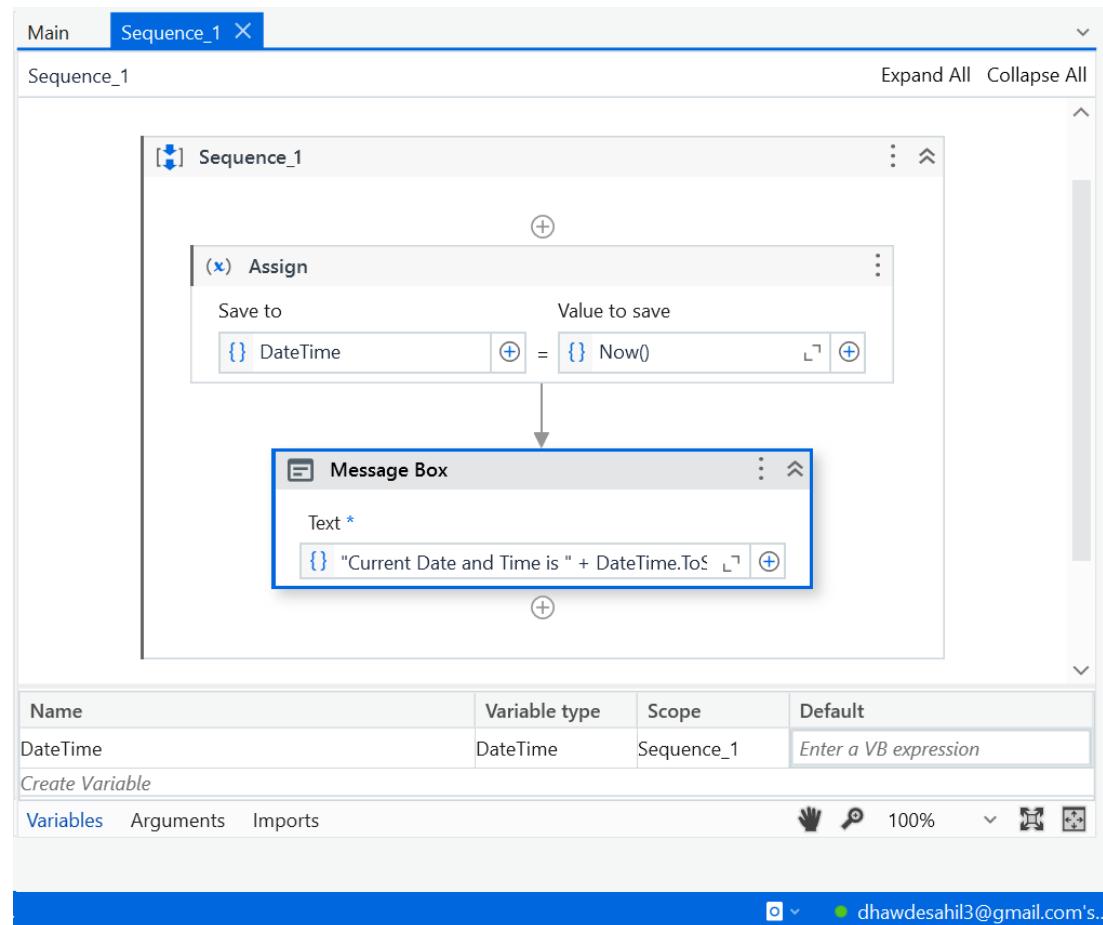


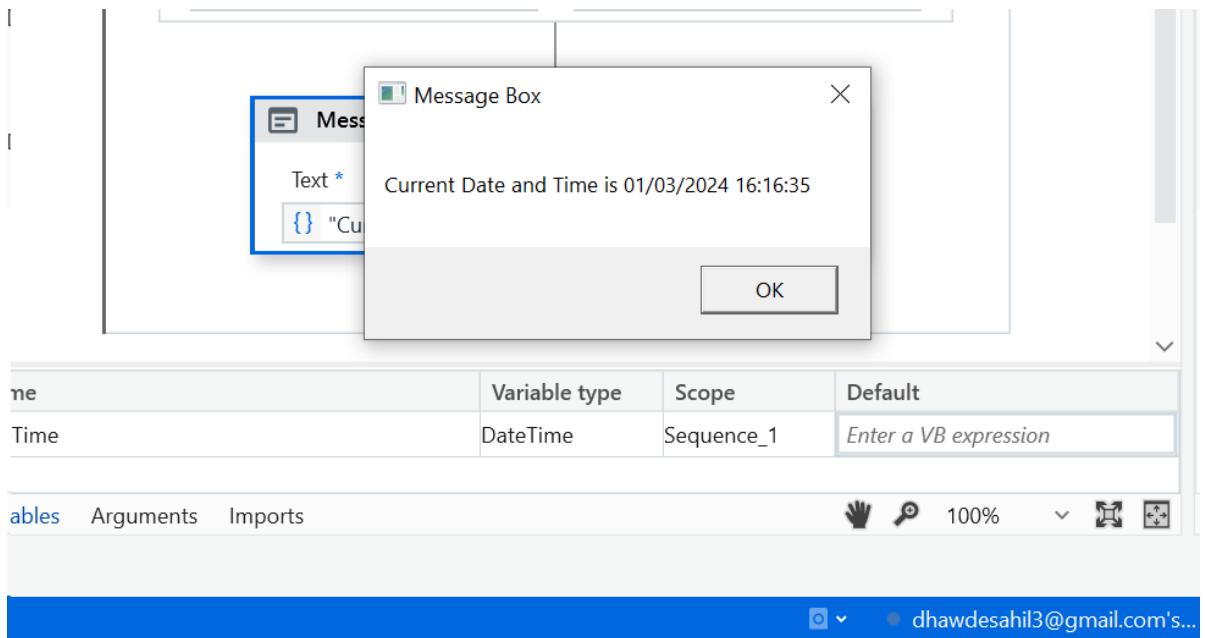
## ii. Datetime

### Steps:

1. Open Project.
2. Select Sequence activity.
3. Create a variables DateTime of DateTime type.
4. Select Assign activity, assign DateTime = Now().
5. Select from activities panel Message box activity and type “Current Date and Time is ” + DateTime.ToString”.
6. Run the project.

### Process & Output:





## Practical No: 3

**Aim:** Implement the following:

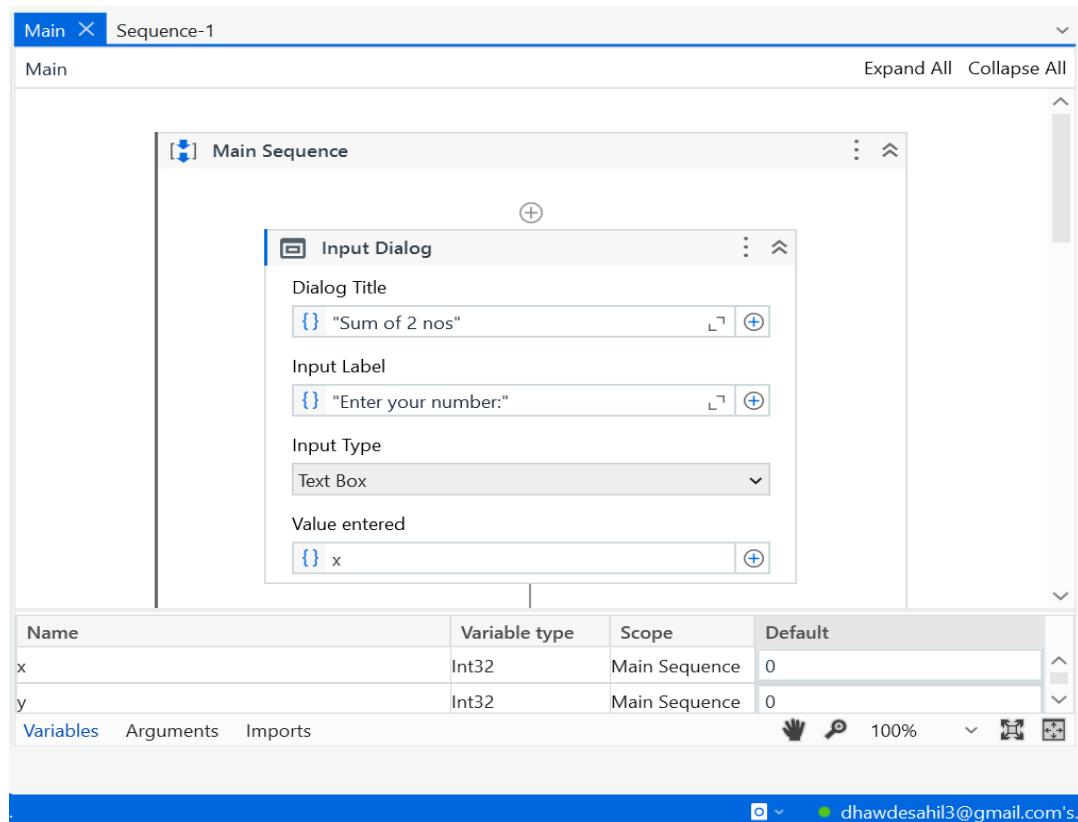
### A. Create an automation UiPath Project using decision statements.

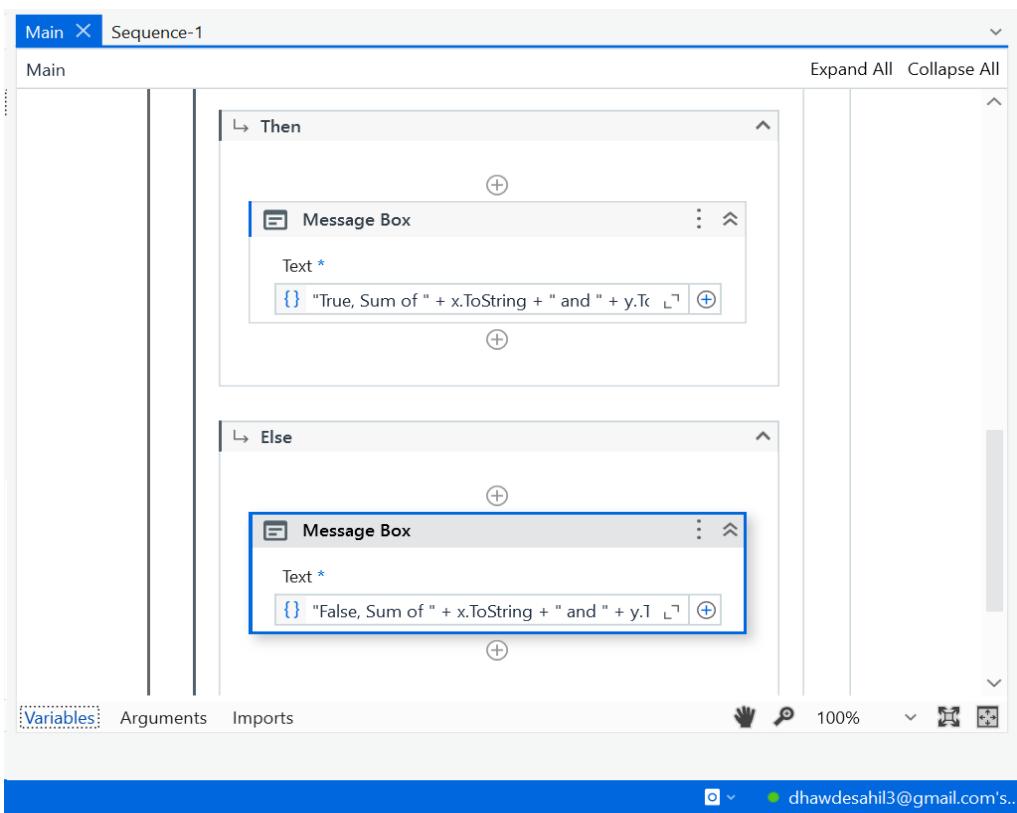
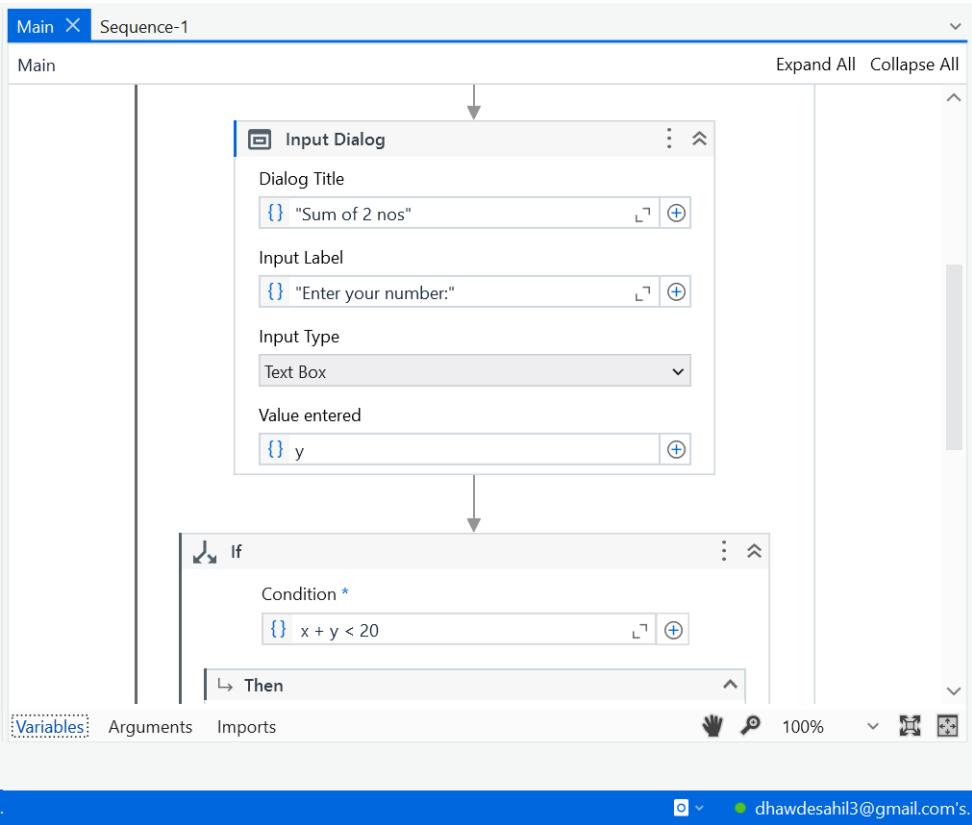
#### i. If statement

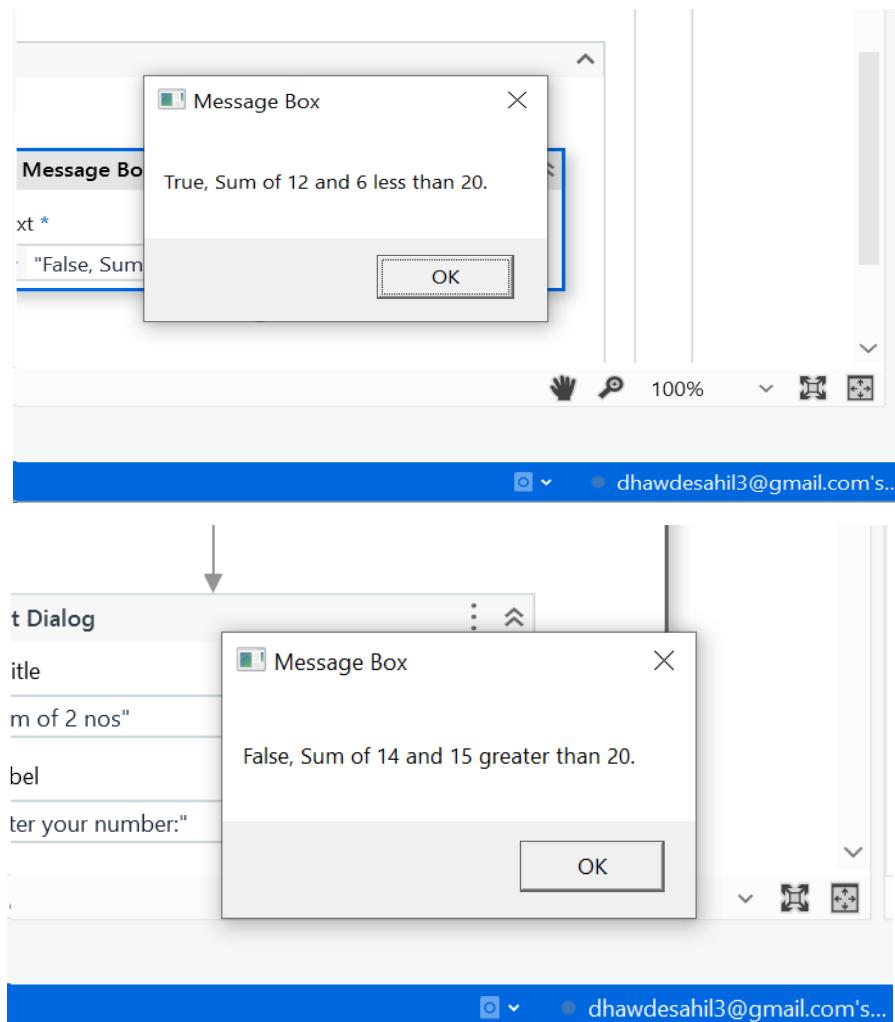
**Steps:**

1. Open Project.
2. Select Sequence activity.
3. Select from activities panel two Input dialog and configure it.
4. Create two integer variables x, y to hold the output.
5. Select from activities panel If activity & in condition type  $x < 20$ .
6. Drag n Drop a Write line activity to "Then" part & enter text "True, Sum " + x.ToString " and " + y.ToString + " less than 20".
7. Drag n Drop a Write line activity to "Else" part & enter text "False, Sum " + x.ToString " and " + y.ToString + " greater than 20".
8. Run the project.

**Process & Output:**





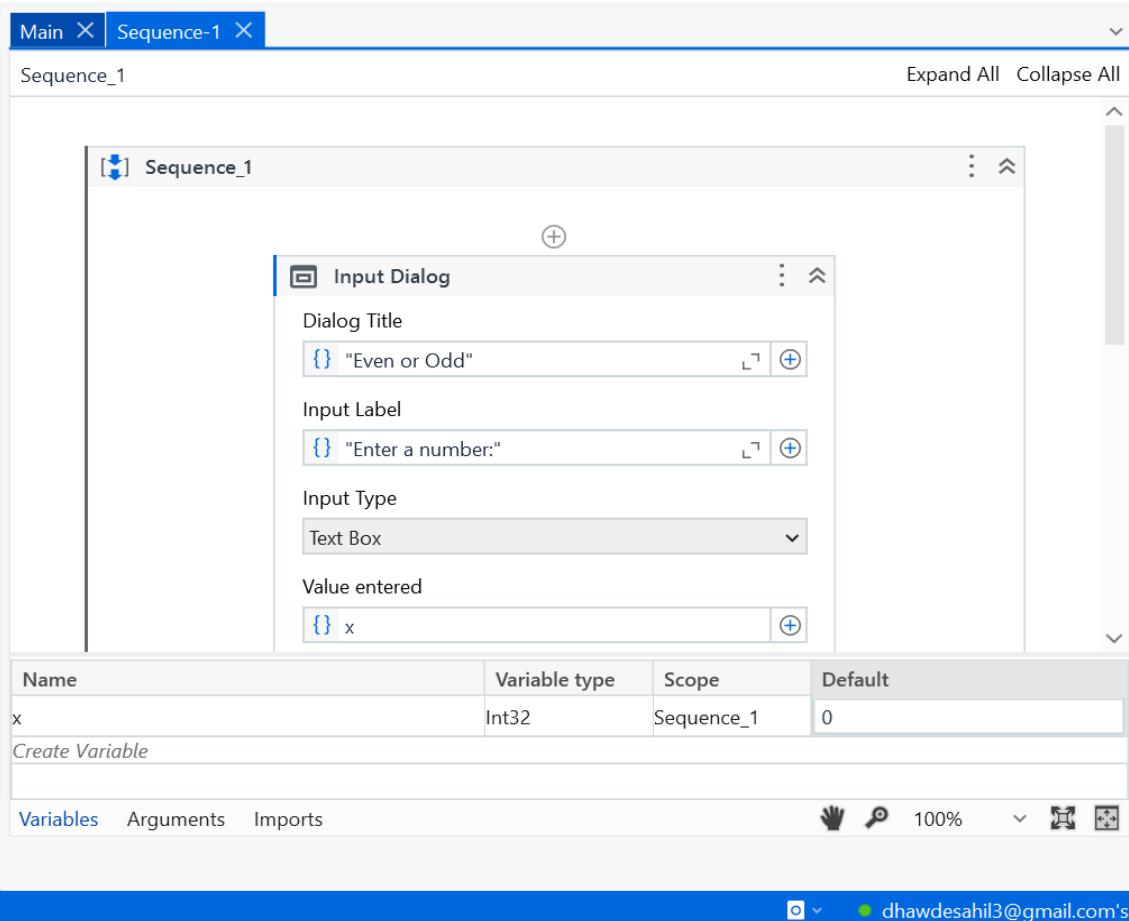


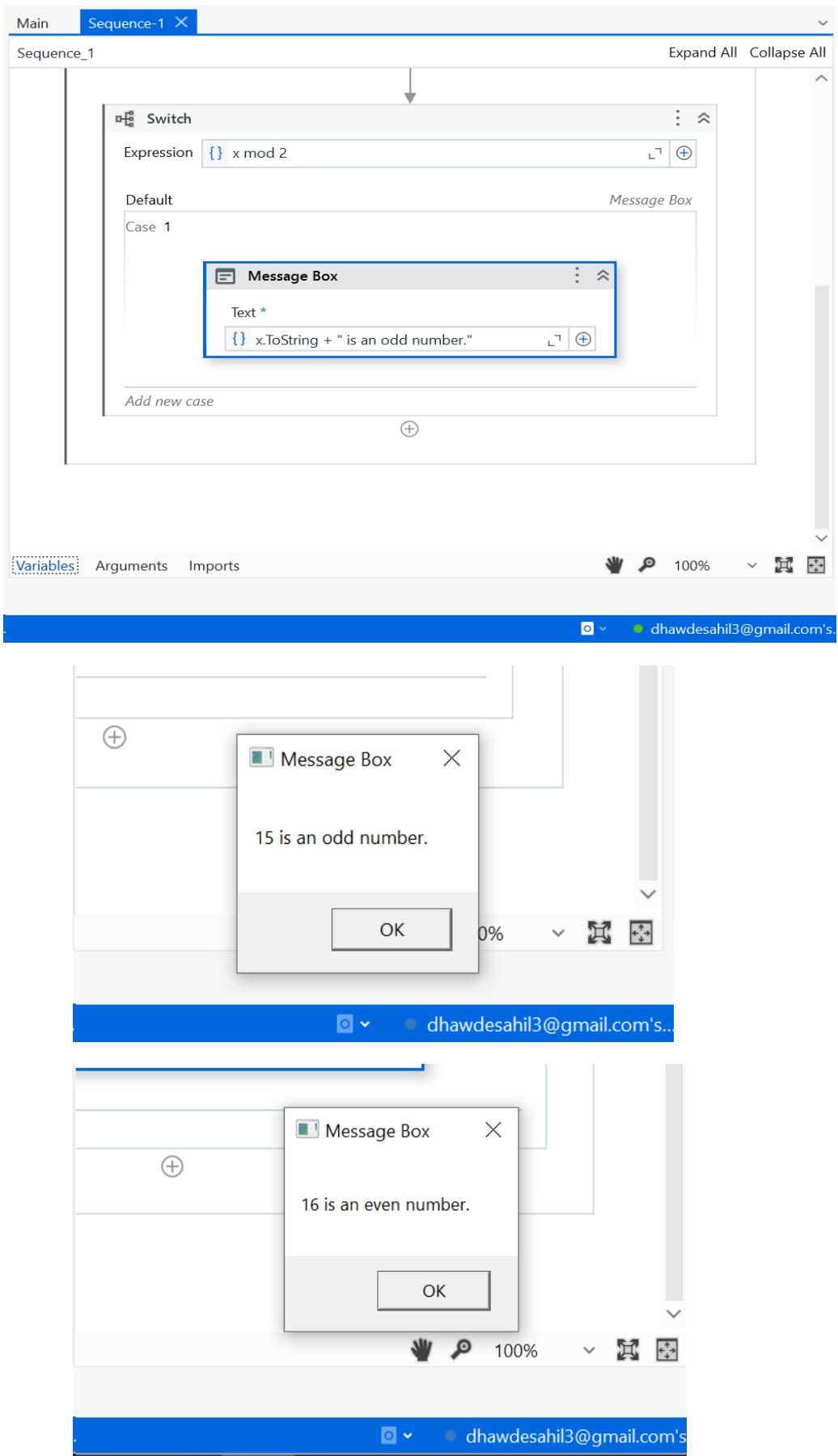
## ii. Switch statement

### Steps:

1. Open Project.
2. Select Sequence activity.
3. Select from activities panel, input dialog, and configure it.
4. Create one integer variables x, to hold the output.
5. Select from activities panel Switch activity.
6. In Expression type “x Mod 2”.
7. In Case 0 (default case) Drag n Drop a message Box activity & enter text "x.toString + is an even number".
8. Add Case, In Case 1 Drag n Drop a message Box activity & enter text "x.toString + is an Odd number".
9. Run the project.

### Process & Output:





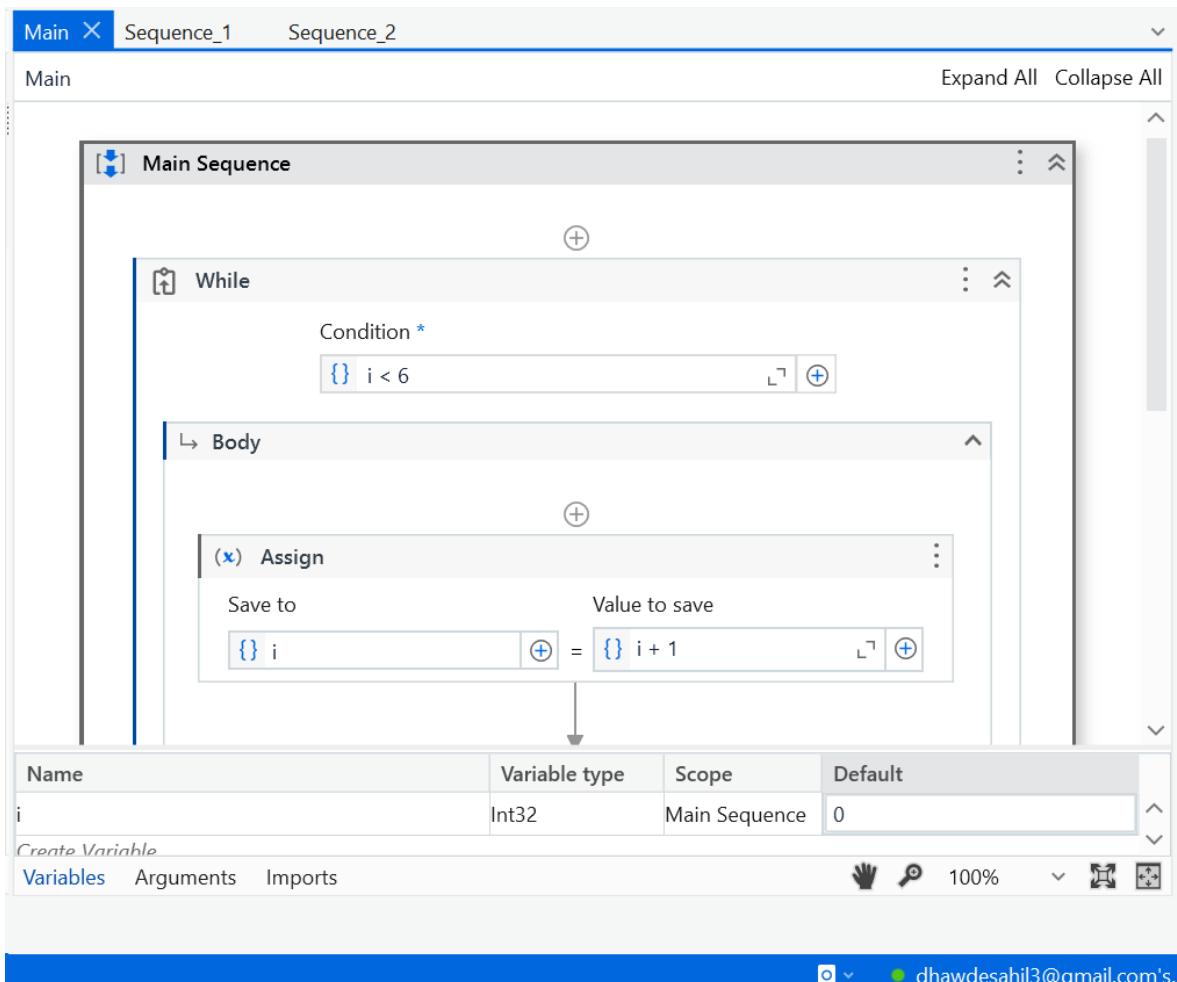
## B. Create an automation UiPath Project using looping statements.

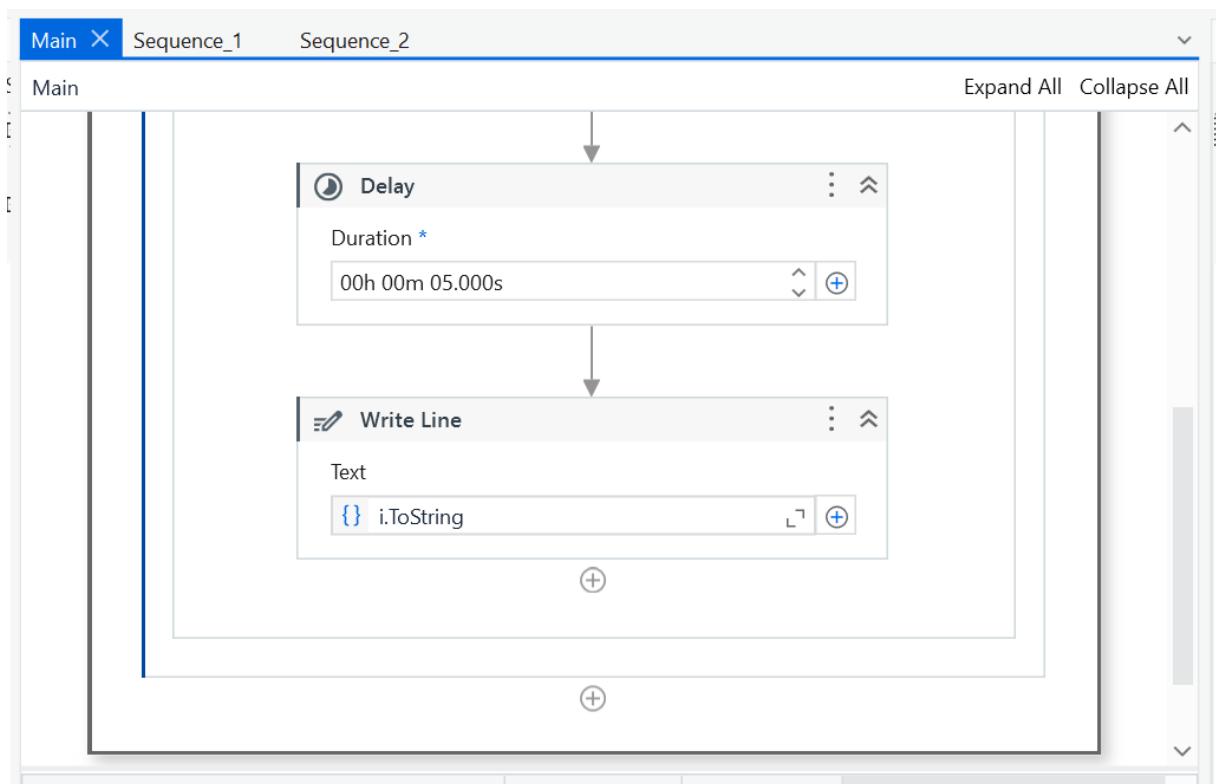
### i. While loop

#### Steps:

1. Open Project.
2. Select the Sequence activity.
3. Create a variable i (int32).
4. Create and assign variable i = 0.
5. Select While activity.
6. In condition type "i < 6"
7. Inside the body of While, select the Assign activity & enter text "i = i+1"
8. Then select Delay activity to delay the output of write line.
9. Now select Write line activity and enter text "i.ToString".
10. Run the project.

#### Process & Output:





Name	Variable type	Scope	Default
i	Int32	Main Sequence	0

### Create Variable

Variables Arguments Imports



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Output



[Search](#)

## ① Looping execution started

1

2

i 3

① 4

i 5

i 6

i Lo

Output Breakpoints Error List

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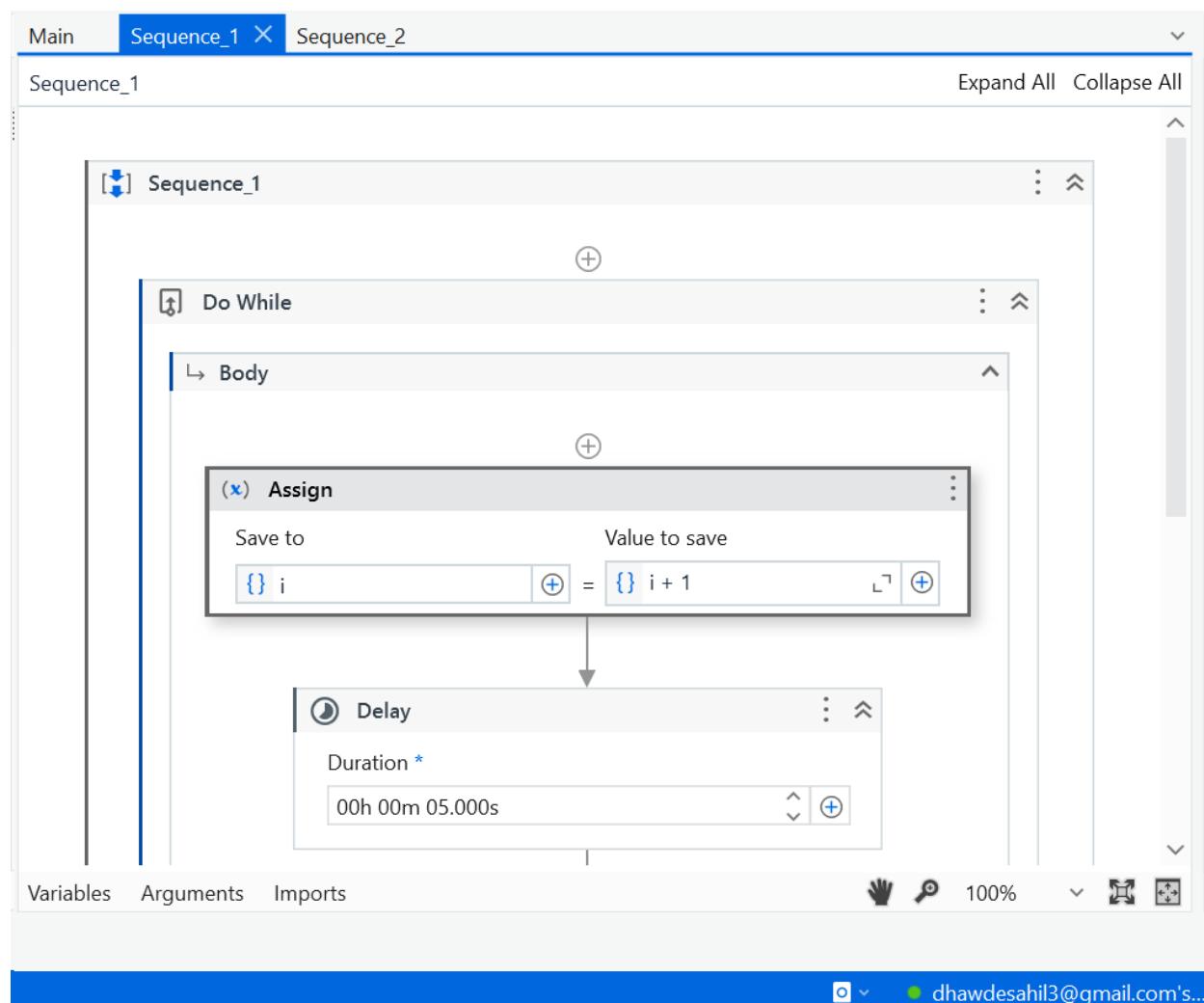
o ✓ ● dhawdesahil3

## ii. Do while loop

### Steps:

1. Open Project.
2. Select the Sequence activity.
3. Create a variable i (int32).
4. Create and assign variable  $i = 0$ .
5. Select Do While activity.
6. Inside the body of Do while, select the Assign activity & enter text " $i = i + 1$ ".
7. Then select Delay activity to delay the output of write line.
8. Now select Write line activity and enter text " $i.ToString()$ ".
9. In condition type " $i < 1$ ".
10. Run the project.

### Process & Output:



Main Sequence\_1 X Sequence\_2

Sequence\_1

Duration \*  
00h 00m 05.000s

Write Line

Text  
{ } i.ToString

Condition \*  
{ } i < 6

Name Variable type Scope Default

i	Int32	Sequence_1	0
---	-------	------------	---

Variables Arguments Imports

dhawdesahil3@gmail.com's

This screenshot shows the Microsoft Power Automate designer interface. The top navigation bar has tabs for Main, Sequence\_1 (selected), and Sequence\_2. The main workspace is titled 'Sequence\_1'. It contains a 'Write Line' action with the text '{ } i.ToString'. Below it is a 'Condition \*' block with the expression '{ } i < 6'. A 'Duration \*' block is also present, set to 00h 00m 05.000s. At the bottom, there is a table for variables:

Name	Variable type	Scope	Default
i	Int32	Sequence_1	0

The bottom navigation bar includes tabs for Variables, Arguments, and Imports, along with zoom controls (100%) and a user profile icon.

Output

⌚ ⚡ 0 ! 0 ⓘ 2 ⓘ 7 ✅ 0 ✗ 0 ⏪ ⏴

Search

⌚ Looping execution started  
⌚ 1  
⌚ 2  
⌚ 3  
⌚ 4  
⌚ 5  
⌚ 6  
⌚ Looping execution ended in: 00:00:30

Output Breakpoints Error List

dhawdesahil3@gmail.com's

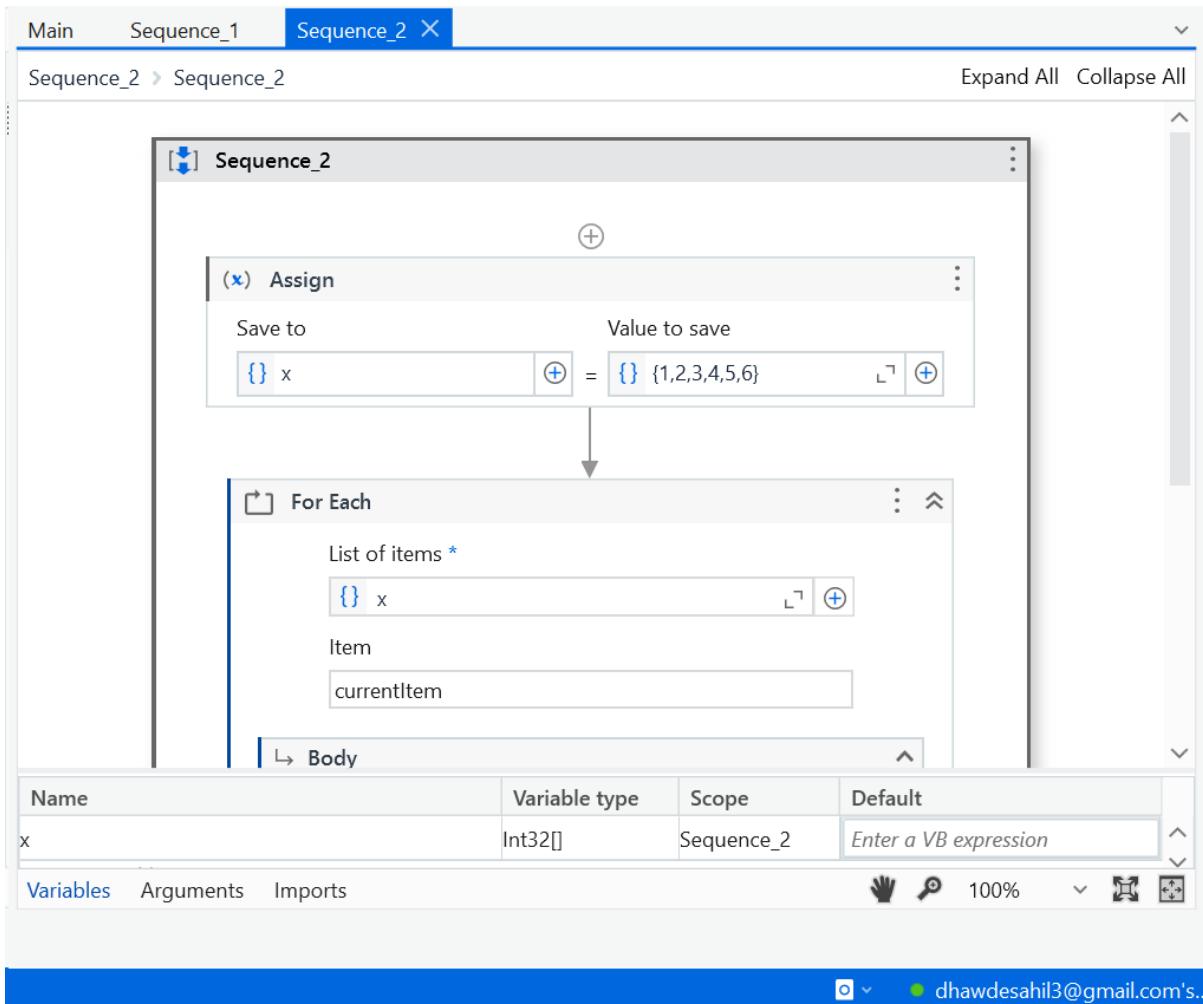
This screenshot shows the 'Output' window from the Microsoft Power Automate interface. It displays a log of events, starting with 'Looping execution started' and listing integers from 1 to 6. It concludes with 'Looping execution ended in: 00:00:30'. The window includes standard UI elements like a search bar and navigation tabs for Output, Breakpoints, and Error List. A status bar at the bottom right shows the user's email address: dhawdesahil3@gmail.com's.

### iii. For each loop

#### Steps:

1. Open Project.
2. Select the Sequence activity.
3. Create two variables x (array int32).
4. Select Assign activity & set x = {1,2,3,4,5,6}.
5. Select For Each activity.
6. Set values of List of items as "x".
7. Set values of Item as "currentItem".
8. Inside the Body of For Each.
9. Select the Write line activity & enter text "currentItem.ToString".
10. Run the project.

#### Process & Output:



Body

Write Line

Text

{ currentItem.ToString }

Name	Variable type	Scope	Default
x	Int32[]	Sequence_2	Enter a VB expression

Variables Arguments Imports

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Output

⌚ 0 ⚠ 0 ⓘ 2 ⓘ 7 ✅ 0 ✅ 0

Search

⌚ Looping execution started

⌚ 1

⌚ 2

⌚ 3

⌚ 4

⌚ 5

⌚ 6

Breakpoints Error List

dhawdesahil3

## Practical No: 4

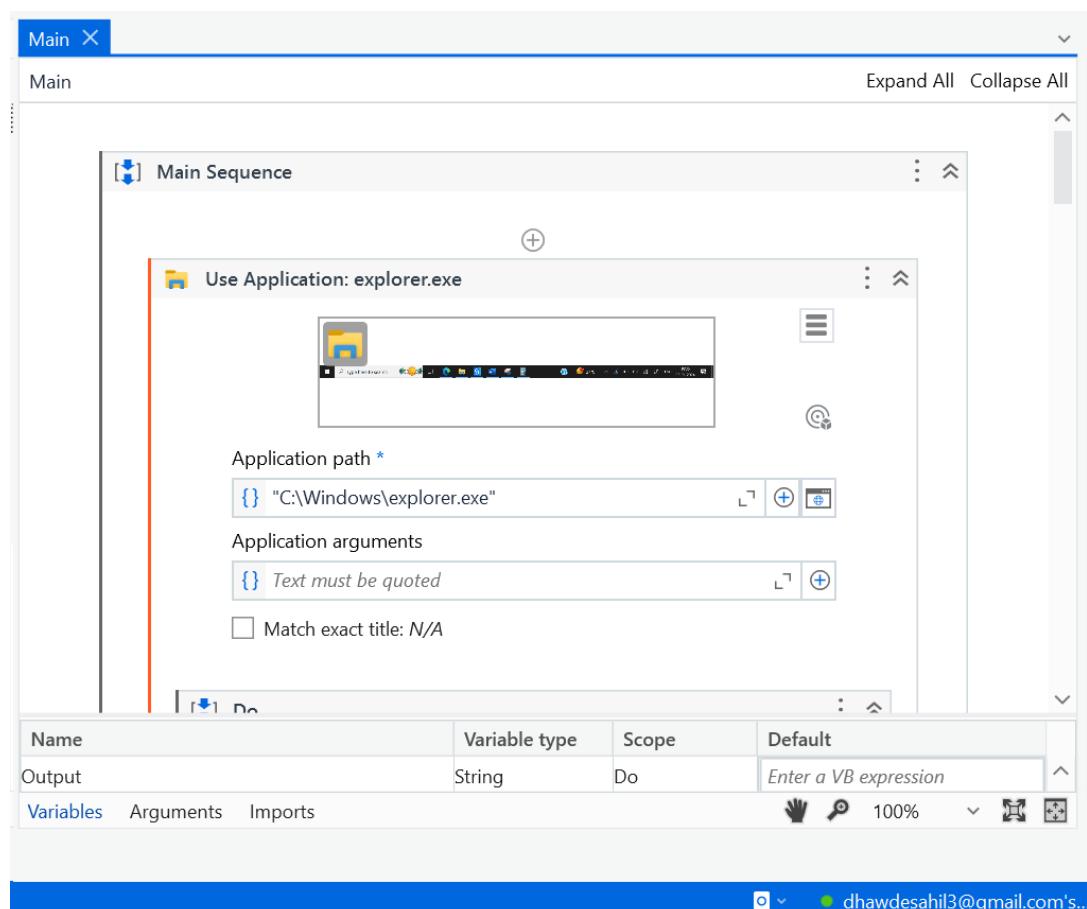
**Aim: Implement the following:**

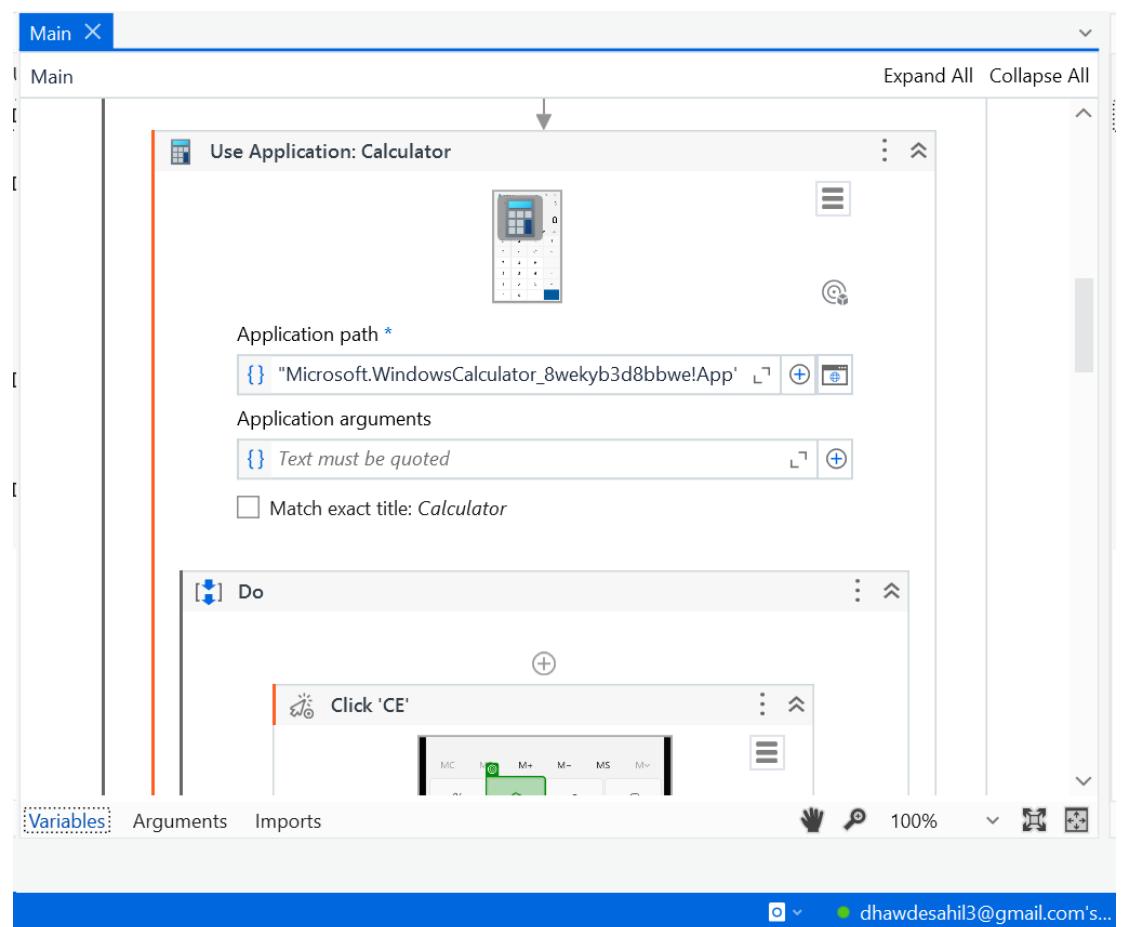
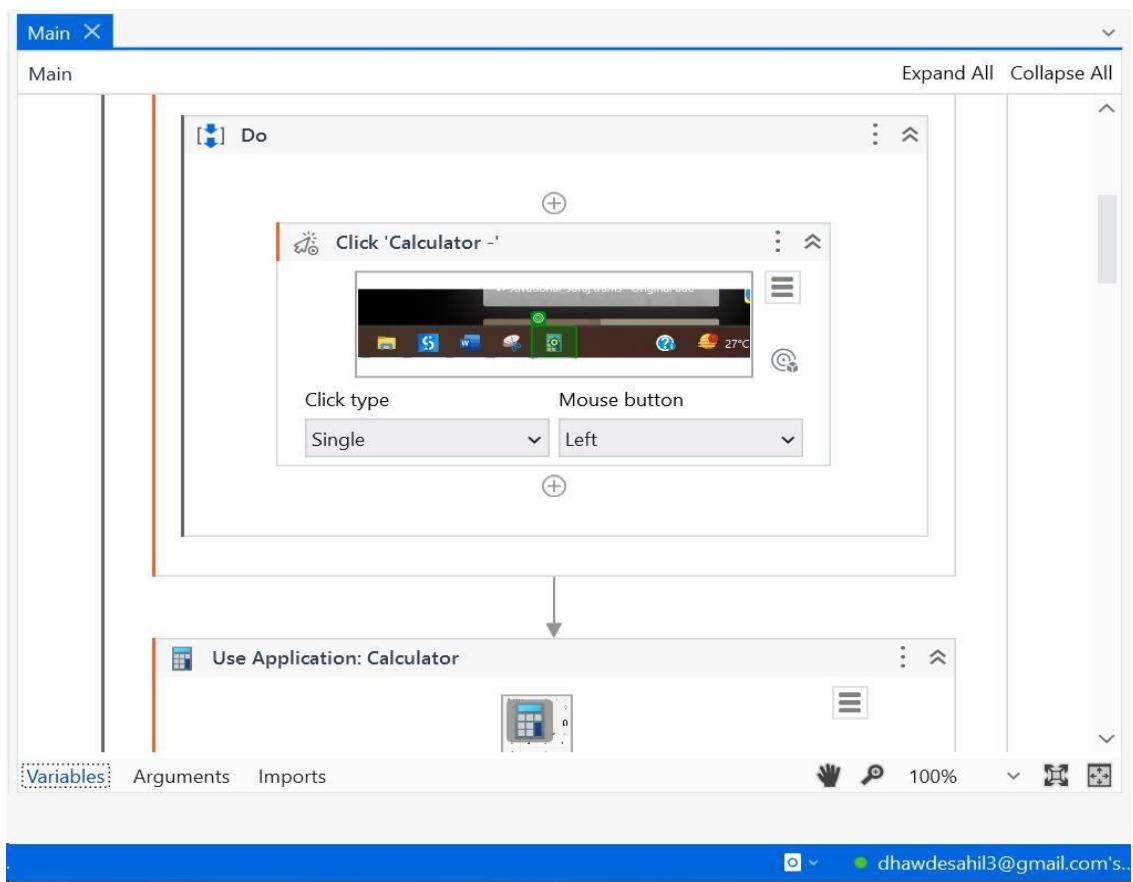
### A. Automate any process using basic recording.

**Steps:**

1. Open project.
2. Select Sequence activity.
3. Select App/Web Recorder icon on Ribbon panel of Uipath studio.
4. Select Calculator icon from task bar and select “Single Click” option.
5. In calculator, select number to calculate with “Single Click” option.
6. Select output display window of calculator and select “Get Text” option.
7. In Get Text activity, save to as “Output.”
8. Select from activities panel Message box activity, type “Calculation has been completed and sum is ” + Output.”
9. Run the project.

**Process & Output:**





Main X

Main

Expand All Collapse All

Click 'CE'

Click type: Single, Mouse button: Left

Click '1'

Click type: Single, Mouse button: Left

Variables Arguments Imports

dhawdesahil3@gmail.com's...

Main X

Main

Expand All Collapse All

Click '6'

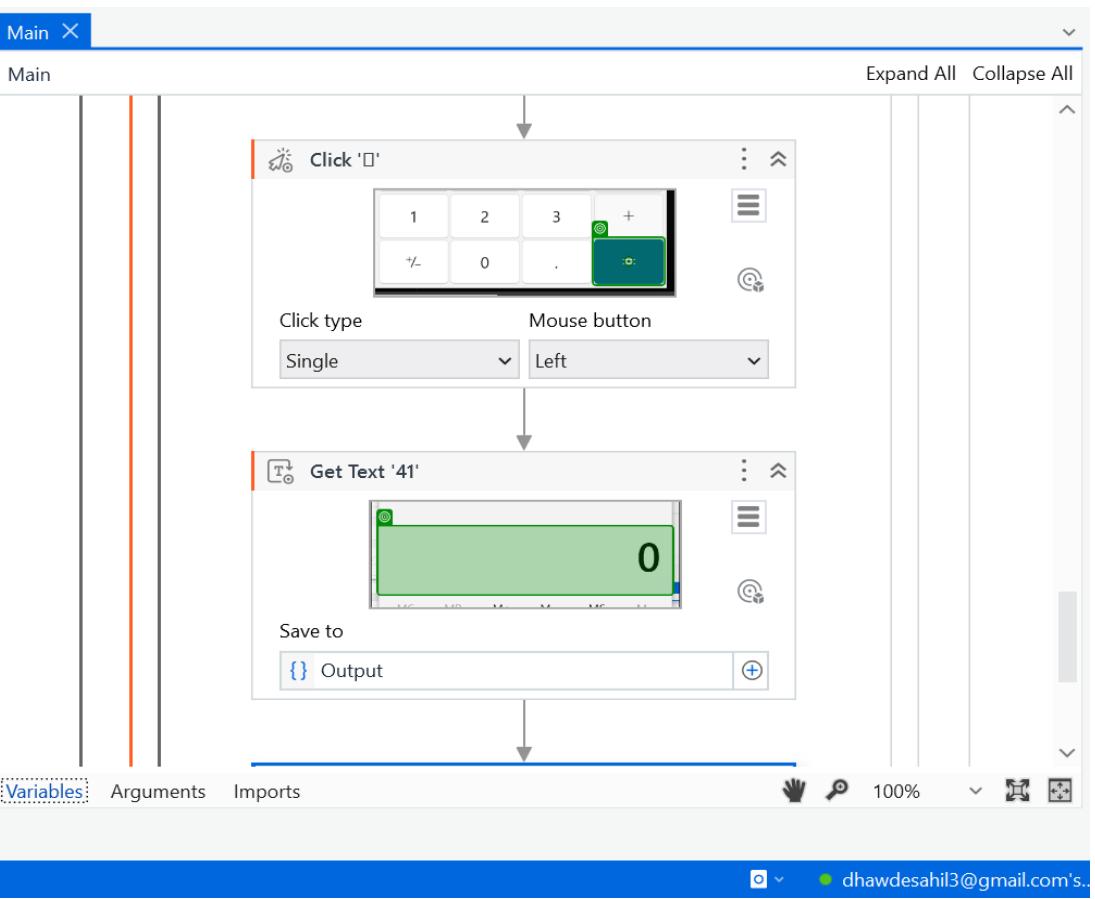
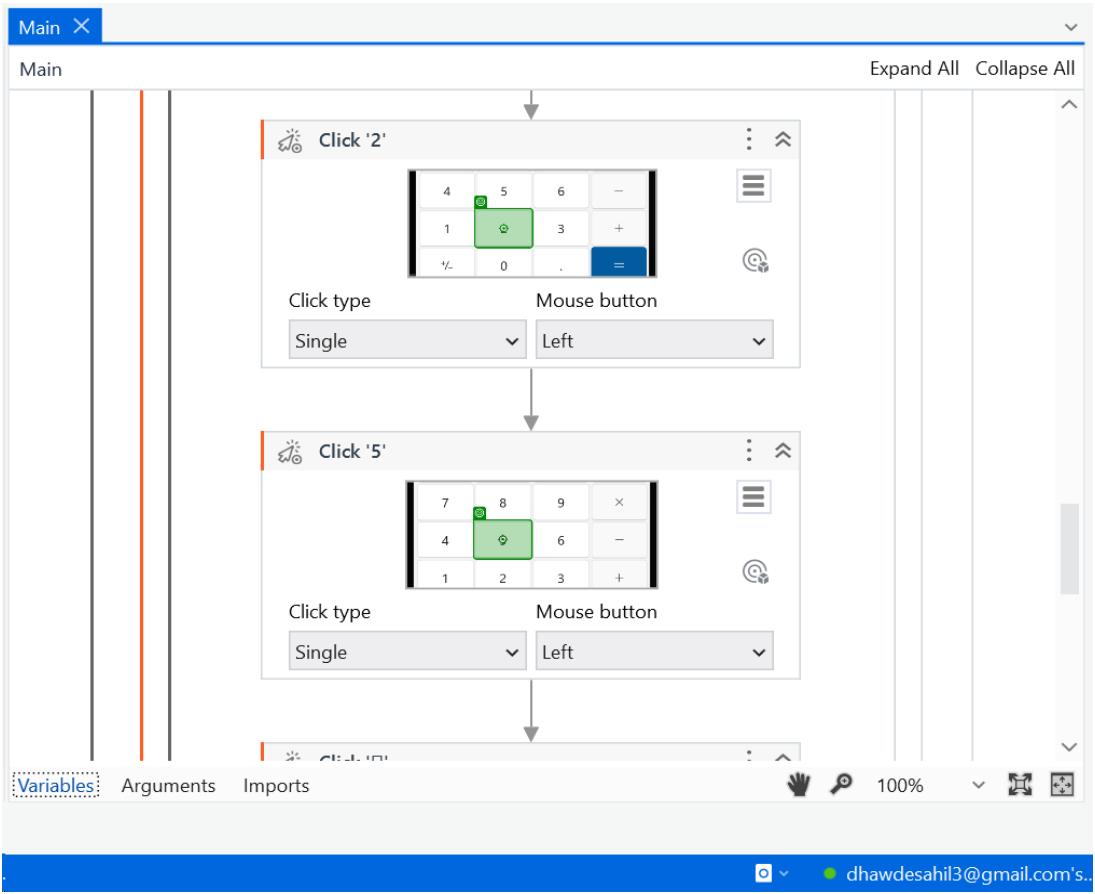
Click type: Single, Mouse button: Left

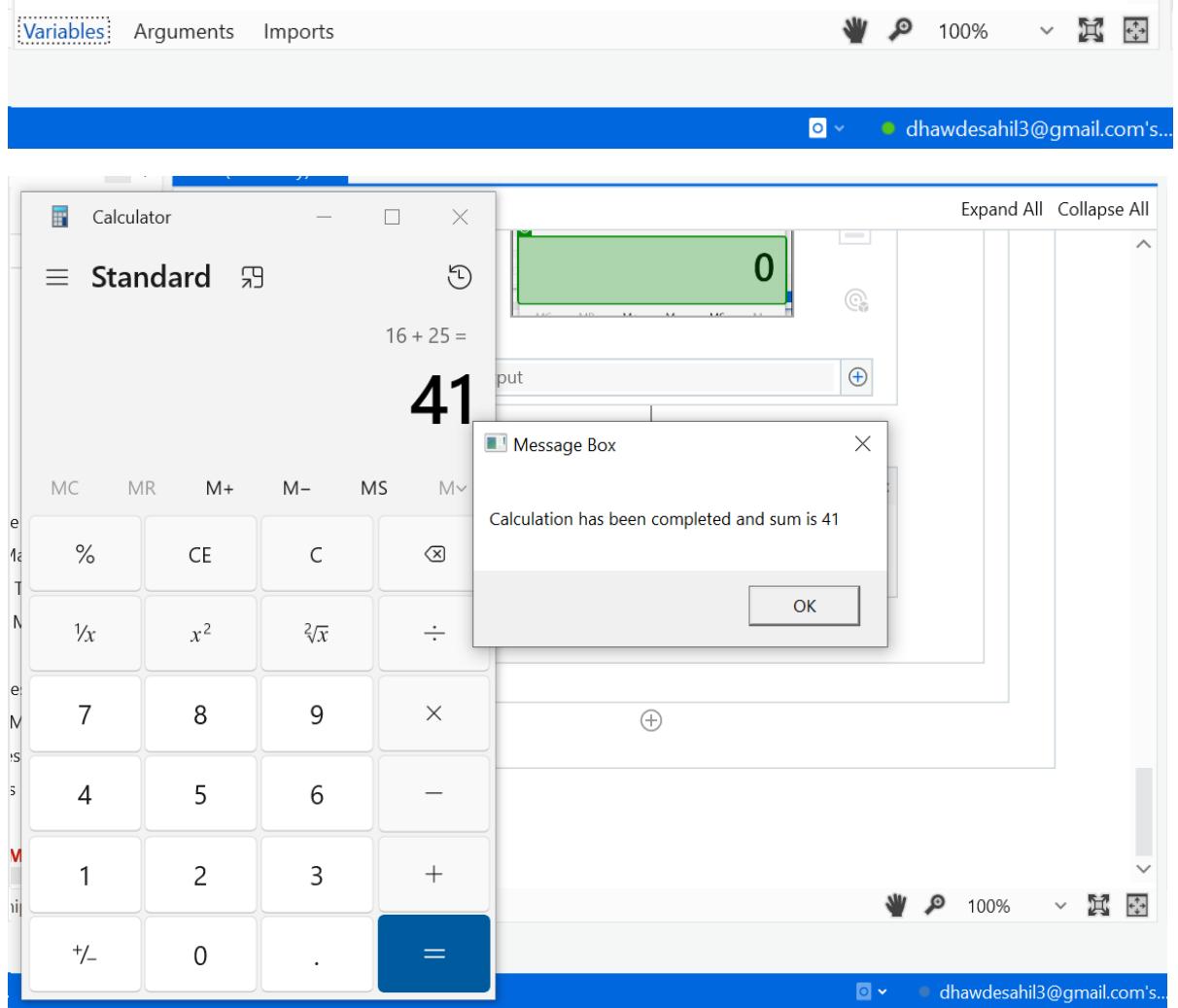
Click '0'

Click type: Single, Mouse button: Left

Variables Arguments Imports

dhawdesahil3@gmail.com's...



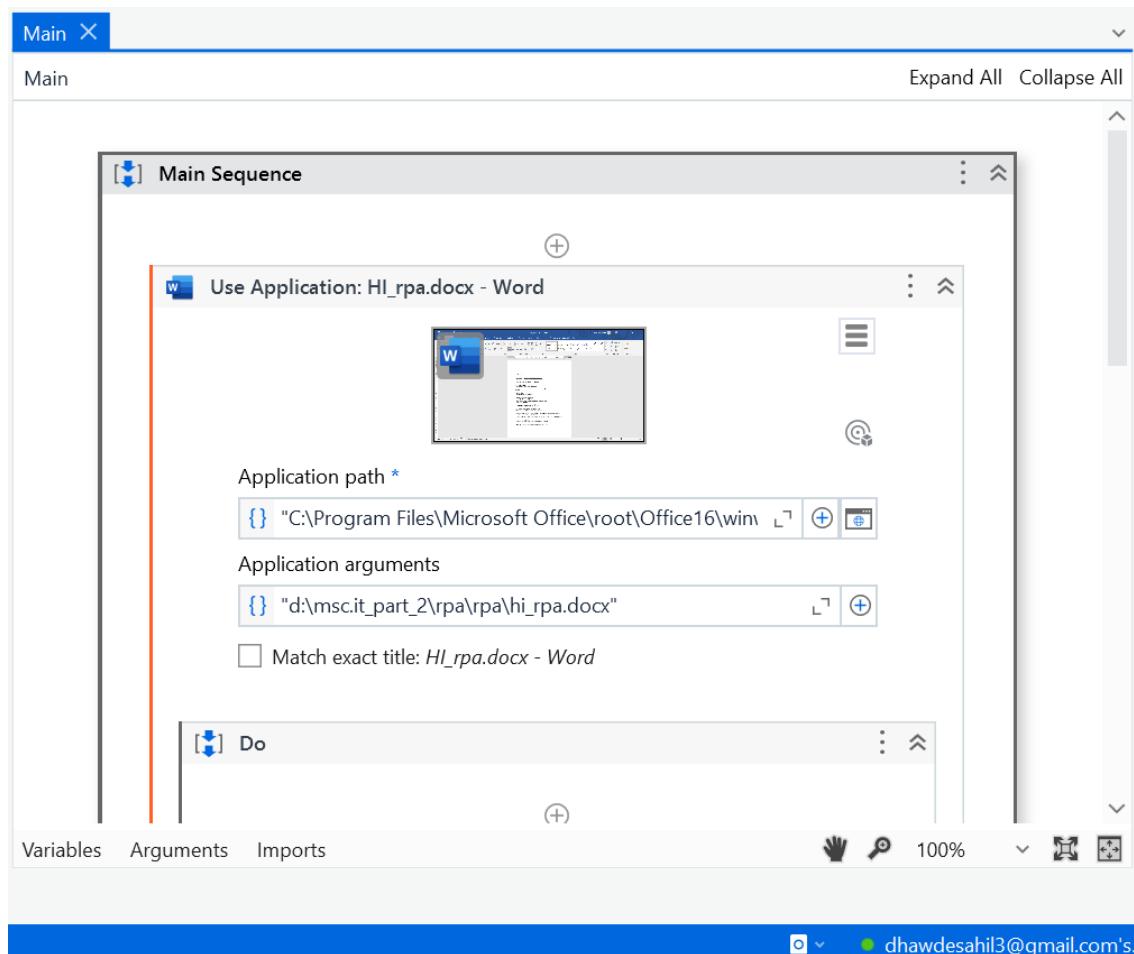


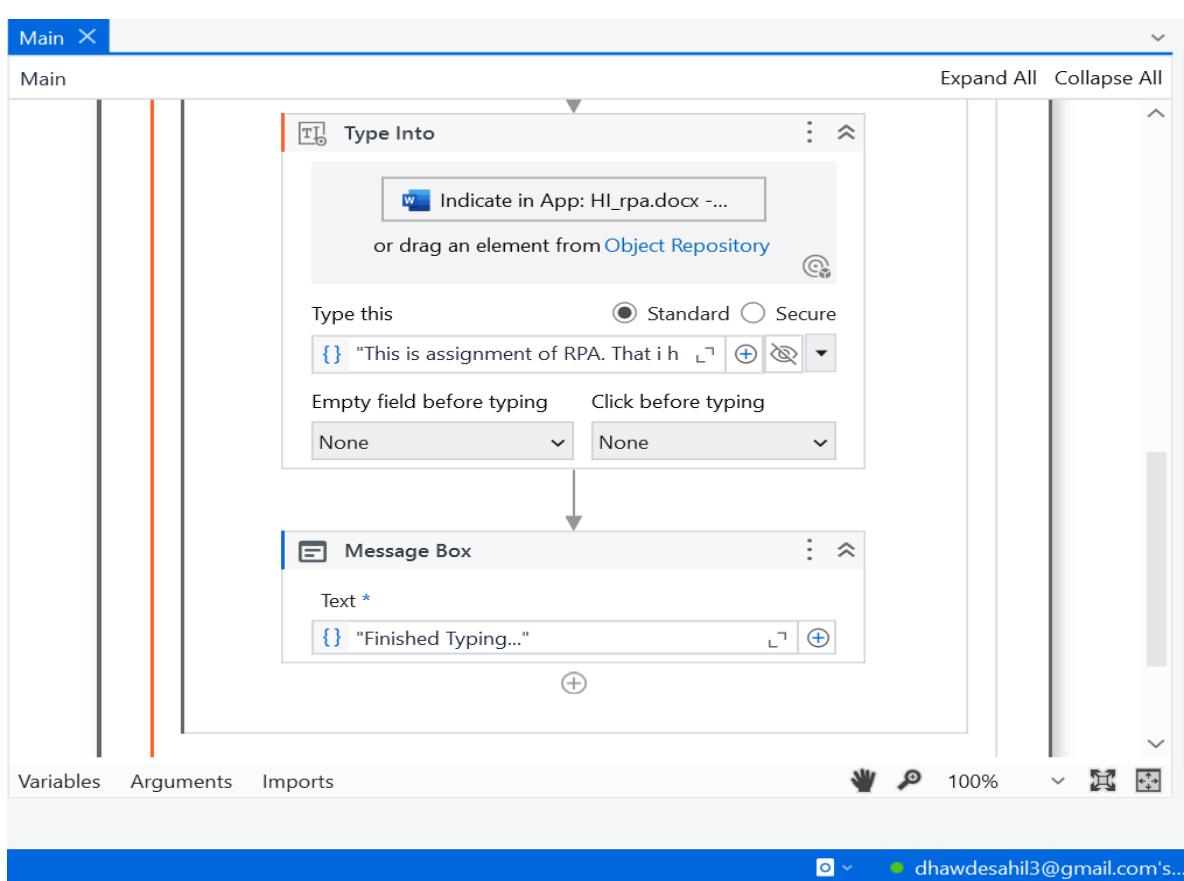
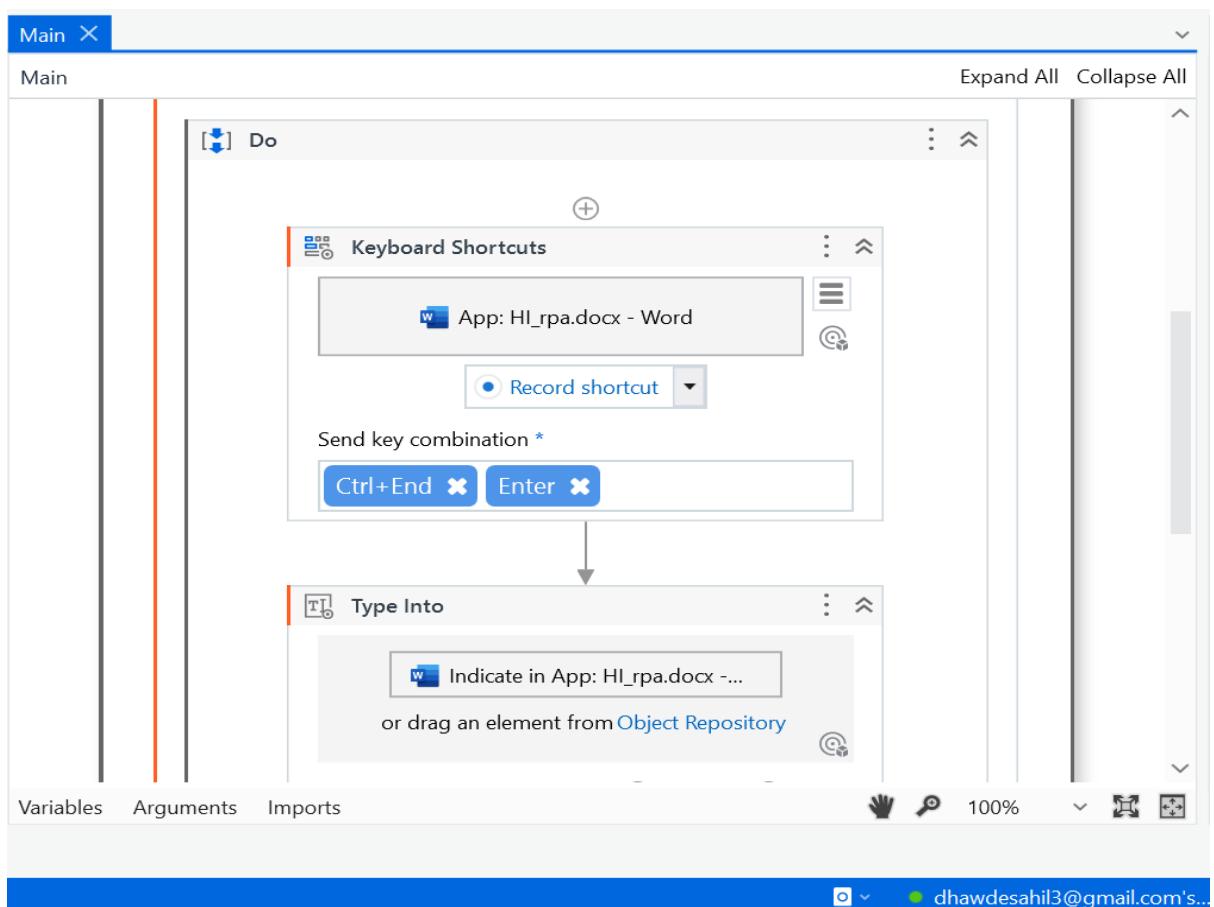
## B. Automate any process using desktop recording.

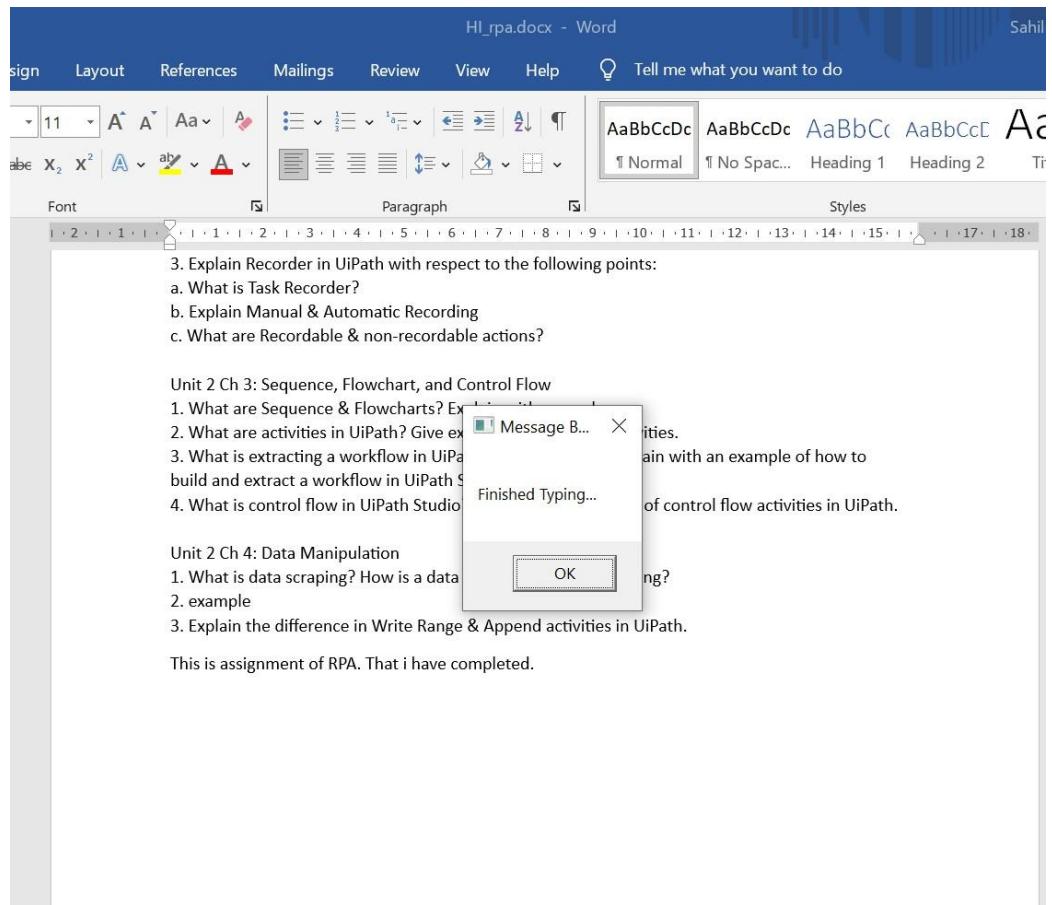
### Steps:

1. Open project.
2. Select Sequence activity.
3. Select from activities panel Use Application/Browser activity, and indicate the word file.
4. In Do block, select from activities panel Key Shortcut activity and record shortcut as “Clt + end and Enter” from Keyboard.
5. Select from activities panel Type into activity.
6. In Type this of Type into enter “This is assignment of RPA. That i have completed. ”.
7. Select from activities panel Message box activity, type "Finished Typing..."
8. Run the project.

### Process & Output:





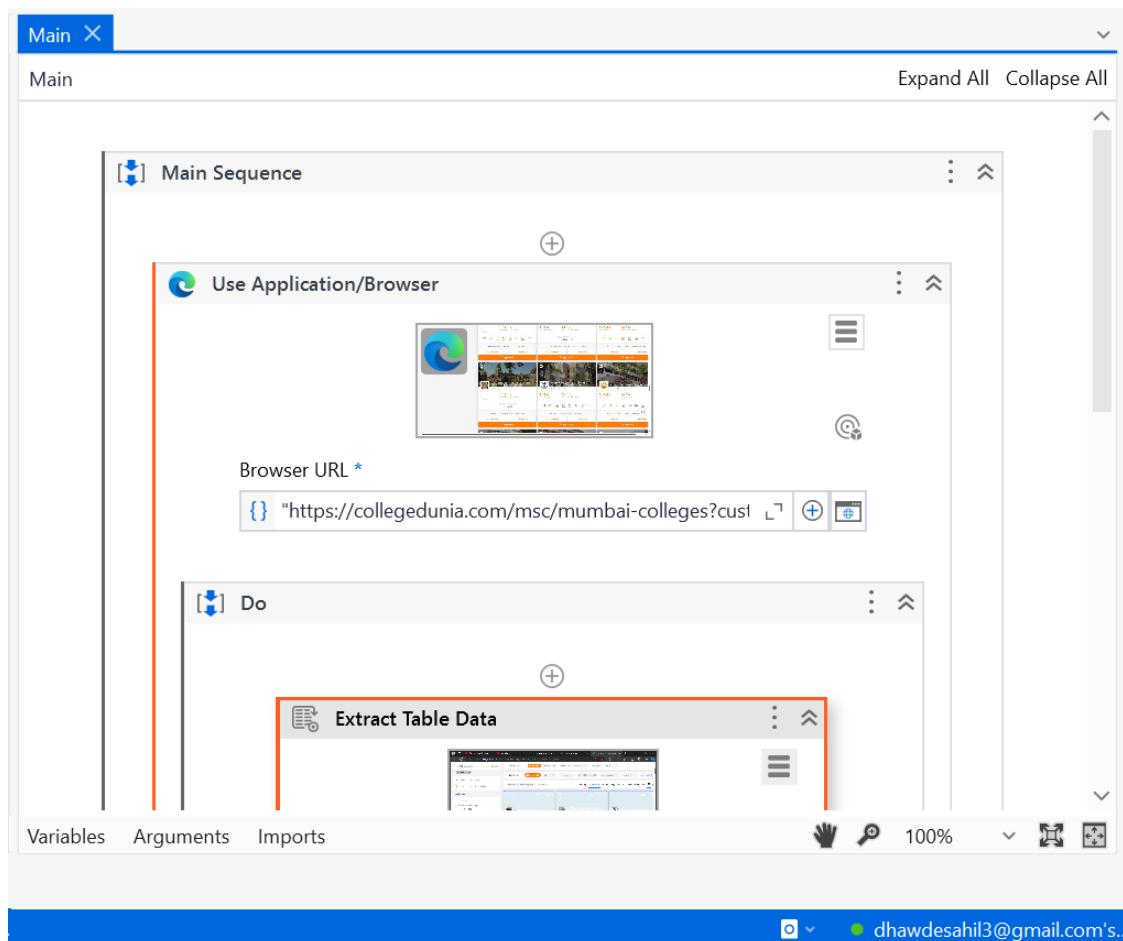


## C. Automate any process using web recording.

### Steps:

1. Open project.
2. Select Sequence activity.
3. Select from activities panel Use Application/Browser activity, and indicate the website of collage.
4. Select Table extraction icon on Ribbon panel of UiPath studio.
5. Select elements on the website to be added as columns in Data Table.
6. Preview data table, make change as per your choice and save it.
7. Select from activities panel Write Range Workbook activity, and give the excel file name, sheet name and cell value as “A1” to write Data Table.
8. Give the content as “ExtractDataTable”.
9. Select Message box and type “Extraction of Data Table has been completed.”.
10. Run the project.

### Process & Output:



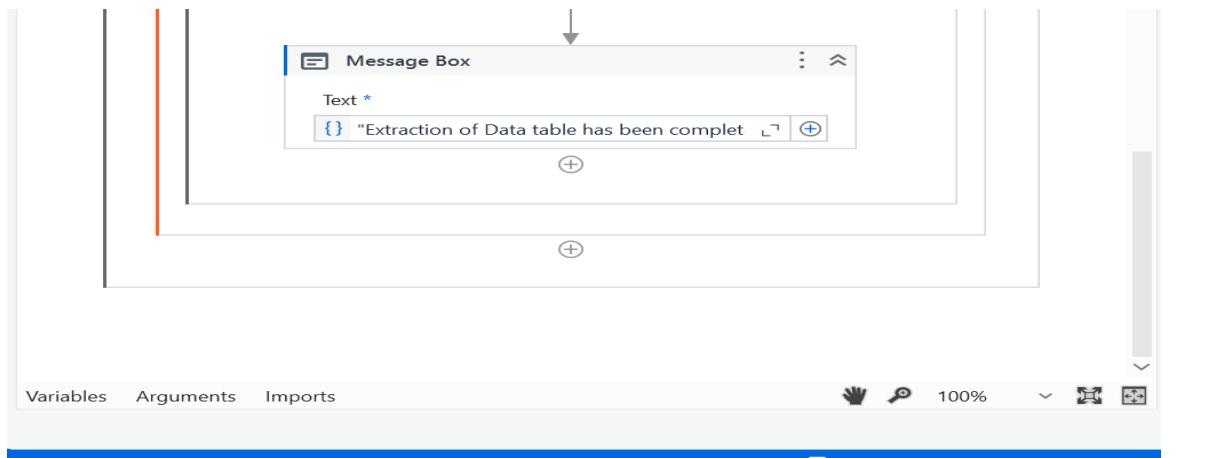
The screenshot shows a search results page for 'Mumbai colleges' on the website collegedunia.com. The results are presented in a grid of three columns. Each row contains a thumbnail image of a college building, the college's name, its location (Mumbai, Maharashtra), fees (e.g., ₹ 12,651 for M.Sc.), ratings (e.g., 8.1 / 10 based on 53 reviews), and a link to 'Apply Now'. The 'Table Extraction' tool is active on the first card, showing the extracted data structure with columns for College Name, Fees, Location, University, Rating, and College Logo Src.

College Name	Fees	Location	University	Rating	College Logo Src
[St. Xavier's College, ...]	[₹ 19,600, -, ₹ 50,00...]	[Mumbai, Maharashtra]	[UGC, AICTE, UGC, ...]	[8.1 / 10, 7.9 / 10, 8.2...]	[https://images.college...]

The screenshot shows a RPA tool's workflow editor with two main steps:

- Extract Table Data**: This step is highlighted with a red box. It has a preview window showing a table from a source system. Below it, the "Extract to" field contains "ExtractDataTable".
- Write Range Workbook**: This step follows the first. It has three output fields:
  - "D:\MSc.IT\_Part\_2\RPA\RPA\_Excel.xlsx"
  - "MSc.IT\_College" mapped to "A1"
  - "ExtractDataTable"

At the bottom, there are tabs for Variables, Arguments, and Imports, along with various toolbars and a status bar showing 100%.



College Name

A	B	C	D	E	F	G	H	I	J	K	L	M
1 College Name	Fees	Location	University	Rating	College Logo Src							
2 St. Xavier's College, Mumbai	₹ 19,600	Mumbai, Maharashtra	UGC	8.1 / 10	https://images.collegedunia.com/public/college_data/images/logos/150469574							
3 D.G. Ruparel College of Arts Science and Commerce	₹ 50,000	Mumbai, Maharashtra	AICTE, UGC	7.9 / 10	https://images.collegedunia.com/public/college_data/images/logos/141681314							
4 Mithibai College of Arts, Mumbai	₹ 37,295	Mumbai, Maharashtra	AICTE, UGC	8.2 / 10	https://images.collegedunia.com/public/college_data/images/logos/156385675							
5 Rammairain Ruija Autonomous College, Mumbai	₹ 13,602	Mumbai, Maharashtra	UGC	7.9 / 10	https://images.collegedunia.com/public/college_data/images/logos/147141201							
6 Jai Hind College - [JHC], Mumbai	₹ 50,920	Mumbai, Maharashtra	AICTE	8.5 / 10	https://images.collegedunia.com/public/college_data/images/logos/150512760							
7 Kishinchand Chellaram College - [KC College]	₹ 33,895	Mumbai, Maharashtra	UGC	8.2 / 10	https://images.collegedunia.com/public/college_data/images/logos/147936750							
8 Sophia College for Women, Mumbai	₹ 44,300	Mumbai, Maharashtra	AICTE	8.6 / 10	https://images.collegedunia.com/public/college_data/images/logos/139512246							
9 IIT Bombay - Indian Institute of Technology	₹ 3,00,000	Mumbai, Maharashtra	UGC	8.5 / 10	https://images.collegedunia.com/public/college_data/images/logos/143195316							
10 IBIMS, Mumbai	₹ 3,50,000	Mumbai, Maharashtra	UGC	8.0 / 10	https://images.collegedunia.com/public/college_data/images/logos/159301934							
11 TISS Tata Institute of Social Sciences, Mumbai	₹ 57,250	Mumbai, Maharashtra	UGC	7.7 / 10	https://images.collegedunia.com/public/college_data/images/logos/145095259							
12 Institute of Chemical Technology - [ICT], Mumbai	₹ 1,00,220	Mumbai, Maharashtra	UGC	7.5 / 10	https://images.collegedunia.com/public/college_data/images/logos/150513139							
13 Alkesh Dinesh Modly Institute for Financial and Management Sciences	₹ 67,230	Mumbai, Maharashtra	UGC	7.8 / 10	https://images.collegedunia.com/public/college_data/images/logos/150044638							
14 Seth GS Medical College - [GSMC], Mumbai	₹ 11,575	Mumbai, Maharashtra	UGC	7.7 / 10	https://images.collegedunia.com/public/college_data/images/logos/143858885							
15 Mumbai University - [MU], Mumbai	₹ 21,267	Mumbai, Maharashtra	UGC	8.3 / 10	https://images.collegedunia.com/public/college_data/images/logos/148151820							
16 Kelkar Education Trust's V.G. Vaze College of Engineering and Technology	₹ 21,267	Mumbai, Maharashtra	UGC	8.3 / 10	https://images.collegedunia.com/public/college_data/images/logos/147074690							
17 Mulund College of Commerce, Mumbai	₹ 40,215	Mumbai, Maharashtra	UGC	7.7 / 10	https://images.collegedunia.com/public/college_data/images/logos/col15945.j							
18 Wilson College, Mumbai	₹ 10,985	Mumbai, Maharashtra	UGC	7.5 / 10	https://images.collegedunia.com/public/college_data/images/logos/146011045							
19 Dr. BMN College of Home Science, Mumbai	₹ 53,000	Mumbai, Maharashtra	UGC	7.8 / 10	https://images.collegedunia.com/public/college_data/images/logos/139885576							
20 SIES College of Arts Science and Commerce	₹ 11,575	Mumbai, Maharashtra	UGC	7.7 / 10	https://images.collegedunia.com/public/college_data/images/logos/col13860.jp							
21 Rammiranjan Jhunjhunwala College - [R.J.C.]	₹ 14,865	Mumbai, Maharashtra	UGC	8.3 / 10	https://images.collegedunia.com/public/college_data/images/logos/151524149							
22 Shreemati Nisthalai Damodar Thackeray College of Engineering and Technology	₹ 97,245	Mumbai, Maharashtra	UGC	7.5 / 10	https://images.collegedunia.com/public/college_data/images/logos/14291020							

College Name

A	B	C	D	E	F	G	H	I	J	K	L	M
26 Marine Engineering And Research Institute - [MERI]	₹ 1,85,000	Mumbai, Maharashtra	UGC	8.7 / 10	https://images.collegedunia.com/public/college_data/images/logos/1473734989							
27 The Second Wind - [TSW], Mumbai	₹ 1,80,000	Mumbai, Maharashtra	UGC	8.7 / 10	https://images.collegedunia.com/public/college_data/images/logos/158226958							
28 LN Group of Institutes, Mumbai	₹ 1,20,25	Mumbai, Maharashtra	AICTE	6.8 / 10	https://images.collegedunia.com/public/college_data/images/logos/147824987							
29 Maharshi Dayanand College of Arts Science & Commerce	₹ 1,20,25	Mumbai, Maharashtra	UGC	6.8 / 10	https://images.collegedunia.com/public/college_data/images/logos/142537784							
30 NG Acharya and DK Marathe College of Arts & Science	₹ 15,500	Mumbai, Maharashtra	UGC	6.2 / 10	https://images.collegedunia.com/public/college_data/images/logos/13959904							
31 Rizvi College of Arts Science and Commerce	₹ 15,500	Mumbai, Maharashtra	UGC	7.6 / 10	https://images.collegedunia.com/public/college_data/images/logos/142769682							
32 PTVA's Sathaye College, Mumbai	₹ 12,651	Mumbai, Maharashtra	UGC	7.5 / 10	https://images.collegedunia.com/public/college_data/images/logos/147929608							
33 Bhavan's College, Mumbai	₹ 27,760	Mumbai, Maharashtra	UGC	8.1 / 10	https://images.collegedunia.com/public/college_data/images/logos/140868639							
34 Guru Nanak Khalsa College of Arts, Science & Commerce	₹ 10,621	Mumbai, Maharashtra	UGC	7.2 / 10	https://images.collegedunia.com/public/college_data/images/logos/147143686							
35 Guru Nanak College of Arts Science and Commerce	₹ 41,601	Mumbai, Maharashtra	UGC	7.5 / 10	https://images.collegedunia.com/public/college_data/images/logos/col1784.j							
36 Kirti M Dongarsee College of Arts Science and Commerce	₹ 10,621	Mumbai, Maharashtra	UGC	7.2 / 10	https://images.collegedunia.com/public/college_data/images/logos/147928993							
37 Nagindas Khandwala College, Mumbai	₹ 1,00,000	Mumbai, Maharashtra	UGC	7.7 / 10	https://images.collegedunia.com/public/college_data/images/logos/147929558							
38 Sir Sitaram and Lady Shantabai Patkar College	₹ 1,00,000	Mumbai, Maharashtra	AICTE	7.3 / 10	https://images.collegedunia.com/public/college_data/images/logos/col4538.j							
39 Vivekanand Education Society's College of Arts	₹ 51,730	Mumbai, Maharashtra	UGC	8.1 / 10	https://images.collegedunia.com/public/college_data/images/logos/168553120							
40 Vikas Night College of Arts Science and Commerce	₹ 1,00,000	Mumbai, Maharashtra	UGC	6.3 / 10	https://images.collegedunia.com/public/college_data/images/logos/139762566							
41 Rachna Sansad School of Design, Mumbai	₹ 1,01,000	Mumbai, Maharashtra	AICTE, NBA	6 / 10	https://images.collegedunia.com/public/college_data/images/logos/145769761							
42 National Institute for Research in Reproductive Health	₹ 1,00,000	Mumbai, Maharashtra	UGC	8.7 / 10	https://images.collegedunia.com/public/college_data/images/logos/142622396							
43 JD Institute of Fashion Technology, Mumbai	₹ 1,80,000	Mumbai, Maharashtra	UGC	8.3 / 10	https://images.collegedunia.com/public/college_data/images/logos/161572266							
44 Bunts Sangha's S.M. Shetty College of Science and Technology	₹ 65,500	Mumbai, Maharashtra	AICTE	8.2 / 10	https://images.collegedunia.com/public/college_data/images/logos/142890834							
45 Tata Memorial Centre - [TMC], Mumbai	₹ 50,000	Mumbai, Maharashtra	MCI	9.8 / 10	https://images.collegedunia.com/public/college_data/images/logos/170124145							
46 Topiwala National Medical College - [TNMC]	₹ 65,500	Mumbai, Maharashtra	MCI	8.1 / 10	https://images.collegedunia.com/public/college_data/images/logos/147920628							
47 Anil Gurodia Modi School of Commerce	₹ 2,00,000	Mumbai, Maharashtra	AICTE	7.6 / 10	https://images.collegedunia.com/public/college_data/images/logos/150667096							

## Practical No: 5

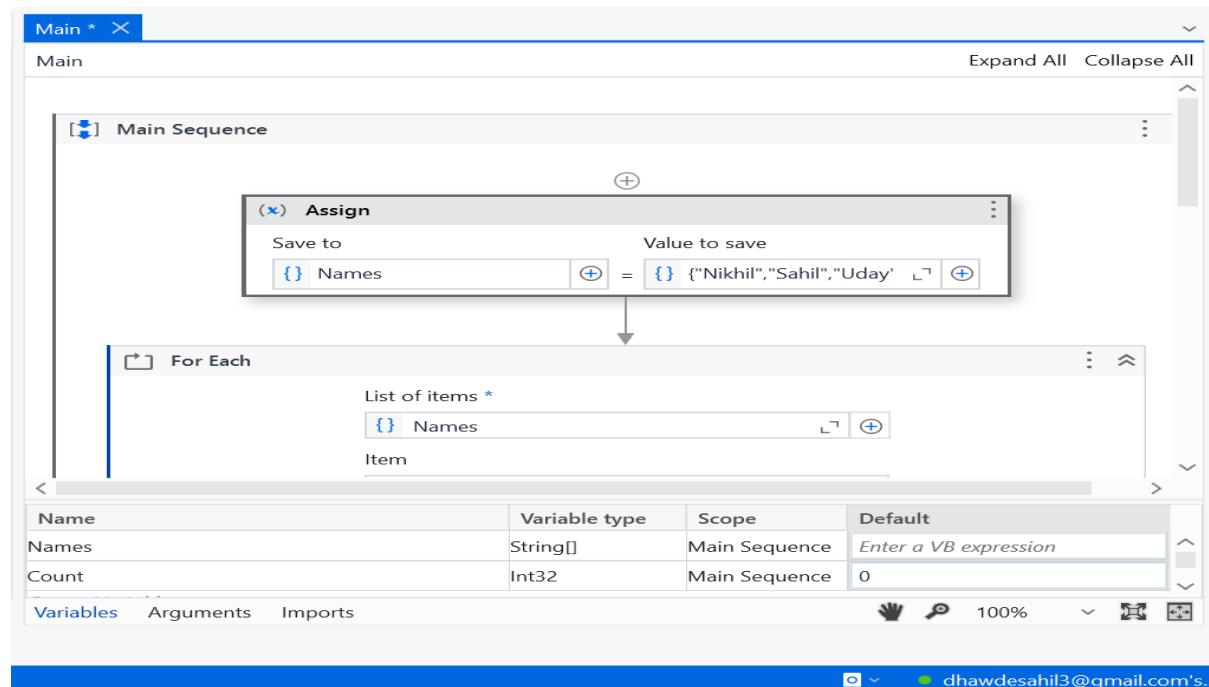
**Aim: Implement the following:**

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

**Steps:**

1. Open Project.
2. Select Sequence activity.
3. Create two variables' Names (array of string) and count (int32).
4. Select from activities panel Assign activity, and assign Names = { "Nikhil", "Sahil", "Uday", "Nihal", "Nicks", "Nikita", "Anuj" }.
5. Select from activities panel For Each activity.
6. In For Each, set values of List of items as "Names".
7. Set values of Item as "currentItem"
8. Inside the Body of For Each
9. Select the If activity.
10. In If activity, type condition as "currentItem.StartsWith("N")"
11. In Then block, select Assign activity to assign "count = count +1".
12. Run the project.

**Process & Output:**



Main \* X

Main

Expand All Collapse All

For Each

List of items \*

{ Names }

Item

currentItem

Body

If

Condition \*

{ currentItem.StartsWith("N") }

Then

Name Variable type Scope Default

Variables Arguments Imports

dhawdesahil3@gmail.com's...

This screenshot shows the Power Automate designer interface for a 'For Each' loop. The 'List of items' is set to 'Names'. The 'Item' variable is 'currentItem'. Inside the loop body, there is an 'If' condition where the 'Condition' is '{ currentItem.StartsWith("N") }'. If the condition is true, the 'Then' block will be executed.

Main \* X

Main

Expand All Collapse All

Assign

Save to

{ Count }

Value to save

{ Count+1 }

Else

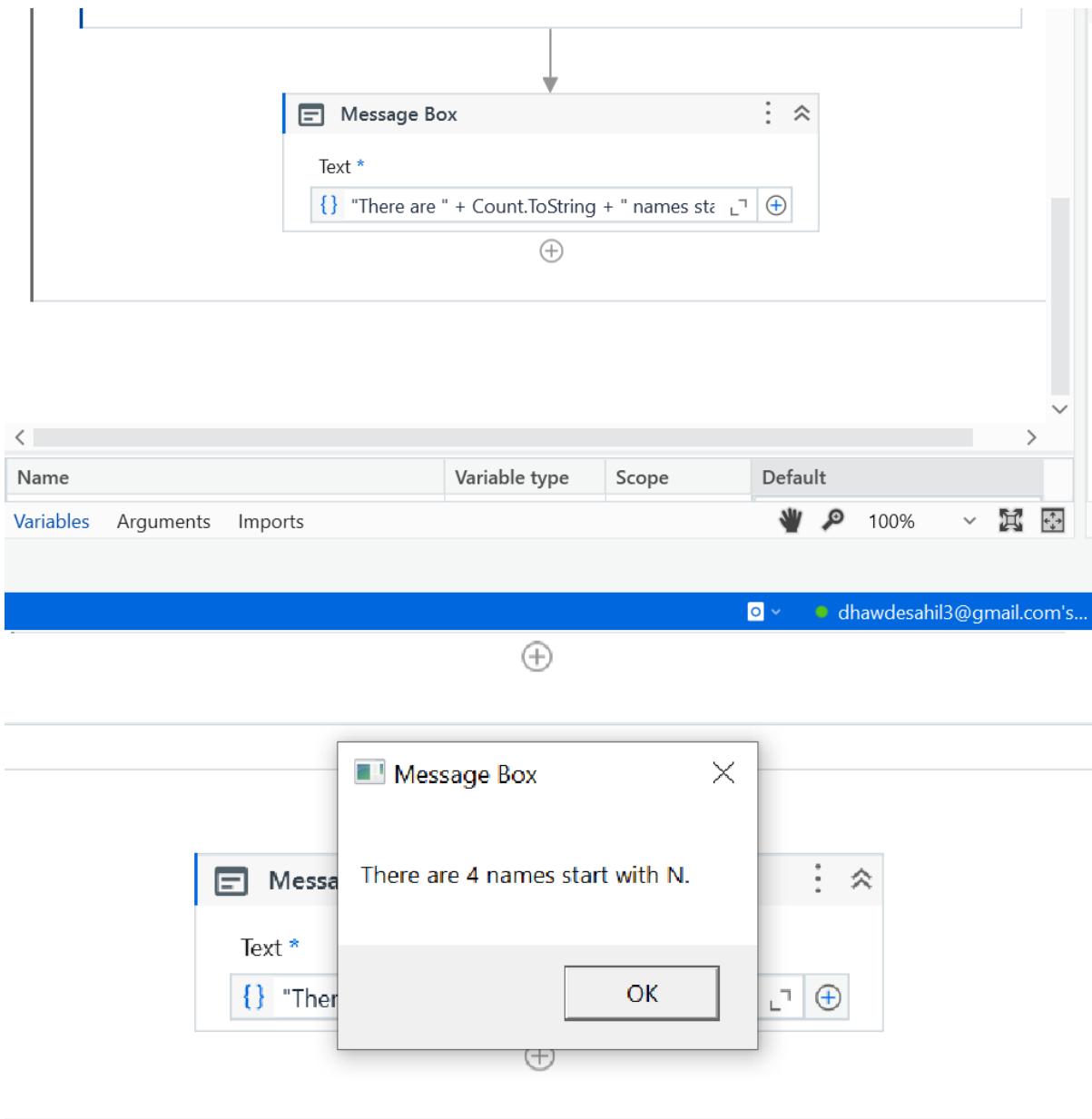
Message Box

Name Variable type Scope Default

Variables Arguments Imports

dhawdesahil3@gmail.com's...

This screenshot shows the continuation of the Power Automate flow. After the 'If' condition is evaluated, the 'Then' block contains an 'Assign' action. It saves the value of 'Count' to 'Value to save' as '{ Count+1 }'. Following this, a 'Message Box' action is present, which typically displays a message to the user.



## Practical No: 6

**Aim:** Implement the following:

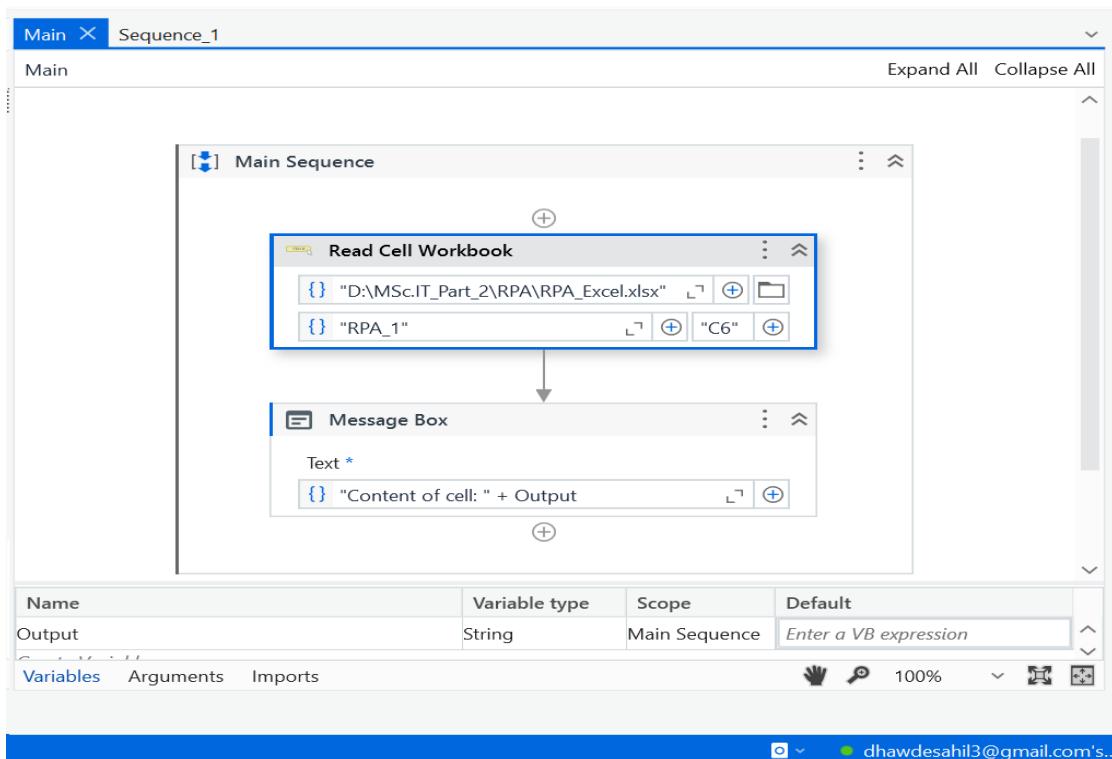
**A. Create an application automating the read, write and append operation on excel file.**

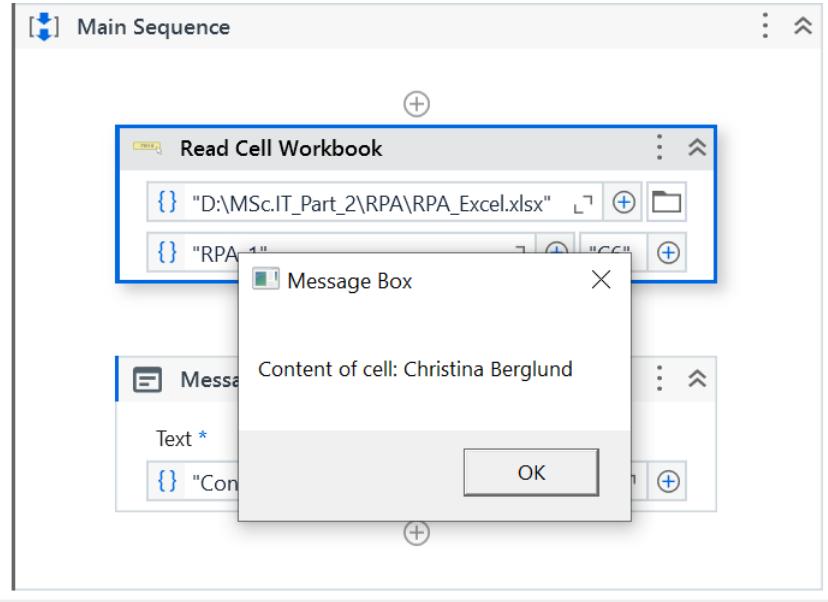
### i. Read Cell

**Steps:**

1. Open Project.
2. Select Sequence activity.
3. Create variable Output (string).
4. Select from activities panel Read Cell Workbook activity, and give the excel file name, sheet name and cell value that you have to read.
5. Select from activities panel Message box activity, type “Content of cell: + Output”.
6. Run the project.

**Process & Output:**



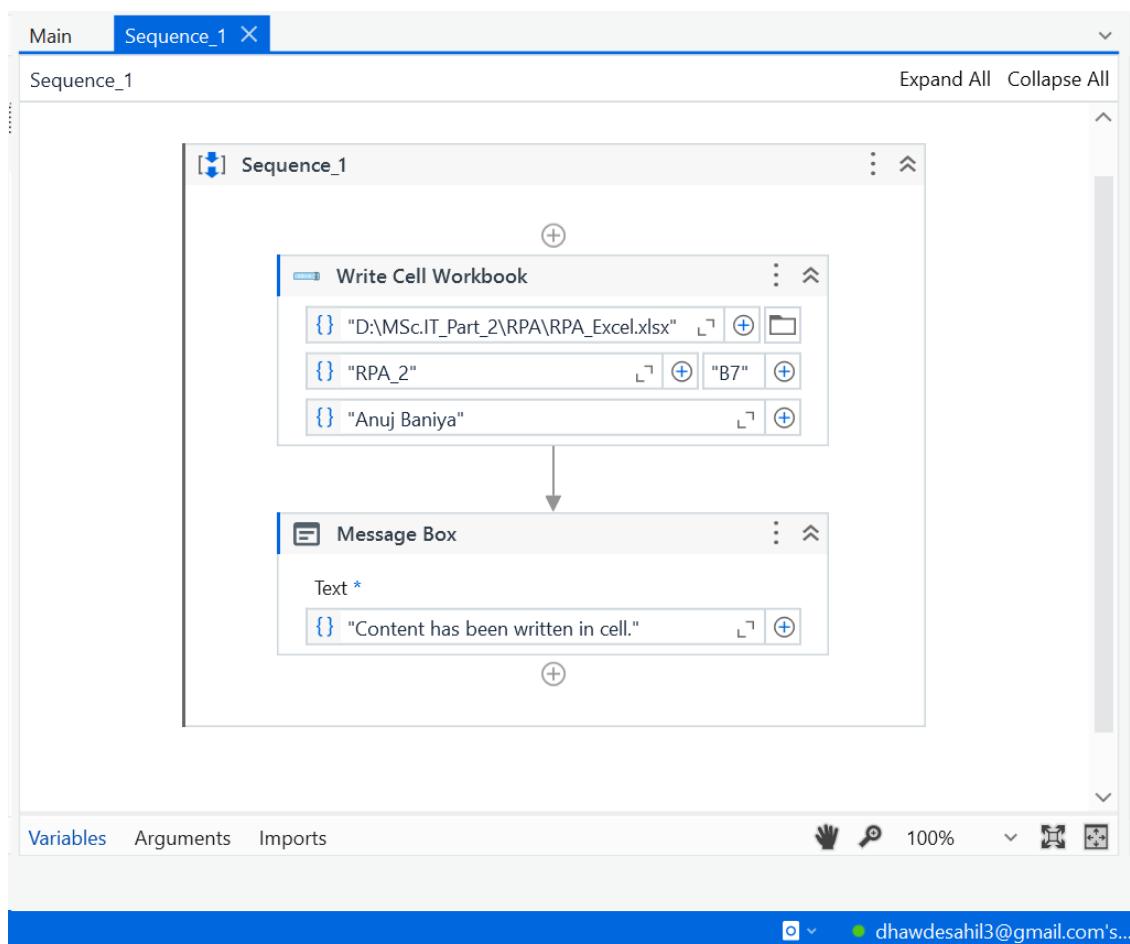


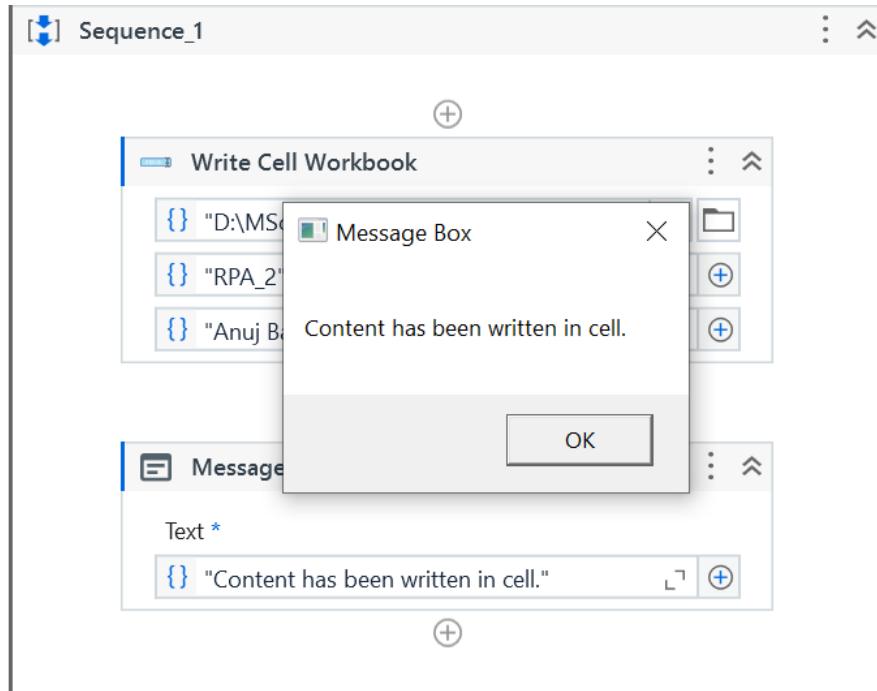
## ii. Write Cell

### Steps:

1. Open Project.
2. Select Sequence activity.
3. Select from activities panel Write Cell Workbook activity, and give the excel file name, sheet name and cell value on which you have to write the content.
4. Write the content in Content box.
5. Select from activities panel Message box activity, type “Content has been written in cell”.
6. Run the project.

### Process & Output:





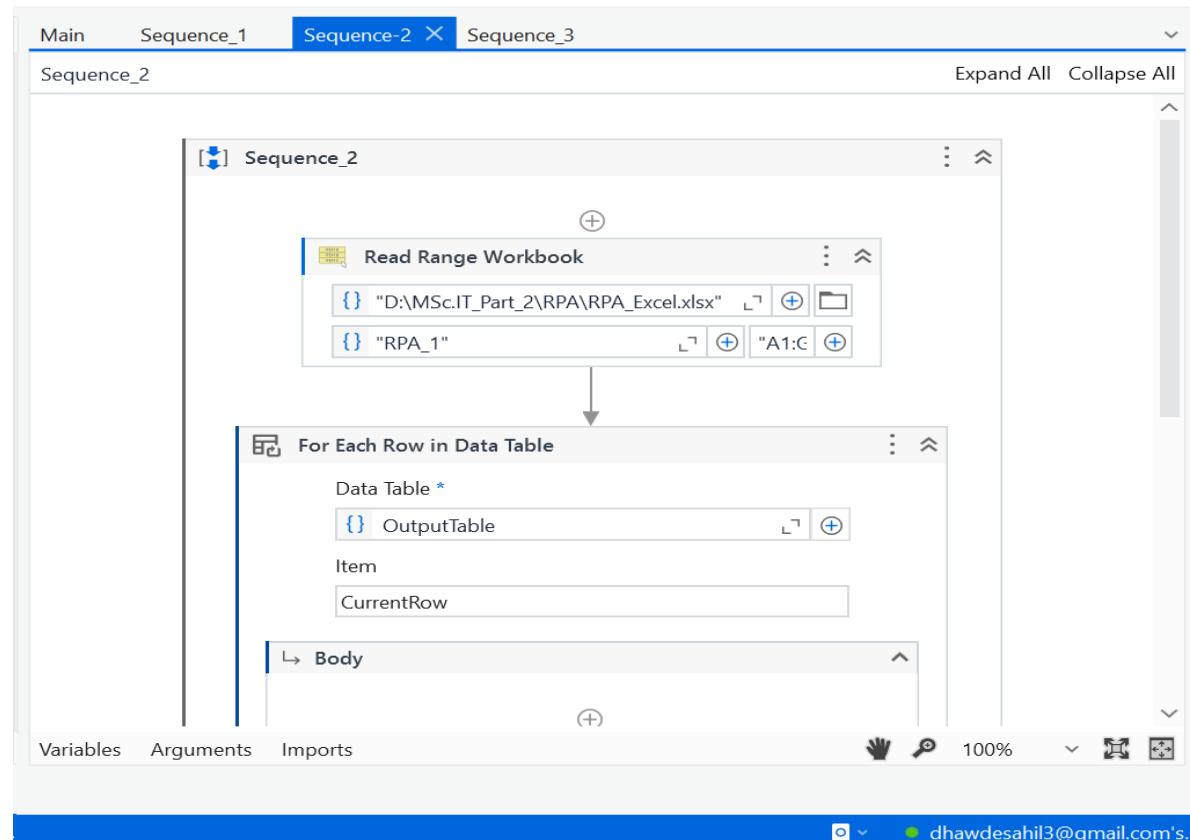
RPA_Excel.xlsx - Excel							
	A	B	C	D	E	F	G
1	CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
2	1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209	Germany
3	2	Ana Trujillo Emparedados	Ana Trujillo	Avda. de la Constituci�n	M�xico D.F.	05021	Mexico
4	3	Antonio Moreno Taqueros	Antonio Moreno	Mataderos 2312	M�xico D.F.	05023	Mexico
5	4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK
6	5	Berglunds snabbk�p	Christina Berglund	Berguvsv�gen 8	Lule�	S-958 22	Sweden
7		Anuj Baniya					
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

### iii. Read Range

#### Steps:

1. Open Project.
2. Select Sequence activity.
3. Select from activities panel Read Range Workbook activity, and give the excel file name, sheet name and cell value as "A1:G7" to read whole table.
4. Create OutputTable variable as DataTable.
5. Select For Each in Data Table activity.
6. Set values of List of items as "OutputTable".
7. Set values of Item as "CurrentRow".
8. Inside the Body of For Each in DataTable.
9. Select the Write line activity & enter text "CurrentRow.Item(0).ToString + " CustomerID " + CurrentRow.Item(1).ToString + " CustomerName " + CurrentRow.Item(2).ToString + " ContactName " + CurrentRow.Item(3).ToString + " Address " + CurrentRow.Item(4).ToString + " City " + CurrentRow.Item(5).ToString + " PostalCode " + CurrentRow.Item(6).ToString + " Country "".
10. Select Message box and type "Reading of Excel Content has been completed.".
11. Run the project.

#### Process & Output:



Main Sequence\_1 Sequence-2 **X** Sequence\_3

Sequence\_2

Expand All Collapse All

Body

Write Line

Text

{ CurrentRow.Item(0).ToString + " Customer" }

Message Box

Text \*

{ "Reading of Excel Content has been completed." }

Name Variable type Scope Default

OutputTable DataTable Sequence\_2 Enter a VB expression

Variables Arguments Imports

dhawdesahil3@gmail.com's...

```
graph TD; A[Write Line] --> B[Message Box];
```

ble

Variable type Scope Default

DataTable Sequence\_2 Enter a VB expression

Arguments Imports

dhawdesahil3@gmail.com

```
graph TD; A[Write Line] --> B[Message Box]; B --> C[Message Box];
```

## Output

Search

① Execution started for file: Sequence-2

## ① Excel\_operations execution started

© 1 CustomerID Alfreds Futterkiste CustomerName Maria Anders ContactName Obere Str. 57 Address Berlin City 12209 PostalCode Germany Country

© 2 CustomerID Ana Trujillo Emparedados y helados CustomerName Ana Trujillo ContactName Avda. de la Constitución 2222 Address México D.F. City 05021 PostalCode Mexico Country

© 3 CustomerID Antonio Moreno Taquería CustomerName Antonio Moreno ContactName Mataderos 2312 Address México D.F. City 05023 PostalCode Mexico Country

## ① Excel\_operations execution e

Output Breakpoints Error List

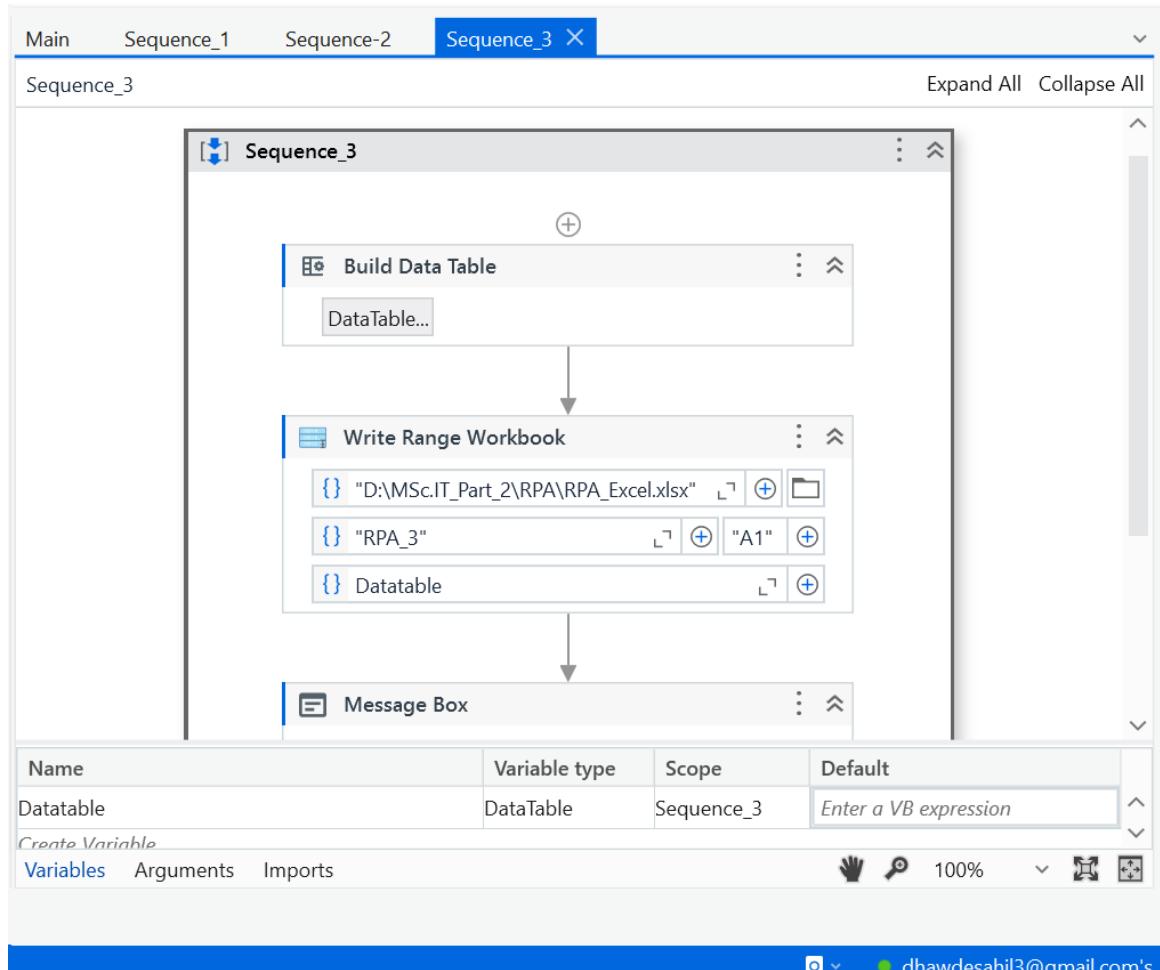
 dhawdesahil3@gmail.com's... 

## iv. Write Range

### Steps:

1. Open Project.
2. Select Sequence activity.
3. Select from activities panel Build Data Table activity, and create a Data Table.
4. Create OutputTable variable as DataTable.
5. Select from activities panel Write Range Workbook activity, and give the excel file name, sheet name and cell value as “A1” to write Data Table.
6. Give the content as “OutputTable”.
7. Select Message box and type “Writing of excel file has been completed.”.
8. Run the project.

### Process & Output:



3

Expand All Coll

Build Data Table

	Name (String)	Roll No (Int32)	Course (String)
x	Anuj	1	M.Com
x	Sarvadnya	2	MBA
x	Sarvesh	3	M.Sc
x	Siddhesh	4	MCA
x	Aniket	5	B.Tech
x	Uday	6	M.Sc It
x	Sahil	7	M.Sc It
x			

OK Cancel

Message Box

Text \*

{ } "Writing of excel file has been completed."

Arguments Imports

dhawdesahil3@gmail.com

Message Box

Text \*

{ } "Writing of excel file has been completed."

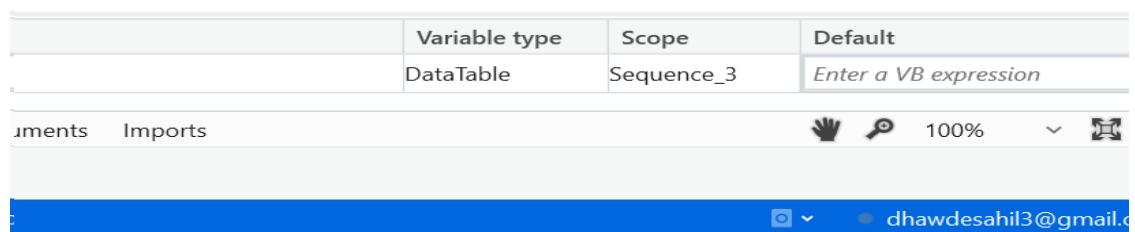
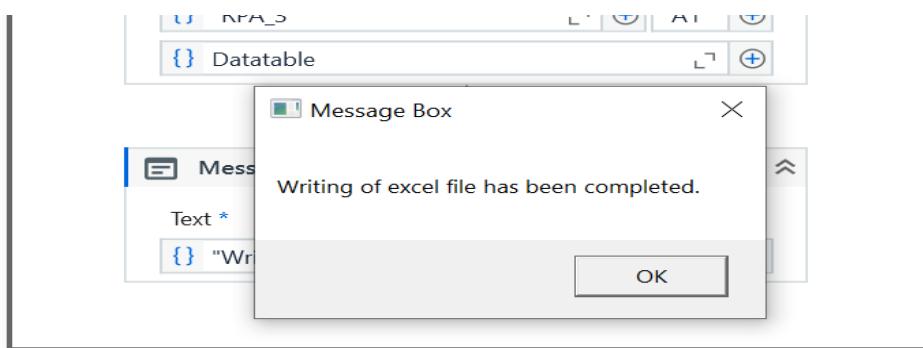
+

Name	Variable type	Scope	Default
Datatable	DataTable	Sequence_3	Enter a VB expression

Create Variable

Variables Arguments Imports

dhawdesahil3@gmail.com's



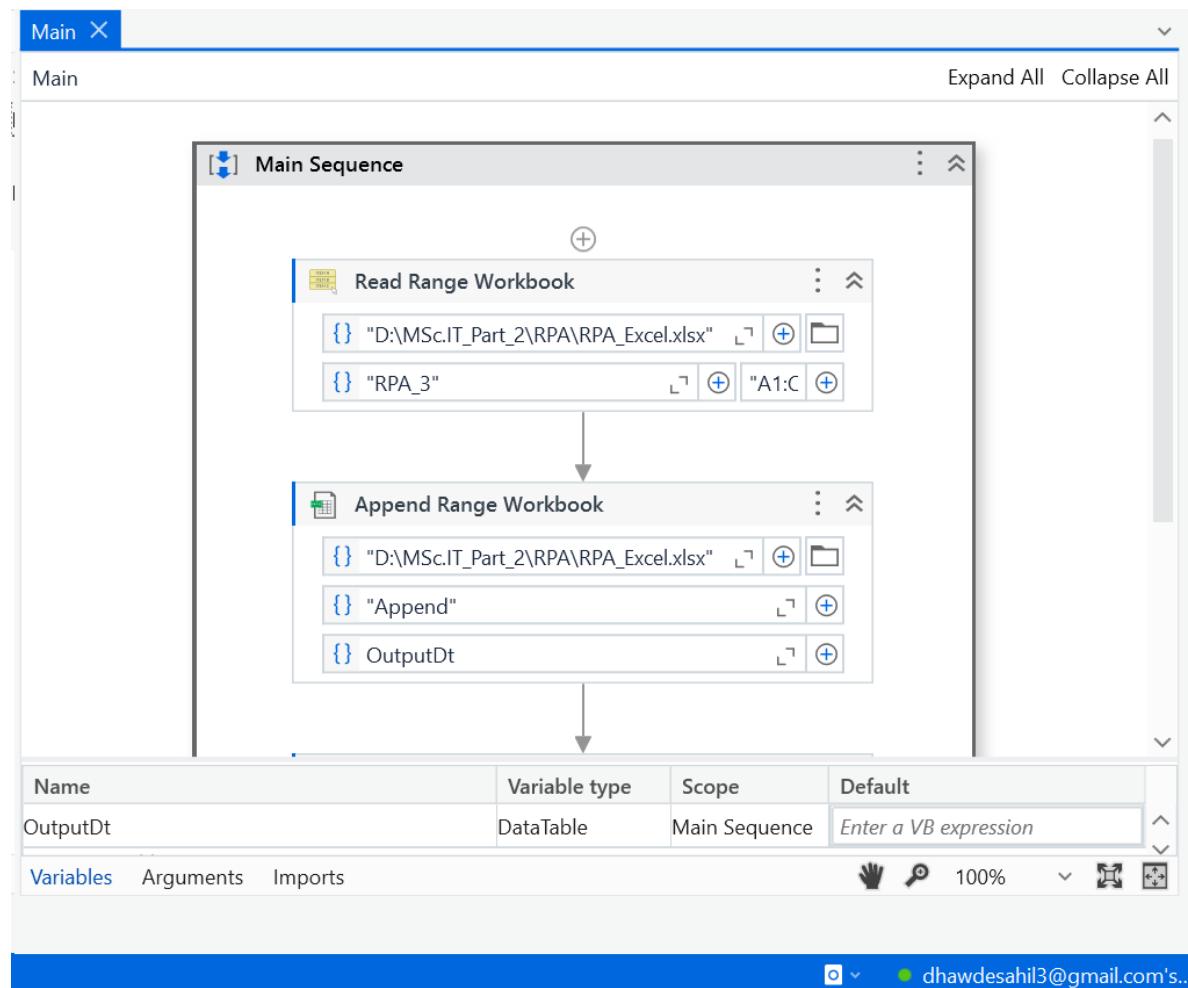
H12			
	A	B	C
1	Name	Roll No	Course
2	Anuj		1 M.Com
3	Sarvadnya		2 MBA
4	Sarvesh		3 M.Sc
5	Siddhesh		4 MCA
6	Aniket		5 B.Tech
7	Uday		6 M.Sc It
8	Sahil		7 M.Sc It
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

## v. Append Range

### Steps:

1. Open Project.
2. Select Sequence activity.
3. Select from activities panel Read Range Workbook activity, and give the excel file name, sheet name and cell value as "A1:G7" to read whole table.
4. Create OutputTable variable as DataTable.
5. Select Append activity from activities panel.
6. Give the excel file name, sheet name and DataTable as "OutputTable" to append the Data Table.
7. Select Message box and type "Appending of excel sheet has been completed".
8. Run the project.

### Process & Output:



The screenshot illustrates a RPA workflow setup and its execution.

**Top Panel (Workflow Designer):**

- A "Message Box" activity is defined with the text: "Appending of excel sheet hai been completed."
- A variable table is present below the message box.
- The interface includes tabs for Variables, Arguments, and Imports, along with zoom and filter tools.

**Middle Panel (Execution View):**

- The message box is displayed with the text: "Appending of excel sheet has been completed."
- An "OK" button is visible at the bottom of the message box window.
- A variable table is present below the message box.
- The status bar shows the email: "dhawdesahil3@gmail.com's..."

**Bottom Panel (Excel Worksheet):**

- The Excel sheet is titled "RPA\_Excel.xlsx".
- The "Append" tab is selected in the ribbon.
- The worksheet contains three rows of data from different sheets ("RPA\_1", "RPA\_2", "RPA\_3") being appended into a single "Append" sheet.
- The data includes columns for Customer ID, Customer Name, Contact Name, Address, City, Postal Code, and Country.

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

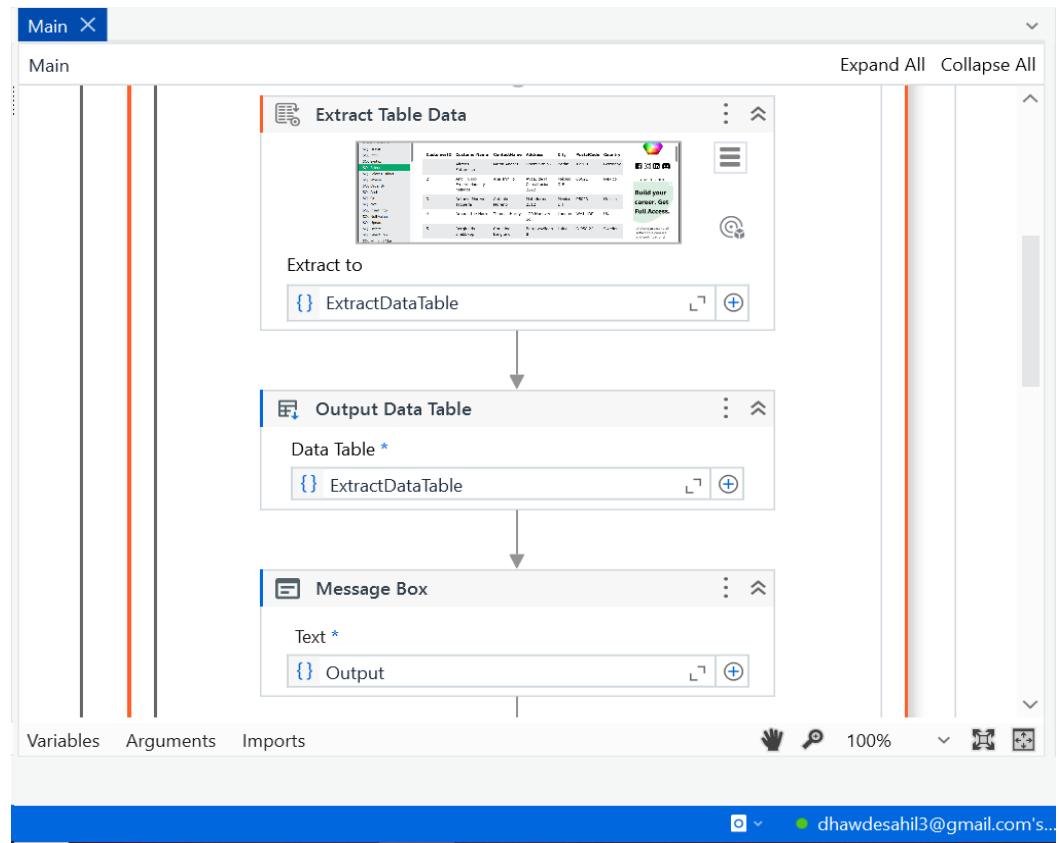
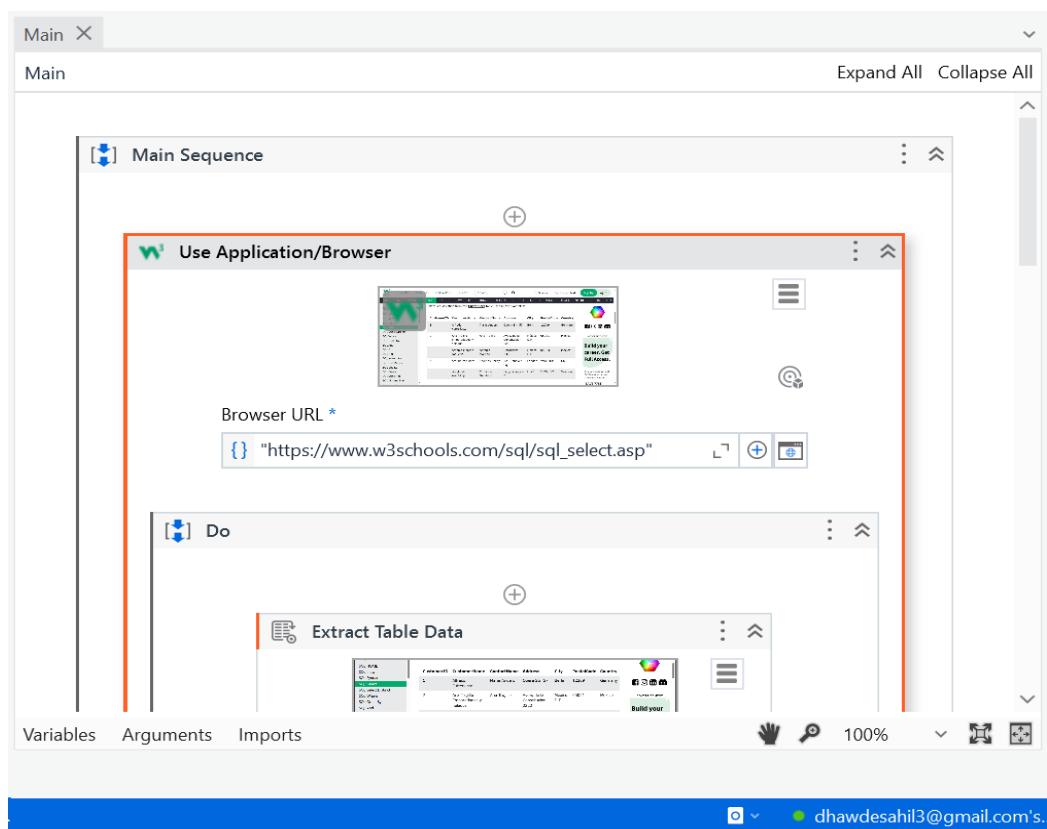
### i. Extract Data Table from web to excel file

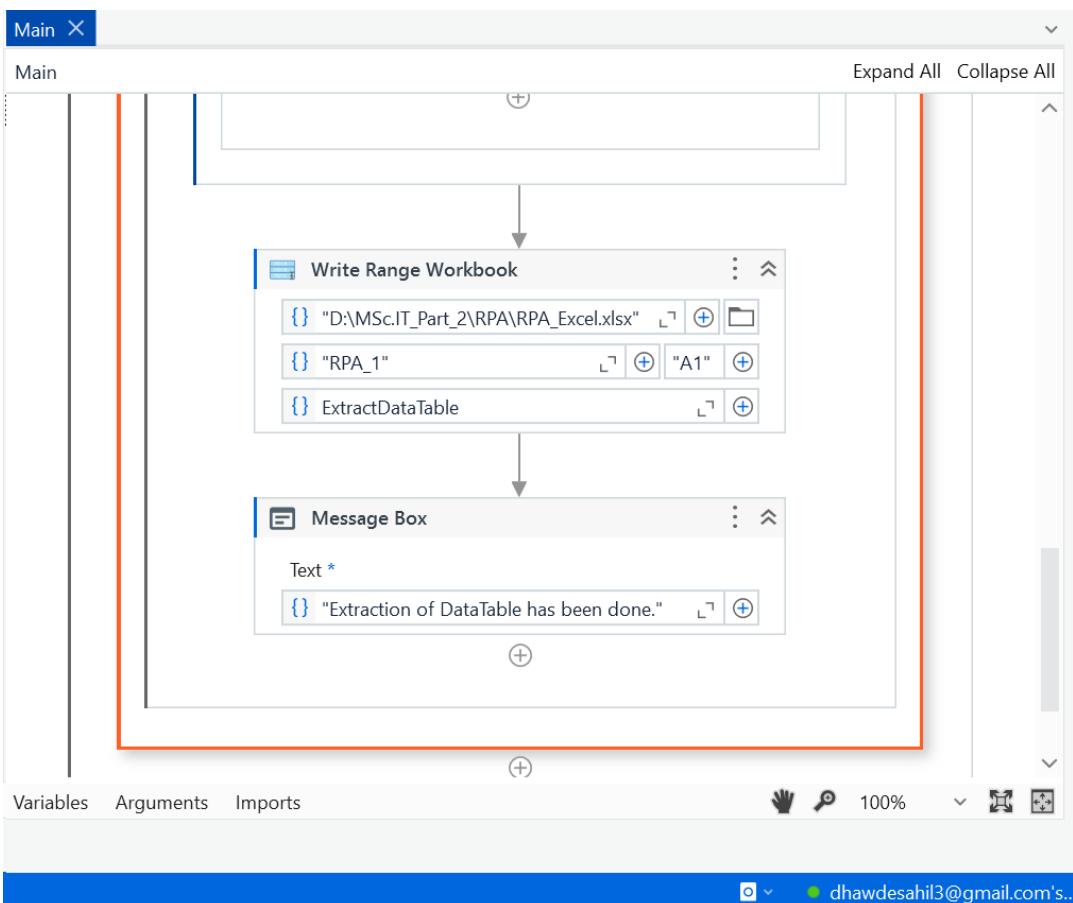
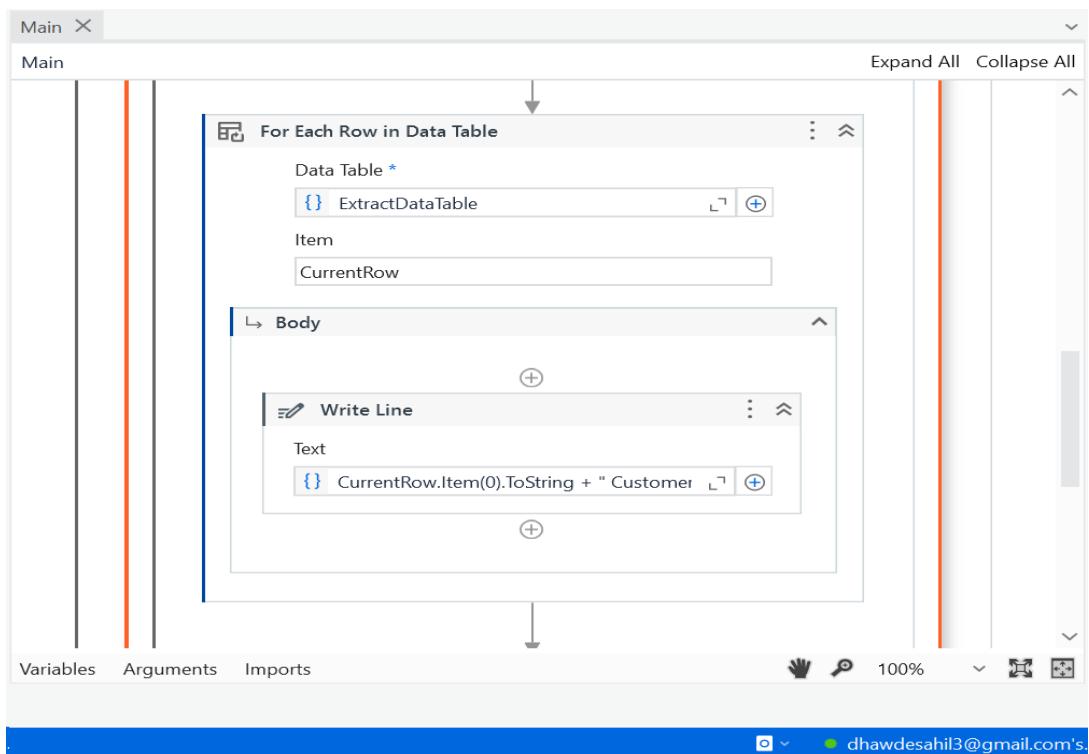
#### Steps:

1. Open project.
2. Select Sequence activity.
3. Select Table extraction icon on Ribbon panel of Uipath studio.
4. Select the cell of table which do you want to extract.
5. Edit it if you want and save.
6. Select from activities panel Output Data Table activity.
7. Create Output variable as String.
8. Enter input as “ExtractDataTable” and output as “Output” .
9. Select Message box and enter “Output.” .
10. Select For Each in Data Table activity.
11. Set values of List of items as “ExtractDataTable”.
12. Set values of Item as “CurrentRow”.
13. Inside the Body of For Each in DataTable.
14. Select the Write line activity & enter text "CurrentRow.Item(0).ToString + " CustomerID " + CurrentRow.Item(1).ToString + " CustomerName " + CurrentRow.Item(2).ToString + " ContactName " + CurrentRow.Item(3).ToString + " Address " + CurrentRow.Item(4).ToString + " City " + CurrentRow.Item(5).ToString + " PostalCode " + CurrentRow.Item(6).ToString + " Country "".
15. Select from activities panel Write Range Workbook activity, and give the excel file name, sheet name and cell value as “A1” to write Data Table.
16. Give the content as “ExtractDataTable”.
17. Select Message box and type “Extraction of Data Table has been done.”.
18. Run the project.

#### Process & Output:

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209	Germany
2	Ana Trujillo Emparedados y helados	Ana Trujillo	Avda. de la Constitución 2222	México D.F.	05021	Mexico
3	Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312	México D.F.	05023	Mexico
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK
5	Berglunds snabbköp	Christina Berglund	Berguvsvägen 8	Luleå	S-958 22	Sweden





Main

Expand All Collapse All

**Message Box**

CustomerID,CustomerName,ContactName,Address,City,PostalCode,Country  
 1,Alfreds Futterkiste,Maria Anders,Obere Str. 57,Berlin,12209,Germany  
 2,Aña Trujillo Emparedados y helados,Aña Trujillo,Avda. de la Constitución 2222,México D.F.,05021,México  
 3,Antonio Moreno Taquería,Antonio Moreno,Mataderos 2312,México D.F.,05023,México  
 4,Around the Horn,Thomas Hardy,120 Hanover Sq.,London,WA1 1DP,UK  
 5,Berglunds snabbköp,Christina Berglund,Berguvsvägen 8,Luleå,S-958 22,Sweden

OK

Variables Arguments Imports

App Integration Mail Exchange

Save Mail Message

Write Range Workbook

"D:\MSc.IT Part 2\RPA\RPA\_Excel.xlsx"

Message Box

Extraction of DataTable has been done.

OK

Audit: Extract Data. From: <html app='msedge.exe' title='SQL SELECT Statement' />  
 ① CustomerID Alfreds Futterkiste CustomerName Maria Anders ContactName Obere Str. 57 Address Berlin City 12209 PostalCode Germany Country  
 ② CustomerID Aña Trujillo Emparedados y helados CustomerName Aña Trujillo ContactName Avda. de la Constitución 2222 Address México D.F. City 05021 PostalCode Mexico Country  
 ③ CustomerID Antonio Moreno Taquería CustomerName Antonio Moreno ContactName Mataderos 2312 Address México D.F. City 05023 PostalCode Mexico Country  
 ④ CustomerID Around the Horn CustomerName Thomas Hardy ContactName 120 Hanover Sq. Address London City WA1 1DP PostalCode UK Country  
 ⑤ CustomerID Berglunds snabbköp CustomerName Christina Berglund ContactName Berguvsvägen 8 Address Luleå City S-958 22 PostalCode Sweden Country

Breakpoints Error List

RPA\_Excel.xlsx - Excel

File Home Insert Page Layout Formulas Data Review View Help Tell me what you want to do

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209	Germany
2	Aña Trujillo Emparedados y helados	Aña Trujillo	Avda. de la Constitución 2222	México D.F.	05021	México
3	Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312	México D.F.	05023	México
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK
5	Berglunds snabbköp	Christina Berglund	Berguvsvägen 8	Luleå	S-958 22	Sweden

RPA\_1

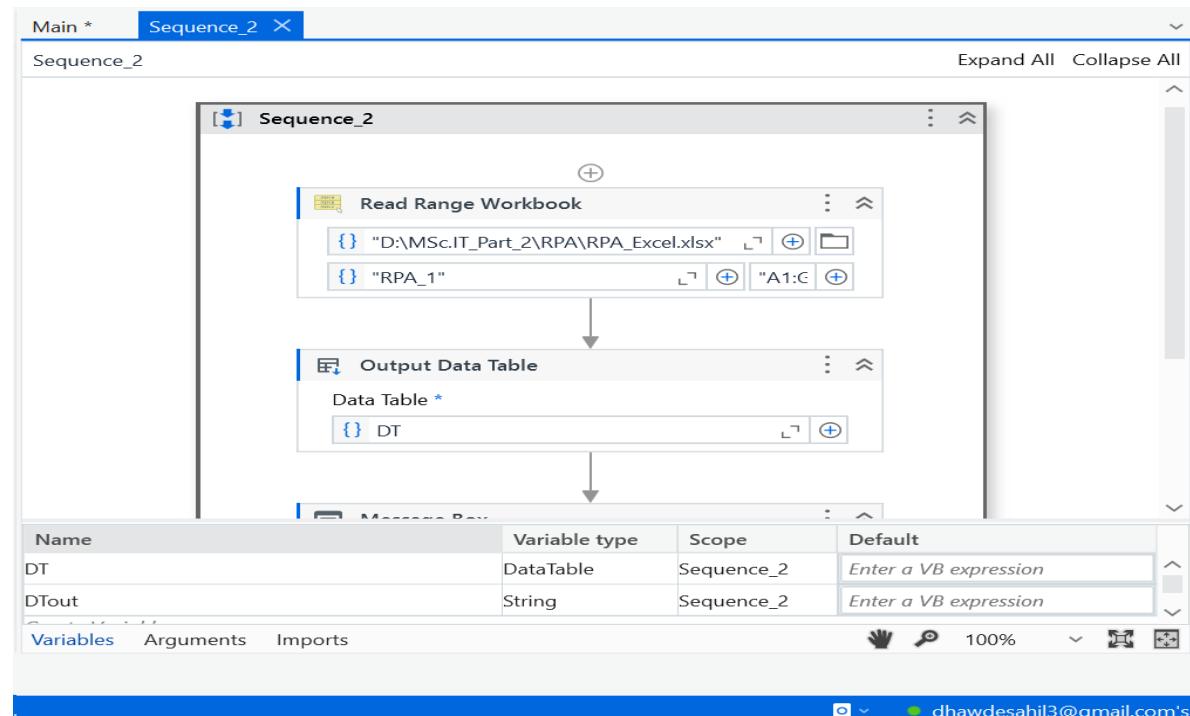
Ready Accessibility: Good to go

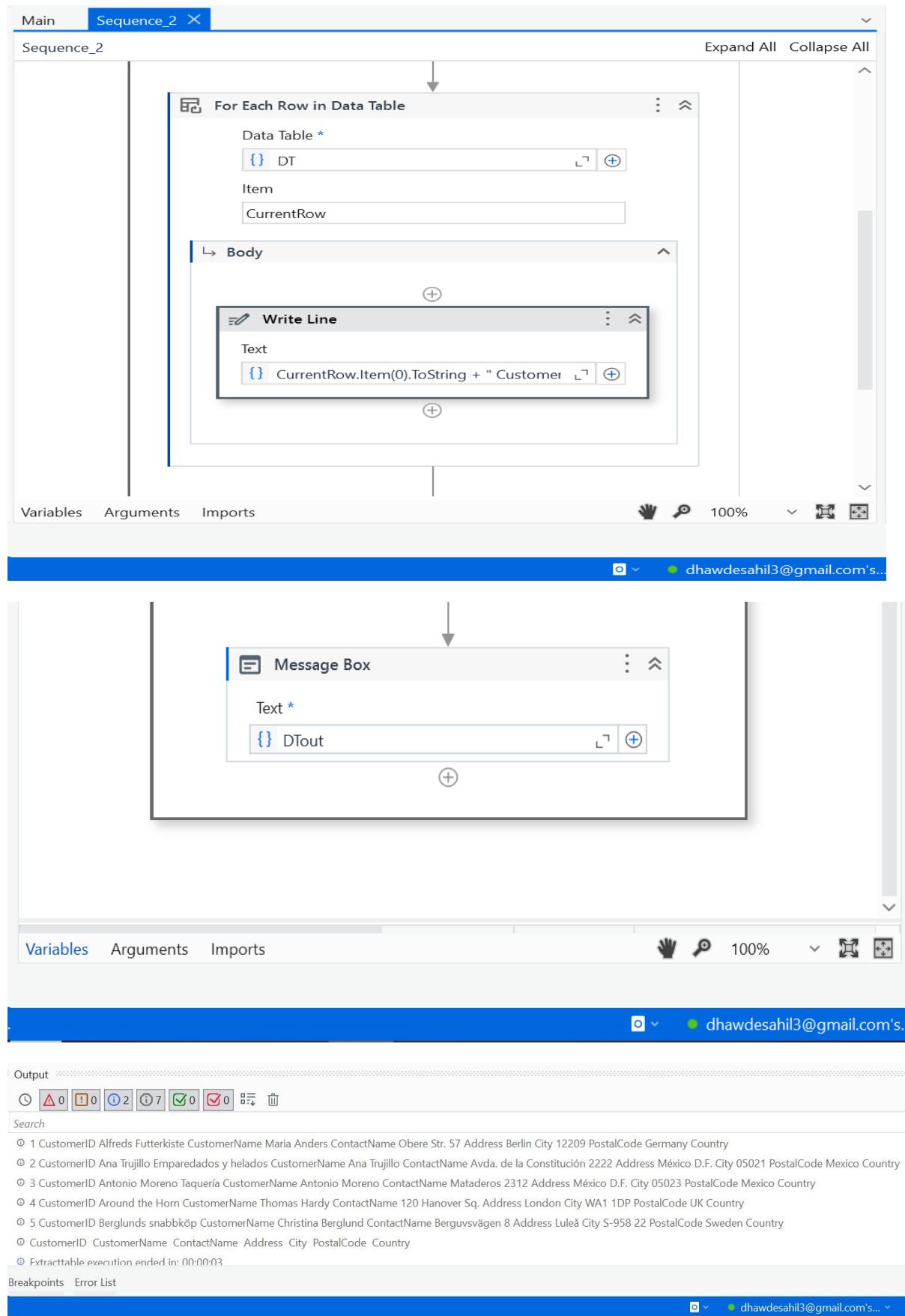
## ii. Extract Data from an excel file into a Data Table

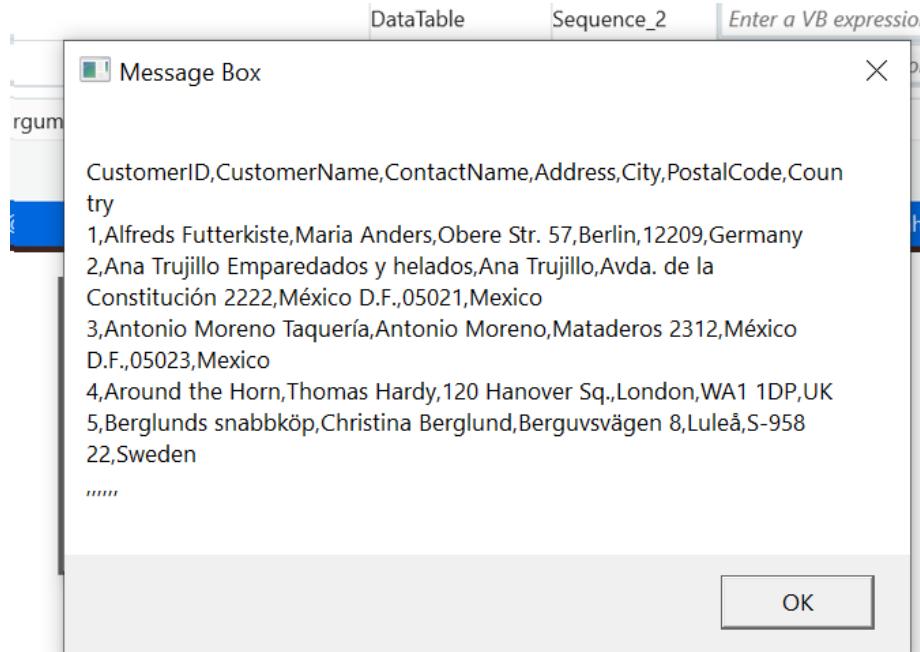
### Steps:

1. Open Project.
2. Select Sequence activity.
3. Select from activities panel Read Range Workbook activity, and give the excel file name, sheet name and cell value as "A1:G7" to read whole table.
4. Create DT variable as DataTable.
5. Select from activities panel Output Data Table activity.
6. Create DTout variable as String.
7. Enter input as "DT" and output as "DTout".
8. Select For Each in Data Table activity.
9. Set values of List of items as "DT".
10. Set values of Item as "CurrentRow".
11. Inside the Body of For Each in DataTable.
12. Select the Write line activity & enter text "CurrentRow.Item(0).ToString + "CustomerID" + CurrentRow.Item(1).ToString + "CustomerName" + CurrentRow.Item(2).ToString + "ContactName" + CurrentRow.Item(3).ToString + "Address" + CurrentRow.Item(4).ToString + "City" + CurrentRow.Item(5).ToString + "PostalCode" + CurrentRow.Item(6).ToString + "Country"".
13. Select Message box and enter "DTout".
14. Run the project.

### Process & Output:







## Practical No: 7

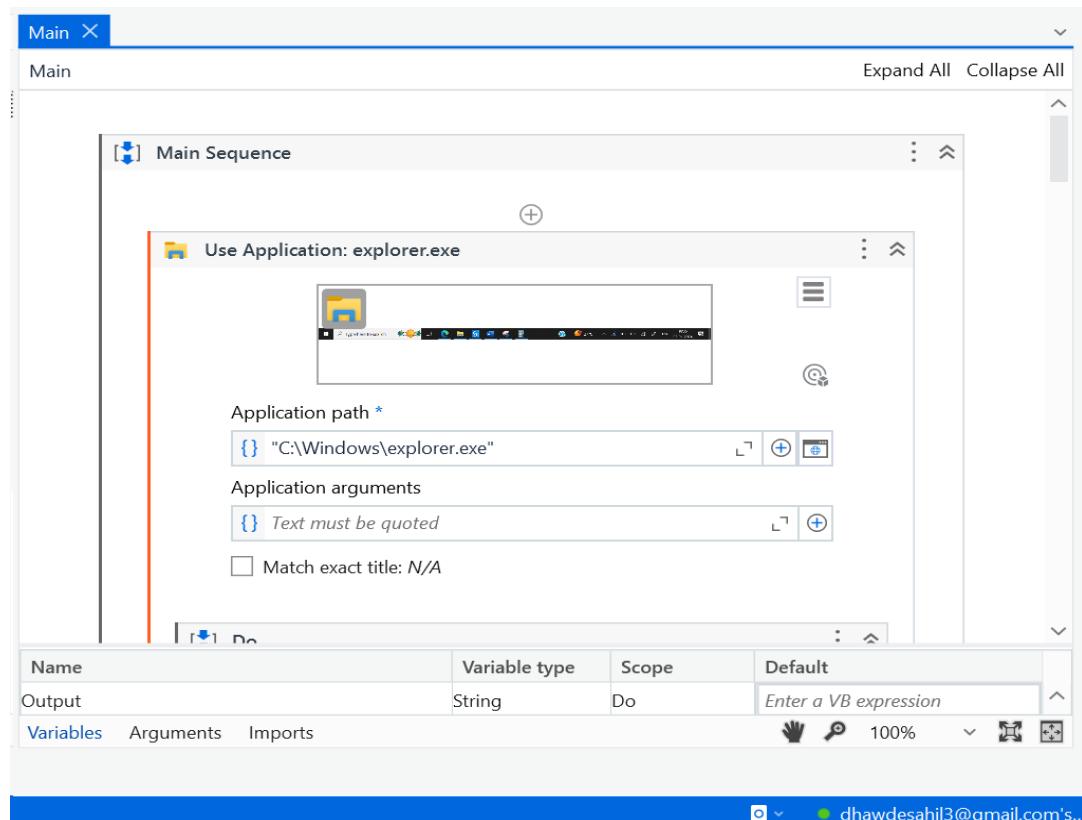
**Aim: Implement the following:**

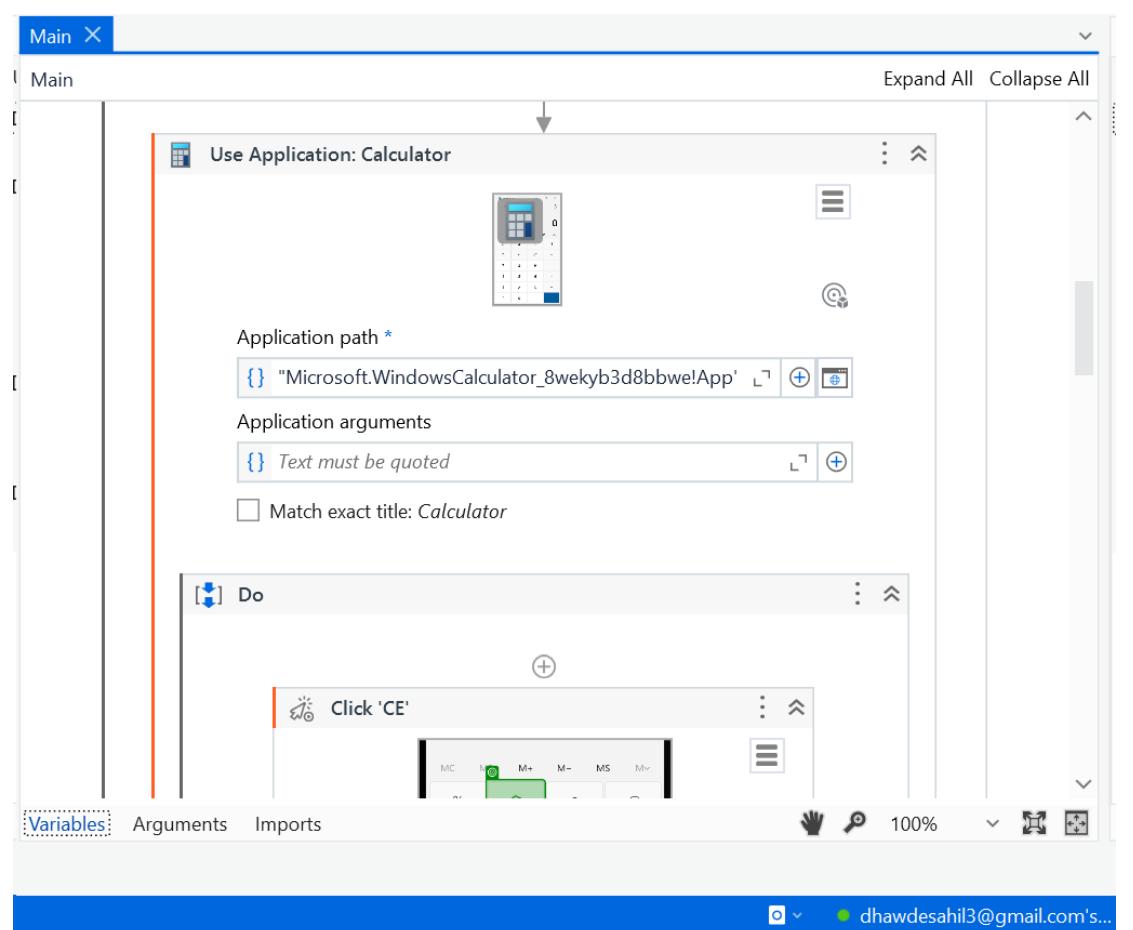
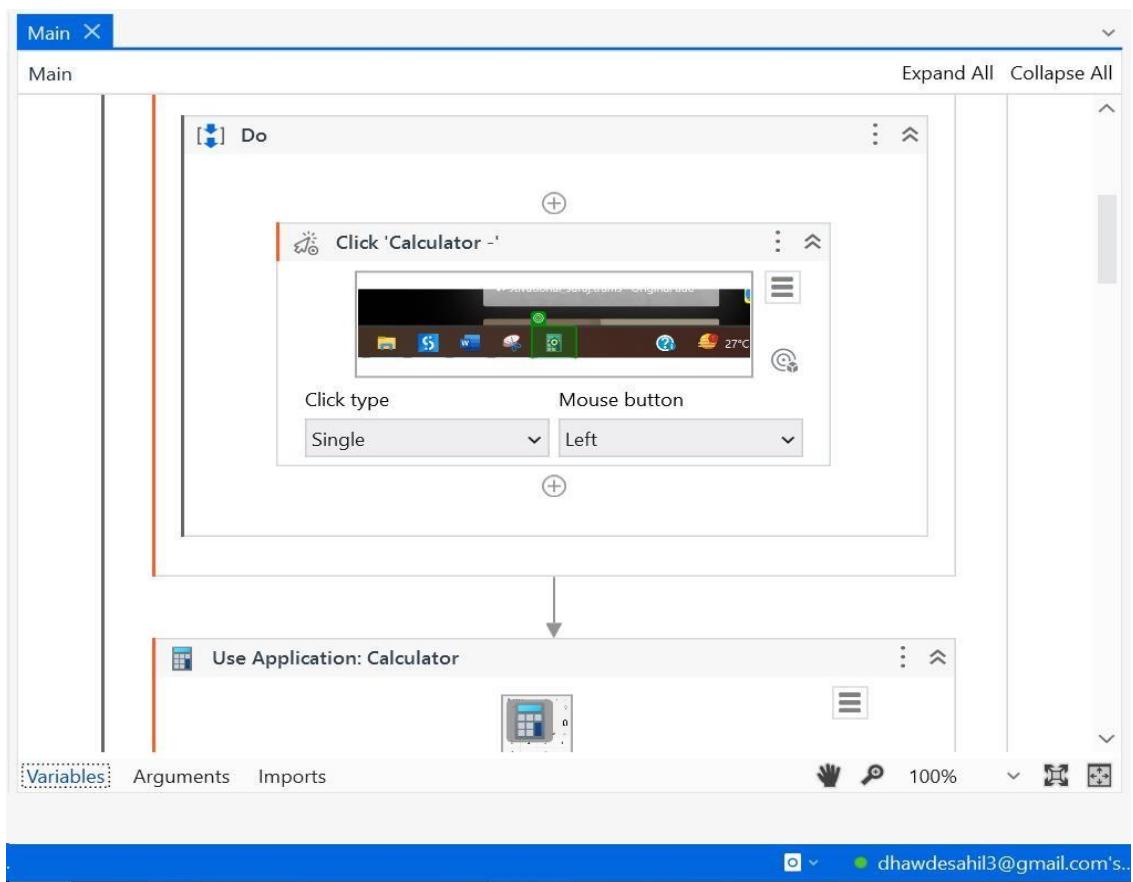
### A. Implement the attach window activity.

**Steps:**

1. Open project.
2. Select Sequence activity.
3. Select App/Web Recorder icon on Ribbon panel of UiPath studio.
4. Select Calculator icon from task bar and select “Single Click” option.
5. In calculator, select number to calculate with “Single Click” option.
6. Select output display window of calculator and select “Get Text” option.
7. In Get Text activity, save to as “Output.”
8. Select from activities panel Message box activity, type “Calculation has been completed and sum is ” + Output.”
9. Run the project.

**Process & Output:**





Main X

Main

Expand All Collapse All

Click 'CE'

Click type: Single, Mouse button: Left

Click '1'

Click type: Single, Mouse button: Left

Variables Arguments Imports

dhawdesahil3@gmail.com's...

Main X

Main

Expand All Collapse All

Click '6'

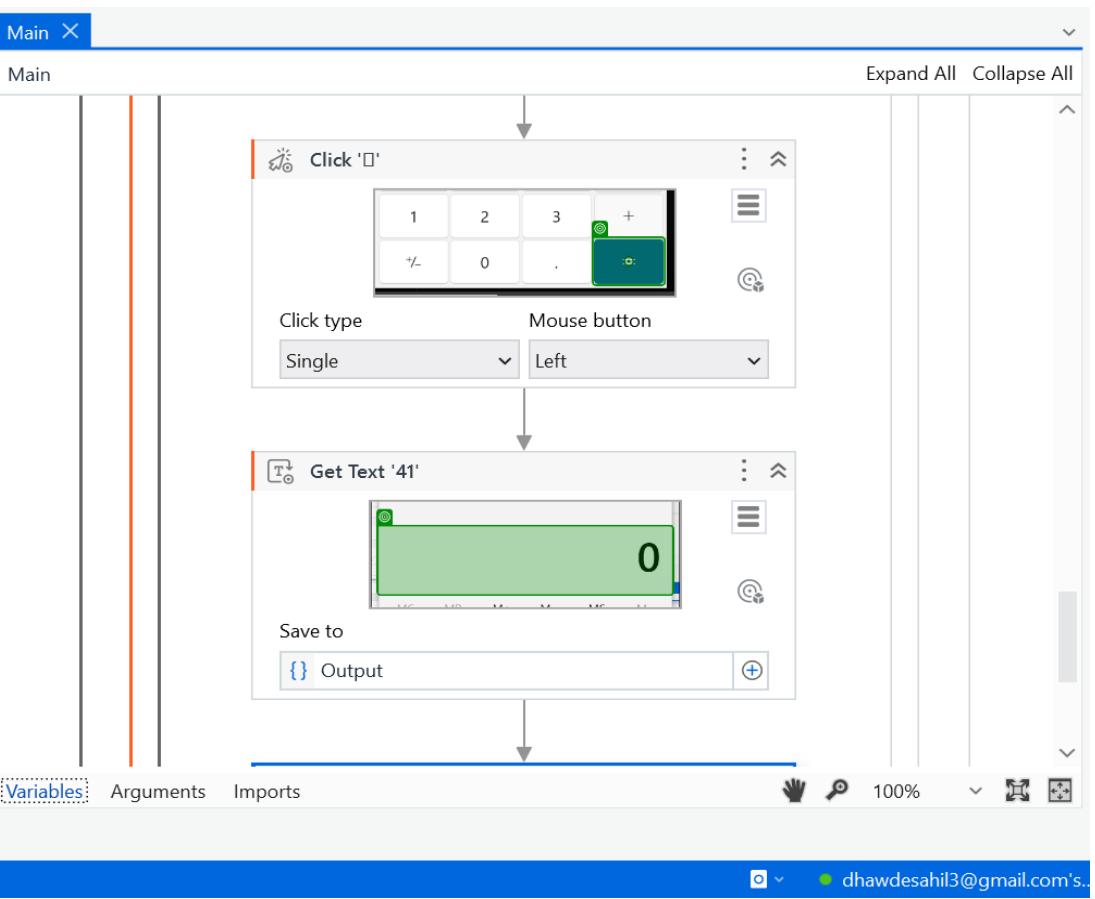
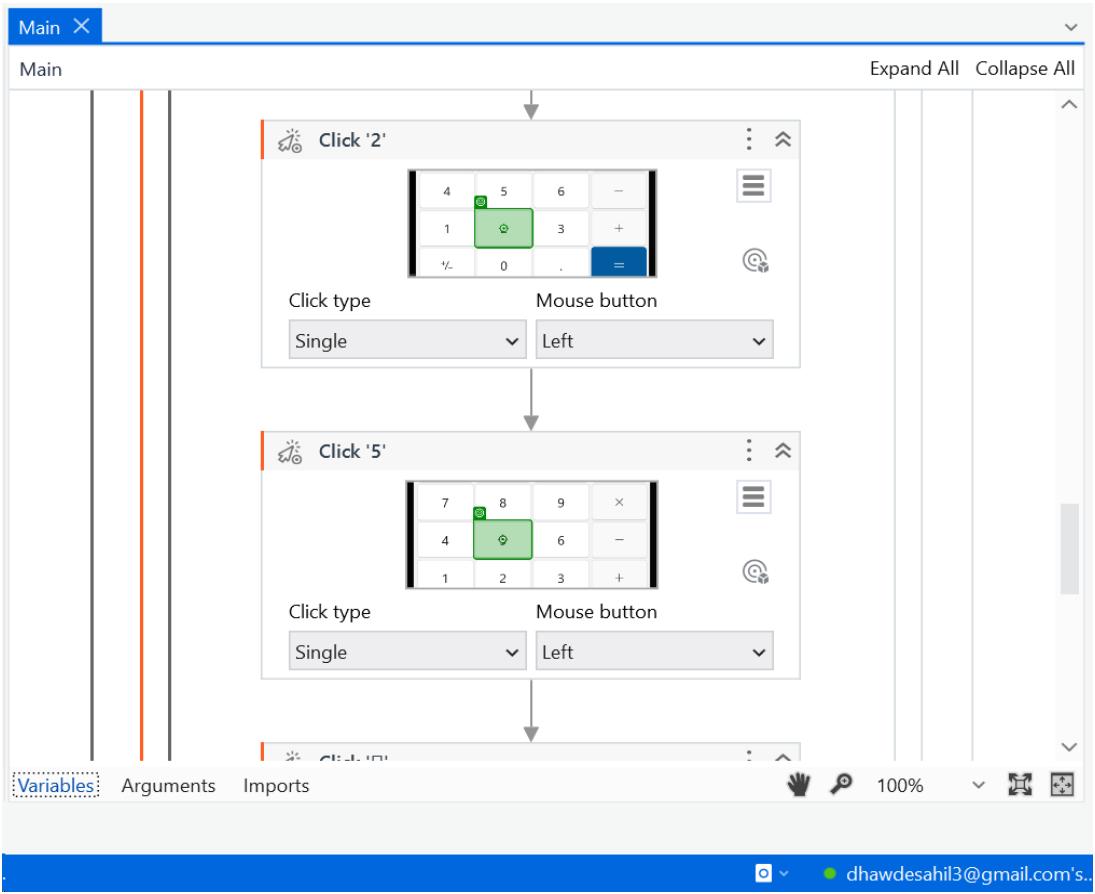
Click type: Single, Mouse button: Left

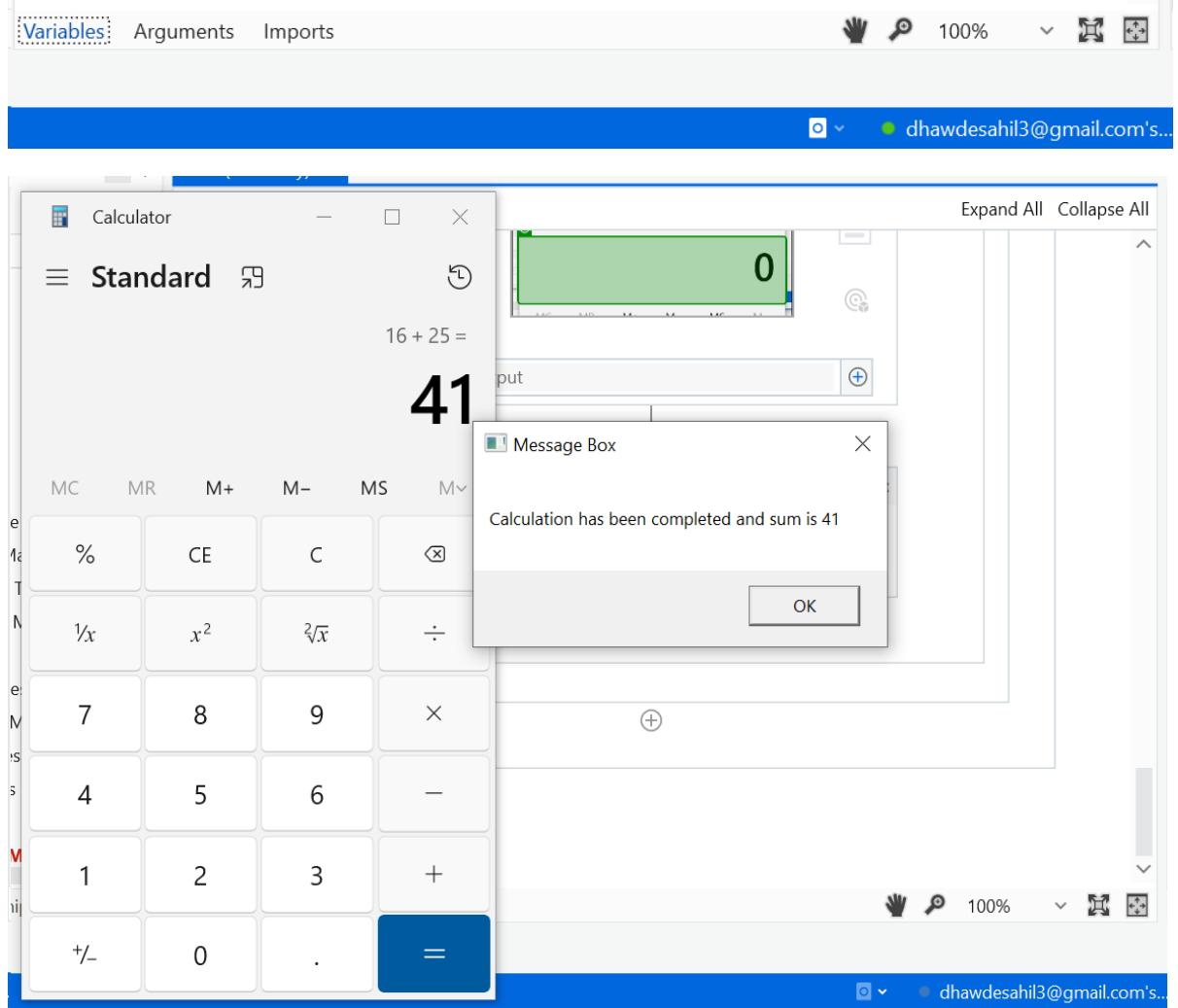
Click '0'

Click type: Single, Mouse button: Left

Variables Arguments Imports

dhawdesahil3@gmail.com's...





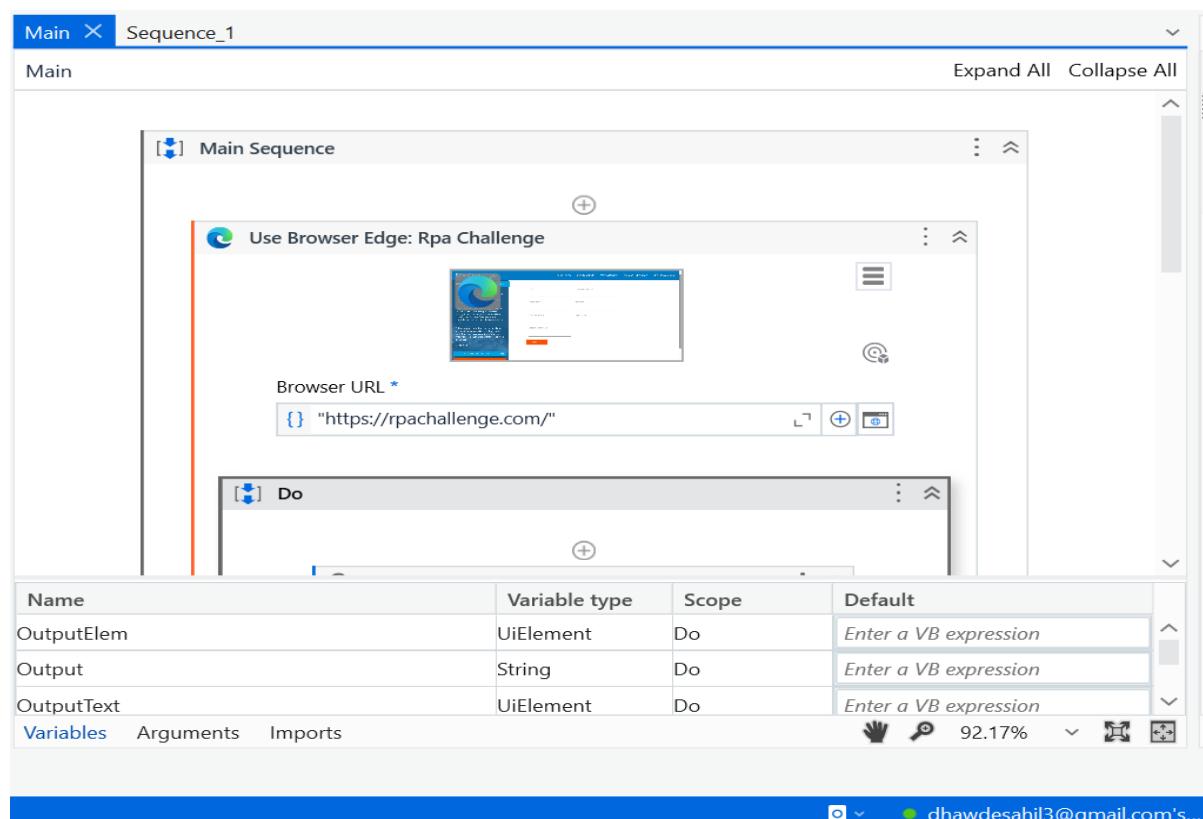
## B. Find different controls using UiPath.

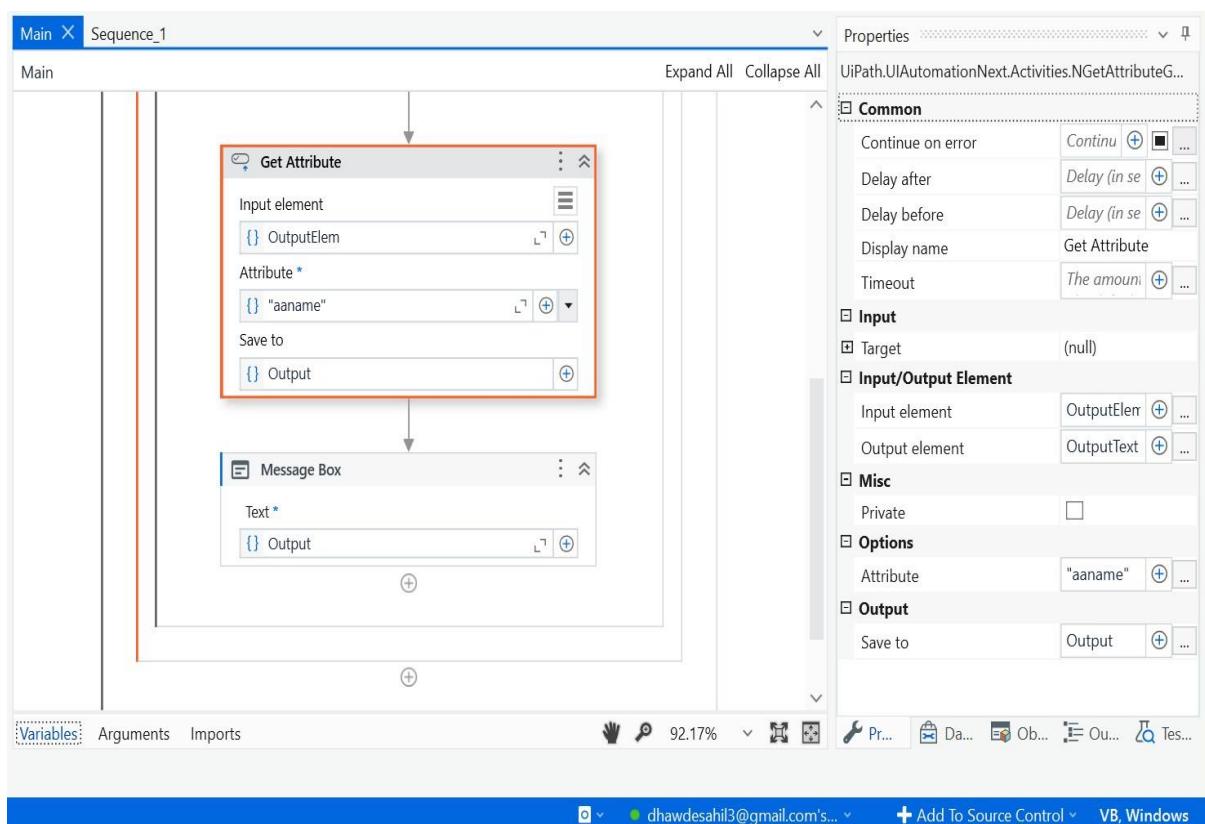
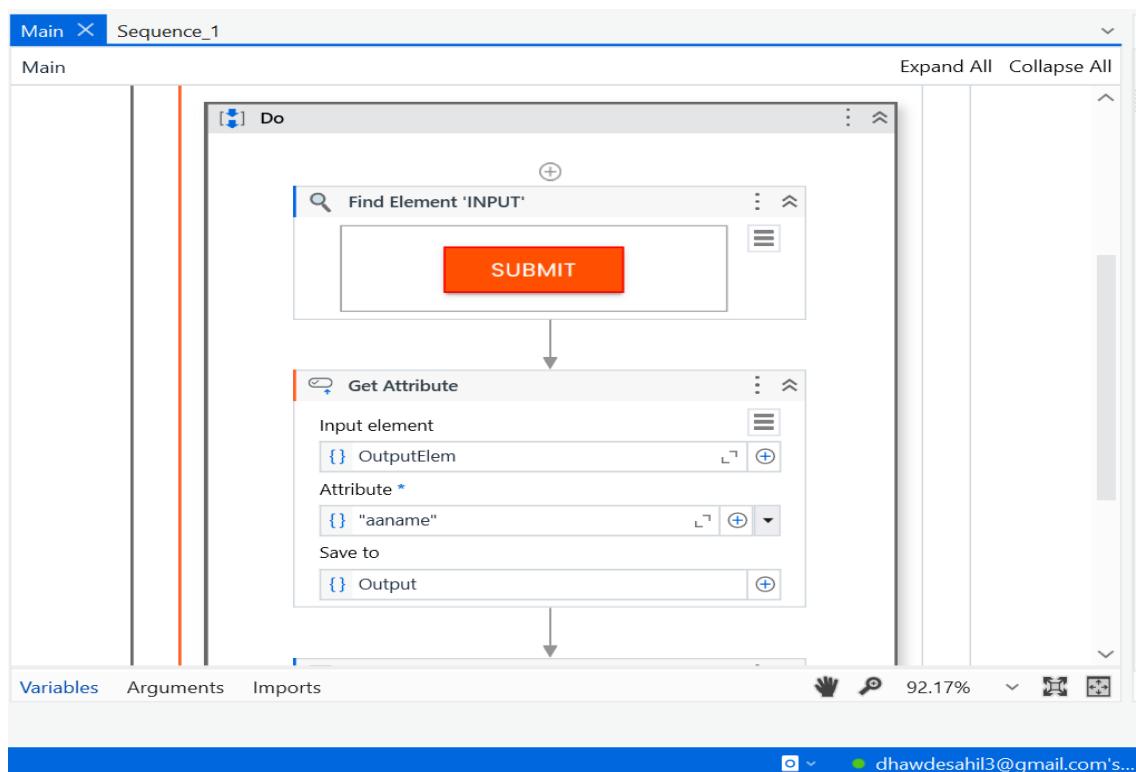
### i. Find Element

#### Steps:

1. Open project.
2. Select Sequence activity.
3. Select from activities panel Use Application/Browser activity, and indicate the website screen.
4. Select from activities panel Find Element activity and indicate element on the screen to find.
5. Create OutputElem variable in FoundElement.
6. Select Get Attribute activity.
7. Set values of input element as "OutputElem".
8. Set values of Attribute as "aaname".
9. Create Output variable as String.
10. Set values of Save to as "Output".
11. Select Message box and enter "Output".
12. Run the project.

#### Process & Output:





# RPA Challenge

[Input Forms](#)   [Shortest Path](#)   [Movie Search](#)

## Instructions

EN

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.

Good luck!

Email \_\_\_\_\_ Company Name \_\_\_\_\_

First Name \_\_\_\_\_

Phone Number \_\_\_\_\_

Address \_\_\_\_\_

Name \_\_\_\_\_

Message ... X

Submit

OK

Role in Company \_\_\_\_\_

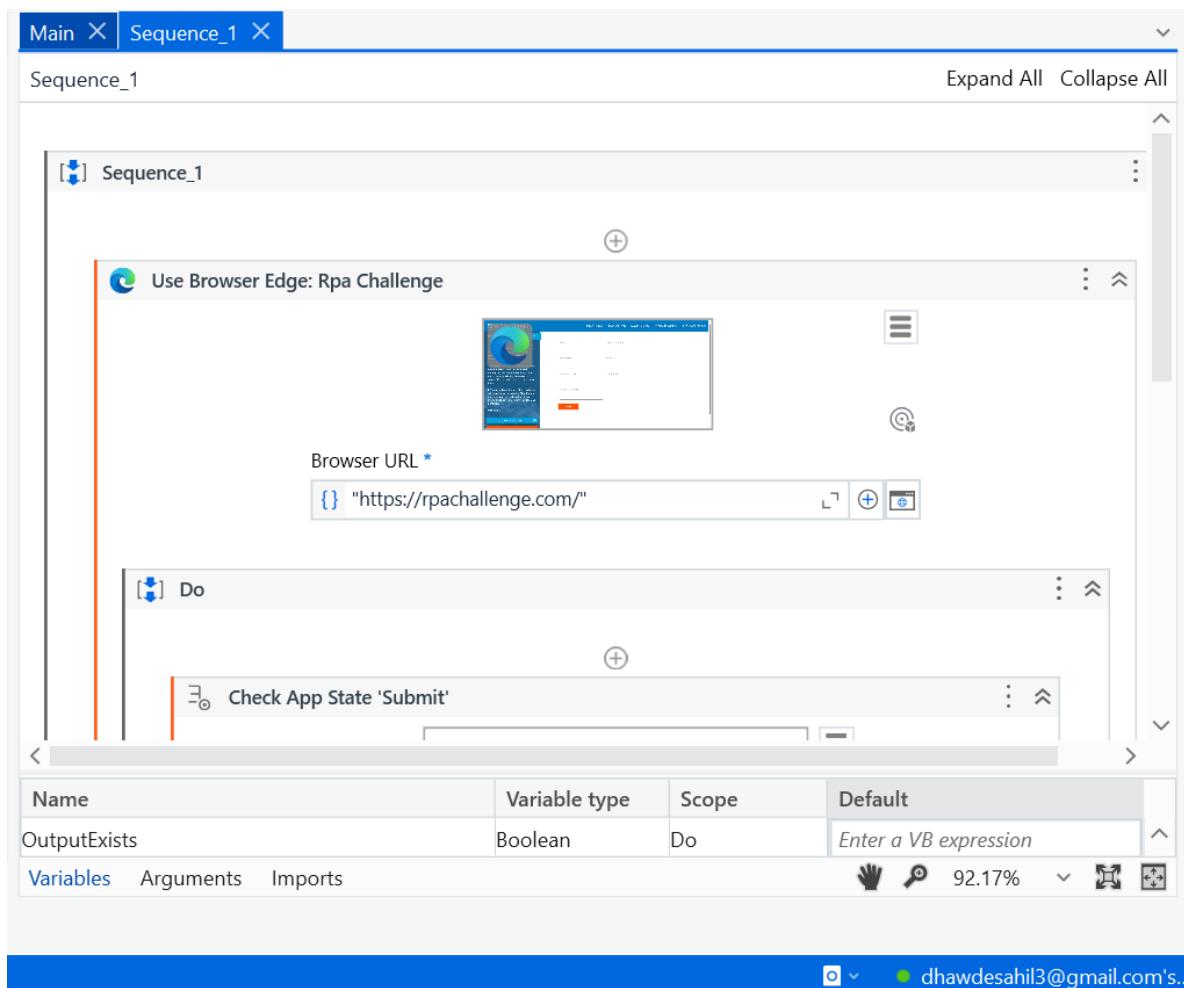
**SUBMIT**

## ii. Element Exist

### Steps:

1. Open project.
2. Select Sequence activity.
3. Select from activities panel Use Application/Browser activity, and indicate the website screen.
4. Select from activities panel Check App State (new version) activity and indicate element on the screen to find.
5. Create OutputExist variable in result.
6. Select Message box and enter "OutputExist".
7. Run the project.

### Process & Output:



Sequence\_1

Expand All Collapse All

Check App State 'Submit'

Wait for seconds

Element to appear { } Defc + -

Target appears Drop Activity here

Target does not appear Drop Activity here

Message Box

Text \* { } OutputExists

Variables Arguments Imports

dhawdesahil3@gmail.com's..

# RPA Challenge

Input Forms Shortest Path Mov

## Instructions EN

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.

Good luck!

Email

Company Name

First Name

Phone Number

True

OK

Address

Name

Role in Company

SUBMIT

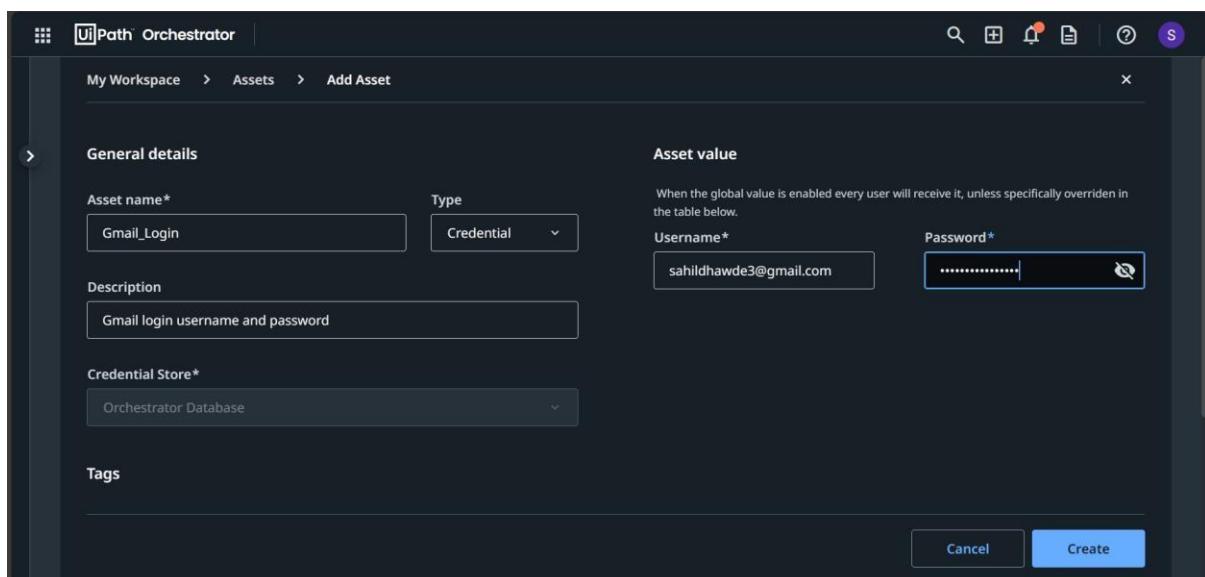
## C. Demonstrate the following activities in UiPath:

### i. Type Secure text

#### Steps:

1. Create an Asset in UiPath Orchestrator of type “Credential.”
2. Open Project.
3. Select Sequence activity.
4. Select Get Credential activity from activities panel.
5. In Get Credential activity, select orchestrator folder place as your workspace and enter the Asset Name that created earlier.
6. Create two variables as Username and Passout.
7. Select from activities panel Use Application/Browser activity, and indicate the browser on the screen.
8. Select from activities panel Type into activity and indicate the input dialog of username of the website.
9. In Type this of Type into enter “Username”.
10. Select from activities panel Type Secure Text activity and indicate the input dialog of password of the website.
11. In Securetext of Type secure Text enter “Passout”.
12. Select Message box and type “Username and Password has been entered”.
13. Run the project.

#### Process & Output:



UiPath Orchestrator

Asset Gmail\_Login created successfully.

Storage Buckets

My Workspace

Get\_Asset

Gmail\_Login

Sahil Dhawde

1 - 3 / 3

Page 1 / 1

Items 10

This screenshot shows the 'Assets' section of the UiPath Orchestrator web interface. A success message 'Asset Gmail\_Login created successfully.' is displayed at the top. The list shows three assets: 'Get\_Asset' (Text type, value 'Hello, my name is Sa...'), 'Gmail\_Login' (Credential type, value '[In credential store]'), and 'Sahil Dhawde' (Credential type, value '[In credential store]'). The sidebar on the left includes sections for Tenant, My Folders, and Shared, with 'My Workspace' currently selected. The bottom navigation bar shows '1 - 3 / 3' and 'Page 1 / 1'.

Main \*

Main Sequence

Get Credential

Orchestrator Folder Path: dhawdesahil3@gmail.com's workspace

Asset Name: Gmail\_Login

Use Browser Edge: Log in | Website.com

Name: username

Variable type: String

Scope: Main Sequence

Default: Enter a VB expression

Name: passout

Variable type: SecureString

Scope: Main Sequence

Default: Enter a VB expression

Variables Arguments Imports

dhawdesahil3@gmail.com's...

This screenshot shows the 'Main Sequence' step in the orchestrator. It starts with a 'Get Credential' task configured to get the 'Gmail\_Login' asset from the 'dhawdesahil3@gmail.com's workspace'. This is followed by a 'Use Browser Edge' task titled 'Log in | Website.com'. The browser window shows a login page. Below the browser are variable definitions for 'username' (String) and 'passout' (SecureString), both scoped to the Main Sequence. The status bar at the bottom shows the email address 'dhawdesahil3@gmail.com's...'.

Main \*

Main Sequence

Use Browser Edge: Log in | Website.com

Browser URL: "https://www.website.com/sign-in/?source=SC&count=1"

Do

Type Into 'Username'

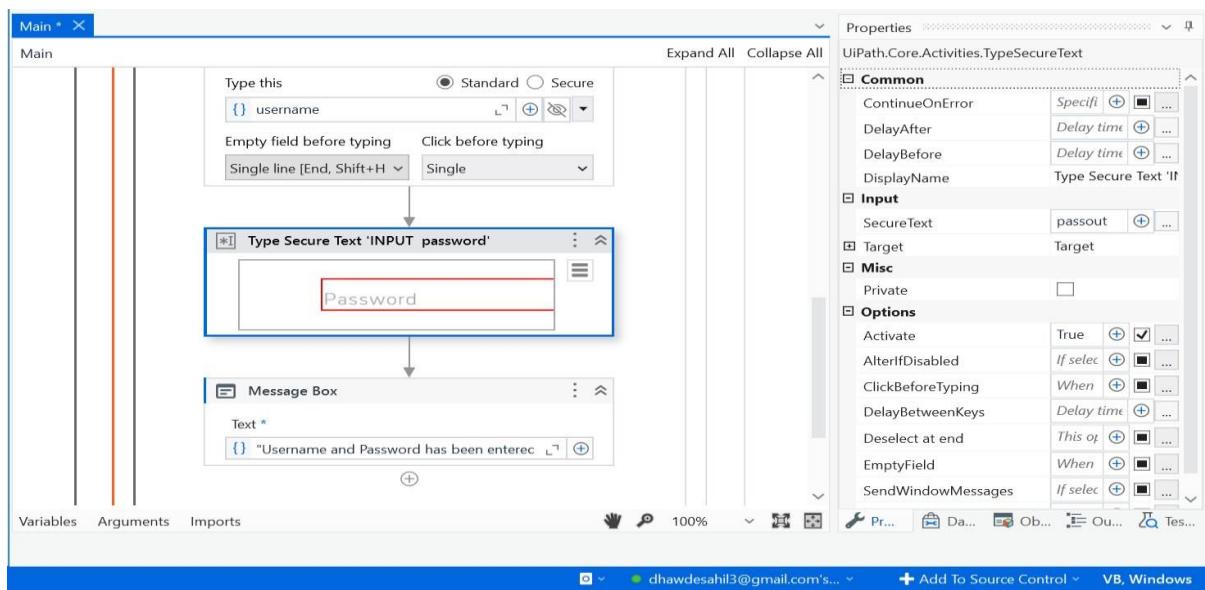
Type this: Username

Standard Secure

Variables Arguments Imports

dhawdesahil3@gmail.com's...

This screenshot shows the configuration of the 'Use Browser Edge' task. It has a 'Type Into 'Username'' action with the input field set to 'Username'. The 'Standard' radio button is selected. The status bar at the bottom shows the email address 'dhawdesahil3@gmail.com's...'.



The screenshot shows a "Log In" page from Website.com. It features fields for "Username" and "Password", both with "Forgot Your Username?" and "Forgot Password?" links. Below these is a reCAPTCHA field with "I'm not a robot" and "reCAPTCHA Privacy - Terms" links. A "LOG IN" button is at the bottom. To the right, there's a "Log in using the following" section with a "LOG IN WITH GOOGLE" button. A blue callout box for "Attention Facebook Login Users" states: "Facebook has discontinued login support. To access your account: 1. Retrieve your Username: Click [Forgot Your Username?](#) Enter your website name (premium users must include the domain extension, e.g. [yourwebsitename.com](#)). Your".

This screenshot shows the same login page as above, but with additional UI Path components overlaid. A "Message Box" activity is triggered, displaying the message "Username and Password has been entered". A "LOG IN" button is also present on the page. A blue callout box for "Attention Facebook Login Users" is identical to the one in the previous screenshot.

## Practical No: 8

**Aim: Implement the following:**

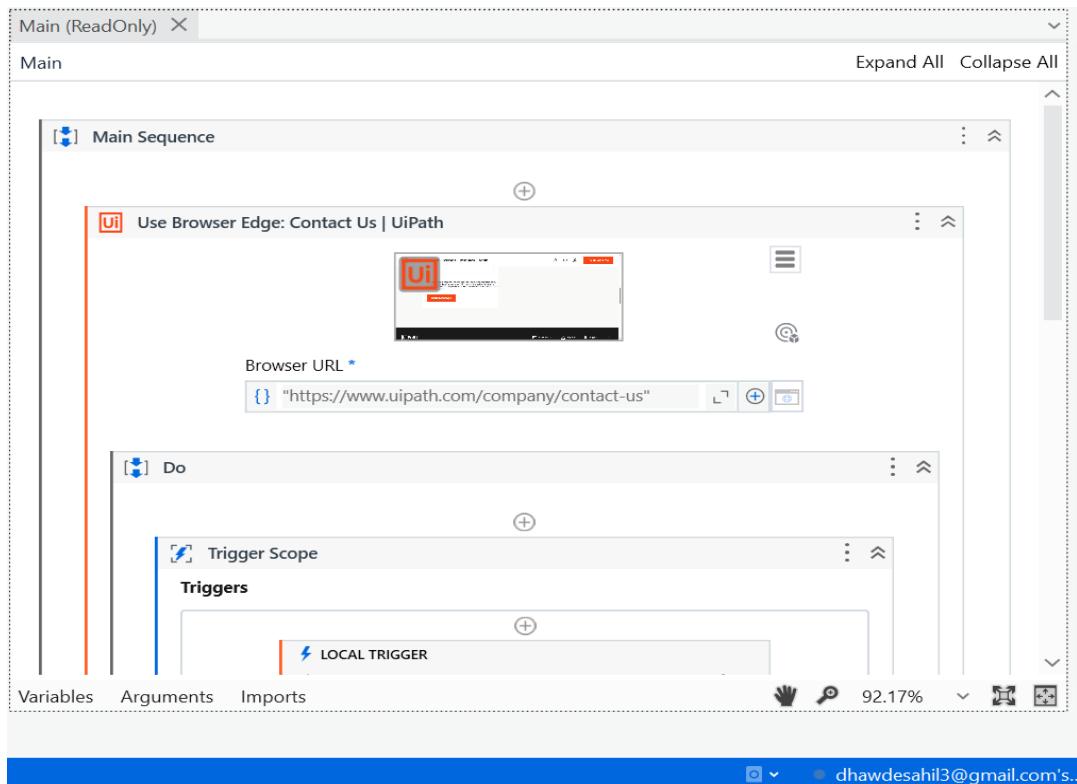
**A. Demonstrate the following events in UiPath:**

**i. Element triggering event**

**Steps:**

1. Open project.
2. Select Sequence activity.
3. Select from activities panel Use Application/Browser activity, and indicate the website screen.
4. Select from activities panel Trigger Scope activity.
5. In Trigger block, select from activities panel Click Event Trigger activity and indicate element on the screen to be triggered.
6. Enter Mouse Button as “LEFT” and Trigger mode as “Down”.
7. In Action block, select Message box and type “Send message has been clicked”.
8. Run the project.

**Process & Output:**



Main (ReadOnly) X

Main

Trigger Scope

Triggers

LOCAL TRIGGER

Click Event Trigger 'Send Message'

Send Message

Mouse button: Left, Trigger mode: Down, Block event: unchecked, Include children: checked

Actions

MonitorClickEventArgs  
args

Sequence

Variables Arguments Imports

Expand All Collapse All

This screenshot shows the configuration for the 'Main' component in 'Main (ReadOnly)'. It includes a 'Trigger Scope' section with a 'LOCAL TRIGGER' and a 'Click Event Trigger' for 'Send Message'. The trigger is set to respond to a left mouse click. Below the trigger is a 'Sequence' action containing a 'Message Box' with the text '{ } "Send Message has been Click"'.

Main (ReadOnly) X

Main

Actions

MonitorClickEventArgs  
args

Sequence

Message Box

Text \*  
{ } "Send Message has been Click"

Variables Arguments Imports

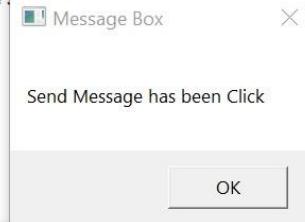
Expand All Collapse All

This screenshot shows the configuration for the 'Main' component in 'Main (ReadOnly)'. It includes a 'Sequence' action containing a 'Message Box' with the text '{ } "Send Message has been Click"'.

dhawdesahil3@gmail.com's.

I would like to receive communications about UiPath tailored to my interests and preferences, including latest news about products, services, events and promotions. For more information, please see our [Privacy Policy](#).

**Send Message**

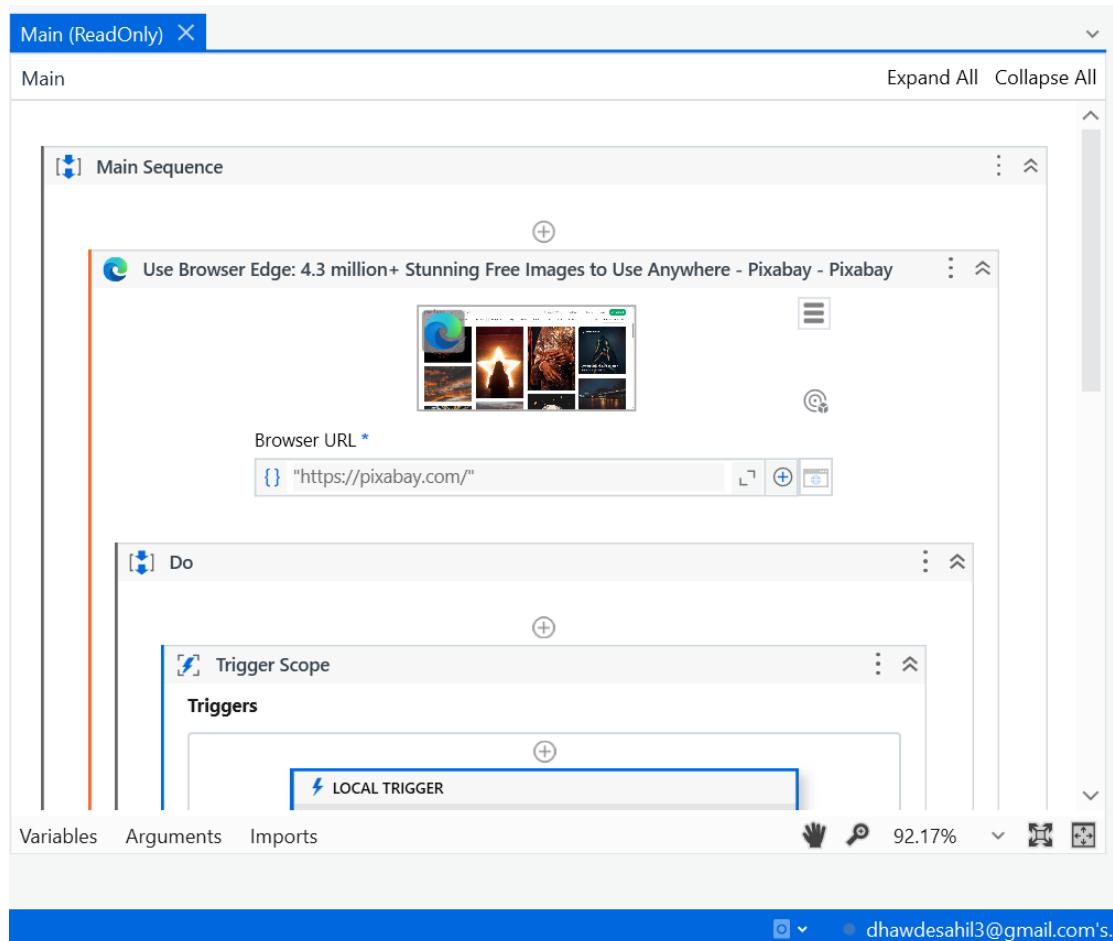


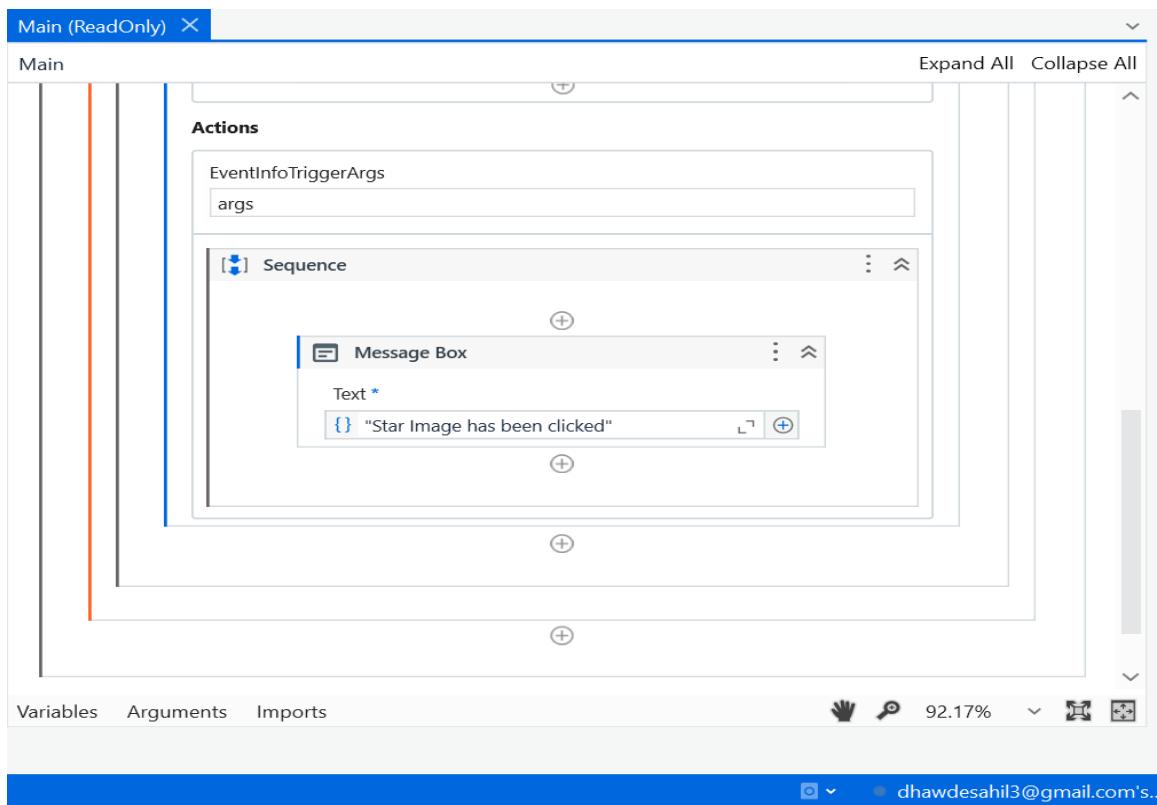
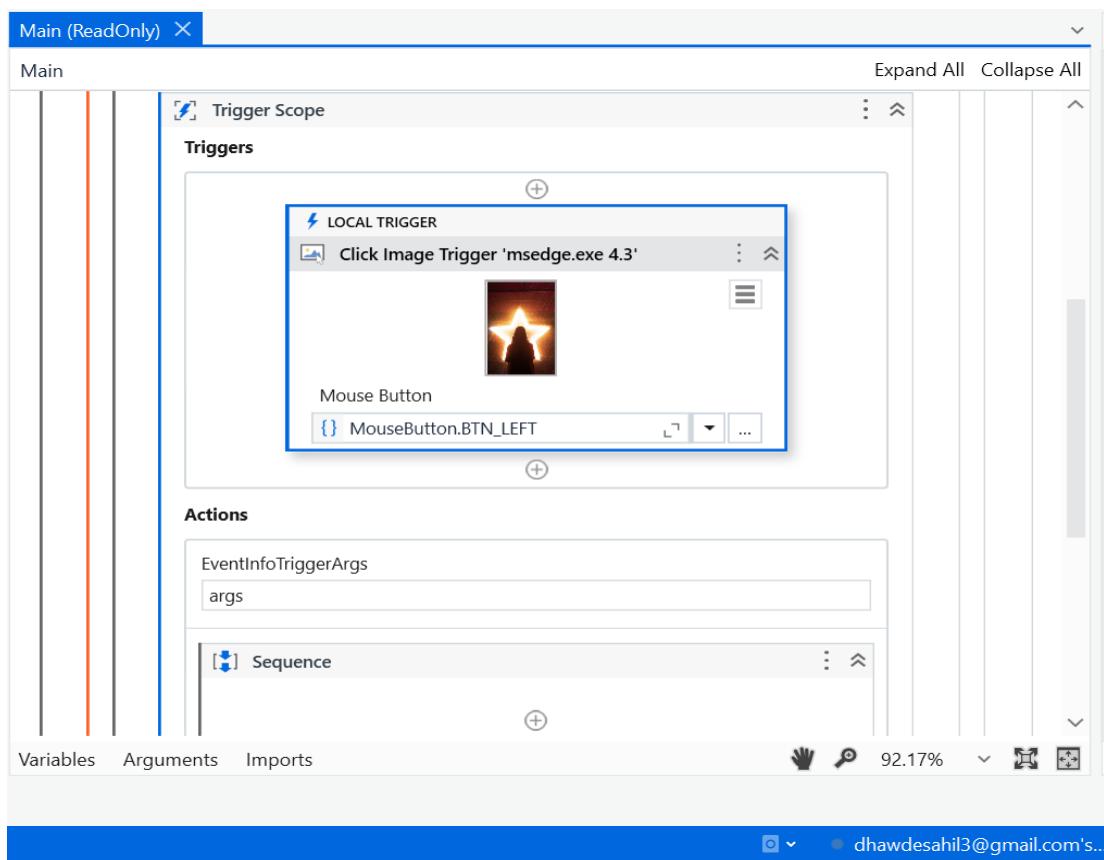
## ii. Image triggering event

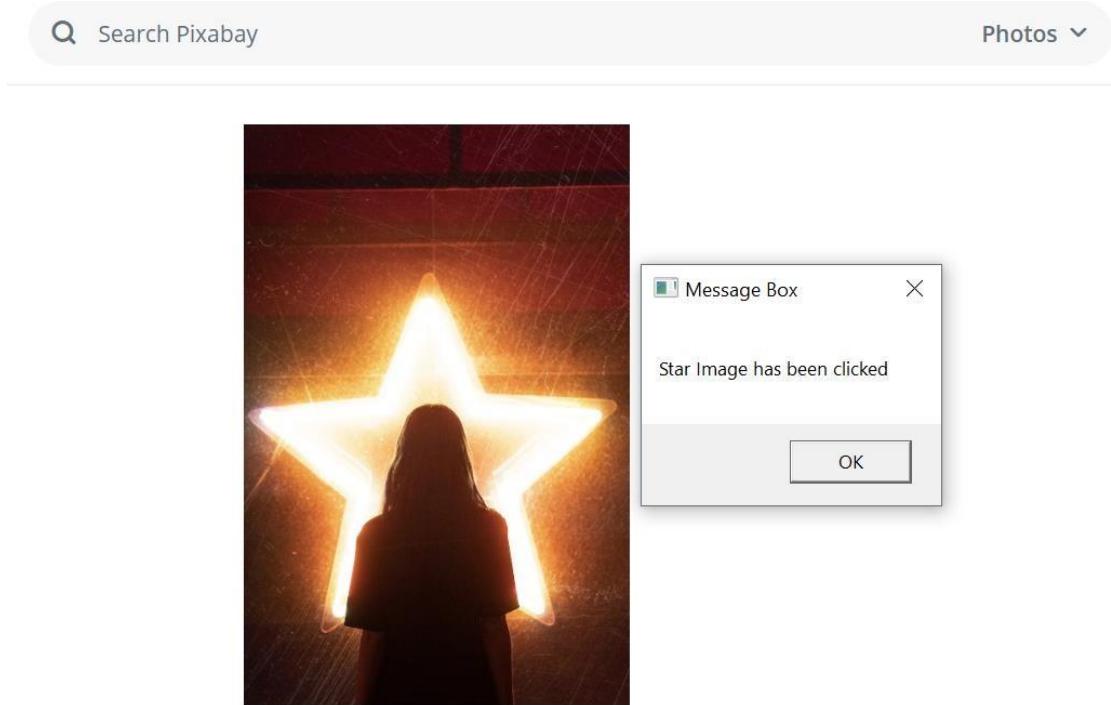
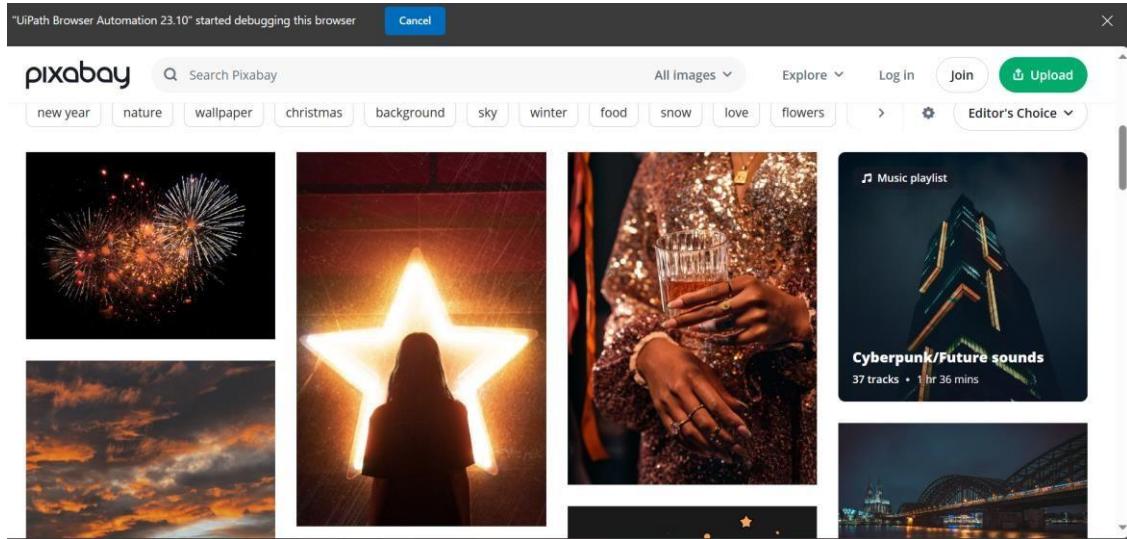
### Steps:

1. Open project.
2. Select Sequence activity.
3. Select from activities panel Use Application/Browser activity, and indicate the website screen.
4. Select from activities panel Trigger Scope activity.
5. In Trigger block, select from activities panel Click Image Trigger activity and indicate image on the screen to be triggered.
6. Enter Mouse Button as “MouseButton.BTN\_LEFT”.
7. In Action block, select Message box and type “Star Image has been clicked”.
8. Run the project.

### Process & Output:







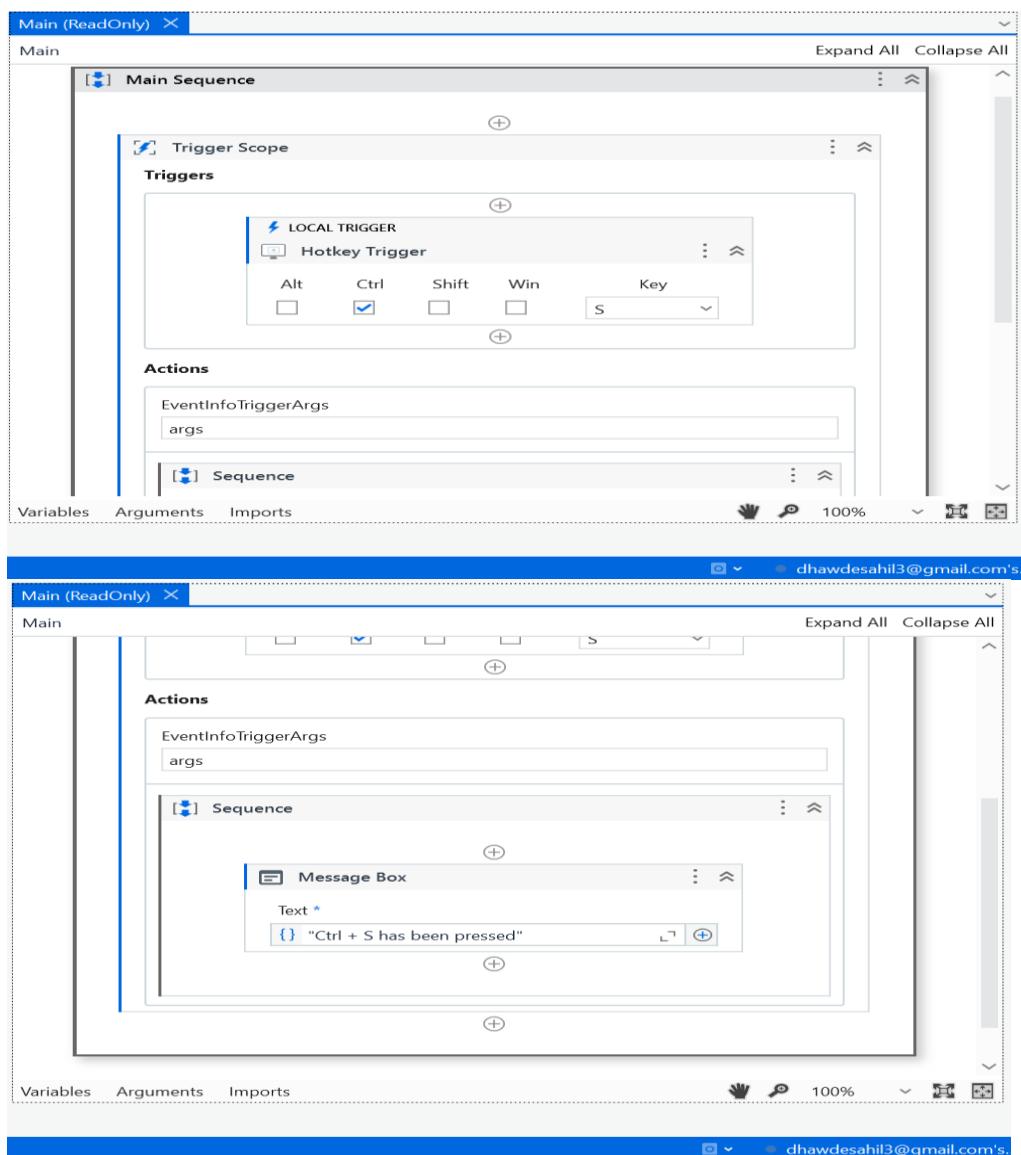
### iii. System Triggering Event

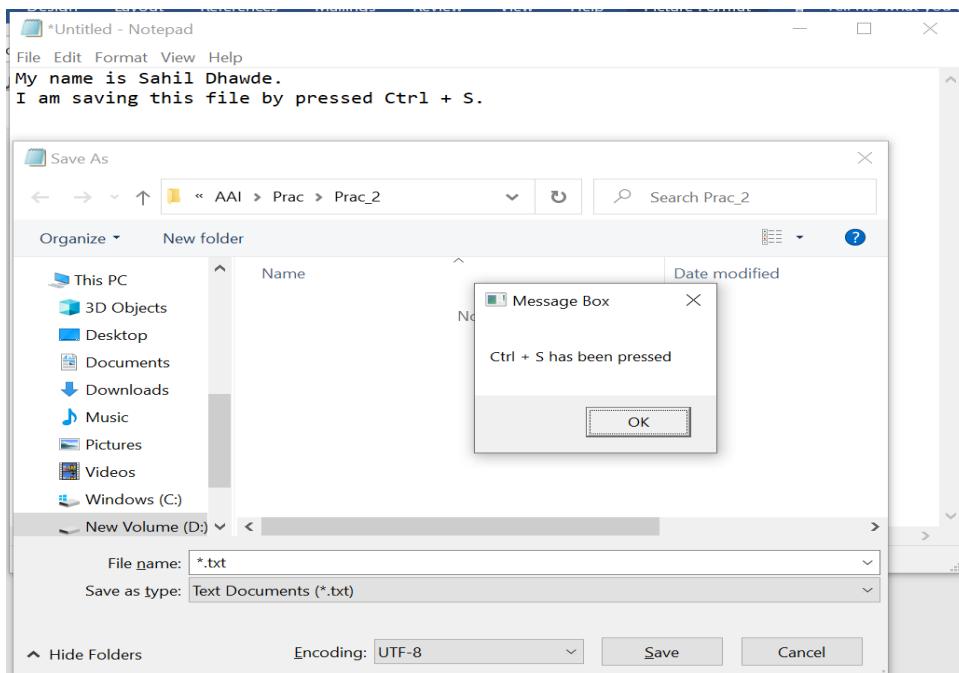
## Hotkey Trigger

### Steps:

1. Open project.
2. Select Sequence activity.
3. Select from activities panel Tigger Scope activity.
4. In Trigger block, select from activities panel Hotkey Tigger activity and check for “Ctrl” and enter Key as “S”.
5. In Action block, select Message box and type “Ctrl + S has been pressed”.
6. Run the project.

### Process & Output:



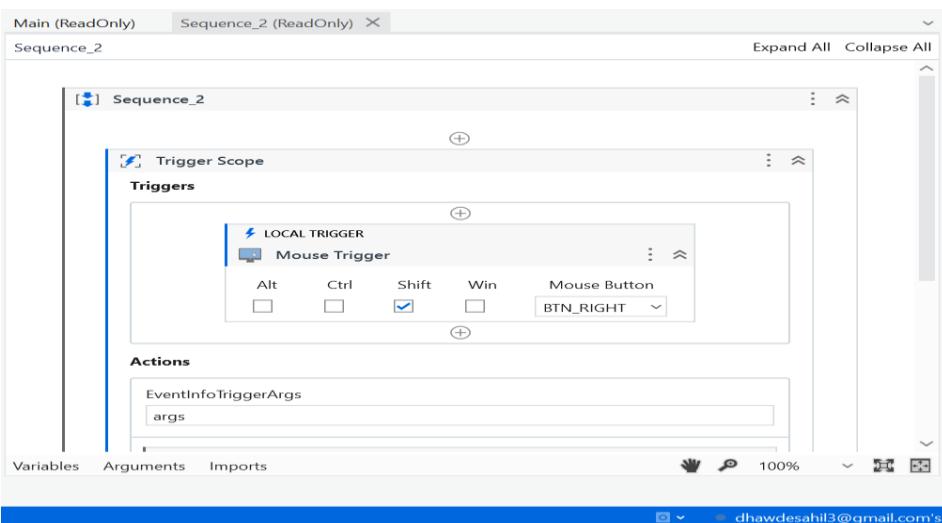


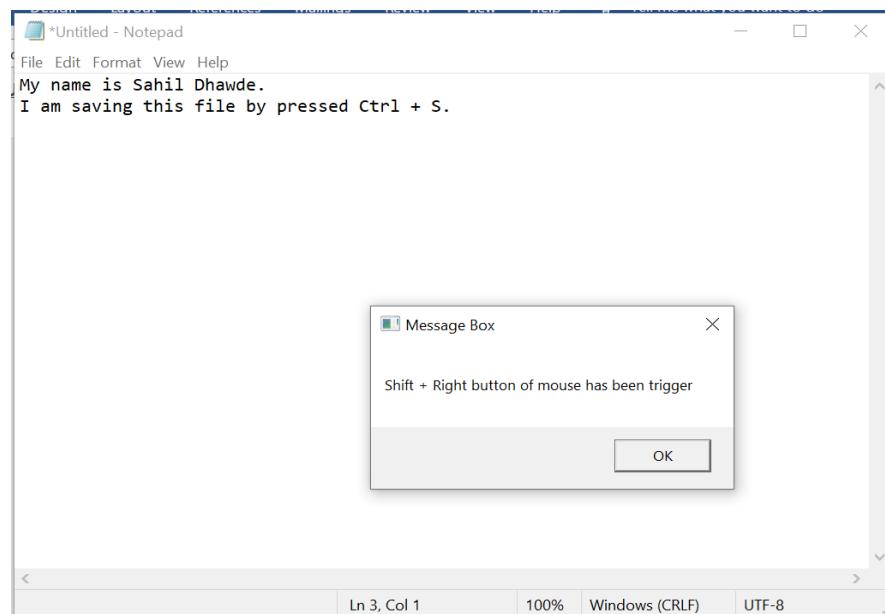
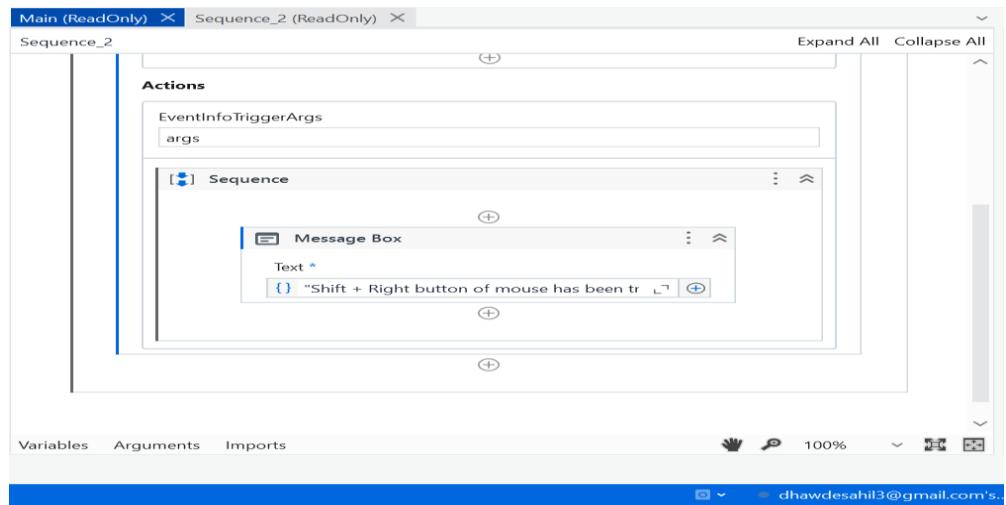
## Mouse Trigger

### Steps:

1. Open project.
2. Select Sequence activity.
3. Select from activities panel Trigger Scope activity.
4. In Trigger block, select from activities panel Mouse Trigger activity and check for "Shift" and enter Mouse Button as "Btn\_Right".
5. In Action block, select Message box and type "Shift + Right button of mouse has been trigger".
6. Run the project.

### Process & Output:



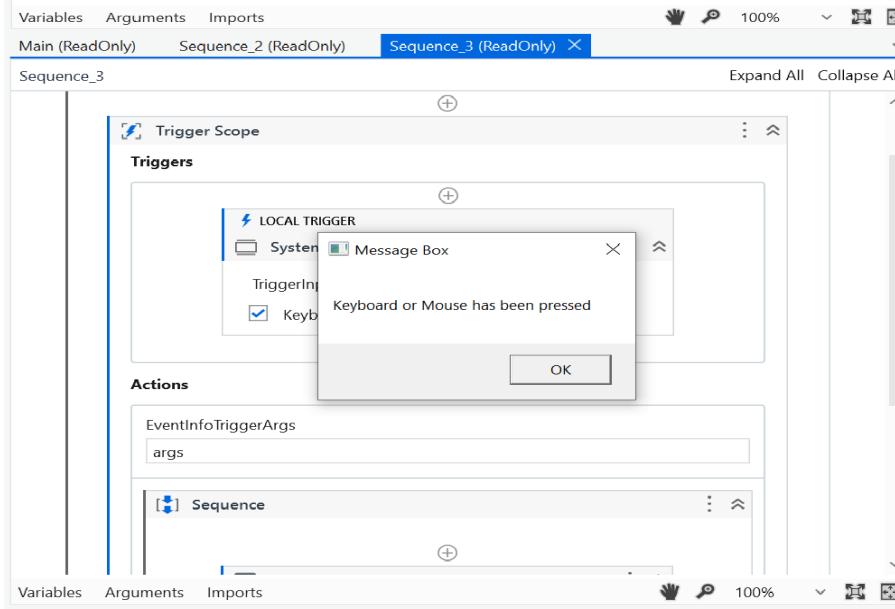
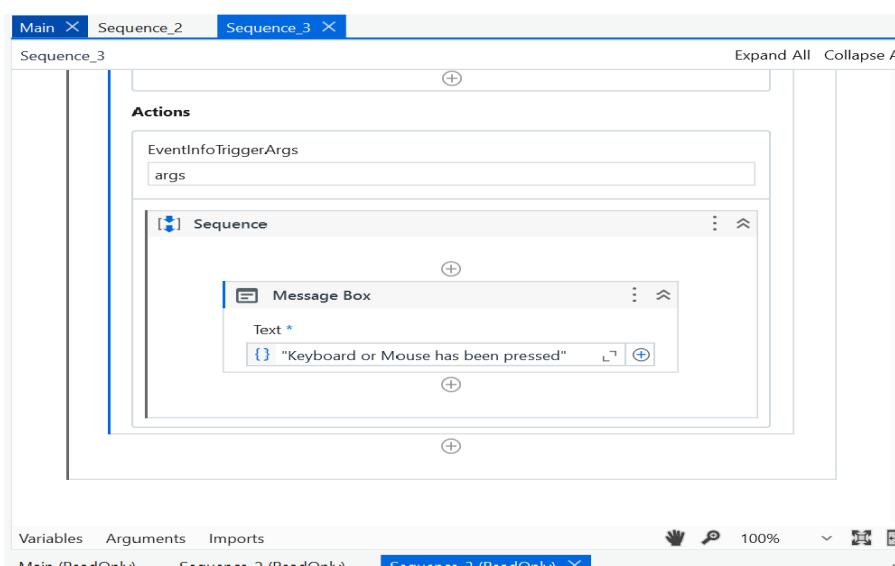
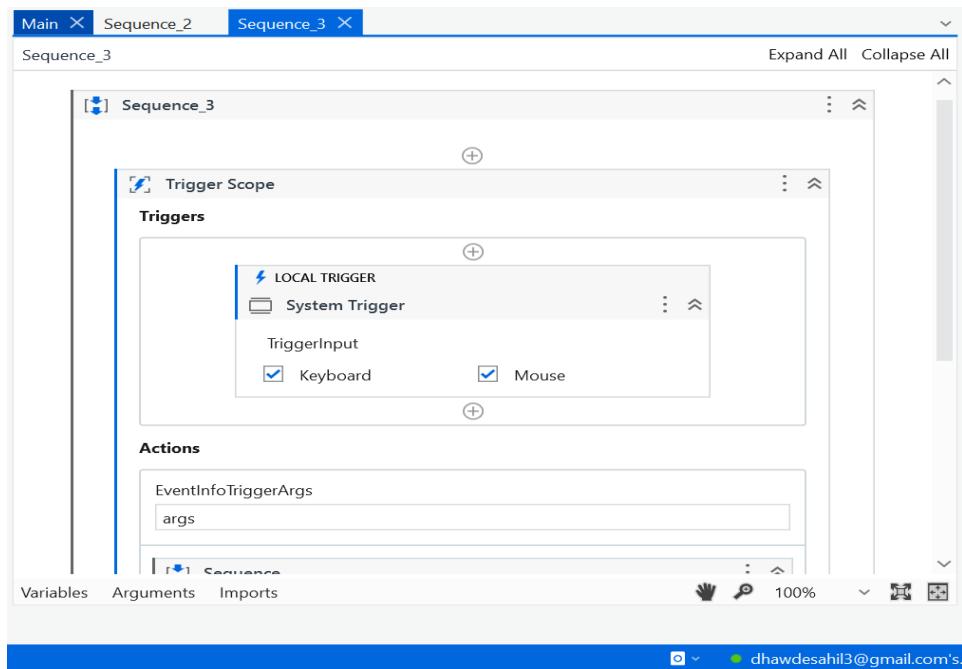


## System Trigger

### Steps:

1. Open project.
2. Select Sequence activity.
3. Select from activities panel Trigger Scope activity.
4. In Trigger block, select from activities panel System Trigger activity and check for both "Keyboard" and "Mouse".
5. In Action block, select Message box and type "Keyboard or Mouse has been pressed".
6. Run the project.

### Process & Output:



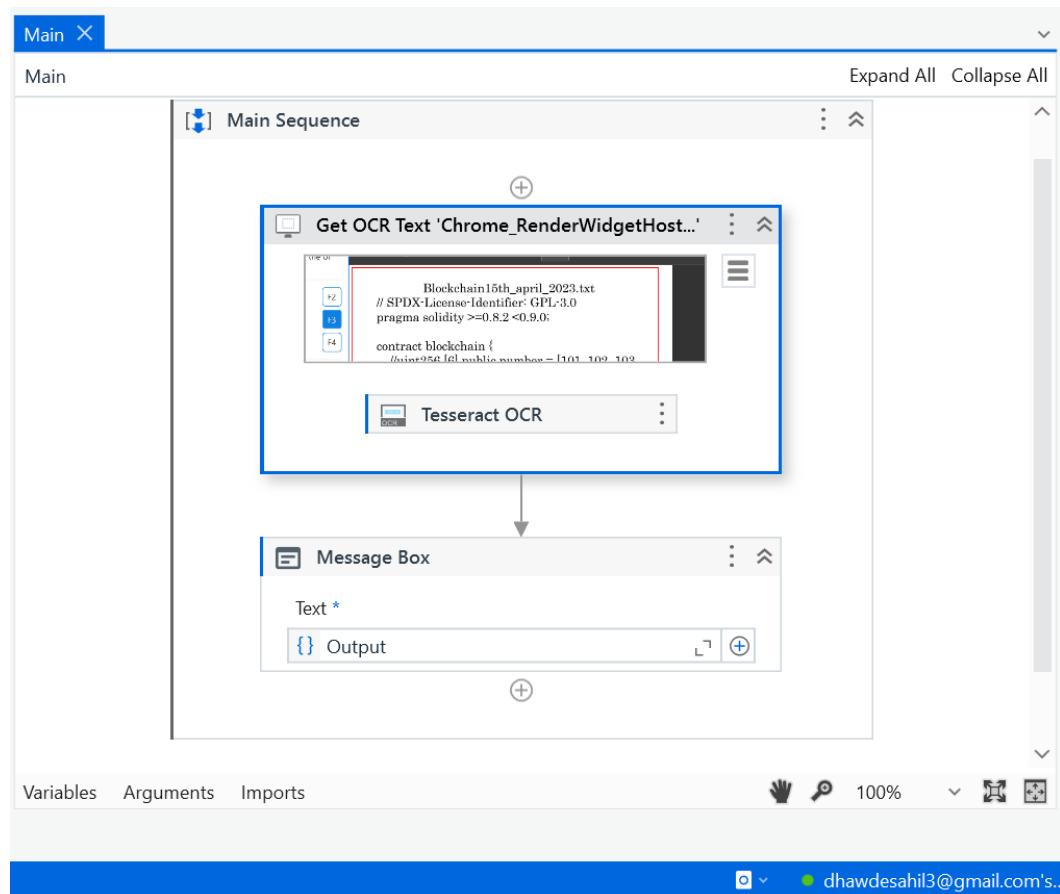
## B. Automate the following screen scraping methods using UiPath

### i. OCR

#### Steps:

1. Open project.
2. Select Sequence activity.
3. Select from activities panel Get OCR Text activity, and indicate to the file to get text.
4. Search and Drag n Drop Tesseract OCR from activities panel.
5. Create Output variable as String.
6. Select Message box and enter "Output".
7. Run the project.

#### Process & Output:



Blockchain15th\_april\_2023.txt  
// SPDX-License-Identifier: GPL-3.0

```
pragma solidity >=0.8.2 <0.9.0;

contract blockchain {
    //uint256 [6] public number = [101, 102, 103, 201, 202, 203];
    //uint public count = 0;

    function checkAccess(uint _rollNumber) public view returns (string memory) {
        uint256 date = 23;
        uint256 result = _rollNumber % 2;
        //function Find() public view returns (string memory) {
        if(result %2 == 0) {
            return "Roll number is allowed";
        } else {
            return "Rollnumber is denied";
        }
    }
}
```

Blockchain15th\_april\_2023.txt  
// SPDX-License-Identifier: GPL-3.0

```
pragma solidity >=0.8.2 <0.9.0;
contract blockchain {
    //uint256 [6] public number = [101, 102, 103, 201, 202, 2081];
    //faint public count = 0;
    function checkAccess(uint256 _rollNumber) public view returns (string memory) {
        uint256 date = 23;
        uint256 result = _rollNumber & date;
        //function Find() public view returns (string memory) {
        if(result %2 == 0) {
            return "Roll number is allowed";
        } else {
            return "Rollnumber is denied";
        }
    }
}
```

Message Box

OK

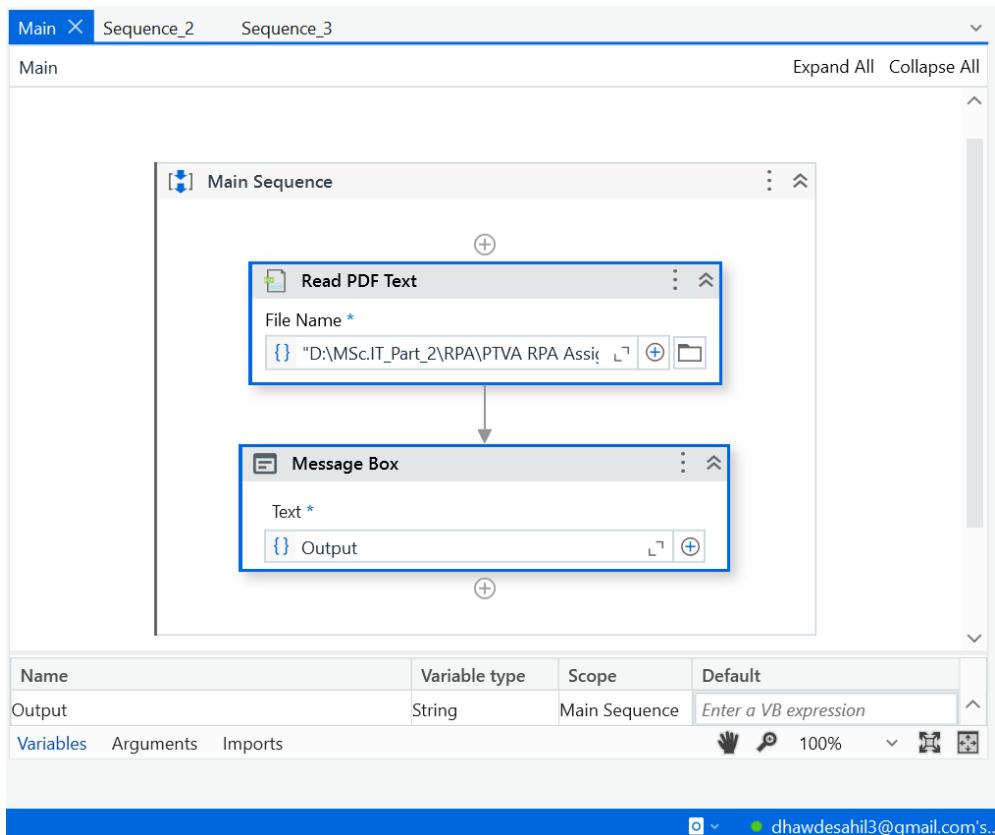
**C. Install and automate any process using UiPath with the following plug-ins:**

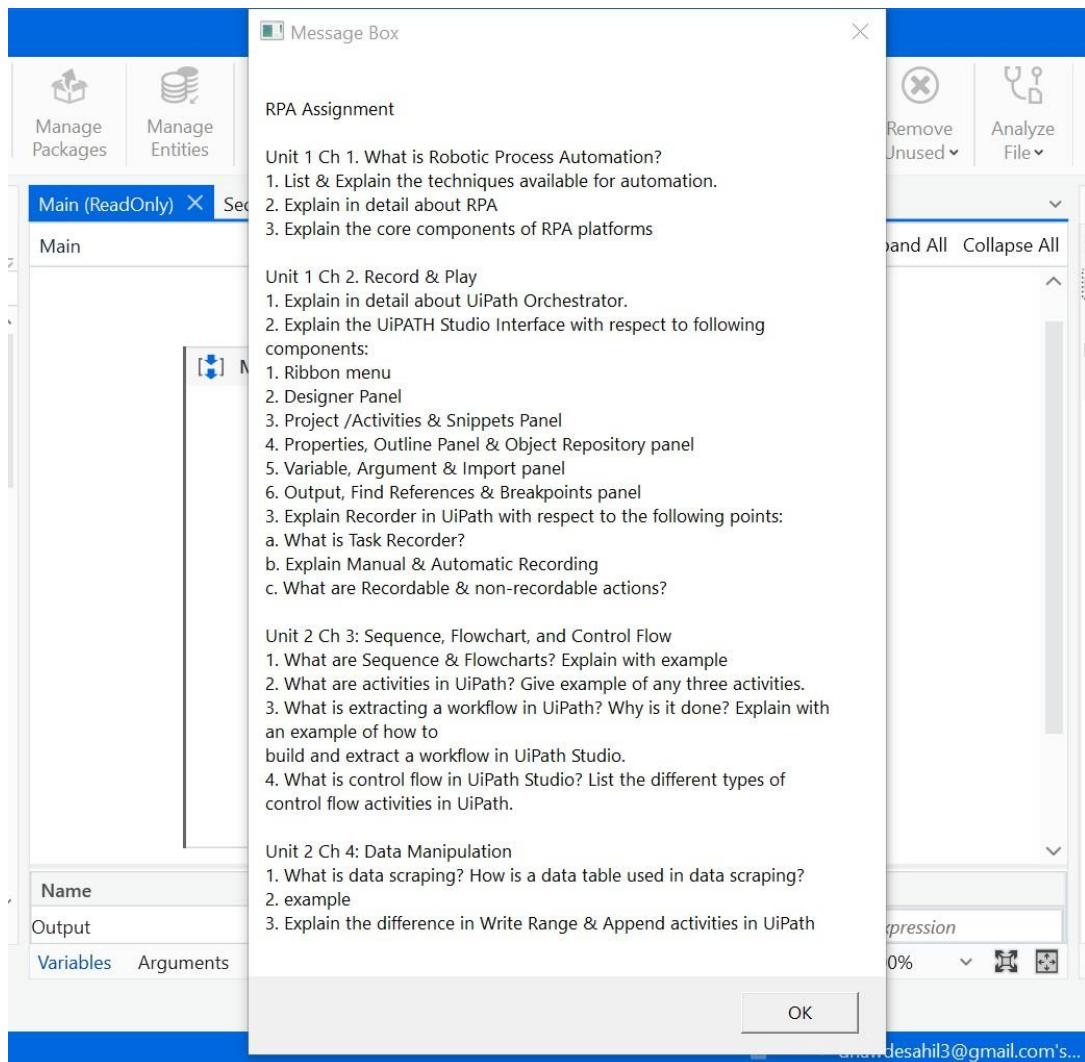
**i. PDF Plugin**

**Steps:**

1. Open project.
2. Select Sequence activity.
3. Download PDF plugin from Manage Packages icon on Ribbon panel of UiPath studio.
4. Select from activities panel Get PDF Text activity and give file name from which we have to get text.
5. Create Output variable as String.
6. Select Message box and enter "Output".
7. Run the project.

**Process & Output:**



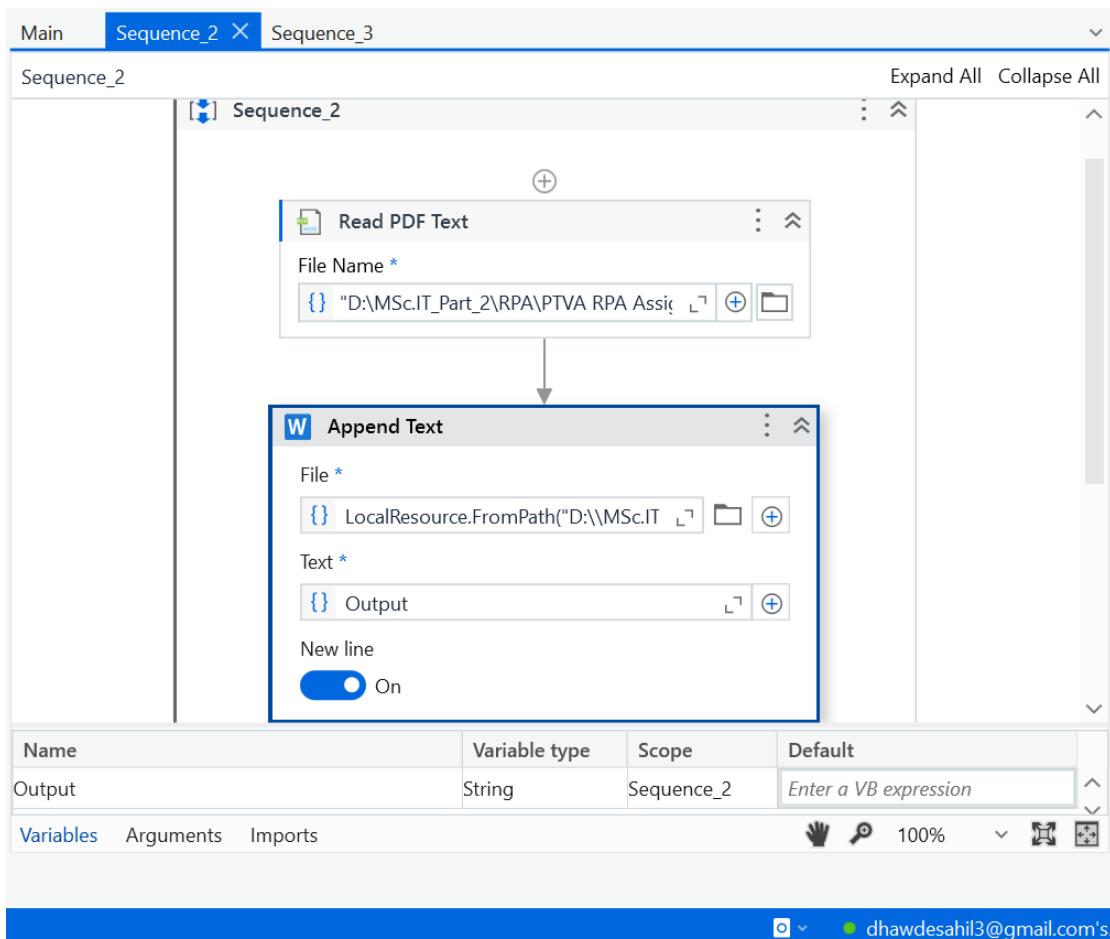


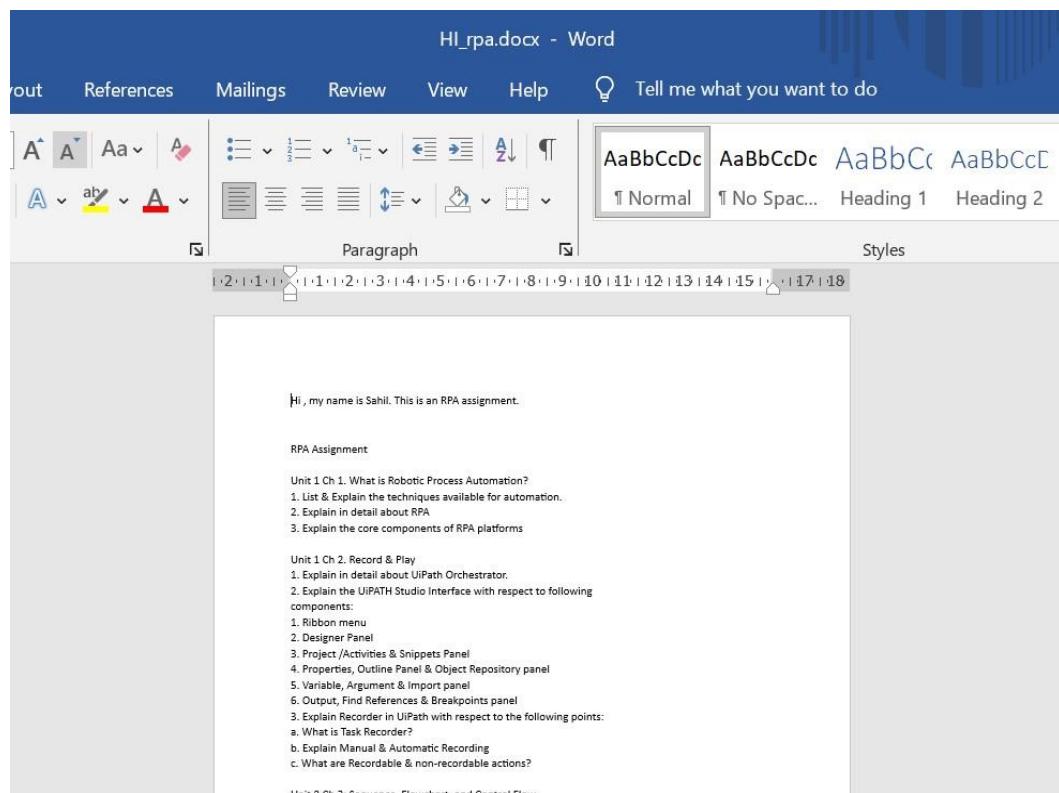
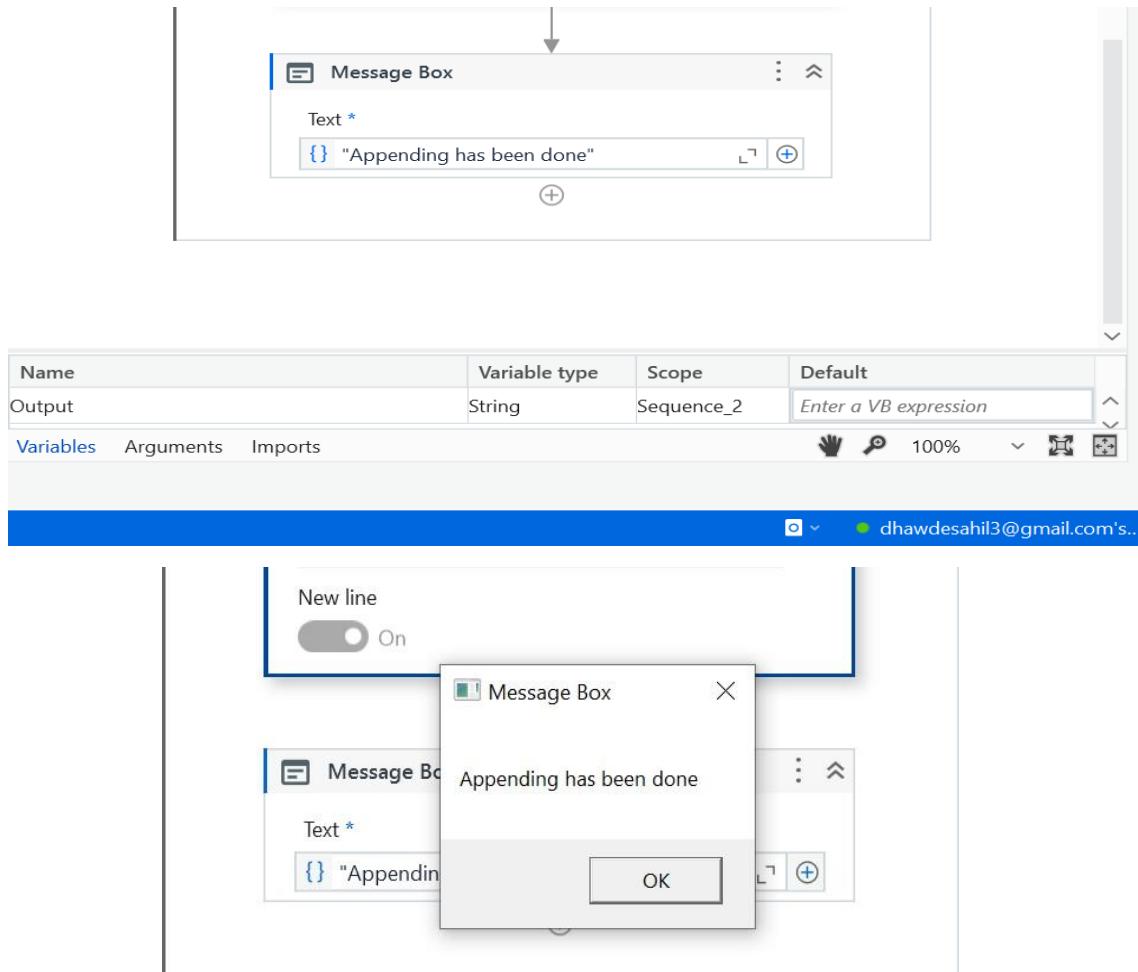
## ii. Word Plugin

### Steps:

1. Open project.
2. Select Sequence activity.
3. Download Word plugin from Manage Packages icon on Ribbon panel of UiPath studio.
4. Select from activities panel Get PDF Text activity and give file name from which we have to get text.
5. Create Output variable as String.
6. Select Word Append Text activity.
7. Browse the file in which we have to append and set Text as “Output”.
8. Select Message box and type “Appending has been done”.
9. Run the project.

### Process & Output:





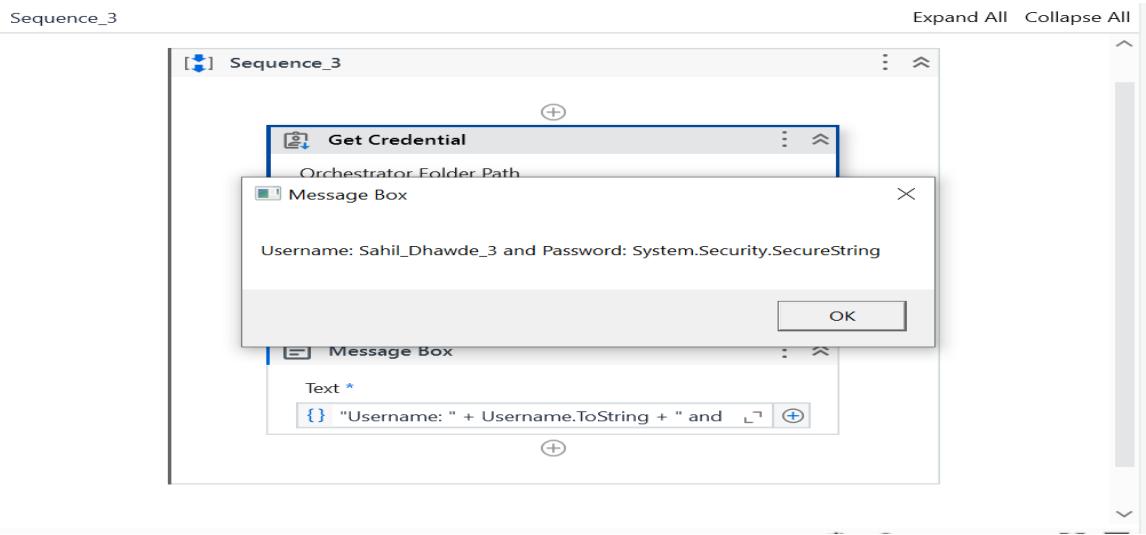
### iii. Credential Management

#### Steps:

1. Create an Asset in UiPath Orchestrator of type “Credential.”
2. Open Project.
3. Select Sequence activity.
4. Select Get Credential activity from activities panel.
5. In Get Credential activity, select orchestrator folder place as your workspace and enter the Asset Name that created earlier.
6. Create two variables as Username and Password.
7. Select Message box activity from activities panel and type “Username: ” + Username.ToString + ” and Password: ” + Password.ToString”.
8. Run the project.

#### Process & Output:

The screenshot shows the UiPath Orchestrator interface. At the top, the navigation bar includes 'Assets' which is currently selected. The left sidebar shows 'My Workspace' selected under 'Folders'. The main area displays a table of assets, with one entry for 'Sahil Dhawde' of type 'Credential'. Below this, the 'Sequence\_3' tab is active in the bottom navigation bar. The main workspace shows a sequence with a 'Get Credential' activity followed by a 'Message Box' activity. The 'Get Credential' activity has 'Orchestrator Folder Path' set to 'dhawdesahil3@gmail.com's workspace' and 'Asset Name' set to 'Sahil Dhawde'. The 'Message Box' activity has 'Text' set to a template string involving Username and Password. The properties pane on the right shows the activity is of type 'UiPath.Core.Activities.GetRobotCredential'. The 'Output' section is expanded, showing 'Username' and 'Password' both mapped to 'Out' variables.



## Practical No: 9

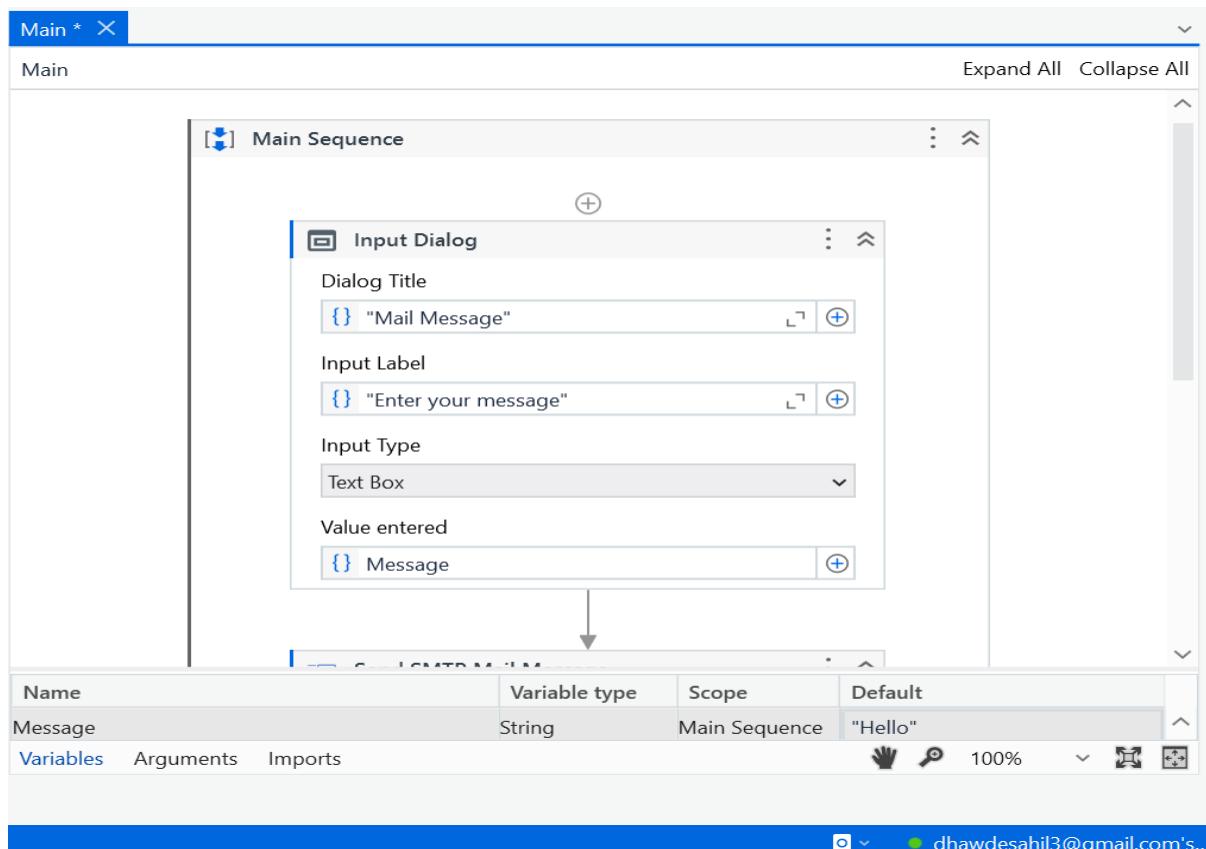
**Aim: Implement the following:**

**A. Automate the process of send mail event (on any email).**

**Steps:**

1. Open Project.
2. Select Sequence activity.
3. Create one string variables Message to store the message.
4. Select one Input dialog.
5. Configure the Input dialog boxes to take the values for Message to send.
6. Select Send SMTP mail message & configure the To, Subject & Message as per the variable created earlier.
7. In Properties panel. Set the Host values of Port to “587”, Server Name to "smtp-mail.outlook.com".
8. And select Message box and enter text “Message has been sended”.
9. Run the project.

**Process & Output:**



Main \* X

Main

Send SMTP Mail Message

To \* { "dhawdesahil3@gmail.com" }  
Subject { "Send testing SMTP mail message" }  
Body { Message }

Message Box

Text \* { "Message has been sended." }

Properties

UiPath.Mail.SMTP.Activities.SendMail

- Body Message { "Send test" }
- Subject "Send test"
- Forward MailMessage { "The messa" }
- Host Port 587  
Server "smtp-ma"
- Logon Email "TangoChi" ...  
Password "OverandF" ...  
SecurePassword "The passw" ...  
UseOAuth
- Misc Private
- Options ContinueOnError   
Ignore CRL False  
IsBodyHtml

Name Variable type Scope Default

Message	String	Main Sequence	"Hello"
---------	--------	---------------	---------

Variables Arguments Imports

dhawdesahil3@gmail.com's... Add To Source Control VB, Windows

```
graph TD; Start(( )) --> SendMail[Send SMTP Mail Message]; SendMail --> MessageBox[Message Box]; MessageBox --> End(( ));
```

Main

Send SMTP Mail Message

Mail Message

Enter your message

Hello Sahil, I am doing RPA Practical!

Ok

Text \*

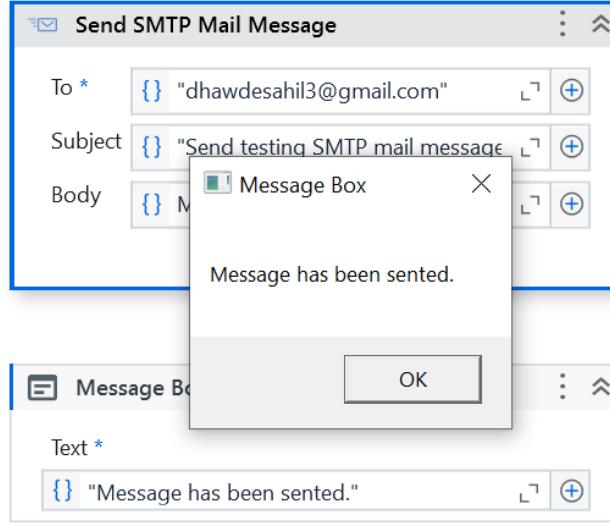
{ "Message has been sended." }

Expand All Collapse All

```
graph TD; Start(( )) --> SendMail[Send SMTP Mail Message]; SendMail --> MailMessage[Mail Message]; MailMessage --> MessageBox[Message Box]; MessageBox --> End(( ));
```

Main

Expand All Collapse All



Send testing SMTP mail message activity. Inbox x



TangoCharlie333@outlook.com

Hello



TangoCharlie333@outlook.com

to me ▾

Hello Sahil, I am doing RPA Practical.

Reply

Forward

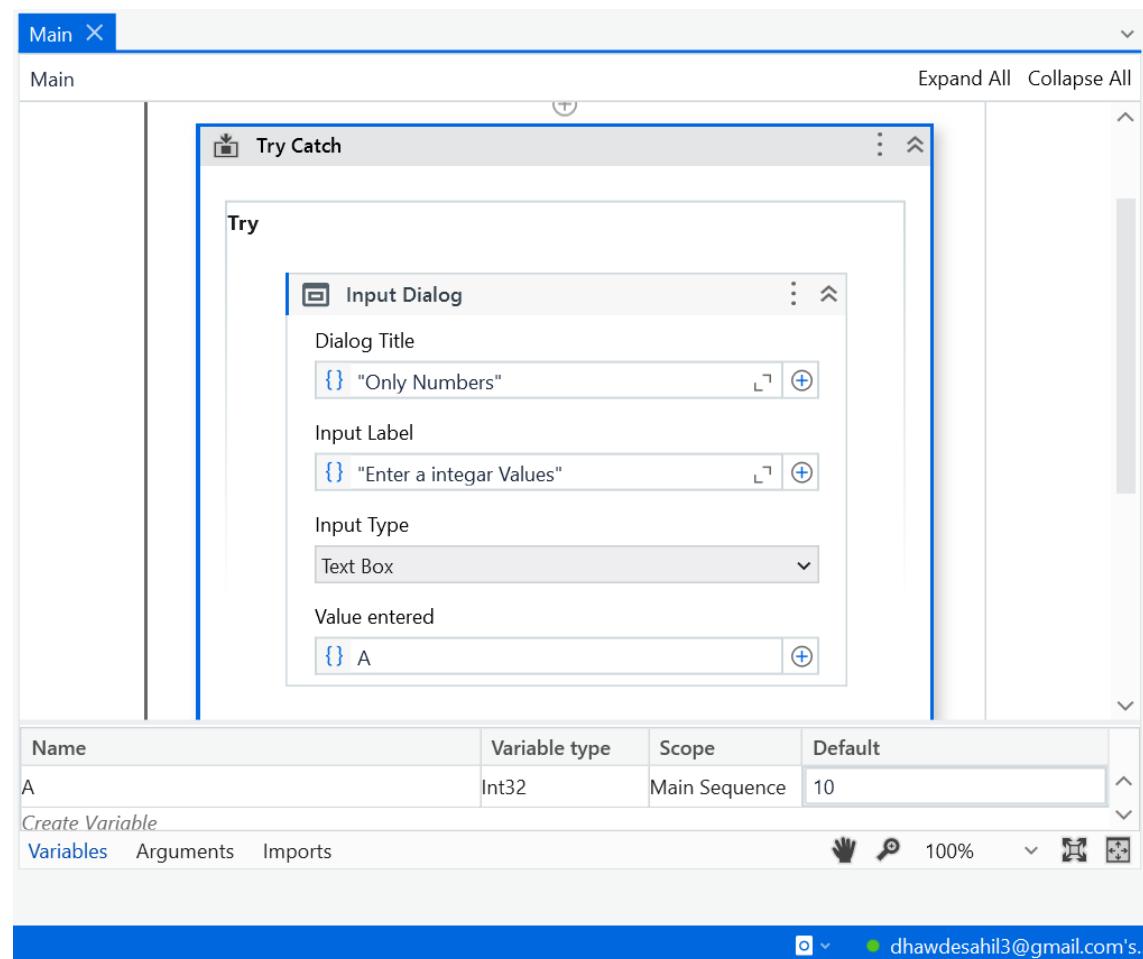


## B. Demonstrate the Exception handing in UiPath.

### Steps:

1. Open Project.
2. Select Sequence activity.
3. Create one variables A (int32).
4. Select Try Catch activity from activities panel.
5. In Try block, drag n drop Input dialog activity and configure it by entering A as a Value entered.
6. In Catch block, drag n drop Message box and type “Entered values should be integer”.
7. And search for “System.Exception” for Exception.
8. Run the project.

### Process & Output:



Main X

Main

Try

Catches

Exception exception

Message Box

Text \* "Entered values should be Integer."

Add new catch

Finally

Add an activity

Name Variable type Scope Default

A	Int32	Main Sequence	10
---	-------	---------------	----

Create Variable Variables Arguments Imports

Exception exception

Only Numbers

Enter a integer Values

Sahil

Ok

Add n Finally Add an activity

+

Catches

Exception exception

Message Box

Text \* "Entered values should be Integer."

OK

Add new catch Finally Add an activity

+

Expand All Collapse All

dhawdesahil3@gmail.com's...

## **Practical No: 10**

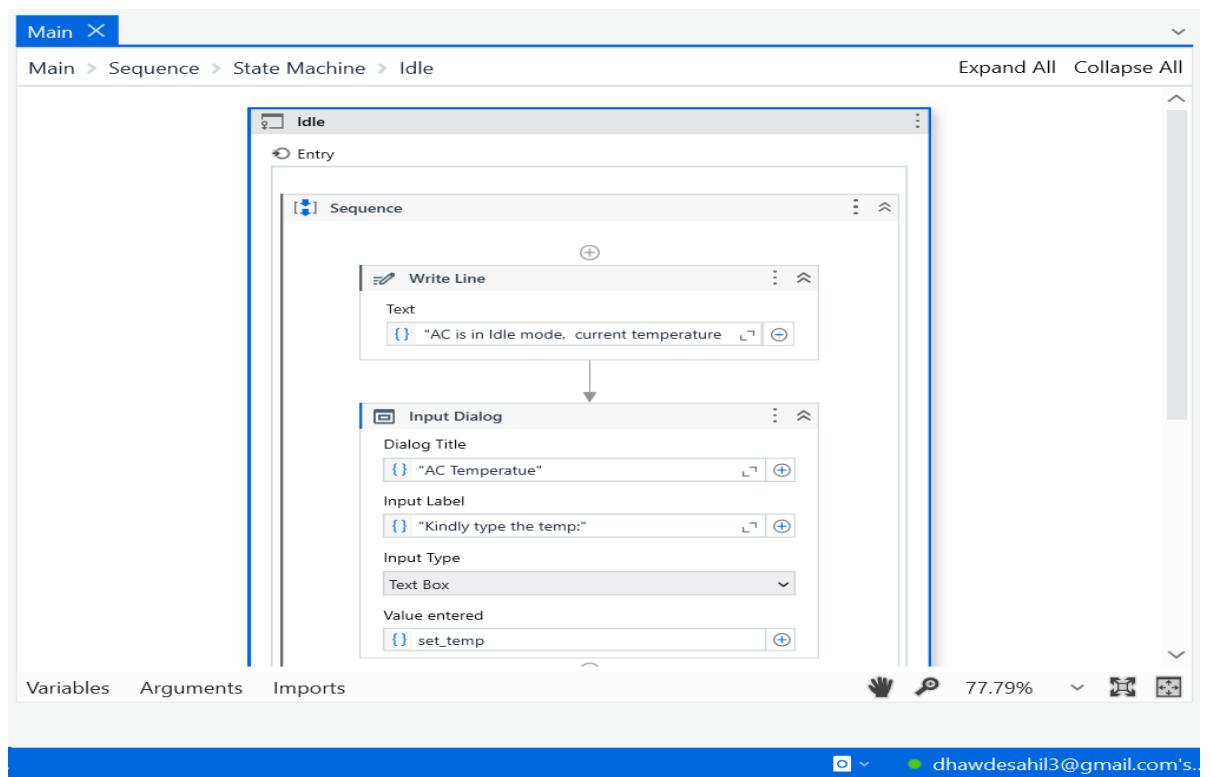
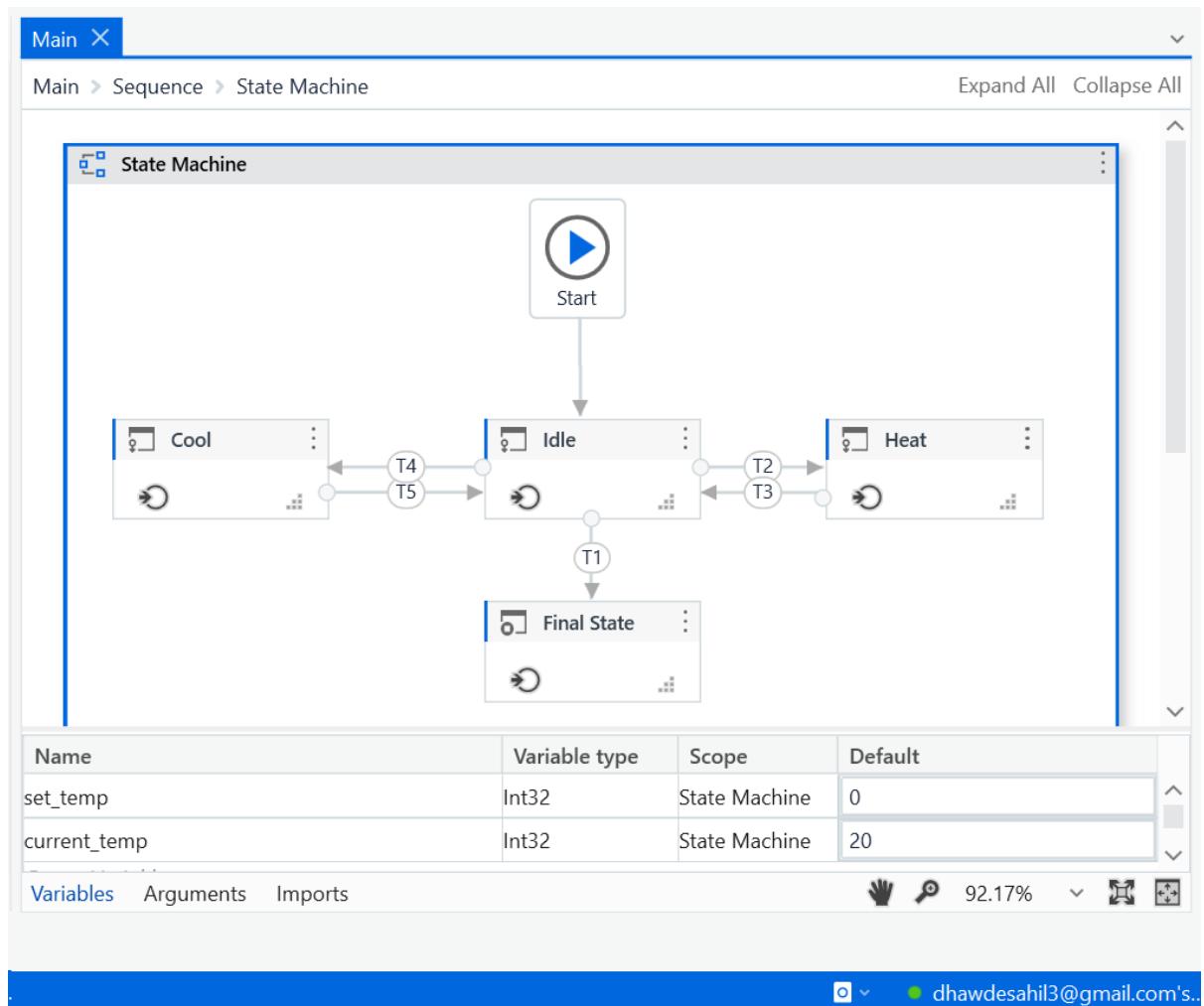
**Aim: Implement the following:**

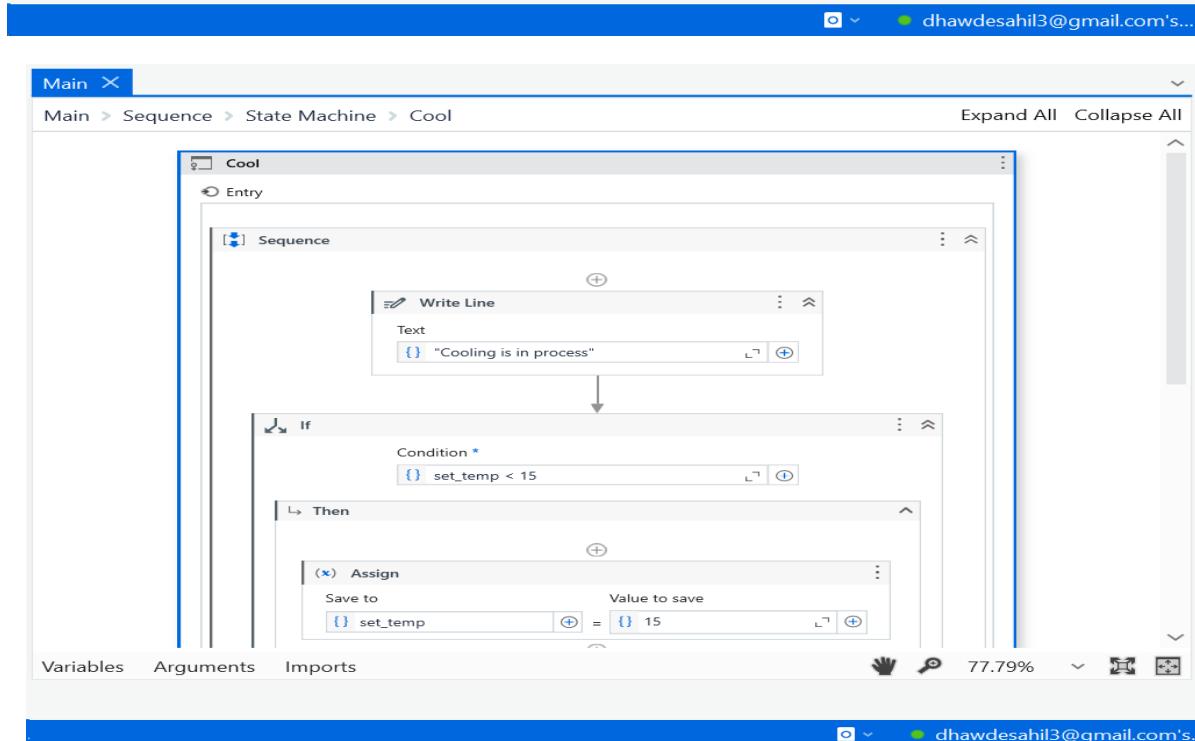
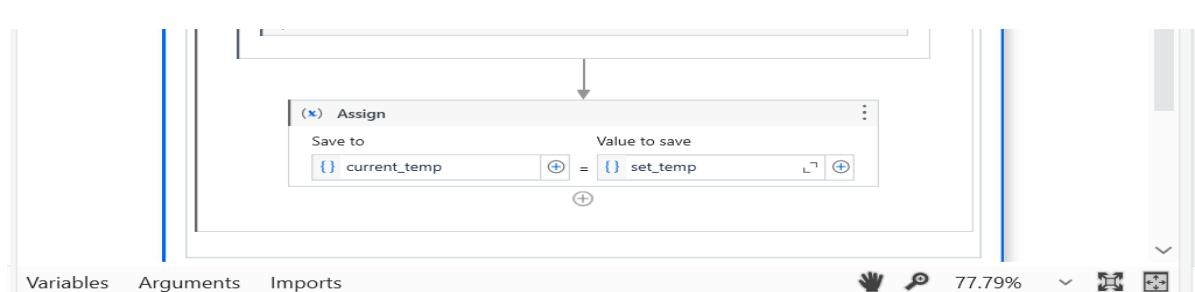
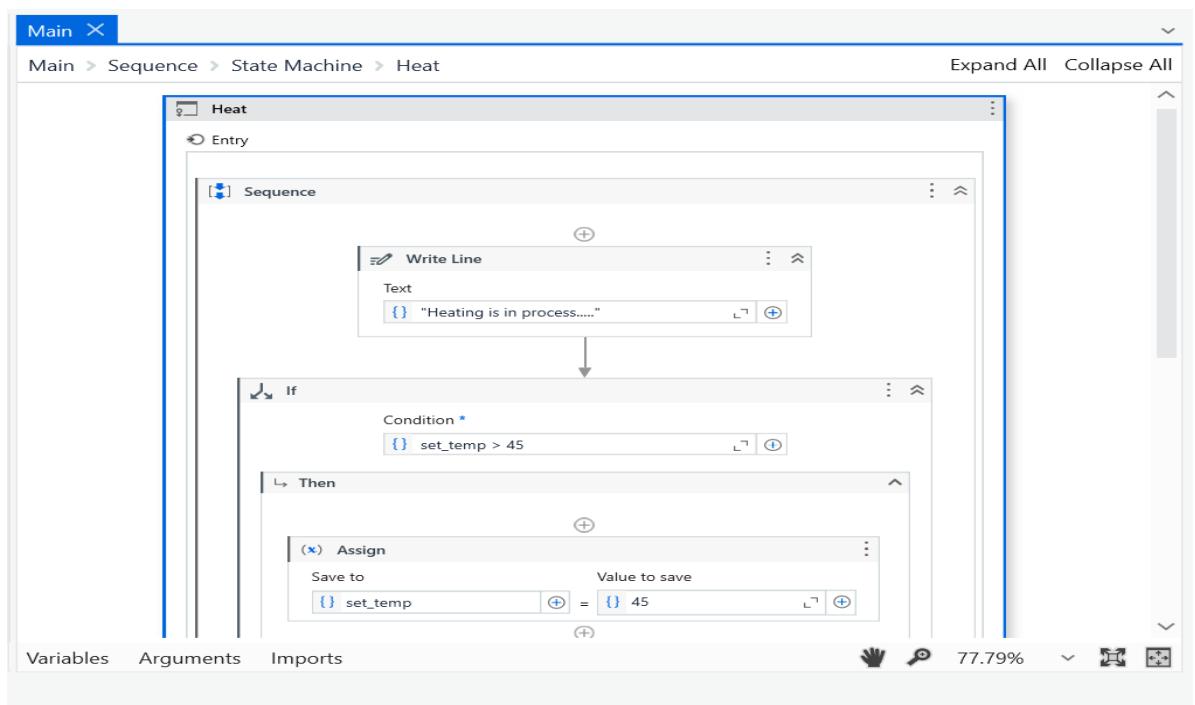
**A. Automate any process using State Machine in UiPath.**

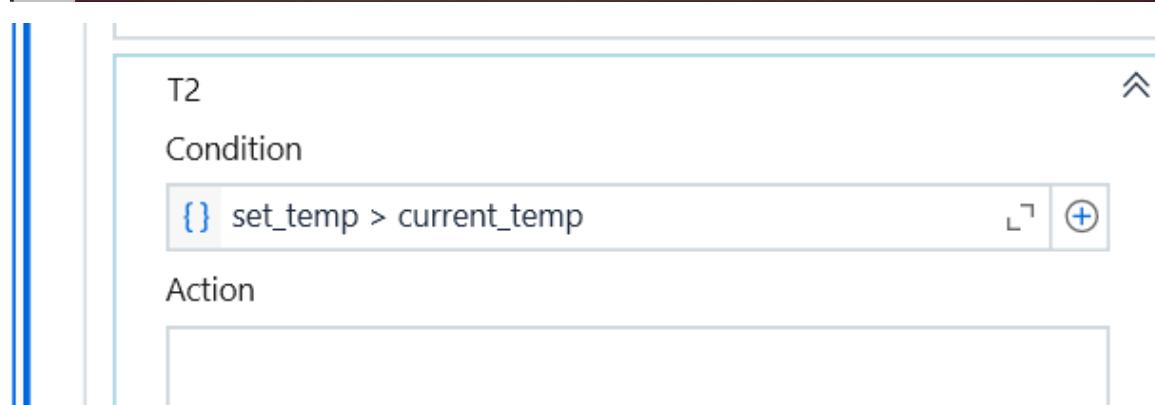
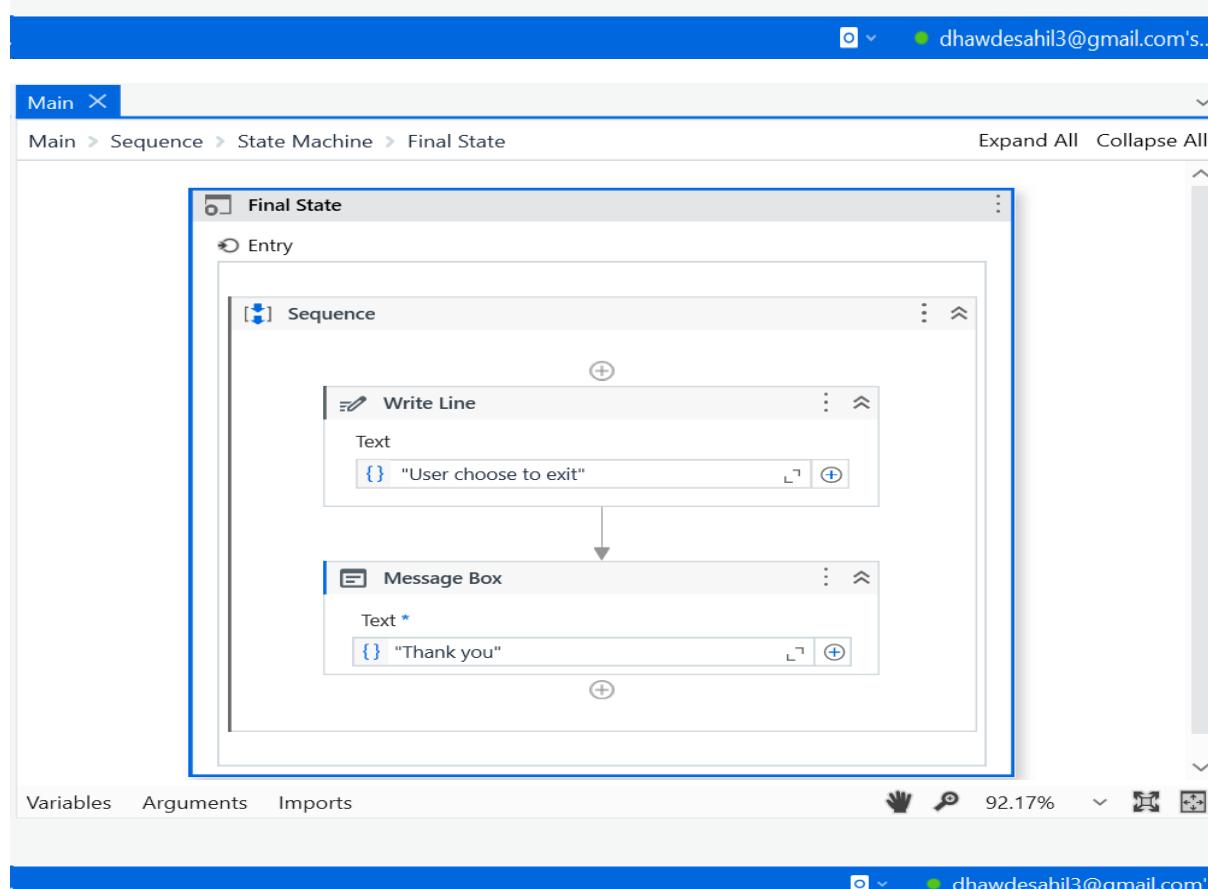
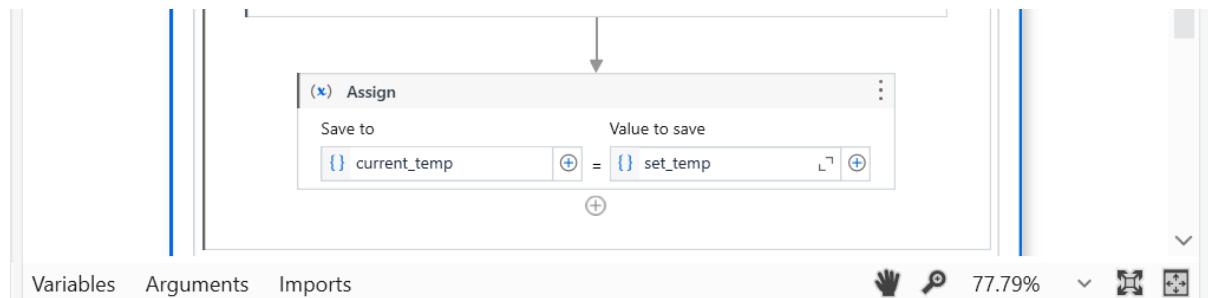
**Steps:**

1. Open Project.
2. Select State Machine activity, double click it.
3. Select from activities panel State activity and named them as Cool, Idle, Heat.
4. Place them beside near other in order as Cool, Idle, Heat.
5. Draw a two Transition line such as incoming (T3) and outgoing (T2) between from Idle to Heat.
6. Draw a two Transition line such as incoming (T5) and outgoing (T4) between from Idle to Heat.
7. Select from activities panel Final State activity.
8. Draw a one Transition line such as outgoing (T1) between from Idle to Final state.
9. Create two variables set\_temp (int32) assigns to 0 and current\_temp (int32) assigns to 20.
10. In Idle state, select one Write Line activity and type "AC is in Idle mode, current temperature = " + current\_temp.ToString + " deg celsius".
11. And select Input dialog and configure it.
12. Set the value of Value Entered as "set\_temp".
13. In Heat state, select one Write Line activity and type " Heating is in process. ...".
14. Select If activity and give condition as "set\_temp>45".
15. In then block, select Assign activity to assign set\_temp = 45.
16. Select Assign activity outside the If activity and assign current\_temp = set\_temp.
17. In Cool state, select one Write Line activity and type " Cooling is in process.... ".
18. Select If activity and give condition as "set\_temp<15".
19. In then block, select Assign activity to assign set\_temp = 15.
20. Select Assign activity outside the If activity and assign current\_temp = set\_temp.
21. Set the conditions of T2 as "set\_temp > current\_temp".
22. Set the conditions of T1 as "set\_temp < current\_temp".
23. Set the conditions of both T3, T5 transition as "current\_temp.Equals(set\_temp)".
24. Set the conditions of T1 as "set\_temp.Equals(0)".
25. In Final state, select one Write Line activity and type "User choose to exit".
26. And Select Message box and type "Thank you".
27. Run the project.

**Process & Output:**









### Condition

```
{ } current_temp.Equals(set_temp)
```

## Action

T4

### Condition

```
{ } set_temp < current_temp
```

## Action

T5

### Condition

```
{ } current_temp.Equals(set_temp)
```

## Action

## Output



[Search](#)

① Execution started for file: Main

① State Machine execution started

① AC is in Idle mode, current temperature = 20 deg celsius

① Heating is in process....

① AC is in Idle mode, current temperature = 25 deg celsius

AC Temperature

X

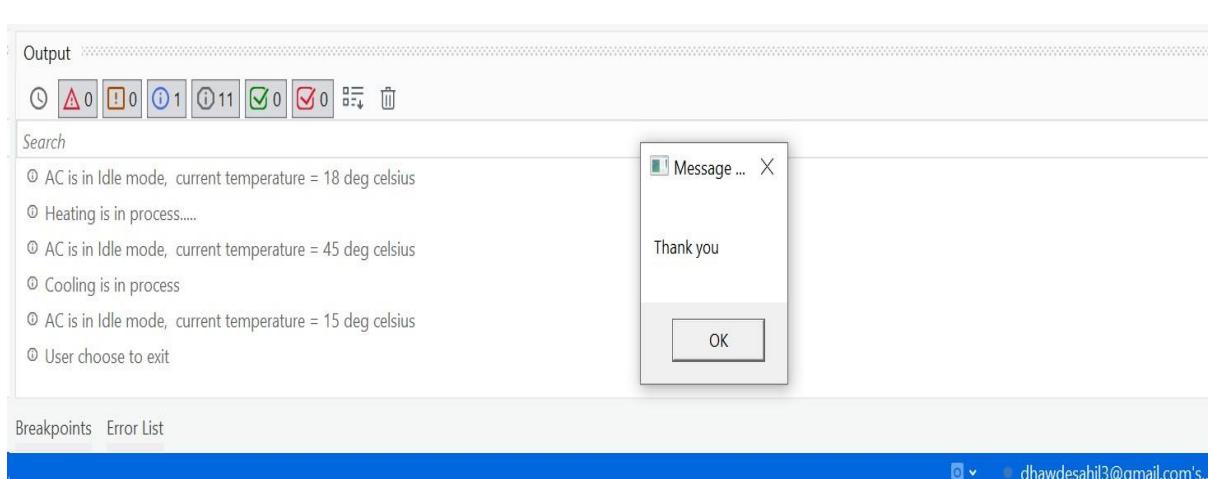
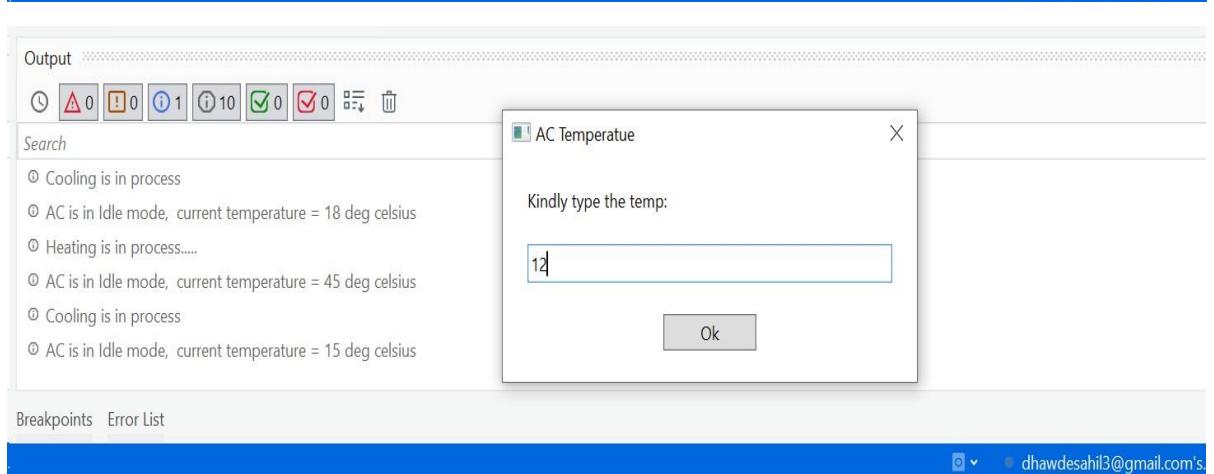
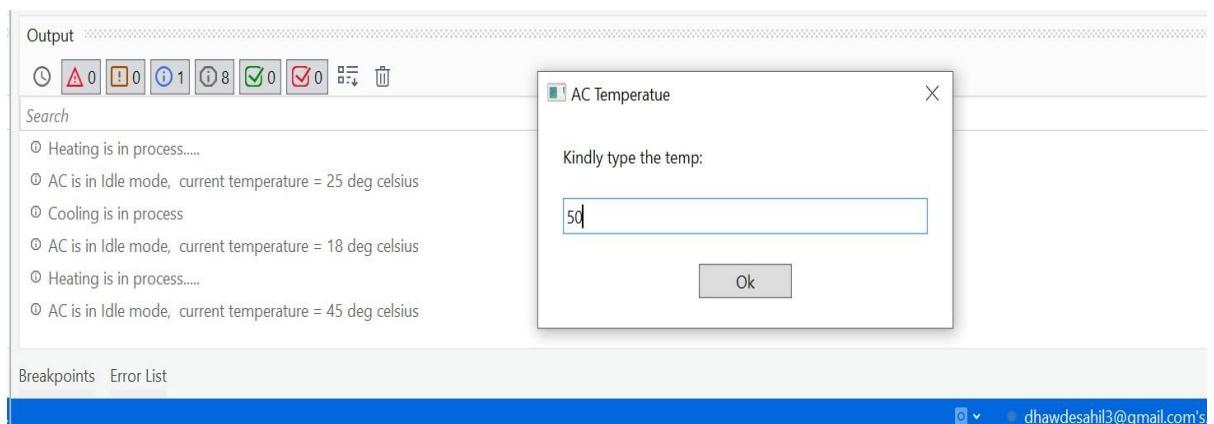
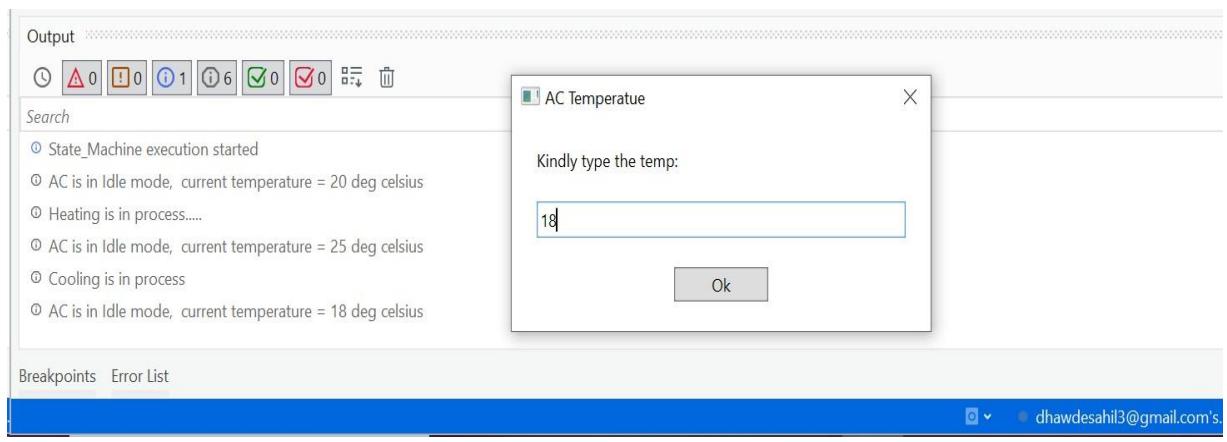
Kindly type the temp:

25

Ok

Breakpoints Error List

 v dhawdesahil3@gmail.com's...

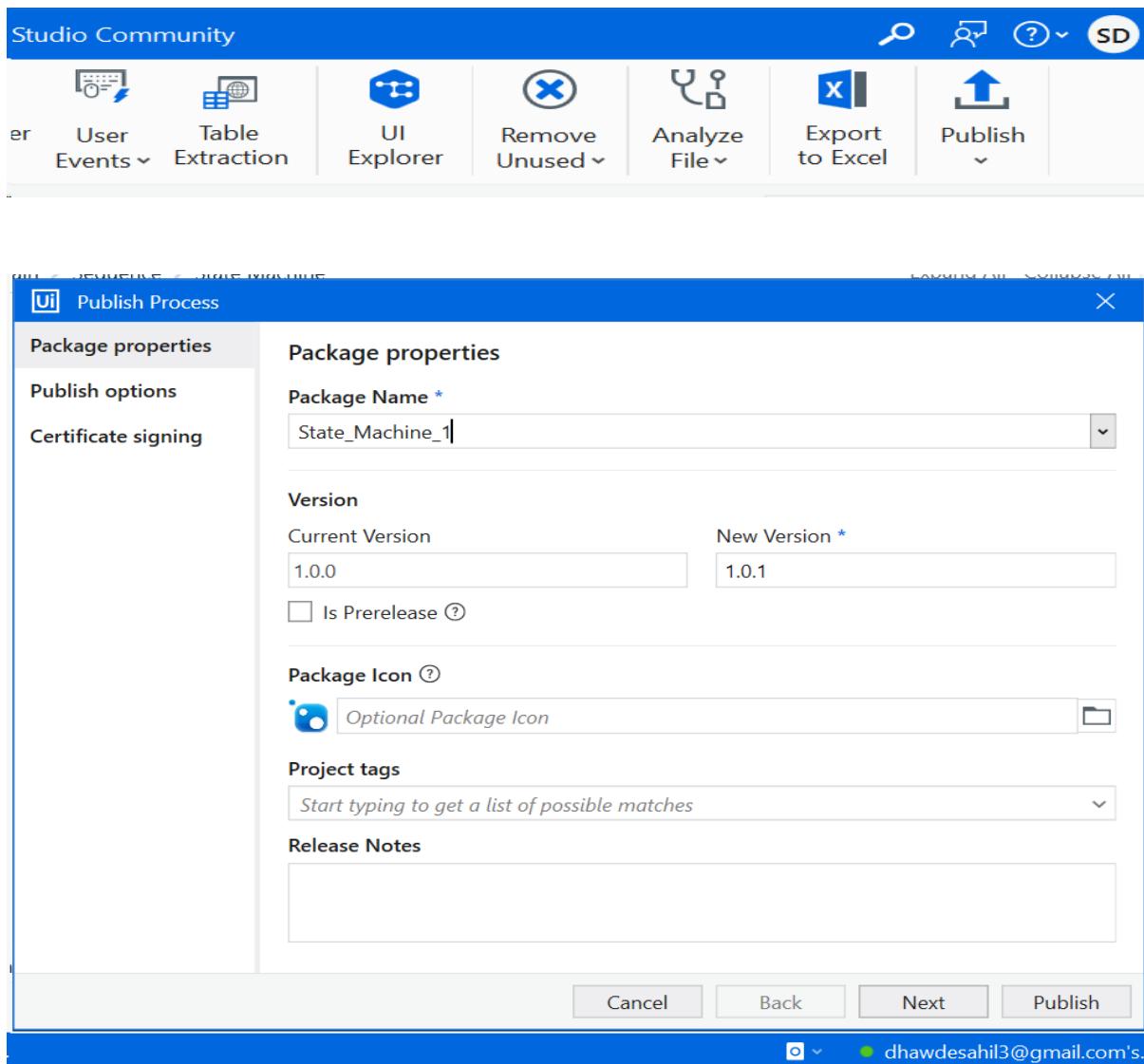


## B. Demonstrate the use of publish utility.

### Steps:

1. Open Saved project.
2. Select Publish icon on Ribbon panel of UiPath studio.
3. Publish process dialog box will be open.
4. In Package properties, give the Package Name and next.
5. In Publish options, select publish to “Orchestrator Personal Workspace Feed” and Next.
6. Then click on Publish button.
7. You will see your process publish in UiPath orchestrator and assistance.

### Process & Output:



**UI 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**

Remove Unused Dependencies ?

**Cancel** **Back** **Next** **Publish**

dhawdesahil3@gmail.com's..

**UI Publish Process**

**Package properties**

**Publish options**

**Certificate signing**

**Certificate signing**

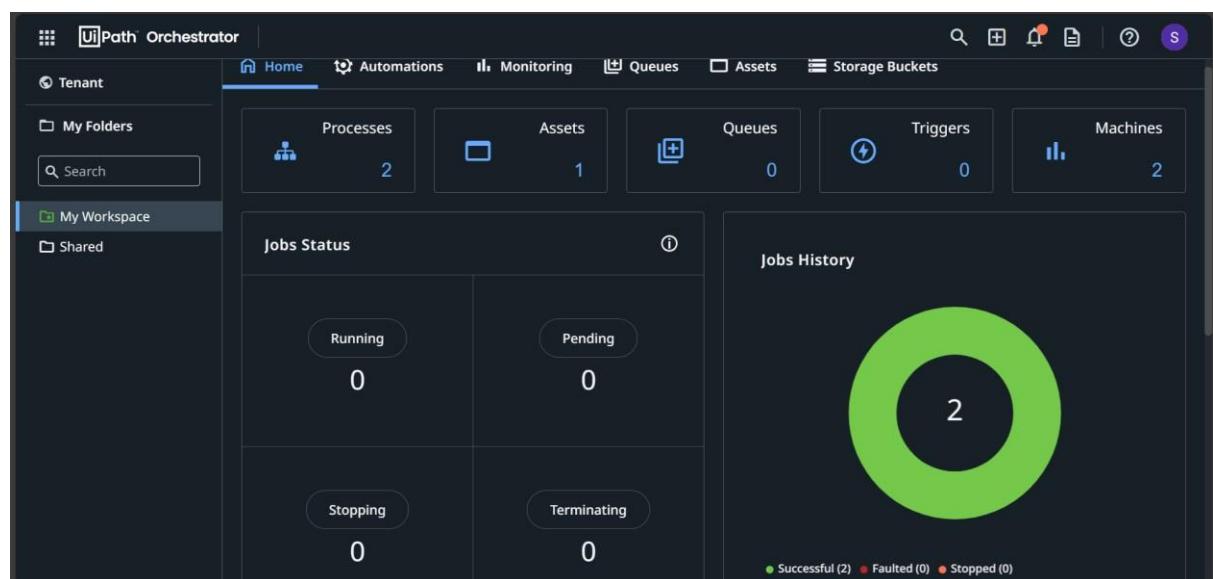
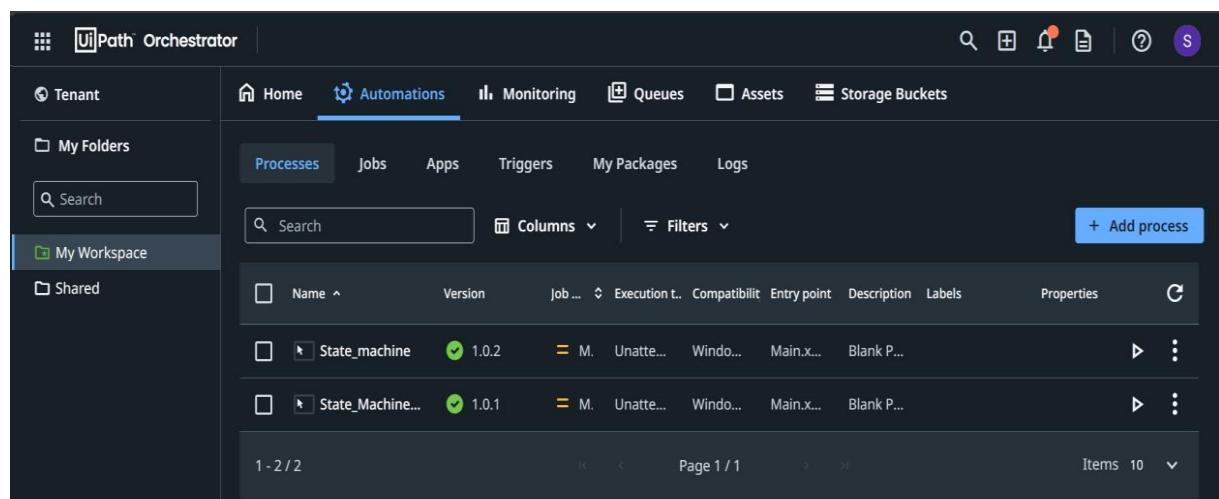
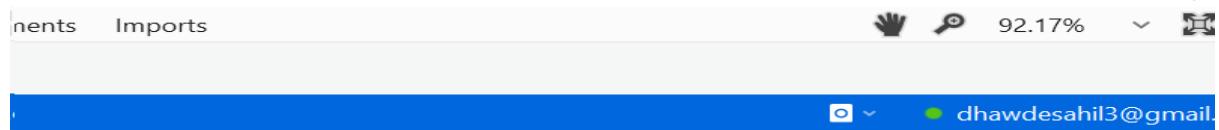
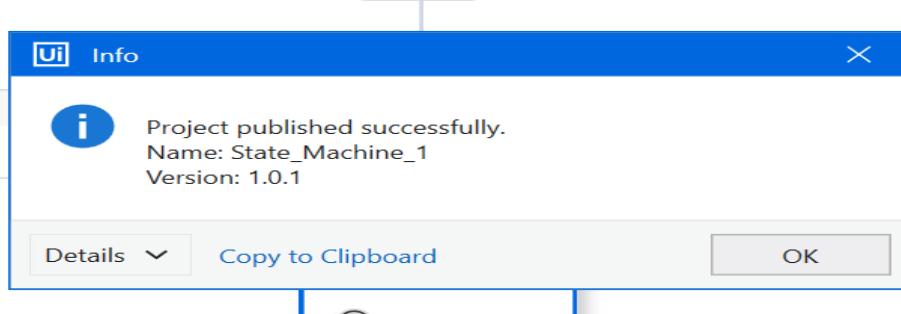
**Certificate**

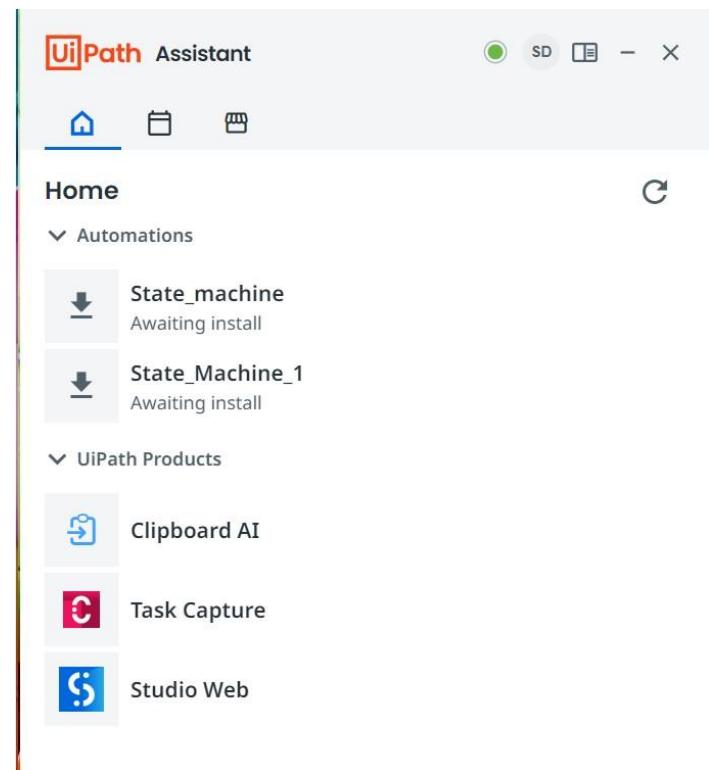
**Certificate Password**

**Timestamper**  
*Optional Certificate Timestamper*

**Cancel** **Back** **Next** **Publish**

dhawdesahil3@gmail.com's..





### **C. Demonstrate the use of asset using orchestrator.**

## Steps:

1. Create an Asset in UiPath Orchestrator of type “Text.”
  2. Open Project.
  3. Select Sequence activity.
  4. Create one variables Output (string).
  5. Select Get Asset activity from activities panel.
  6. In Get Asset activity, select orchestrator folder place as your workspace and enter the Asset Name that created earlier.
  7. Select Message box activity from activities panel and enter “Output” variable.
  8. Run the project.

## Process & Output:

The screenshot shows the 'UiPath Orchestrator' interface with the title 'My Workspace > Assets > Add Asset'. The main section is titled 'General details'. It contains fields for 'Asset name\*' (value: 'Get\_Asset'), 'Type' (dropdown menu showing 'Text'), 'Description' (value: 'Displaying Asset in message box'), and 'Tags' (empty input field). To the right, under 'Asset value', there is a note: 'When the global value is enabled every user will receive it, unless specifically overridden in the table below.' Below this note is a 'Text\*' field containing the value 'Hello, my name is Sahil from Sathaye college.'. At the bottom right are 'Cancel' and 'Create' buttons.

The screenshot shows the UiPath Orchestrator web application. The top navigation bar includes links for Home, Automations, Monitoring, Queues, Assets (which is the active tab), and Storage Buckets. On the left sidebar, there are sections for Tenant, My Folders, and Shared, with 'My Workspace' currently selected. The main content area displays a list of assets. At the top of this list is a search bar with placeholder text 'Search', a 'Columns' dropdown, and filters for 'Labels: All' and 'Properties: All'. A blue button labeled '+ Add asset' is also present. The asset list itself has columns for Name, Description, Type, Value, Labels, Properties, and a more options menu. Two assets are listed: 'Get\_Asset' (Text type) with the value 'Hello, my name is Sa...', and 'Sahil Dhawde' (Credential type) with the value '[In credential store]'. The bottom of the screen shows navigation icons for back, forward, and search, along with page information (Page 1 / 1) and item count (Items 10).

