

**PRACTICAL REPORT
ON
ROBOTIC PROCESS AUTOMATION**

**SUBMITTED BY
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ROLL NO: 06

**SUBMITTED TO
MISS. AHINSA GAIKWAD**

**MSc. (INFORMATION TECHNOLOGY) SEM - III
2023 – 2024**



**CONDUCTED AT
CHIKITSAK SAMUHA'S
S. S. & L.S. PATKAR COLLEGE OF ARTS & SCIENCE
AND
V. P. VARDE COLLEGE OF COMMERCE & ECONOMICS
An Autonomous college,
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GOREGAON (W). MUMBAI -400062**

CHIKITSAK SAMUHA'S

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PATKAR COLLEGE OF ARTS & SCIENCE
&

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COMMERCE & ECONOMICS

GOREGAON (WEST), MUMBAI - 400 104.

An Autonomous College, University of Mumbai

C E R T I F I C A T E

*Certified that such of the experiments as have been duly signed
were performed by Mr./Miss _____
Roll No. _____ of _____ class _____
Division _____ in the _____ Laboratory
of this college during the year _____*

Professor-in-Charge

Examiner

Co-ordinator

Date: _____

_____ Department

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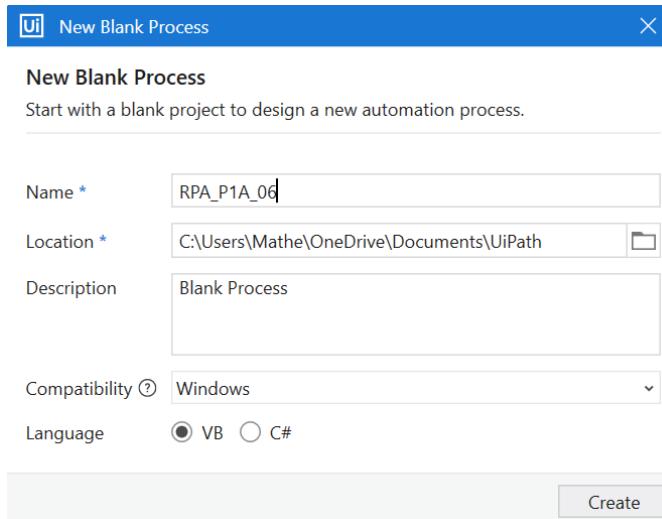
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PRACTICAL 1

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

Step 1: Open UiPath Studio and create a new blank project.



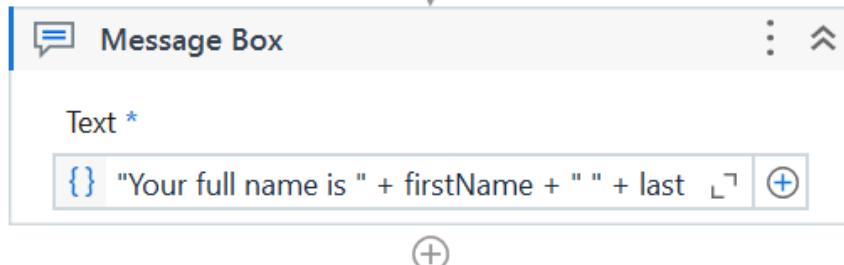
Step 2: Create two new variables named firstName and lastName

| Name | Variable type | Scope | Default |
|------------------------|---------------|---------------|-----------------------|
| firstName | String | Main Sequence | Enter a VB expression |
| lastName | String | Main Sequence | Enter a VB expression |
| <i>Create Variable</i> | | | |

Step 3: Drag and drop the "Input Dialog" activity twice from the "Activities" panel on the left-hand side. Double-click on the "Input First Name" activity and set the properties as follows: Title: Enter First Name. Double-click on the "Input Last Name" activity and set the properties as follows: Title: Enter Your Last Name

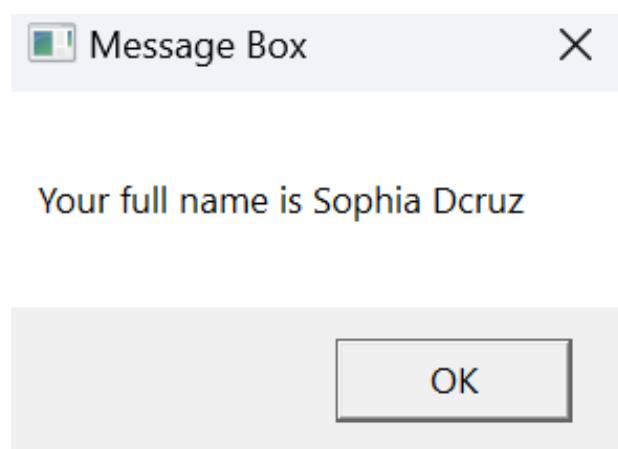
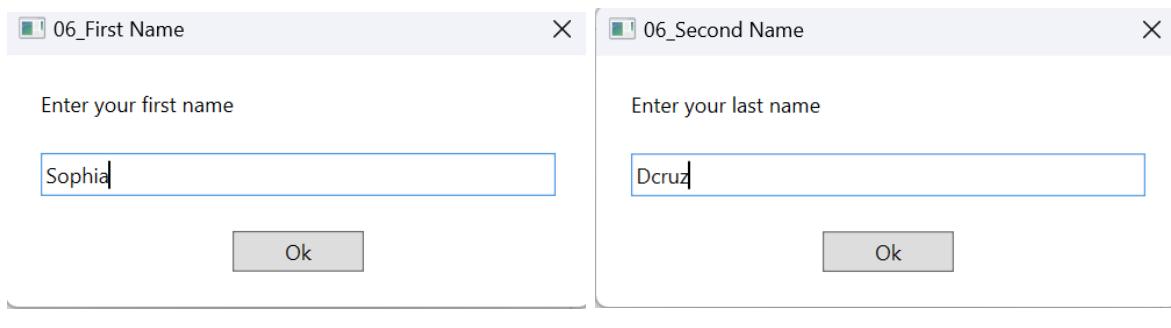
Step 4: Drag and drop the "Message Box" activity from the "Activities" panel. Double-click on the "Message Box" activity and set the properties as follows:

Text: **"Your Full Name is " + firstName + " " + lastName**



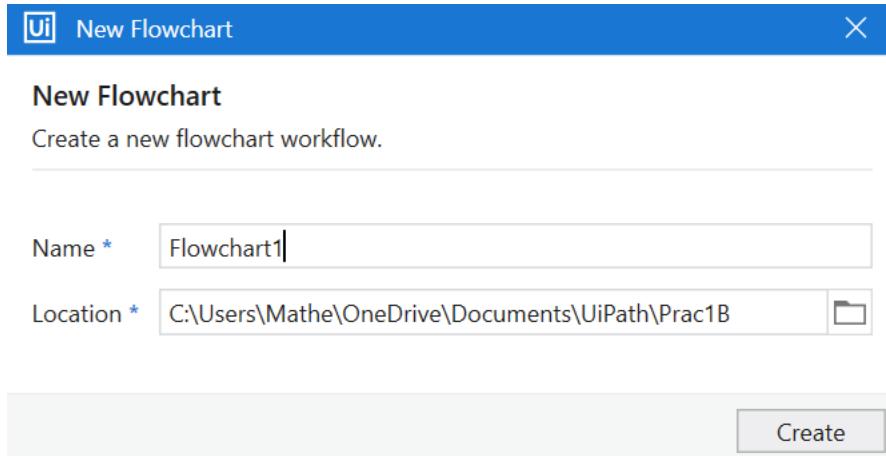
Step 5: Save your workflow and run the project.

OUTPUT:



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

- Step 1: Open UiPath Studio and create a new blank project.
 Step 2: Create a Flowchart by clicking on Add New – Flowchart



Step 3: Create 2 Variables ‘Fname’ and ‘Lname’

| Name | Variable type | Scope | Default |
|---------------------------------|---------------|------------|-----------------------|
| Fname | String | Flowchart1 | Enter a VB expression |
| Lname | String | Flowchart1 | Enter a VB expression |
| Create Variable | | | |

Step 4: Drag and Drop “Input Dialog” for taking input of “First Name”. Drag and Drop “Input Dialog” for taking input of “Last Name”:

Input Dialog

Dialog Title: {06_FirstName}

Input Label: {Enter first name:}

Input Type: Text Box

Value entered: Fname

Input Dialog

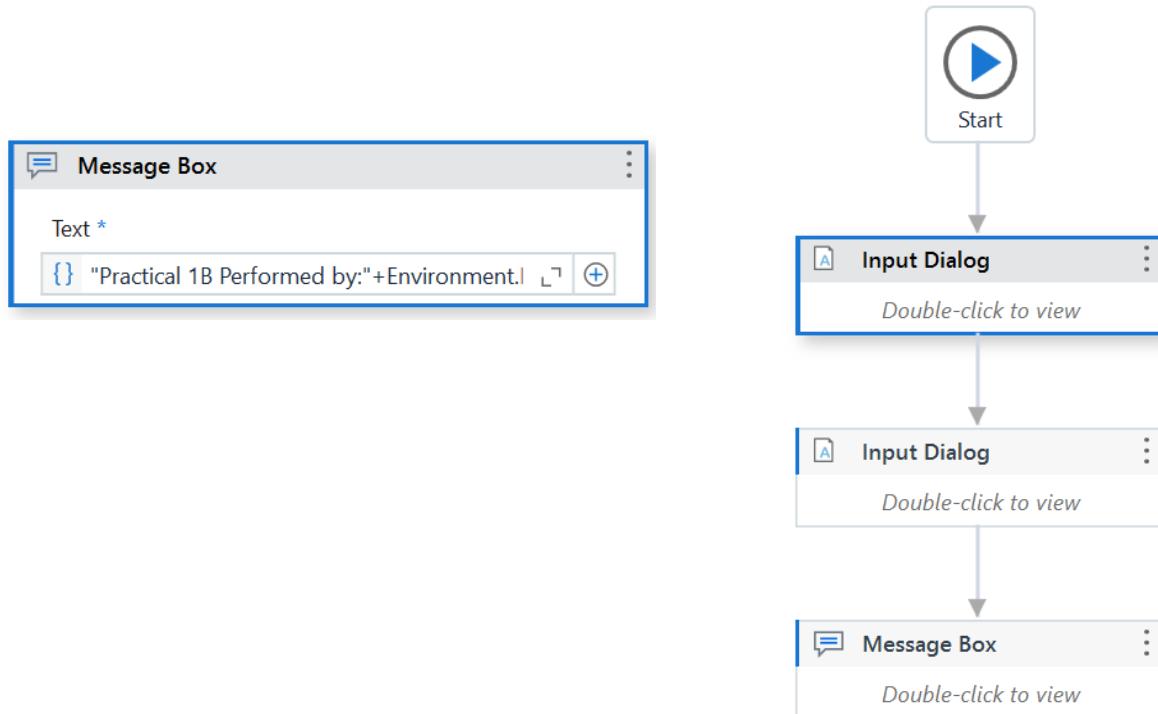
Dialog Title: {06_LastName}

Input Label: {Enter last name:}

Input Type: Text Box

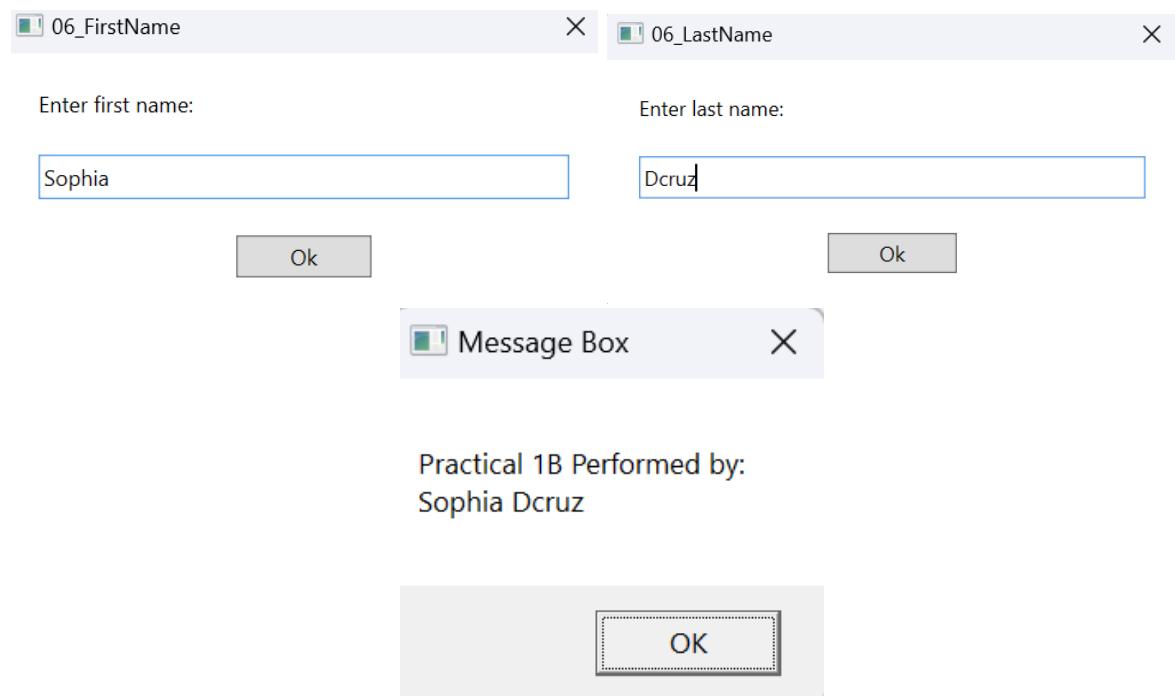
Value entered: Lname

Step 5: Drag and Drop “Message Box” for displaying the values stored in ‘Fname’ and ‘Lname’
"Practical 1B Performed by:"+Environment.NewLine+Fname+ " " + Lname



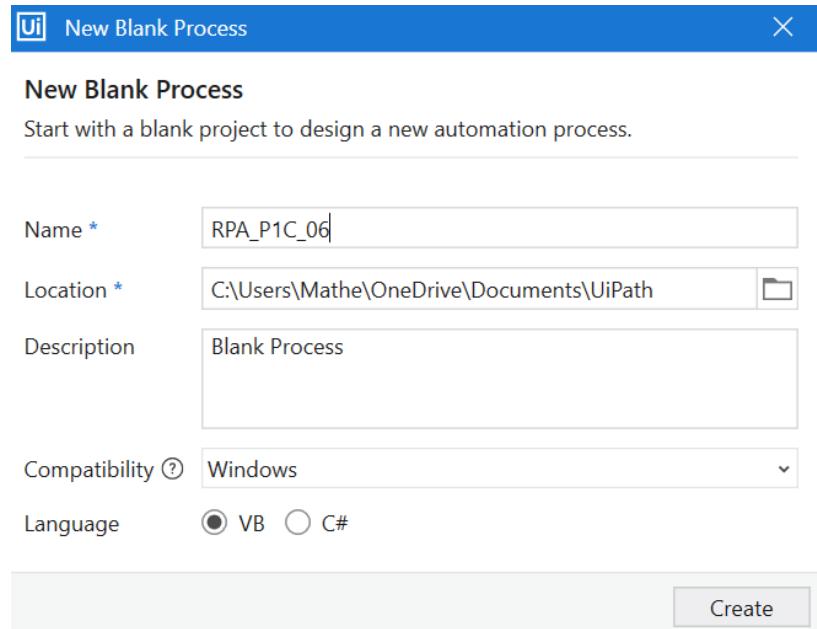
Step 6: Open UiPath on the “Ribbon” look for “Debug File” option. Click on it and your project will start running.

OUTPUT:



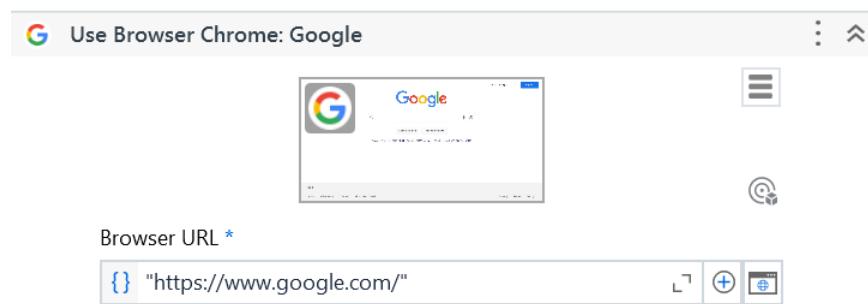
C] AIM: Use Web Recorder to empty trash in Gmail.

Step 1: Open UiPath Studio and create a new blank project.

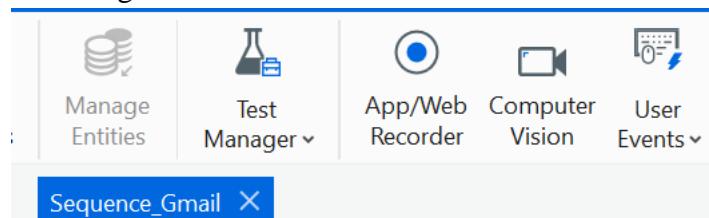


Step 2: Install the extension for UIPath on your browser and turn it on.

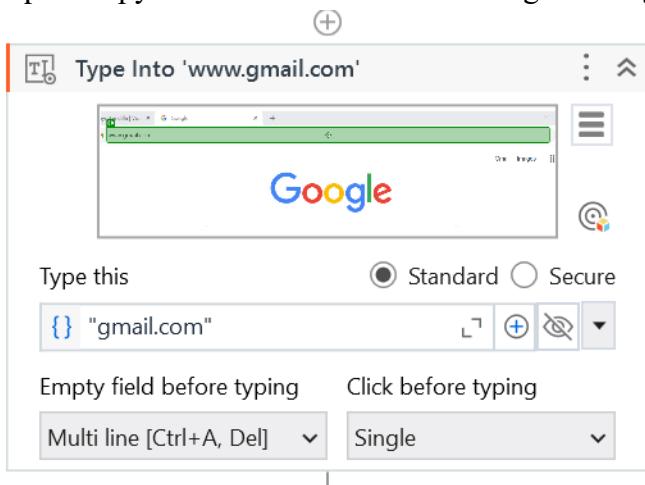
Step 3: Open UIPath Studio. Drag and drop the Open Application/Browser activity and indicate your browser window.



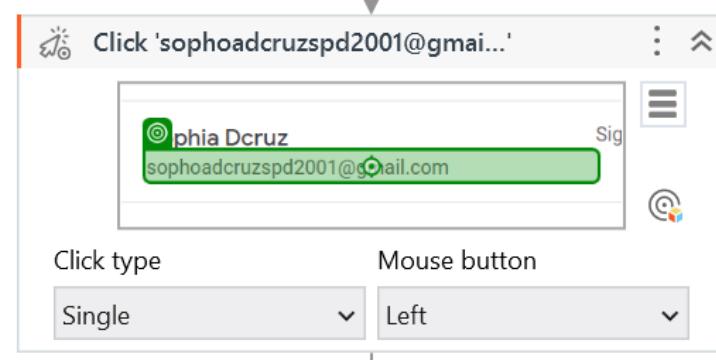
Step 4: In the Do part of the activity click on “App/Web Recorder” on the top ribbon and start recording



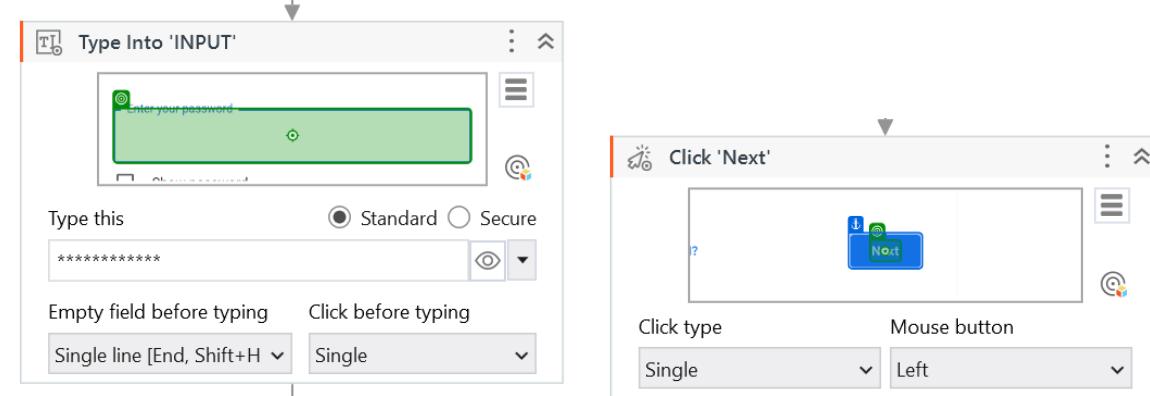
Step 5: Copy Paste the “Url” of “Gmail Sign in” Page in the search bar.



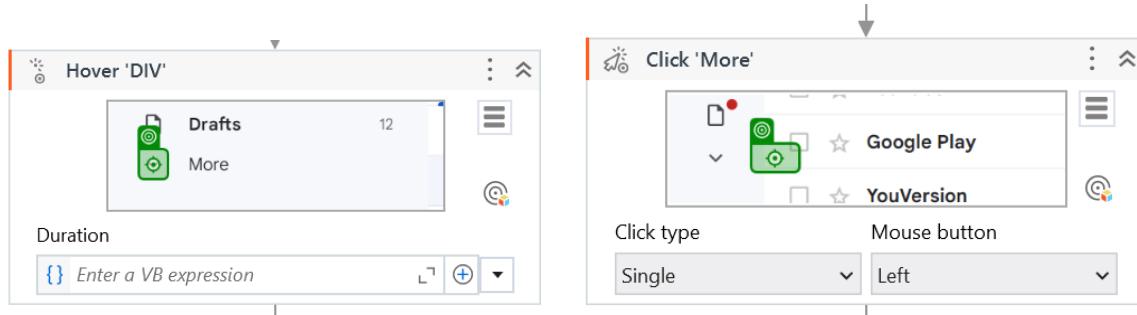
Step 6: Gmail Sign in Page will open, Enter Email or Phone. Click on Next



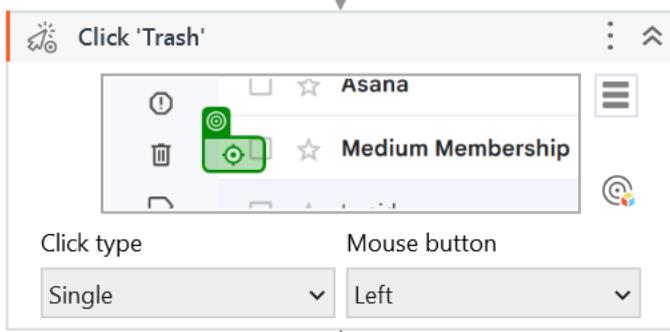
Step 7: Select “Type Password” and Enter Password. Click on Next



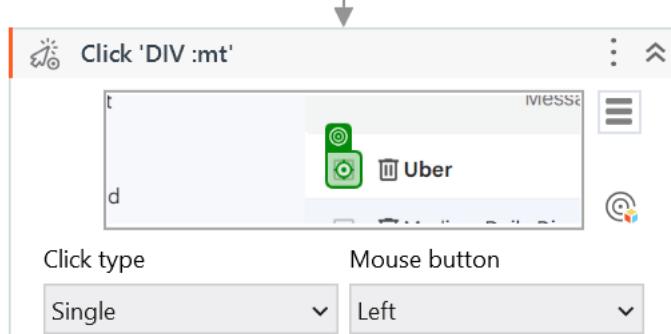
Step 8: Gmail Inbox will open. Now hover over the down arrow and click on “More”



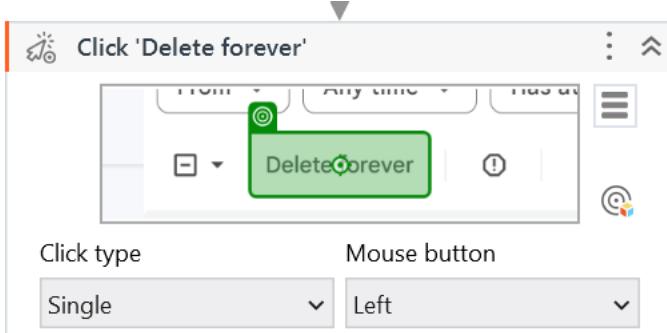
Step 9: Now click on “Trash”



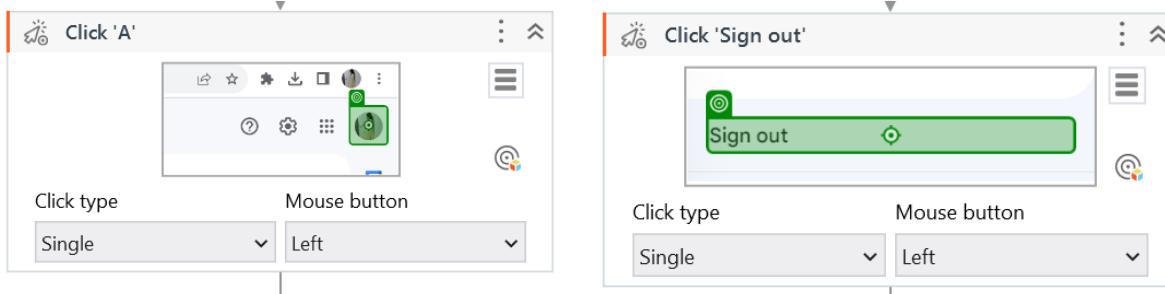
Step 10: Select the check box.



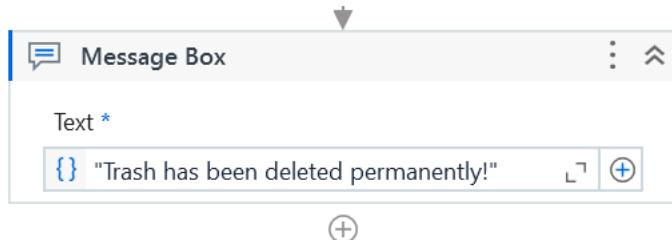
Step 11: Click on “Delete Forever”



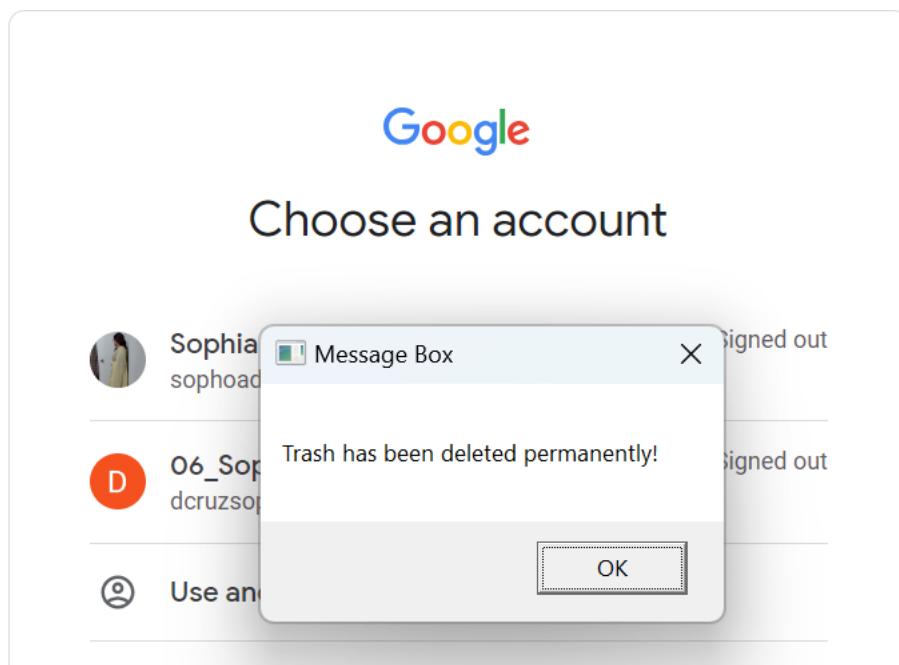
Step 12: Sign Out and stop recording.



Step 13: Add **Message Box** activity for confirmation.



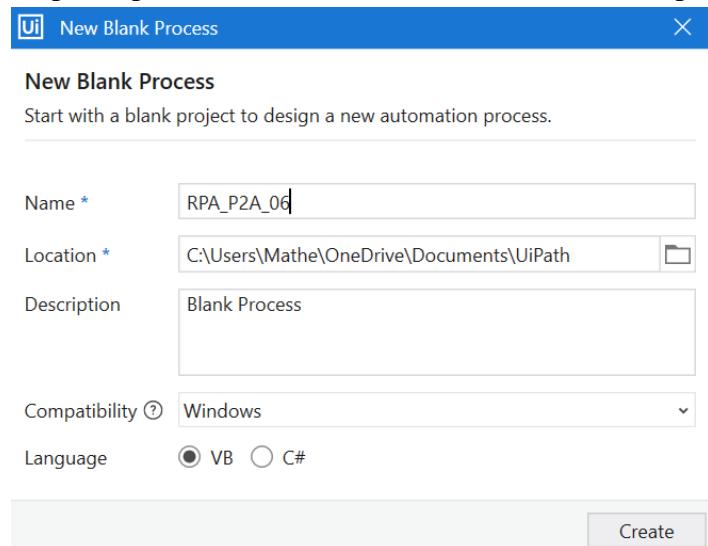
OUTPUT:



PRACTICAL 2

A] AIM: Use two Input dialogs for Numbers and do following calculations and show in Message Box

Step 1: Open UiPath Studio and create a new blank project.



Step 2: Create three variables, two for input which will be of the type integer and for the output a string variable

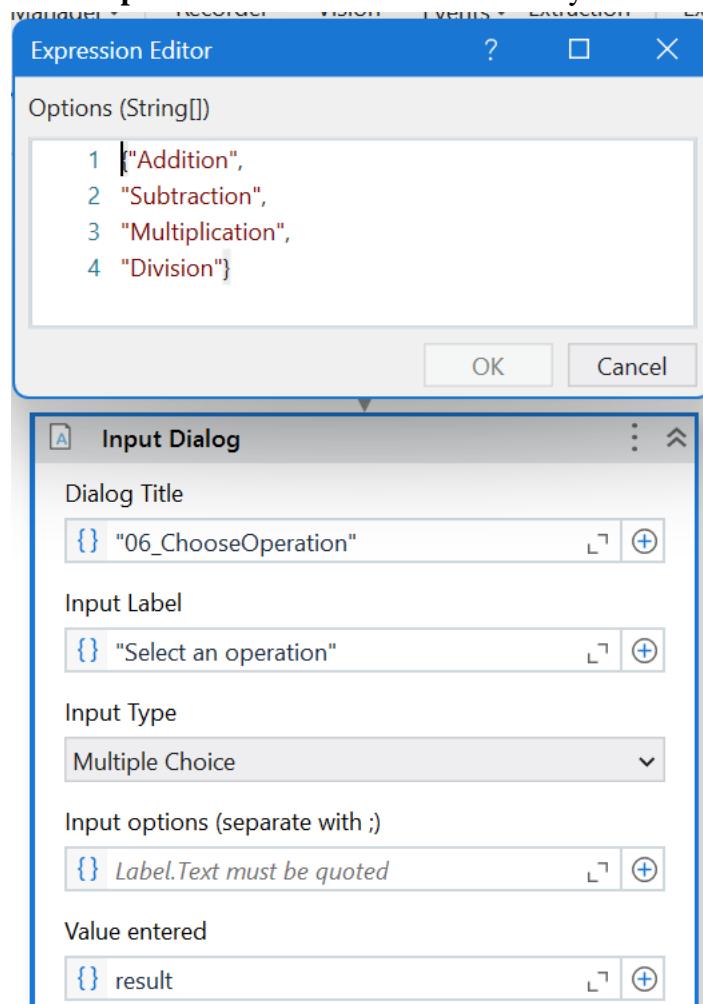
| Name | Variable type | Scope | Default |
|--------|---------------|---------------|-----------------------|
| fnum | Int32 | Main Sequence | Enter a VB expression |
| snum | Int32 | Main Sequence | Enter a VB expression |
| result | String | Main Sequence | Enter a VB expression |

Create Variable

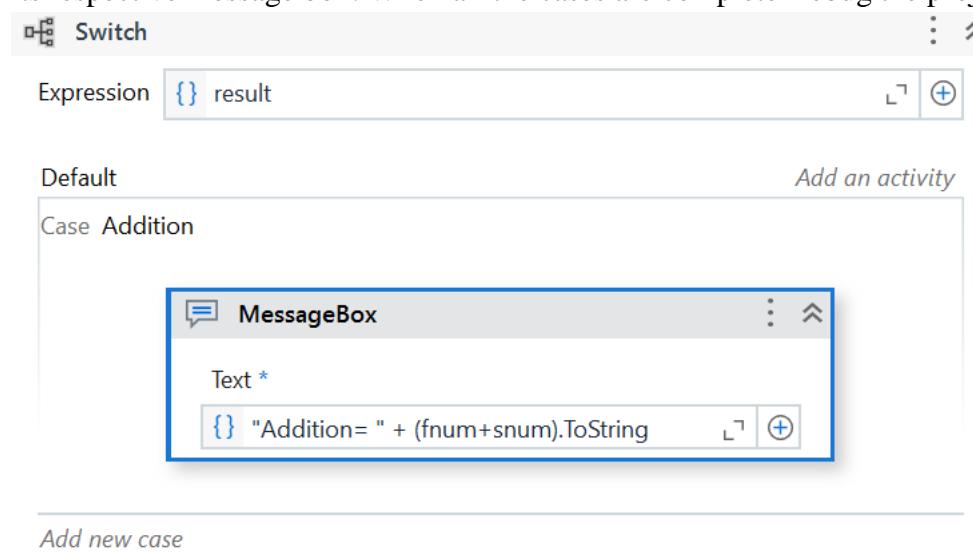
Variables Arguments Imports

Step 3: Drag and drop the "Input Dialog" activity twice from the "Activities" panel on the left-hand side. Double-click on the activity and set the properties:

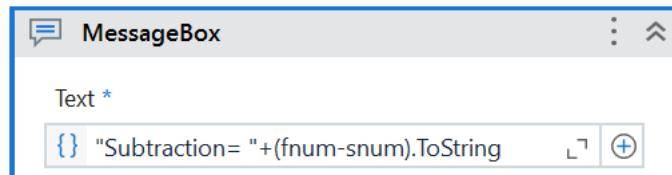
Step 4: Drag and drop the "Input Dialog" activity once again and this type set the Input Type to **Multiple Choice** and add in the necessary values.



Step 5: Drag and drop the **Switch** activity and fill in the details as below. For every case add its respective message box. When all the cases are complete Debug the project.

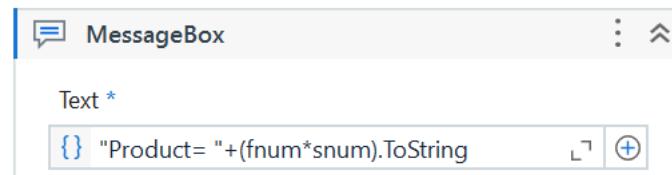


Case Subtraction



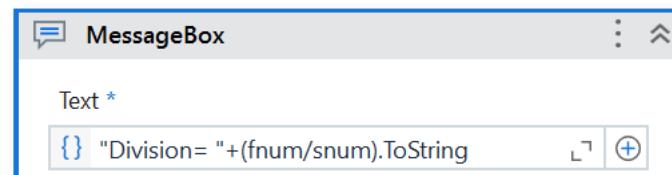
Add new case

Case Multiplication



Add new case

Case Divison



Add new case

OUTPUT:

06_First Number X

Enter first number

2

Ok

06_SecondNumber X

Enter second number

4

Ok

06_ChooseOperation X

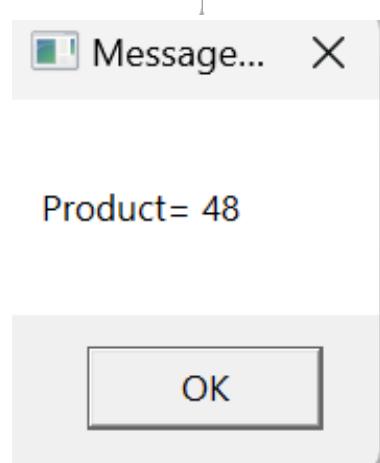
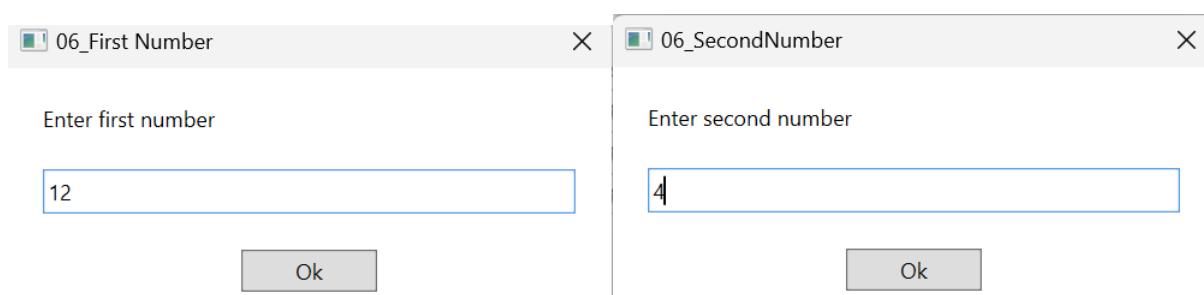
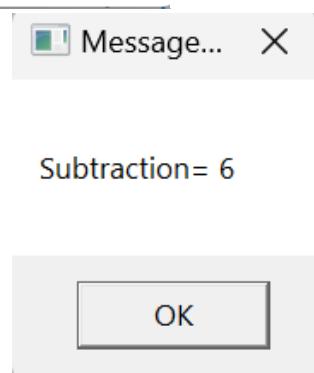
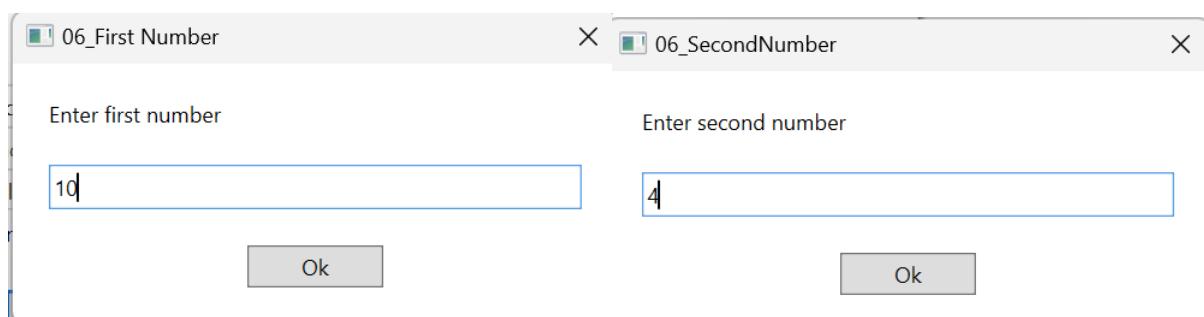
Select an operation

- Addition
- Subtraction
- Multiplication
- Division

Message... X

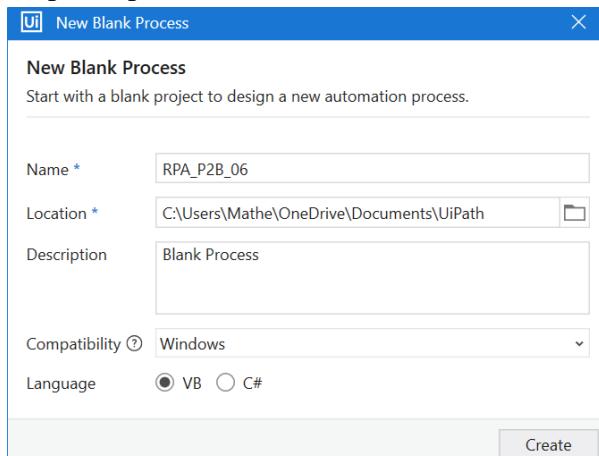
Addition= 6

OK



B] AIM: Create Different type of variable (number, datetime, Boolean, generic, array, data table) and provide default value and show in Message Box.

Step 1: Open UiPath Studio and create a new blank project.



Step 2: Create different variables, each for different data types and assign them some default values as below

| Name | Variable type | Scope | Default |
|---------------|---------------|---------------|-----------------------------|
| dt_var | DateTime | Main Sequence | now |
| bool_var | Boolean | Main Sequence | True |
| generic_var | GenericValue | Main Sequence | "Sophia" |
| array_var | String[] | Main Sequence | {"Sophia","Omkar","Amulya"} |
| datatable_var | System.Data.D | Main Sequence | Enter a VB expression |

Create Variable

Variables Arguments Imports

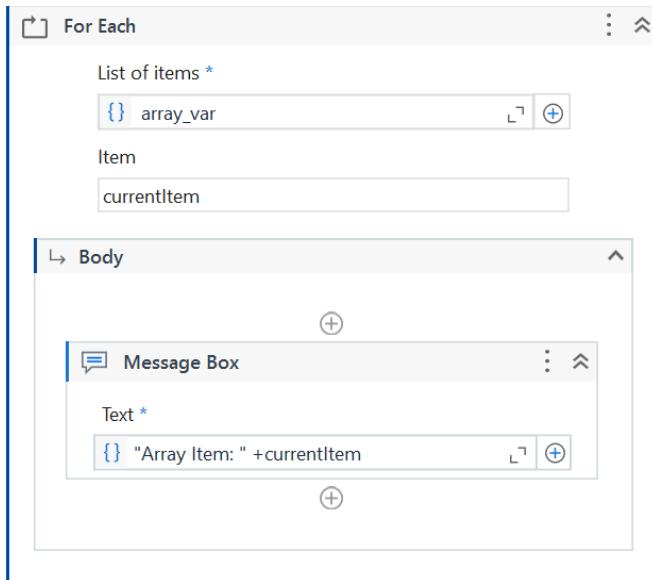
Step 3: Now to display the values add a **Message Box** activity and add in text as below

```

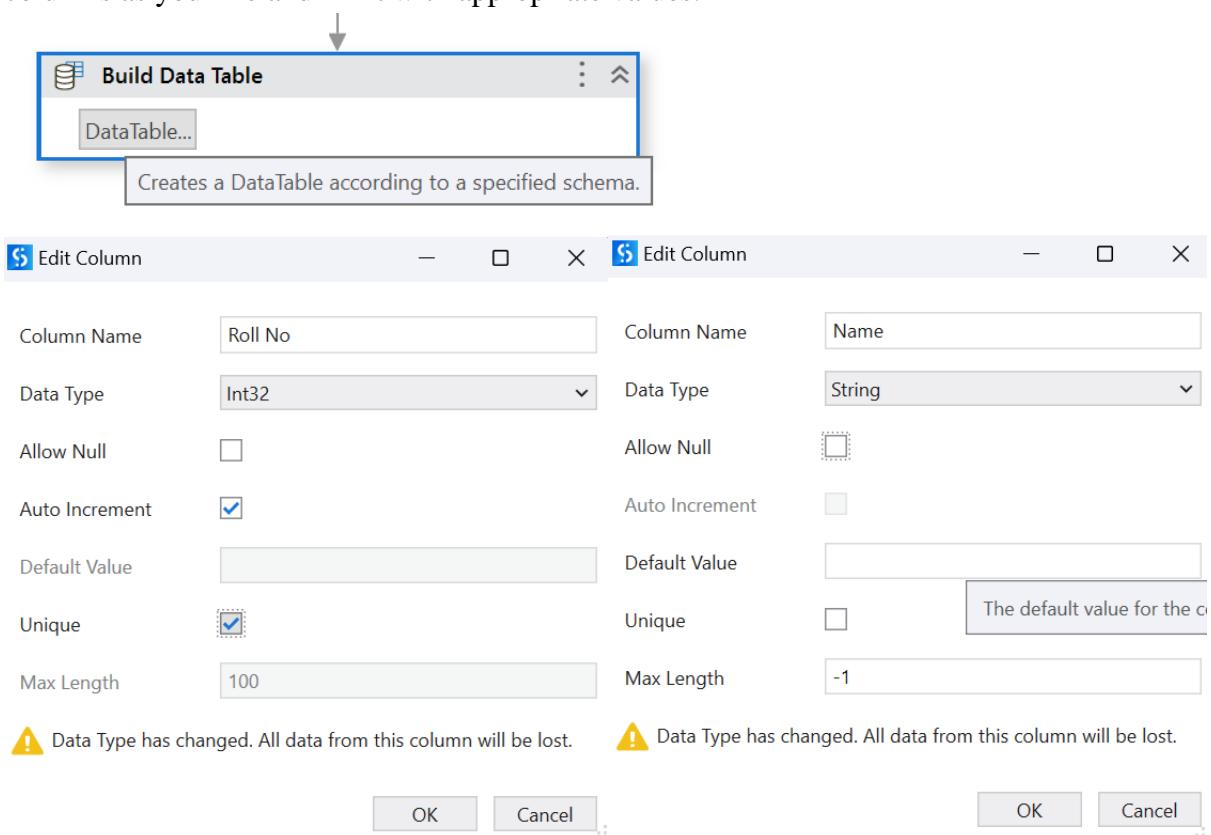
Content (Object)
1 "Numeric Value: " +num_var.ToString+Environment.NewLine+
2 "Date Time Value: " +dt_var.ToString+Environment.NewLine+
3 "Boolean Value: " +bool_var.ToString+Environment.NewLine+
4 "Generic Value: " +generic_var.ToString+Environment.NewLine+

```

Step 4: To display the value of array data type firstly drag and drop a **For Each** activity and fill in the details and add a **Message Box** activity to display the result.



Step 5: To display data table variable, add a **Build Table** Activity. Edit it and add as many columns as you like and fill it with appropriate values.



Build Data Table

| | Roll No (Int32) | Name (String) |
|-----|--------------------|------------------|
| x 1 | | Sophia Dcruz |
| x 2 | | Alan Varghese |
| x 3 | | Likith S |
| x 4 | | Anugraph T |

OK Cancel

Step 6: Now assign the data table variable to its **Output** property.

UiPath.Core.Activities.BuildDataTable

- Common**
 - DisplayName Build Data Table
- Misc**
 - Private
- Output**
 - Data Table datatable_var ...

Step 7: Now to display the data table values we require the **Output Data Table** activity. Add it and add the data table name and to its property create a variable which will be used to display the values of the data table as string.

Output Data Table

Data Table * { } datatable_var ...

Properties

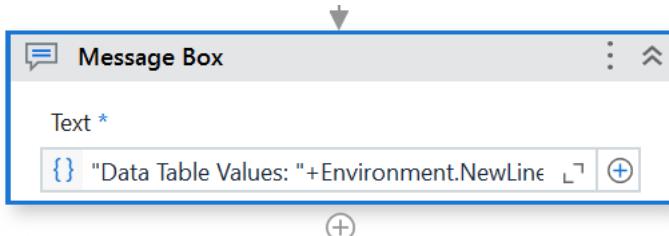
UiPath.Core.Activities.OutputDataTable

- Common**
 - DisplayName Output Data Table
- Input**
 - Data Table datatable_var ...
- Misc**
 - Private
- Output**
 - Text Set Var: datatable_text

Step 8: Now to display the value use a **Message Box** activity type in the following lines:

"Data Table Values: "+Environment.NewLine+datatable_text

Once done Debug the project.



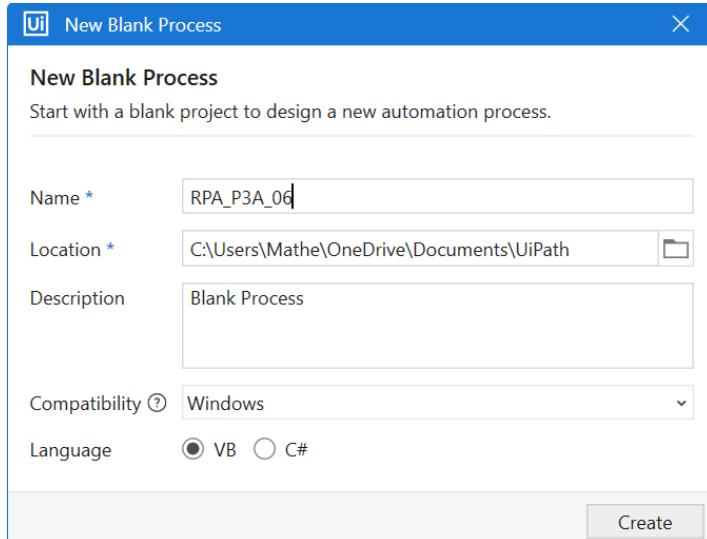
OUTPUT:



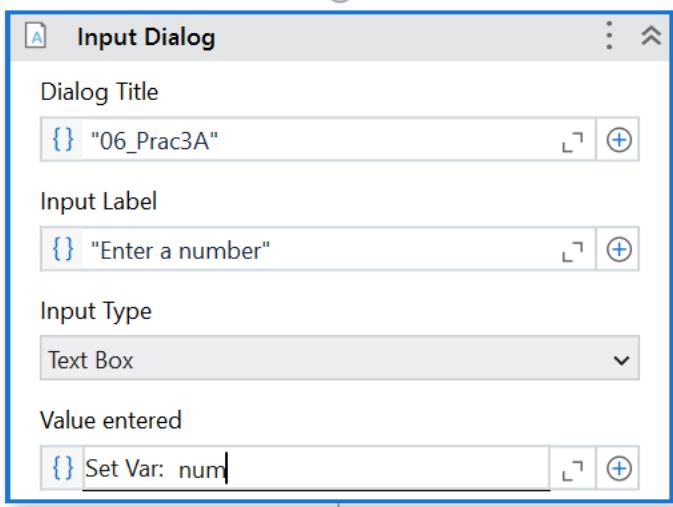
PRACTICAL 3

A] AIM: Create an automation UiPath Project using decision statements.

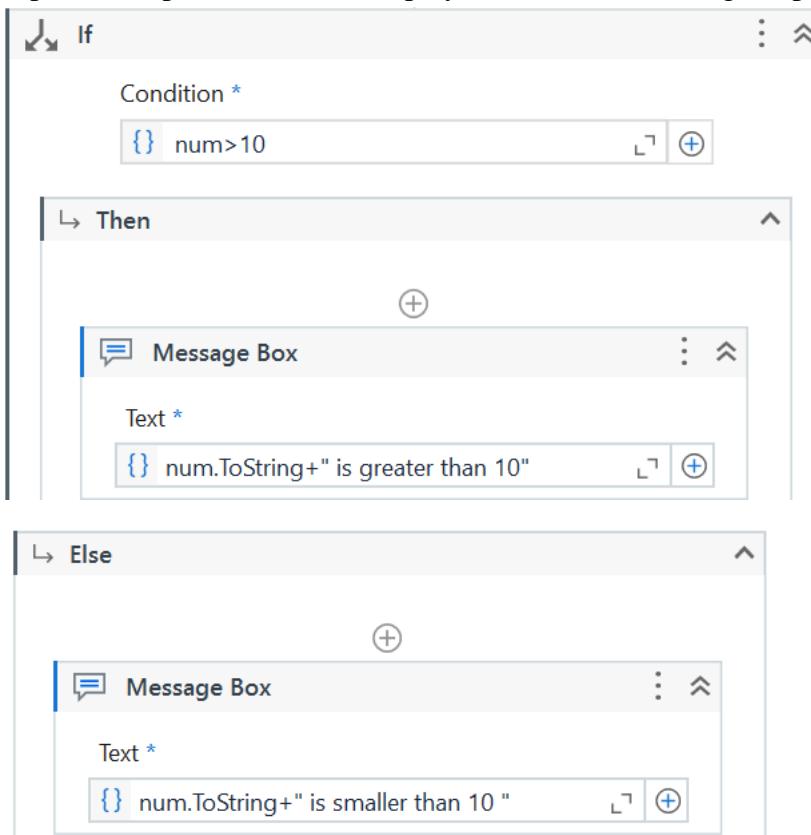
Step 1: Open UiPath Studio and create a new blank project.



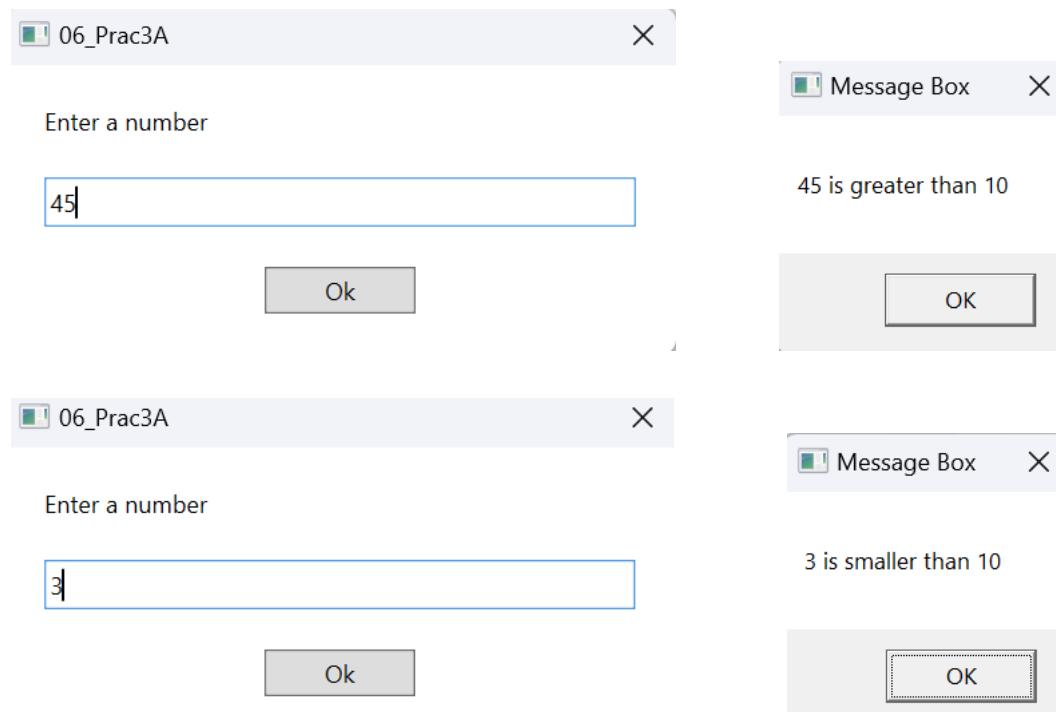
Step 2: Add an **Input Dialog** Activity and fill the details as below:



Step 3: Now for the first decision statement i.e. **If-Else** drag and drop **If** activity and give it appropriate condition. Here the number we get from the user is being checked whether it is greater or smaller than 10 and to display the result a **Message Box** activity is added with the expected output that is to be displayed. Once done Debug the project.

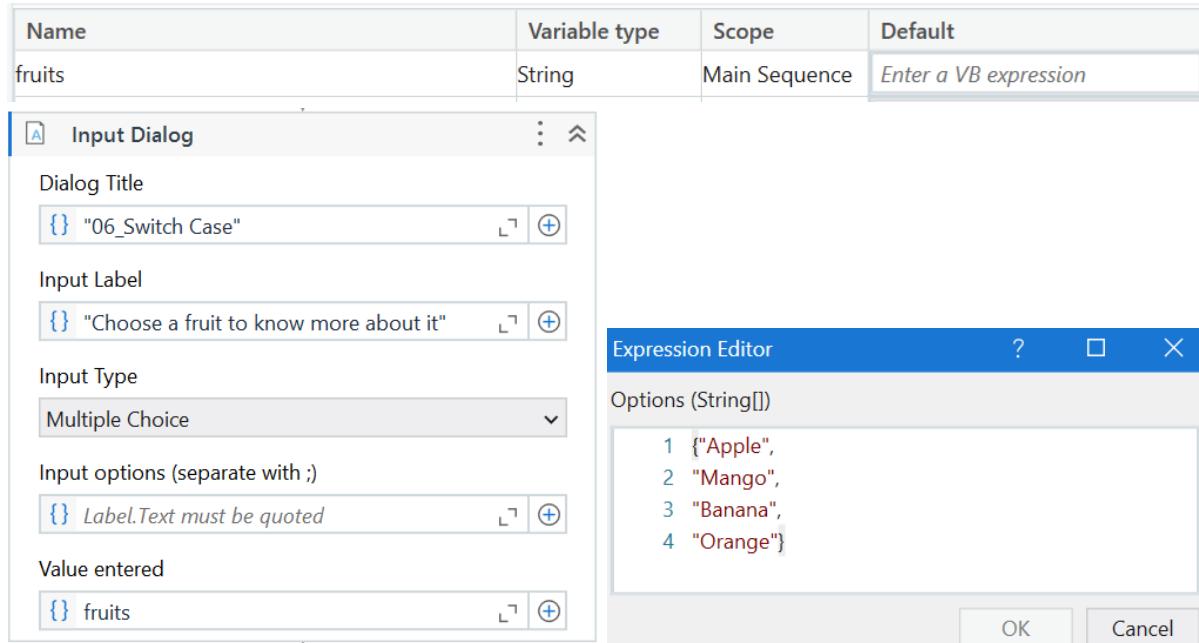


OUTPUT:

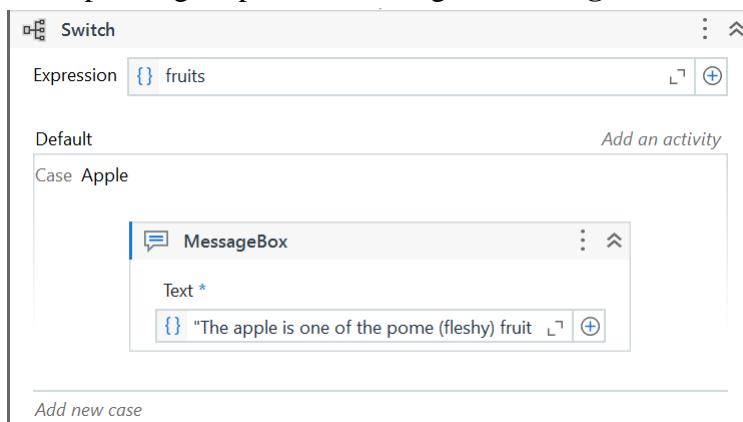


SWITCH CASE:

Step 4: Now for the **Switch case** decision statement firstly create a variable to store the case values and then drag and drop the **Input Dialog** activity bto accept input/option from user. Fill in the details as below

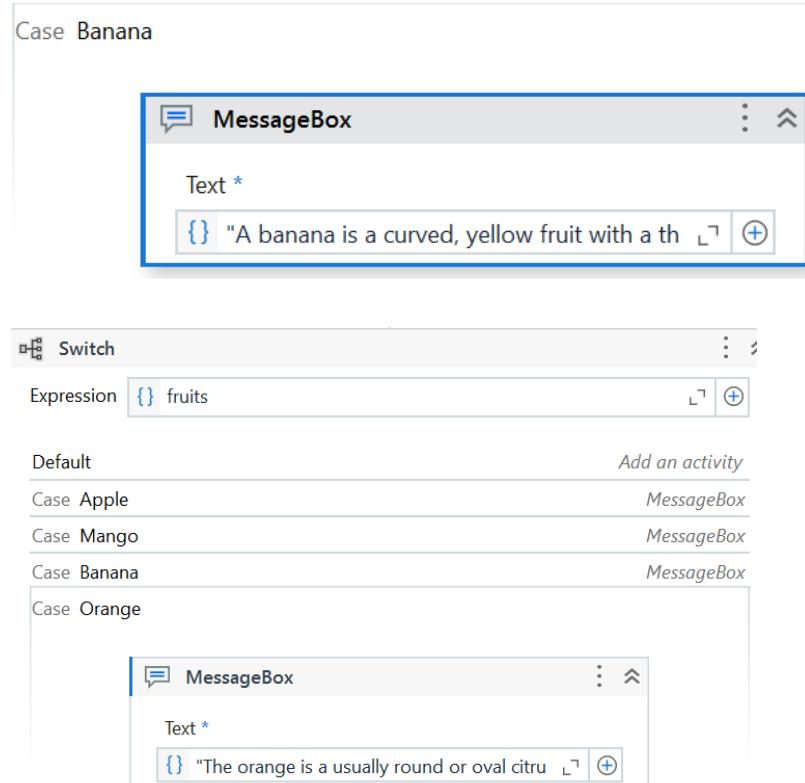
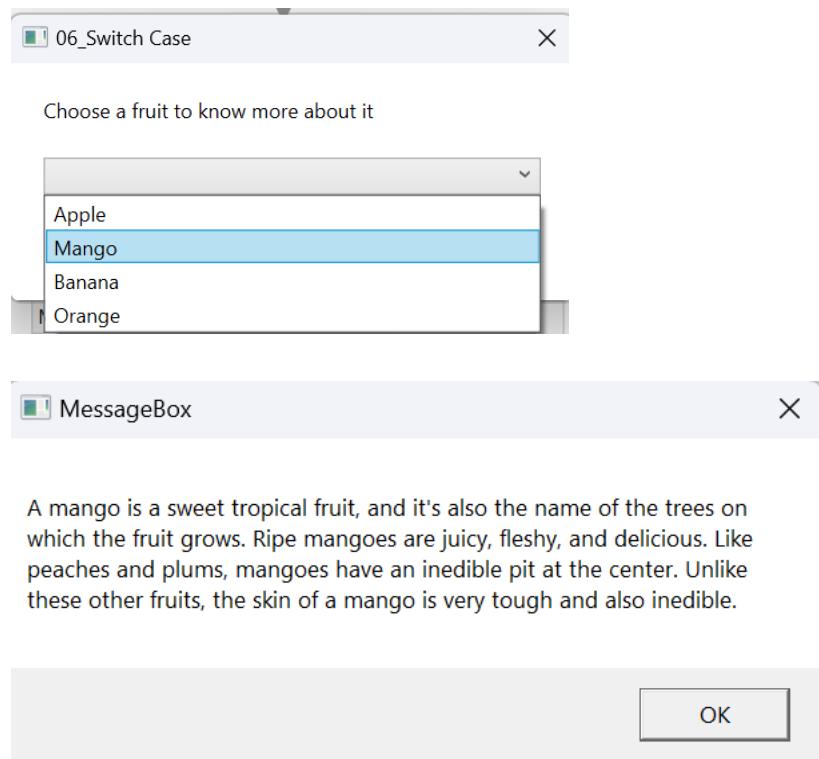


Step 5: Now drag and drop the **Switch** activity and type in the individual case with its corresponding output values using the **Message Box** activity. Debug the project.



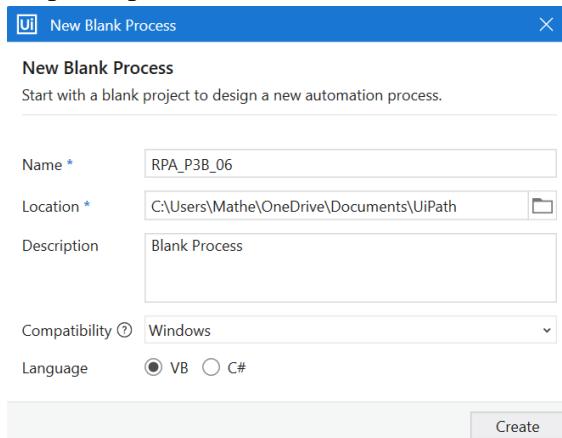
Case Mango



**OUTPUT:**

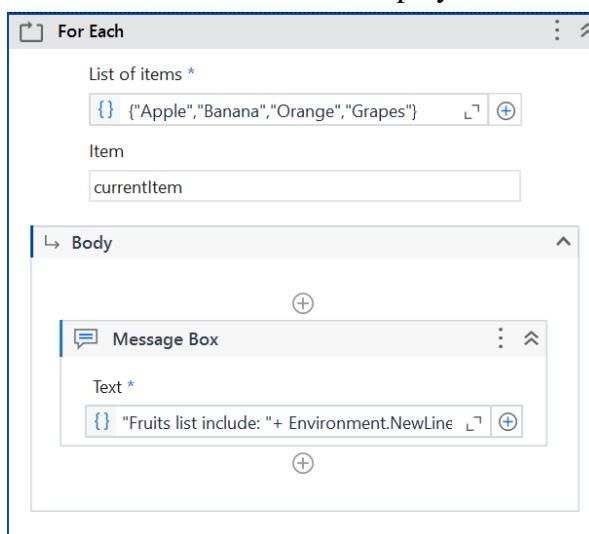
B] AIM: Create an automation UiPath Project using looping statements

Step 1: Open UiPath Studio and create a new blank project.

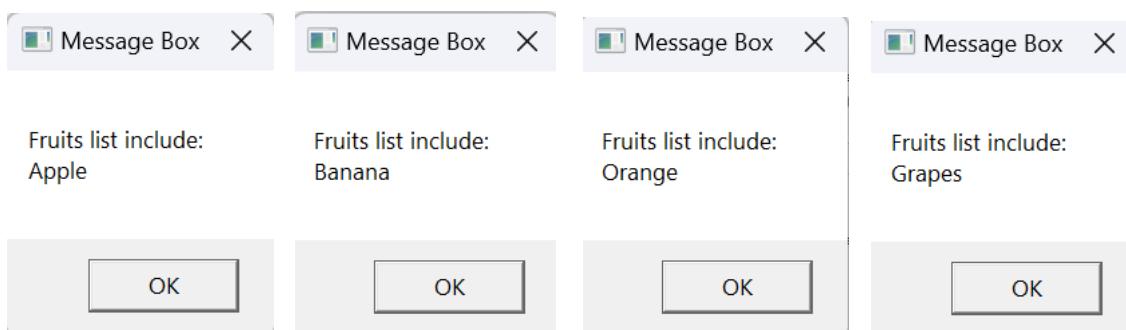


FOR EACH:

Step 2: To execute the for each looping statement drag and drop the **For Each** activity. Fill it with a list of items. Now to display these items use a **Message Box** activity. Debug the project.

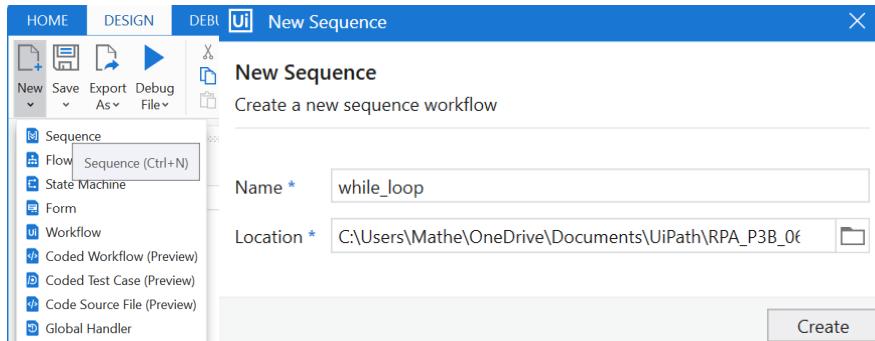


OUTPUT:

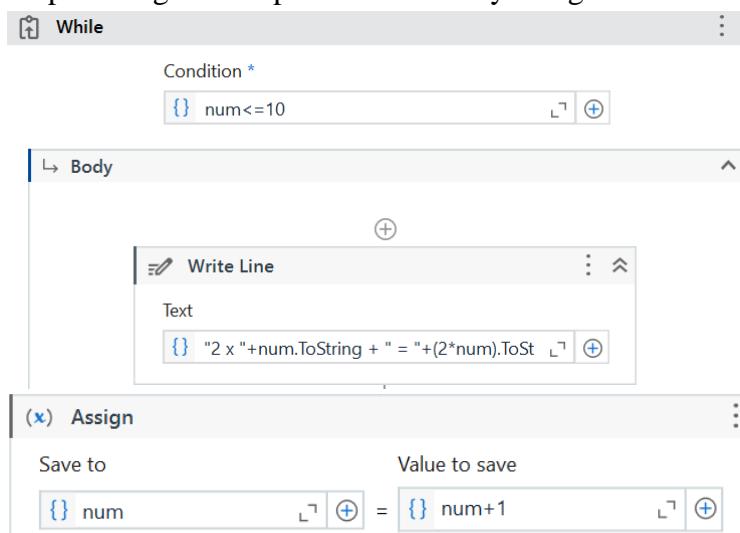


WHILE:

Step 1: To execute the while loop. Create a new **Sequence** and give it an appropriate name.

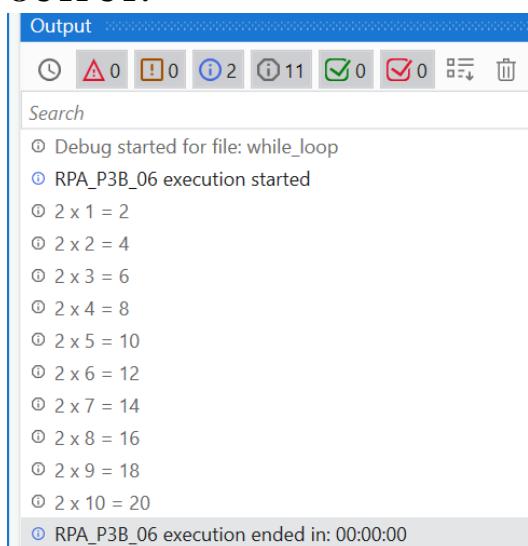


Step 2: Drag and drop a **While** activity and give it the necessary condition.



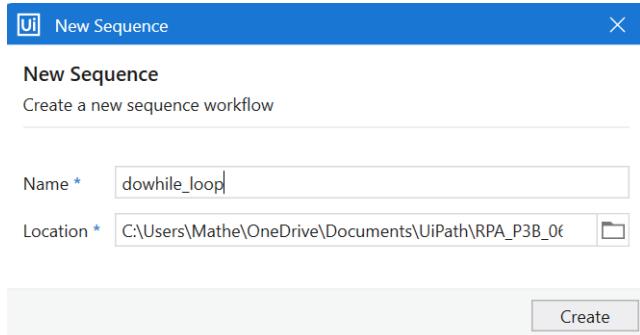
Here I have simply printed the table of 2 and used the **Assign** activity to increment the value after each iteration until the condition turns false

Step 3: Save the sequence and Debug the project.

OUTPUT:

DO WHILE LOOP:

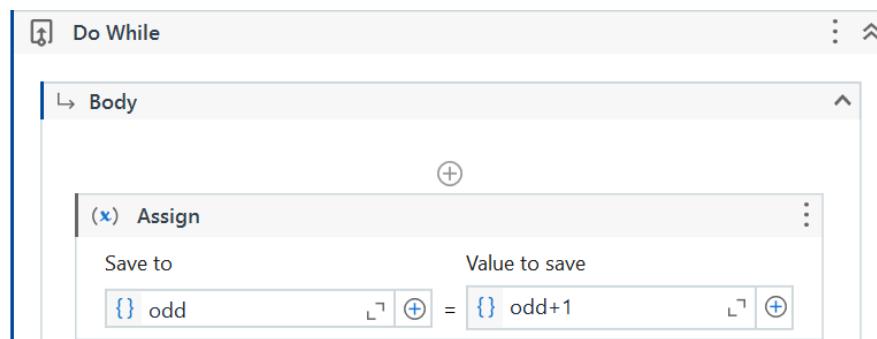
Step 1: To execute the do while loop. Create a new **Sequence** and give it an appropriate name.

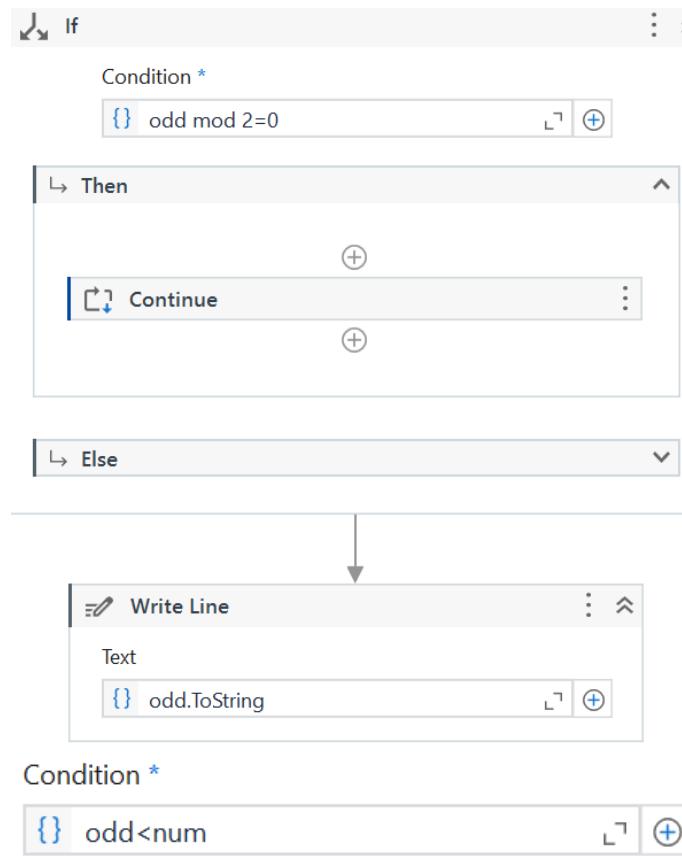


Step 2: Create an integer variable. Add an **Input Dialog** activity to accept a limit from the user.

Step 3: Drag and drop the **Do While** activity and give it the condition you desire.

Here I am just accepting a limit from the user and displaying all the odd numbers up to that limit.





Step 4: Once done save and debug your project.

OUTPUT:

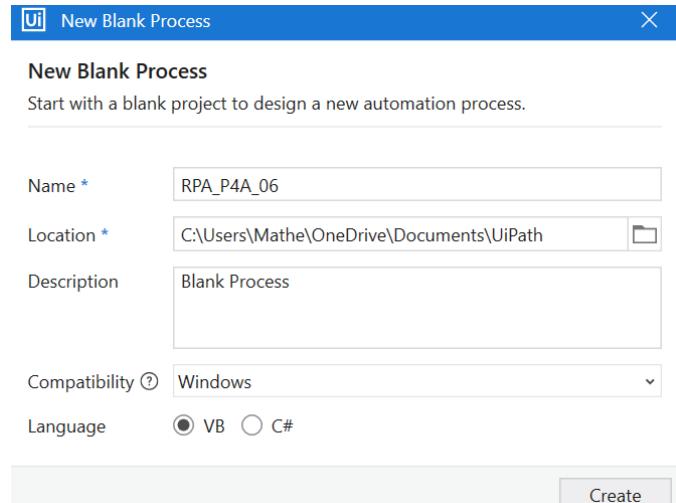
The output window displays the following log events:

- ① Debug started for file: dowhile_loop
- ① RPA_P3B_06 execution started
- ① These are odd numbers less than 20
- ① 3
- ① 5 Log event: 3
- ① 7
- ① 9
- ① 11
- ① 13
- ① 15
- ① 17
- ① 19
- ① RPA_P3B_06 execution ended in: 00:00:03

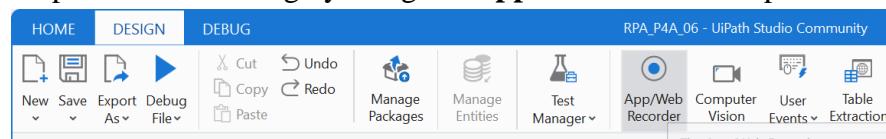
PRACTICAL 4

A] AIM: Automate any process using basic recording (Existing Notepad).

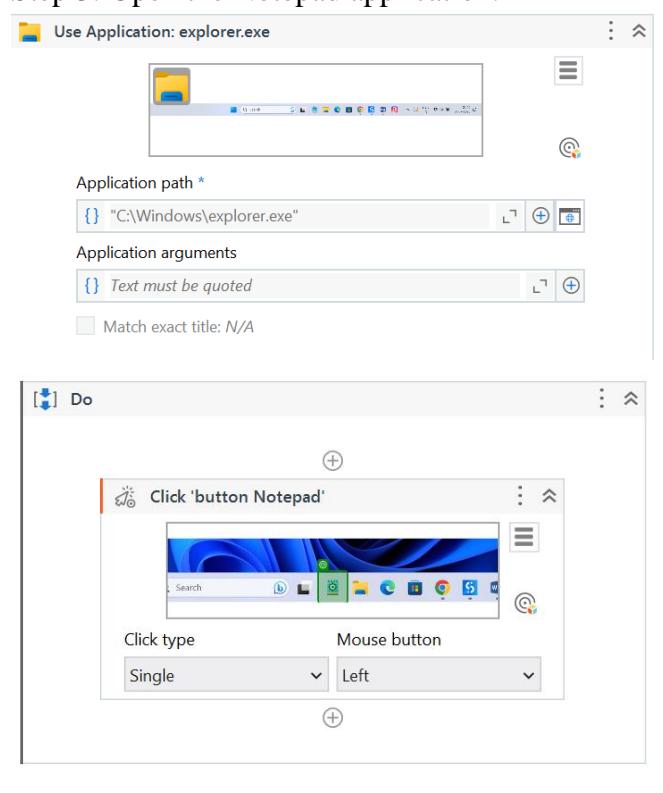
Step 1: Open UiPath Studio and create a new blank project.

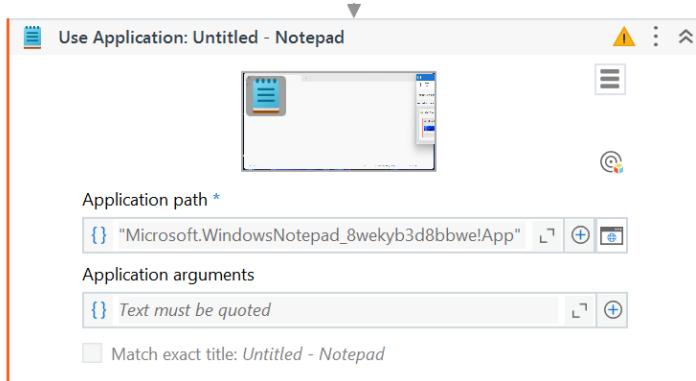


Step 2: Start recording by using the App/Web Recorder option on the ribbon.



Step 3: Open the Notepad application.



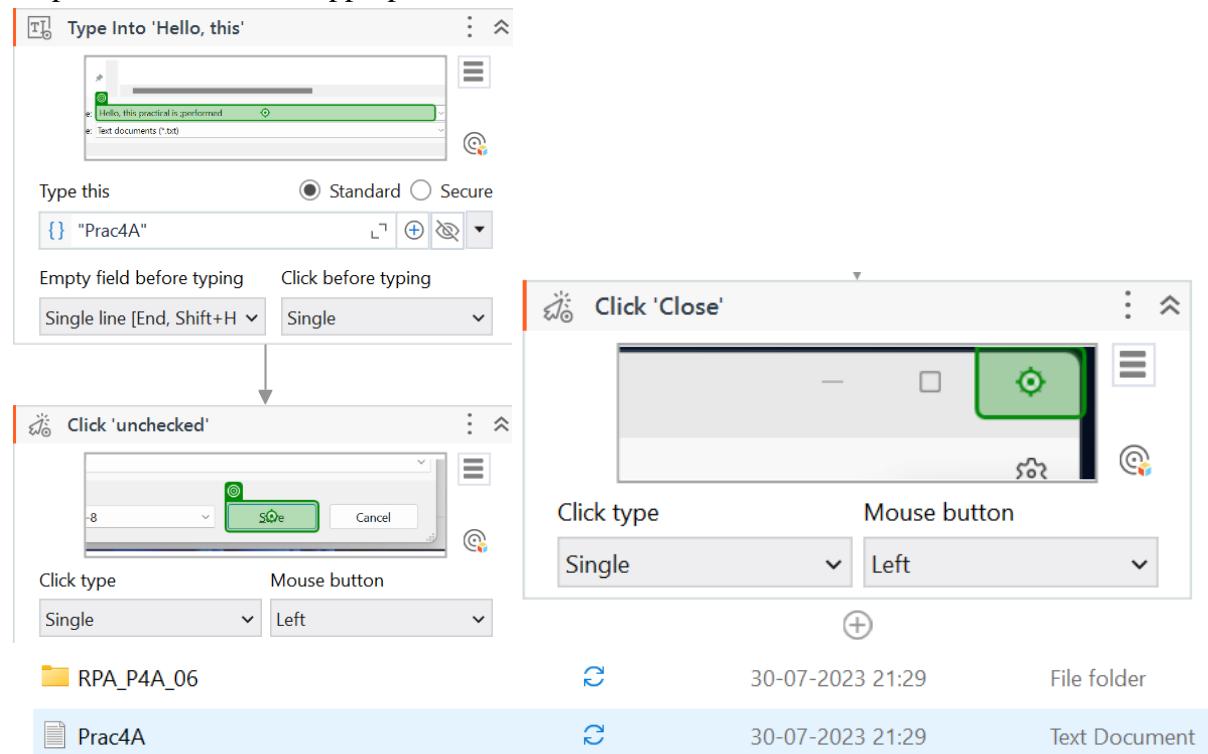


Step 4: Once notepad opens type in the content you desire

Step 5: Click on **Ctrl + S** to save the file.

Step 6: Now browse to the desired location where you wish to save the file.

Step 7: Give the file an appropriate name. Click on Save and Close. Your file will be created.



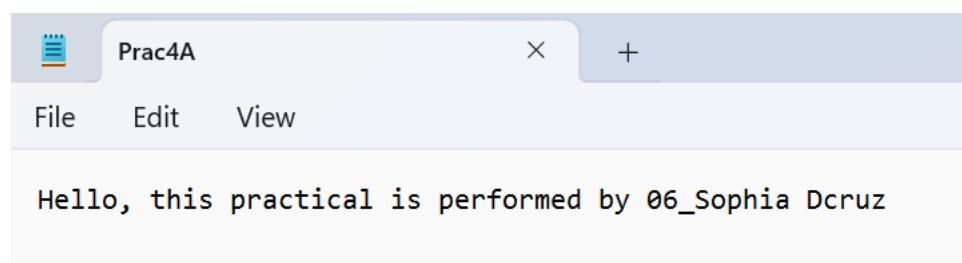
Step 8: Now stop the recording and save it. Also go to the location where you saved your file and delete the file that you just created.



Step 9: Now save and debug the project and a new notepad file with the same name and content in the exact same location will be created.

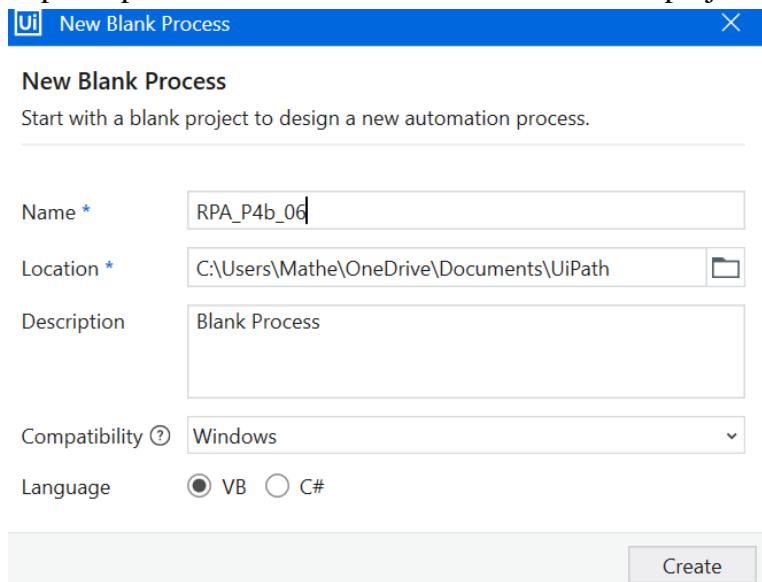
OUTPUT:

| | | |
|--------------|------------------|---------------|
| 📁 RPA_P4A_06 | 30-07-2023 21:29 | File folder |
| 📄 Prac4A | 30-07-2023 21:31 | Text Document |

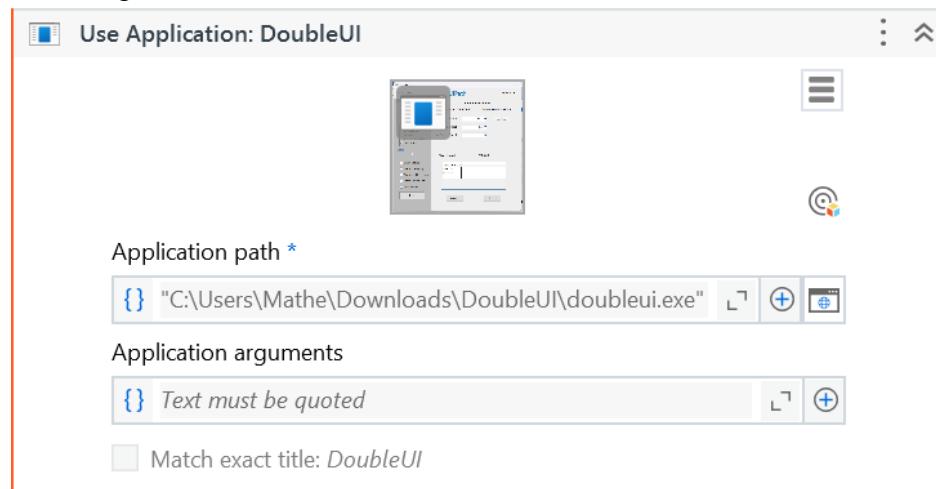


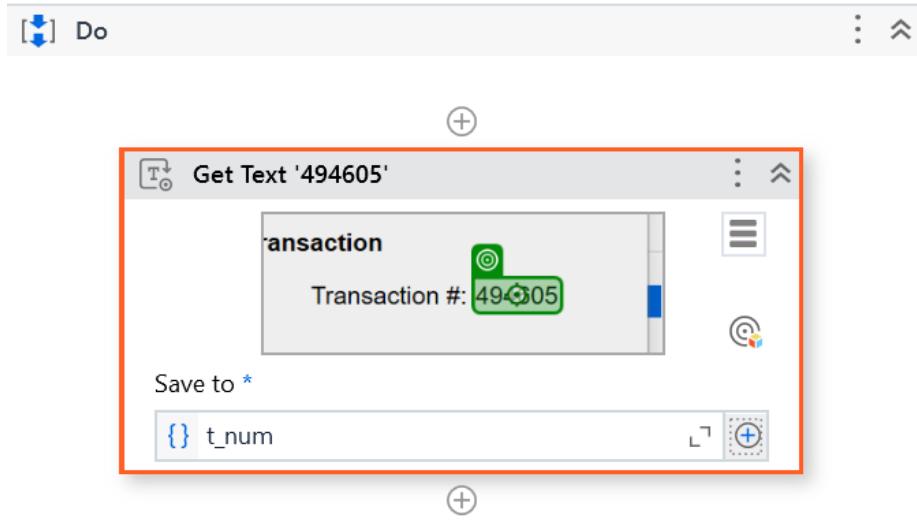
B] AIM: Automate any process using desktop recording.

Step 1: Open UiPath Studio and create a new blank project.

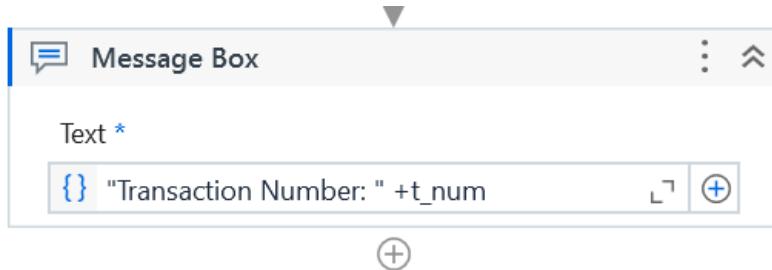


Step2: Click on App/Web Recorder and start recording. Open the DoubleUI application. Click on Transaction Number and click on Get Text. Save it to a variable. Stop and Save your recording.

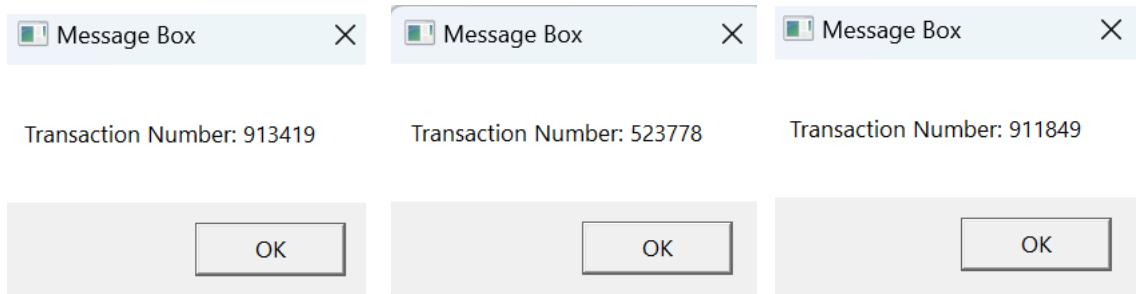




Step 3: Now add a message box to display the transaction number. Save and debug your process.



OUTPUT:



C] AIM: Automate any process using Web Recording.

Step 1: Open UiPath Studio and create a new blank project.

New Blank Process

Start with a blank project to design a new automation process.

Name * RPA_P4C_06

Location * C:\Users\Mathe\OneDrive\Documents\UiPath

Description Blank Process

Compatibility ? Windows

Language VB C#

Create

Step 2: Drag a Sequence activity. Select web recording under the recording option.

New Sequence

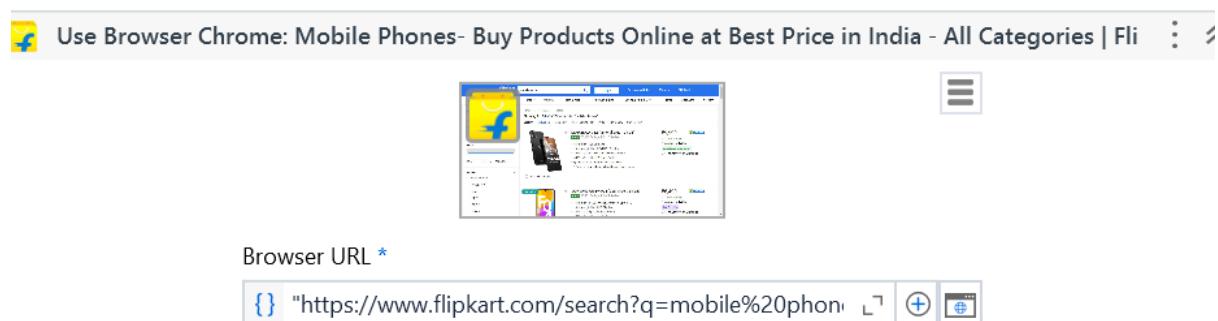
Create a new sequence workflow

Name * Web Recording

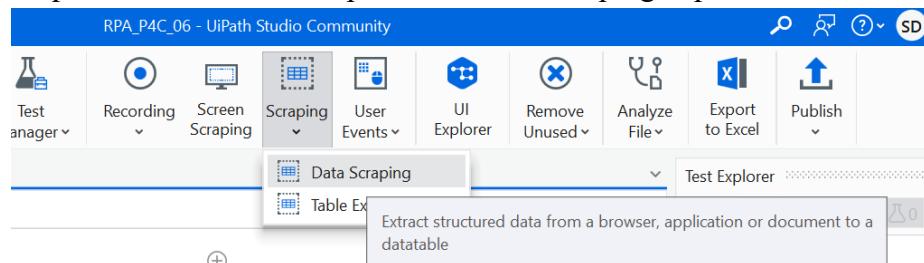
Location * C:\Users\Mathe\OneDrive\Documents\UiPath\RPA_P4C_06

Create

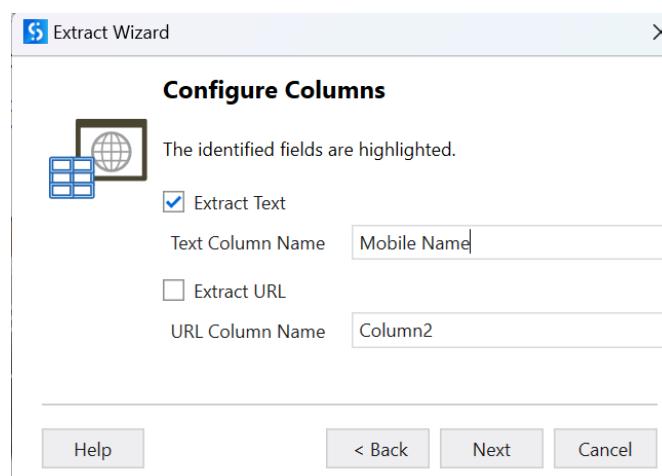
Step 3: Open a Chrome window and Add an “Use Application/Browser” activity and Indicate the browser window i.e. Flipkart in our case.



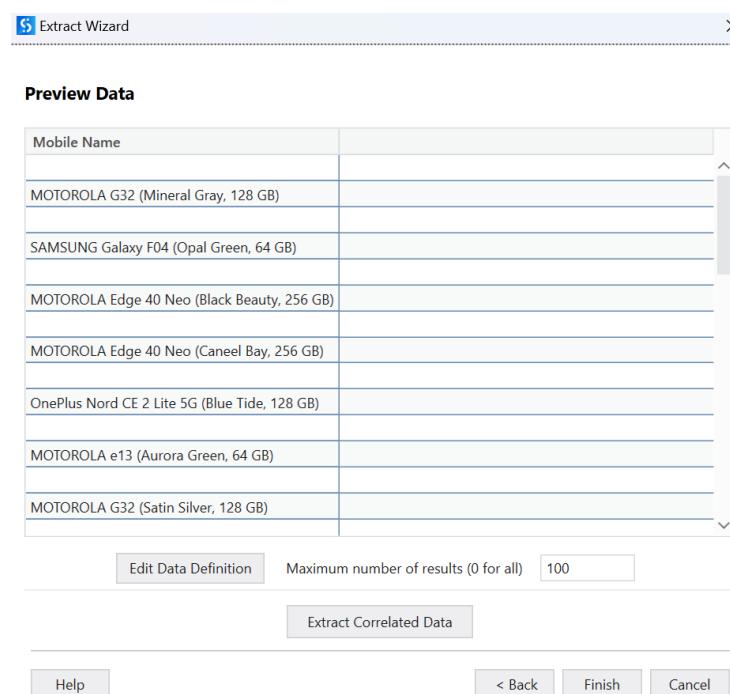
Step 4: In the ribbon on top click on the “Scraping” option. And click on Data Scraping

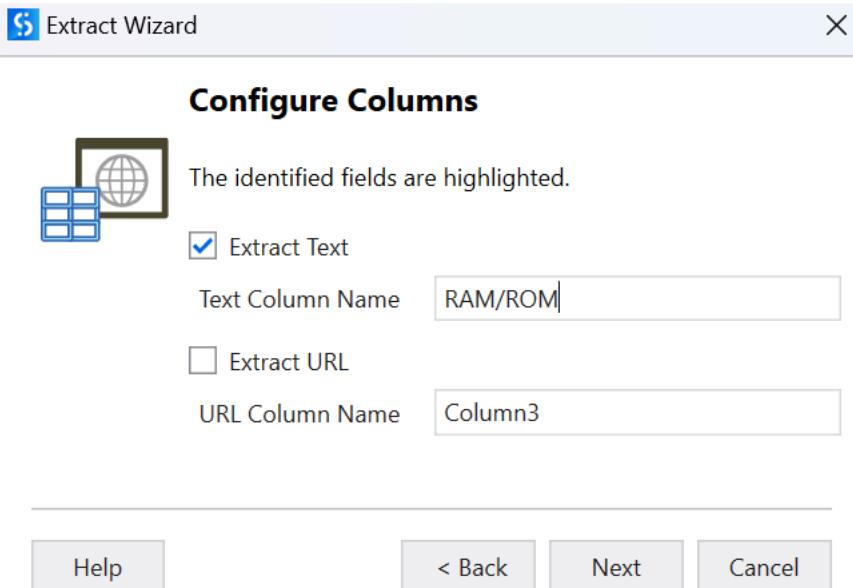


Step 5: Now click on the titles you wish to scrape, in my case I have added the Mobile Name as my first column.



Step 6: Once done a preview appears, if you wish to add more related data click on Add Correlated Data and repeat Step 5. Once you’ve scraped all the data you can click on Finish. You’ll be asked if your data spans across multiple pages choose the desired option and your scraping will be done.

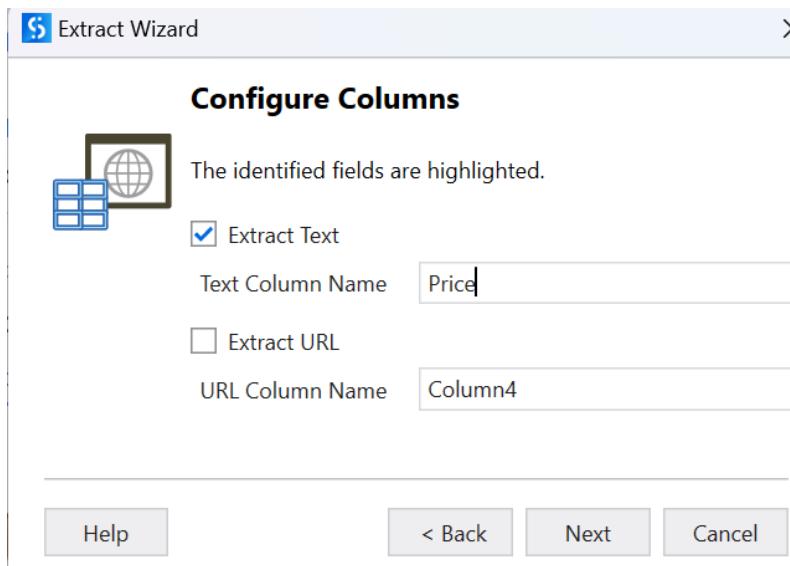




The dialog box title is "Extract Wizard" and the section title is "Preview Data". It displays a table of mobile phone specifications:

| Mobile Name | RAM/ROM |
|---|---|
| MOTOROLA G32 (Mineral Gray, 128 GB) | 8 GB RAM 128 GB ROM |
| SAMSUNG Galaxy F04 (Opal Green, 64 GB) | 4 GB RAM 64 GB ROM Expandable Upto 1 TB |
| MOTOROLA Edge 40 Neo (Black Beauty, 256 GB) | |
| MOTOROLA Edge 40 Neo (Caneel Bay, 256 GB) | |
| OnePlus Nord CE 2 Lite 5G (Blue Tide, 128 GB) | 6 GB RAM 128 GB ROM |
| MOTOROLA e13 (Aurora Green, 64 GB) | 4 GB RAM 64 GB ROM Expandable Upto 1 TB |
| MOTOROLA G32 (Satin Silver, 128 GB) | 8 GB RAM 128 GB ROM |

At the bottom, there are buttons for "Edit Data Definition", "Maximum number of results (0 for all)" (set to 100), "Extract Correlated Data", "Help", "< Back", "Finish", and "Cancel".



| Mobile Name | RAM/ROM | Price |
|---|---|---------|
| MOTOROLA G32 (Mineral Gray, 128 GB) | 8 GB RAM 128 GB ROM | ₹9,999 |
| SAMSUNG Galaxy F04 (Opal Green, 64 GB) | 4 GB RAM 64 GB ROM Expandable Upto 1 TB | ₹6,499 |
| MOTOROLA Edge 40 Neo (Black Beauty, 256 GB) | | ₹22,999 |
| MOTOROLA Edge 40 Neo (Caneel Bay, 256 GB) | | ₹22,999 |
| OnePlus Nord CE 2 Lite 5G (Blue Tide, 128 GB) | 6 GB RAM 128 GB ROM | ₹17,106 |
| MOTOROLA e13 (Aurora Green, 64 GB) | 4 GB RAM 64 GB ROM Expandable Upto 1 TB | ₹6,499 |
| MOTOROLA G32 (Satin Silver, 128 GB) | 8 GB RAM 128 GB ROM | ₹9,999 |

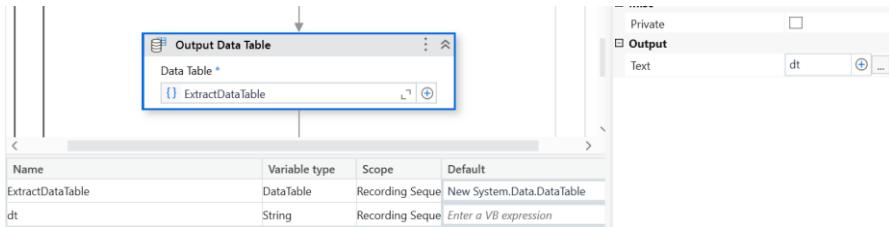
Edit Data Definition Maximum number of results (0 for all) 100

Extract Correlated Data

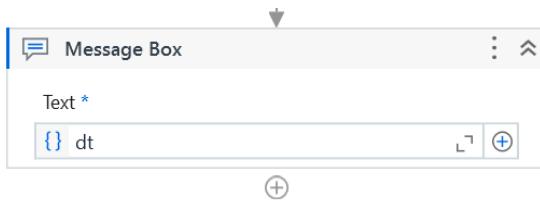
Help < Back Finish Cancel



Step 7: Add an “Output DataTable” activity and from the previous step you’ll have a datatable variable created, give it to the Output Data Table prompt and set an output text variable.



Step 8: Add a “Message Box” activity and display the scraped data using the String variable created in the previous step.



Step 9: Save and Debug

OUTPUT:

```

Message Box
X

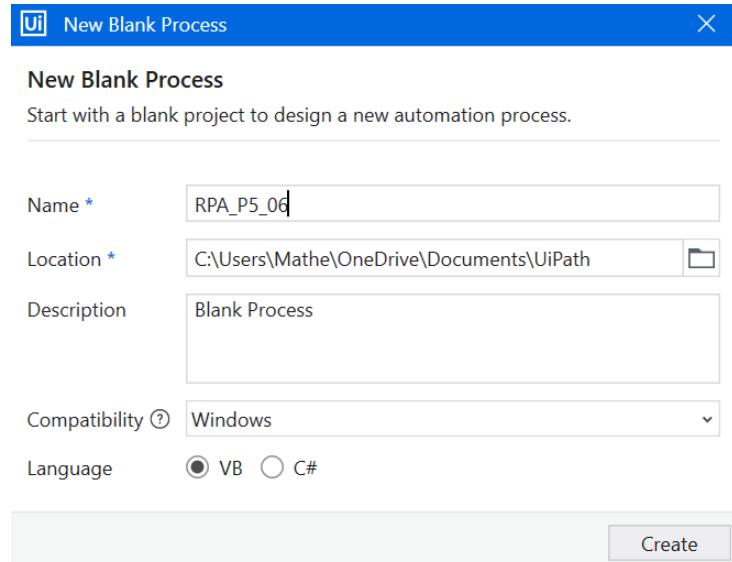
Mobile Name, RAM/ROM, Price
" "MOTOROLA G32 (Mineral Gray, 128 GB)", 8 GB RAM | 128 GB ROM, "₹9,999"
" "SAMSUNG Galaxy F04 (Opal Green, 64 GB)", 4 GB RAM | 64 GB ROM | Expandable Upto 1 TB, "₹6,499"
" "MOTOROLA Edge 40 Neo (Black Beauty, 256 GB)", "₹22,999"
" "MOTOROLA Edge 40 Neo (Caneel Bay, 256 GB)", "₹22,999"
" OnePlus Nord CE 2 Lite 5G (Blue Tide, 128 GB)", 6 GB RAM | 128 GB ROM, "₹17,106"
" "MOTOROLA e13 (Aurora Green, 64 GB)", 4 GB RAM | 64 GB ROM | Expandable Upto 1 TB, "₹6,499"
" "MOTOROLA G32 (Satin Silver, 128 GB)", 8 GB RAM | 128 GB ROM, "₹9,999"
" Infinix SMART 7 (Azure Blue, 64 GB)", 4 GB RAM | 64 GB ROM | Expandable Upto 2 TB, "₹6,699"
" Infinix SMART 7 (Emerald Green, 64 GB)", 4 GB RAM | 64 GB ROM | Expandable Upto 2 TB, "₹6,699"
" "MOTOROLA Edge 40 Neo (Soothing Sea, 256 GB)", "₹22,999"
" Infinix SMART 7 (Night Black, 64 GB)", 4 GB RAM | 64 GB ROM | Expandable Upto 2 TB, "₹6,699"
" Infinix SMART 7 (Azure Blue, 128 GB)", 4 GB RAM | 128 GB ROM | Expandable Upto 512 GB, "₹6,799"
" "SAMSUNG Galaxy F13 (Waterfall Blue, 64 GB)", 4 GB RAM | 64 GB ROM | Expandable Upto 1 TB, "₹9,199"
" "MOTOROLA Edge 40 Neo (Caneel Bay, 128 GB)", "₹20,999"
" "SAMSUNG Galaxy F04 (Jade Purple, 64 GB)", 4 GB RAM | 64 GB ROM | Expandable Upto 1 TB, "₹6,499"
" OnePlus Nord CE 3 Lite 5G (Chromatic Gray, 256 GB)", 8 GB RAM | 256 GB ROM, "₹21,993"
" OnePlus Nord CE 2 Lite 5G (Black Dusk, 128 GB)", 6 GB RAM | 128 GB ROM, "₹16,893"
" "MOTOROLA e13 (Aurora Green, 128 GB)", 8 GB RAM | 128 GB ROM | Expandable Upto 1 TB, "₹7,499"
" OnePlus Nord CE 3 Lite 5G (Chromatic Gray, 128 GB)", 8 GB RAM | 128 GB ROM, "₹19,999"
" vivo T2x 5G (Glimmer Black, 128 GB)", 8 GB RAM | 128 GB ROM, "₹15,999"
" vivo T2x 5G (Aurora Gold, 128 GB)", 8 GB RAM | 128 GB ROM, "₹15,999"

```

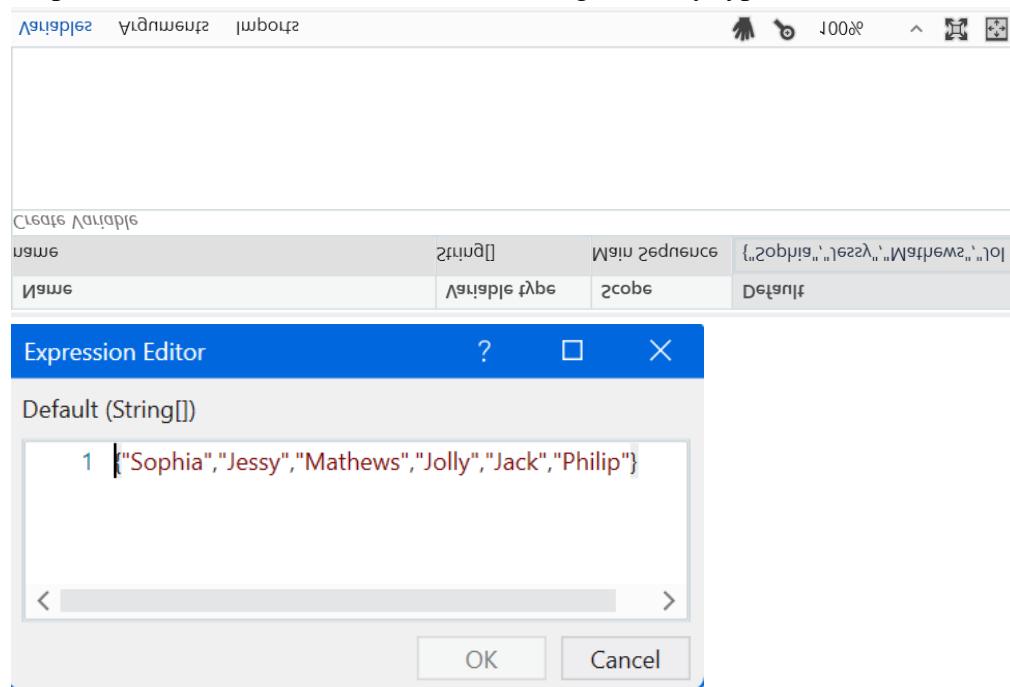
PRACTICAL 5

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

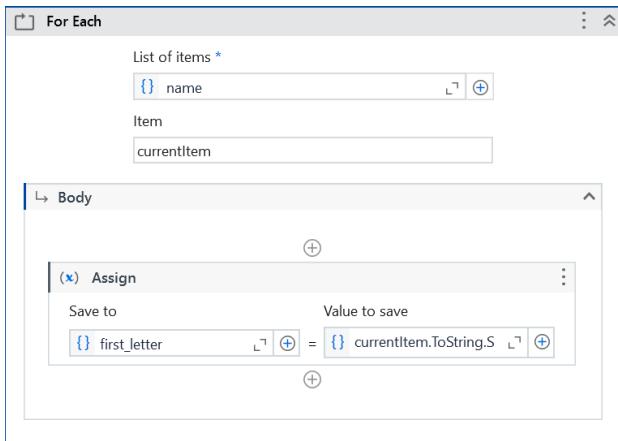
Step 1: Open UiPath Studio and create a new blank project.



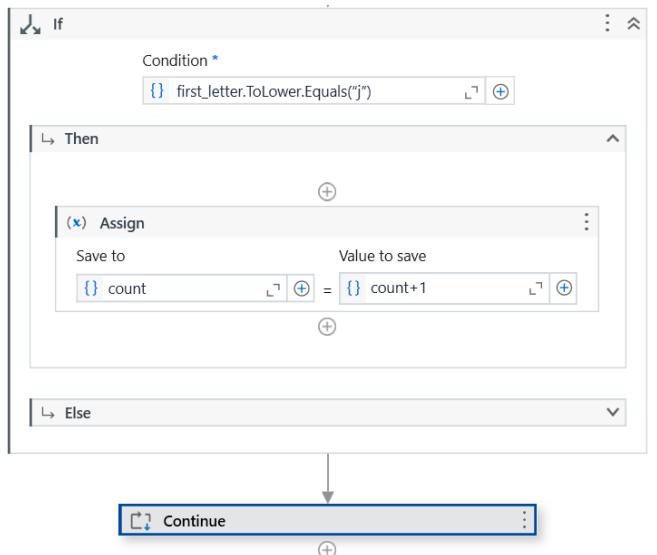
Step 2: Create a variable and save it as String of Array type. Add few names to it.



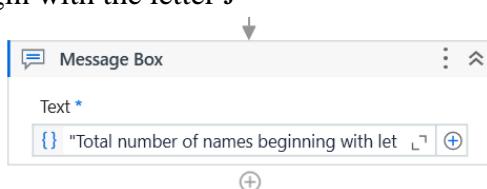
Step 3: Add a **For Each** activity and within the body add an **Assign** activity wherein you'll assign a variable as first_letter will will be used to search the first letter of our name i.e. in our case “j”. Add its value as **item.ToString.Substring(0,1)**. This will be helpful to check the first letter of each name



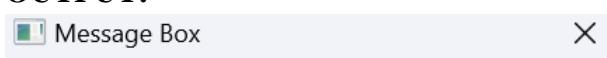
Step 4: Add an **If** activity. In the condition part check if the first letter is “j” using the code `first_letter.ToLower.Equals("j")` and in the then part just increment the counter and in the Else par just add a **Continue** activity.



Step 5: Add a message box and print the Counter value to know how many names in the array begin with the letter J



OUTPUT:



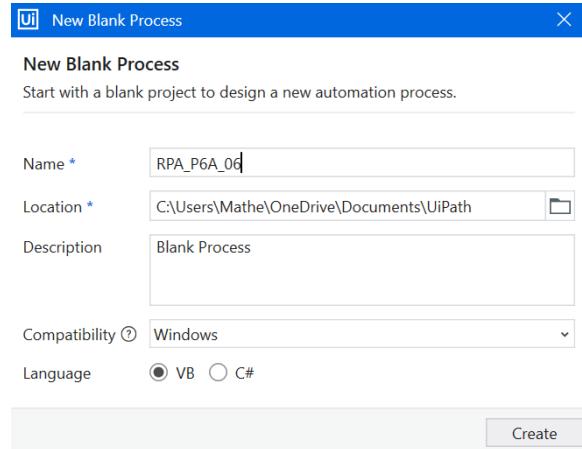
Total number of names beginning with letter J is:3

OK

PRACTICAL 6

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

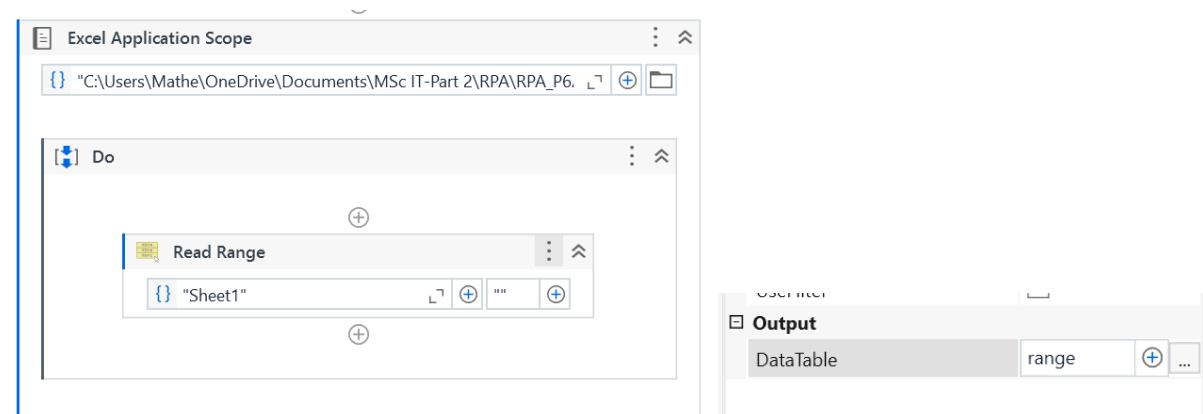
Step 1: Open UiPath Studio and create a new blank project.



Step 2: Create an Excel sheet.

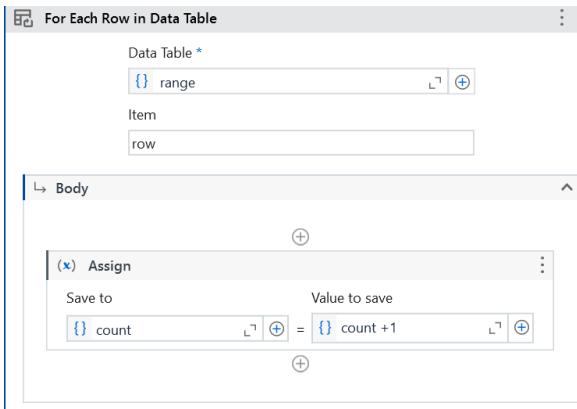
| | Name | Salary | Expense | Savings | | | | | |
|---|--------|--------|---------|---------|--|--|--|--|--|
| 1 | Sophia | 50000 | 22000 | | | | | | |
| 2 | Philip | 20000 | 15000 | | | | | | |
| 3 | Jessy | 34000 | 29000 | | | | | | |
| 4 | Mathew | 70000 | 35000 | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |

Step 3: Add an **Excel Application Scope** activity and browse the Excel file you just created. Also add the **Read Range** activity. In its output property create an Output Data Table Variable.

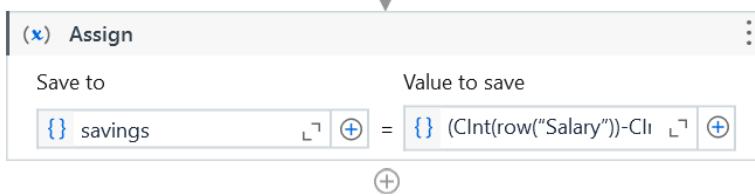


Step 4: Add the **For Each Row in Data Table** activity

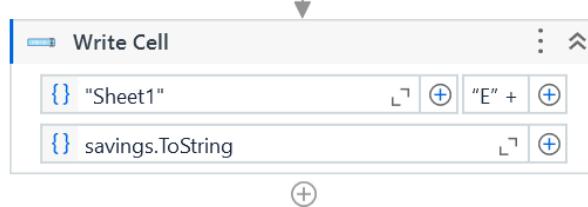
Step 5: Add an **Assign** activity and add a counter variable



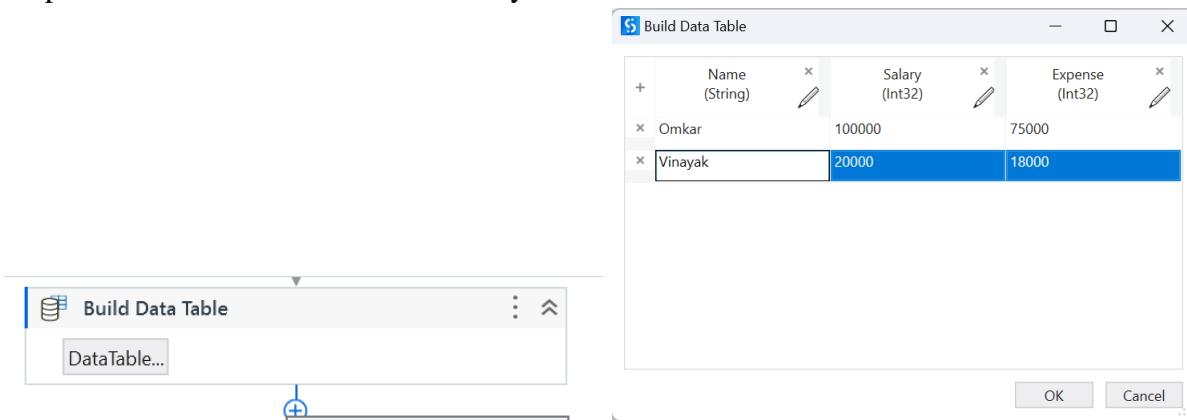
Step 6: Add an **Assign** activity and add a savings variable. This will help to calculate the savings. In the value part add **(CInt(row("Salary"))-CInt(row("Expense")))**



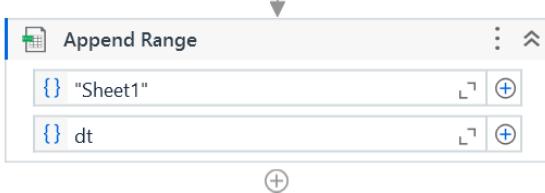
Step 7: Add a **Write Cell** activity. Specify the sheet name and row name to which you wish to write. **("D" + count).ToString**



Step 8: Add a **Build Data Table** activity.



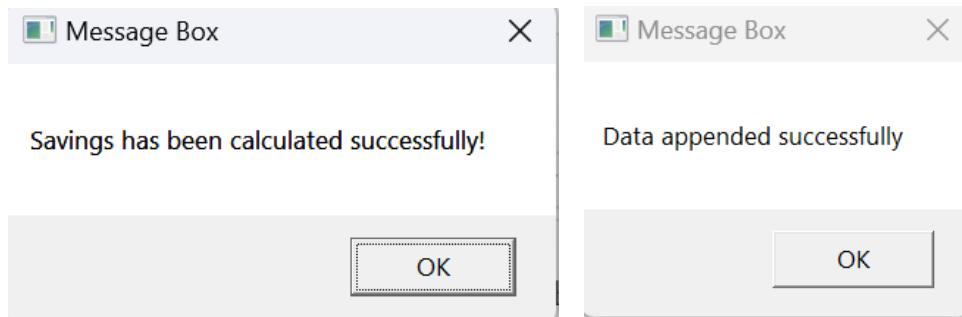
Step 9: Add an **Append Range** activity.



Step 10: Add a message box for confirmation.



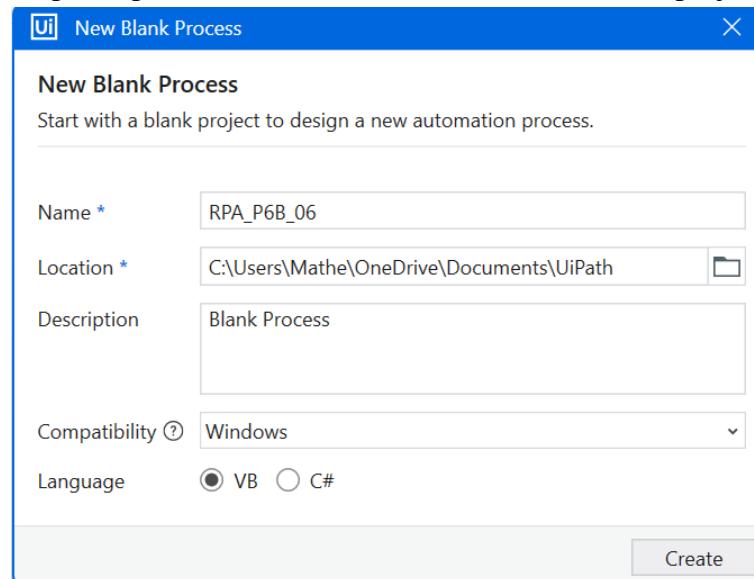
OUTPUT:



| | A | B | C | D | E |
|---|---------|--------|---------|-------|---|
| 1 | Name | Salary | Expense | 28000 | |
| 2 | Sophia | 50000 | 22000 | 5000 | |
| 3 | Philip | 20000 | 15000 | 5000 | |
| 4 | Jessy | 34000 | 29000 | 35000 | |
| 5 | Mathew | 70000 | 35000 | | |
| 6 | Omkar | 100000 | 75000 | | |
| 7 | Vinayak | 20000 | 18000 | | |
| 8 | | | | | |

B] AIM: Create automate the process to extract data from an excel file into a data table and vice versa

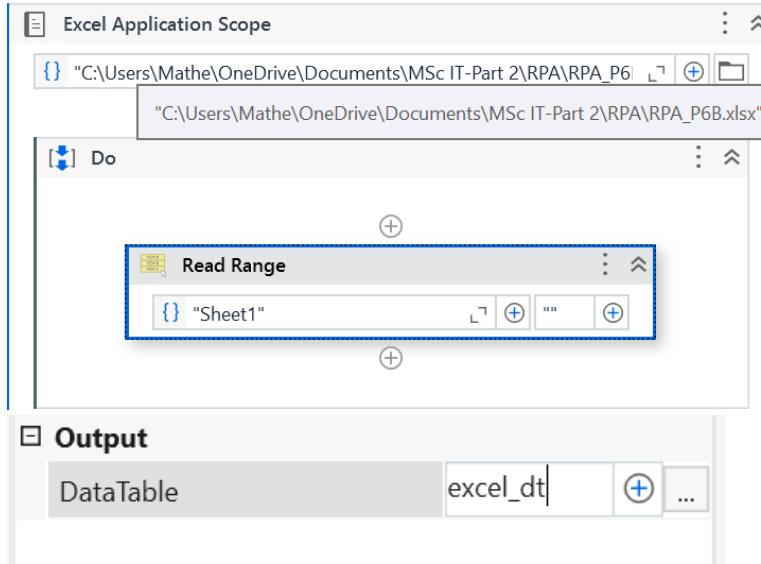
Step 1: Open UiPath Studio and create a new blank project.



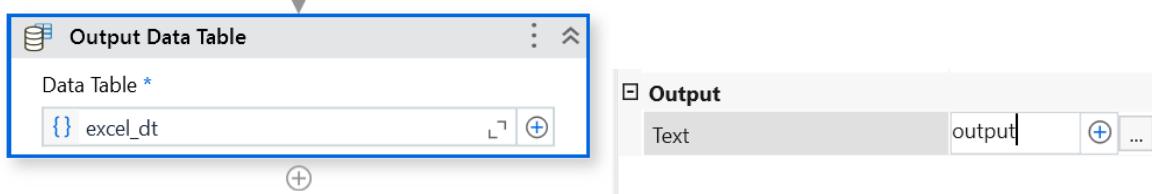
Step 2: Create an Excel sheet.

| | A | B | C | D | E | F | G | H | I | J |
|---|---------|---------|---|---|---|---|---|---|---|---|
| 1 | Roll No | Name | | | | | | | | |
| 2 | 26 | Omkar | | | | | | | | |
| 3 | 6 | Sophia | | | | | | | | |
| 4 | 54 | Pramoid | | | | | | | | |
| 5 | 1 | Mansi | | | | | | | | |

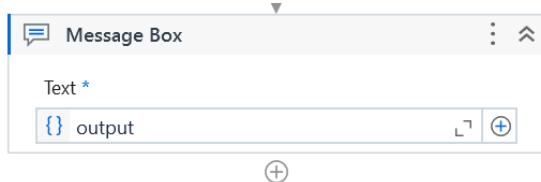
Step 3: Add an **Excel Application Scope** activity and browse the Excel file you just created. Also add the **Read Range** activity. In its output property create an Output Data Table Variable.



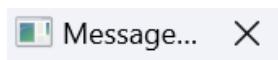
Step 4: Add **Output Data Table** and provide it with the data table name from Read Range activity. Create a variable to display the data table.



Step 5: activity. Add a **Message Box activity**. Save and Debug.



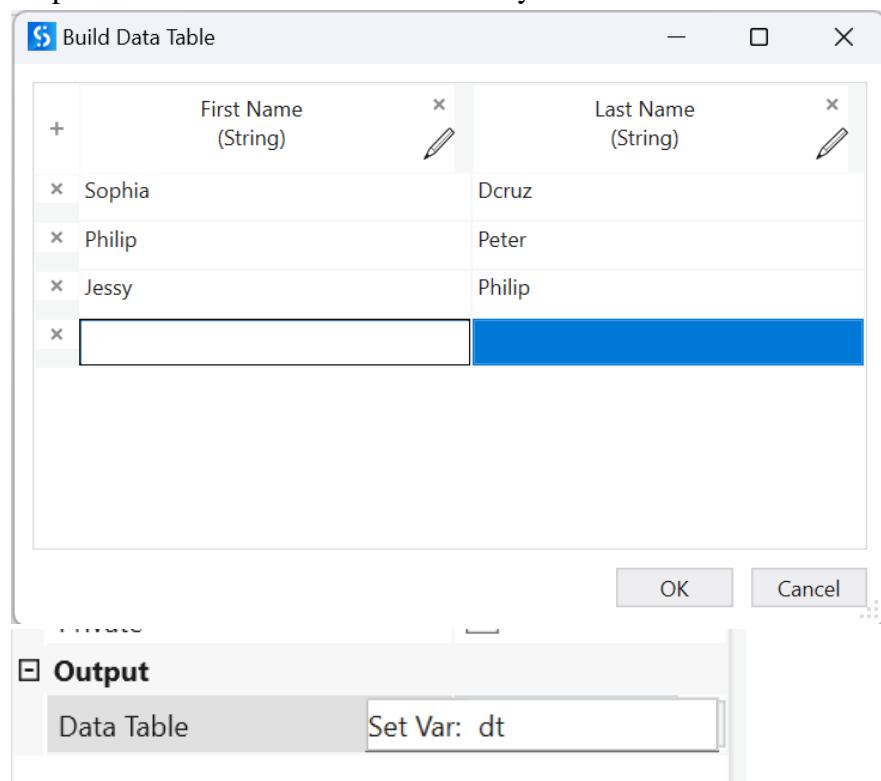
OUTPUT:



Roll No,Name
26,Omkar
6,Sophia
54,Pramoid
1,Mansi

OK

Step 6: Add a **Build Data Table** activity.



Step 7: Add **Write Range** activity. Provide the data table variable created earlier along with Sheet Name. Save and Debug

Write Range

| | | | |
|--------------|-----------|------|-------|
| { } "Sheet2" | [] [+] | "A1" | [+] |
| { } dt | [] [+] | | |

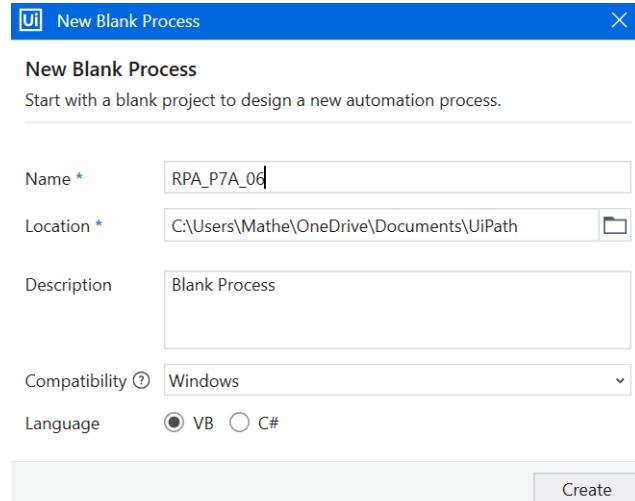
OUTPUT:

| | A | B | C |
|---|------------|-----------|---|
| 1 | First Name | Last Name | |
| 2 | Sophia | Dcruz | |
| 3 | Philip | Peter | |
| 4 | Jessy | Philip | |
| 5 | | | |

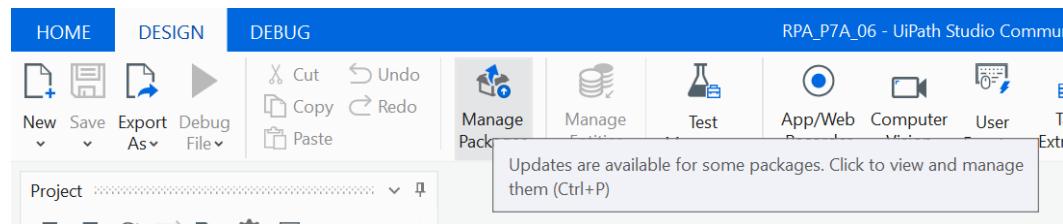
PRACTICAL 7

A] AIM: Install and automate any process using UiPath with the following plug-ins: Any two

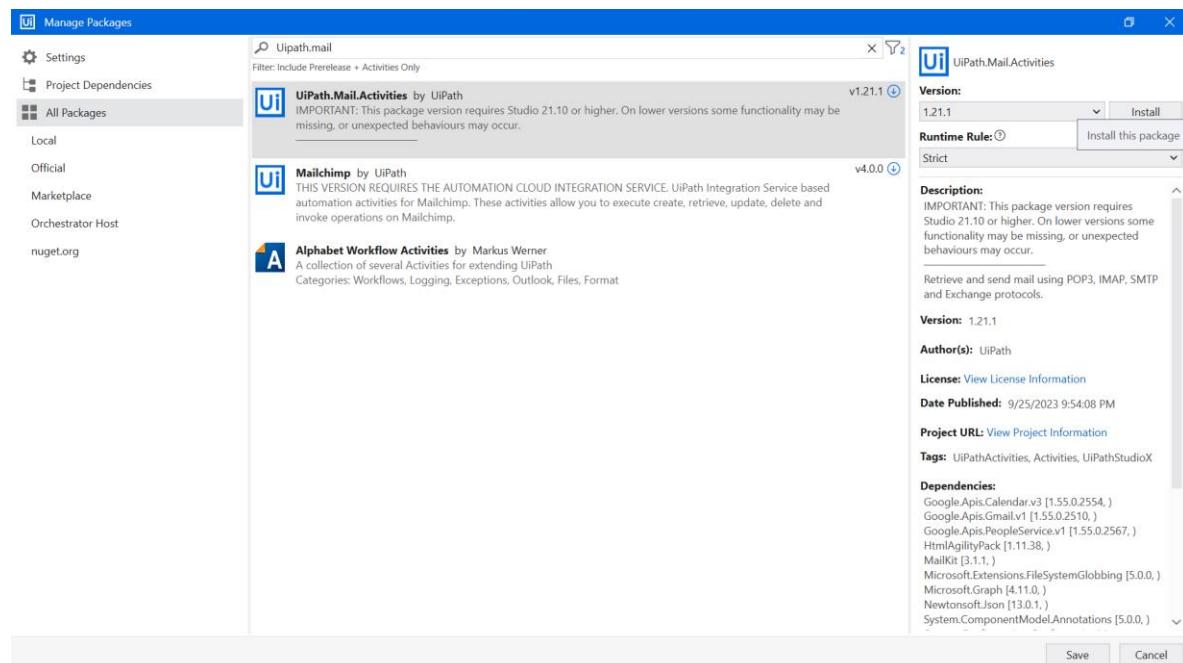
Step 1: Open UiPath Studio and create a new blank project.

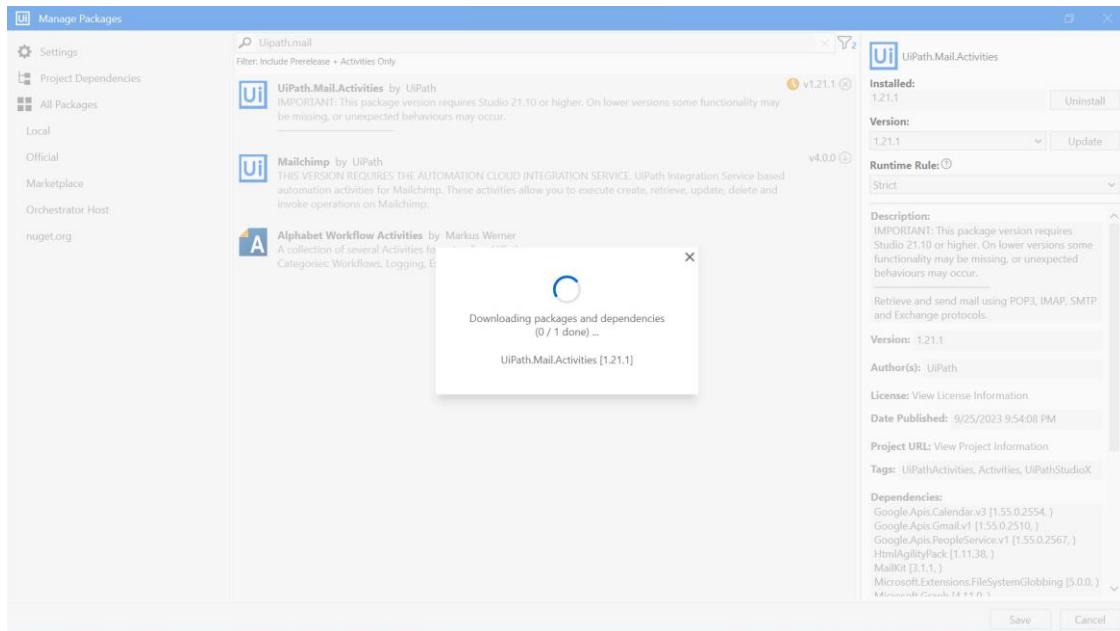


Step 2: In the ribbon, click on Manage Packages.

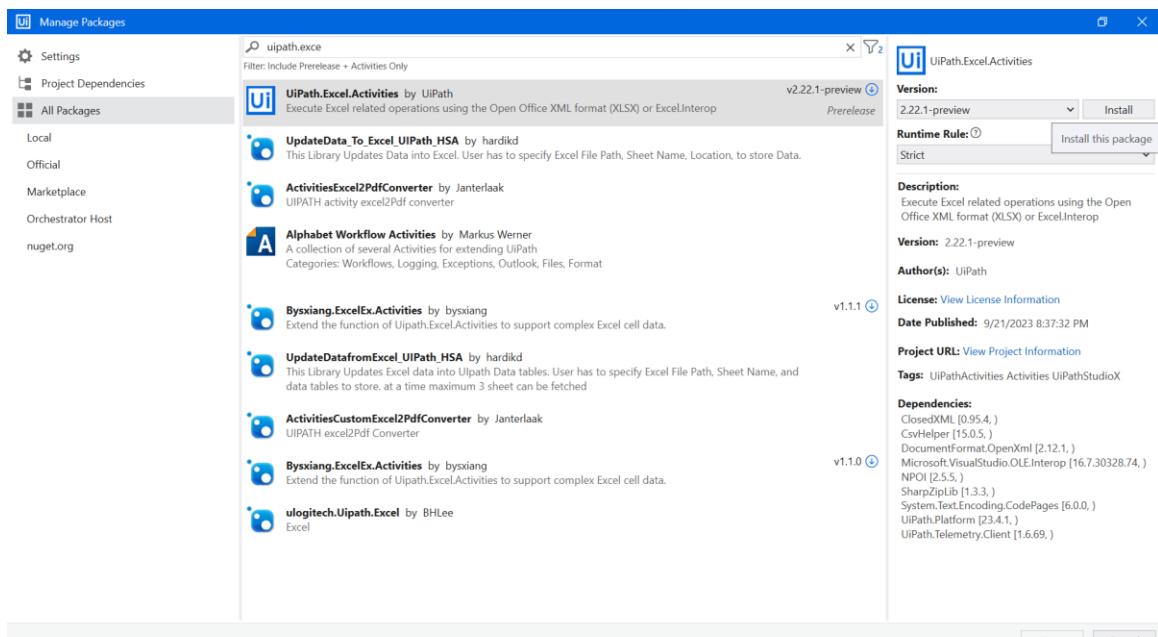


Step 3: On the left panel click on All Packages and search for UiPath.Mail and Install it. Click on Save

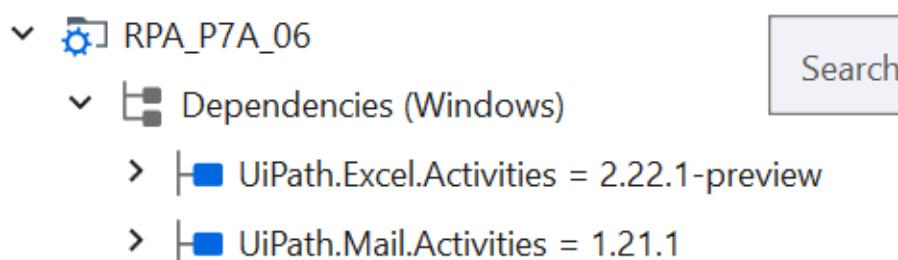




Step 3: On the left panel click on All Packages and search for UiPath.Excel and Install it. Click on Save

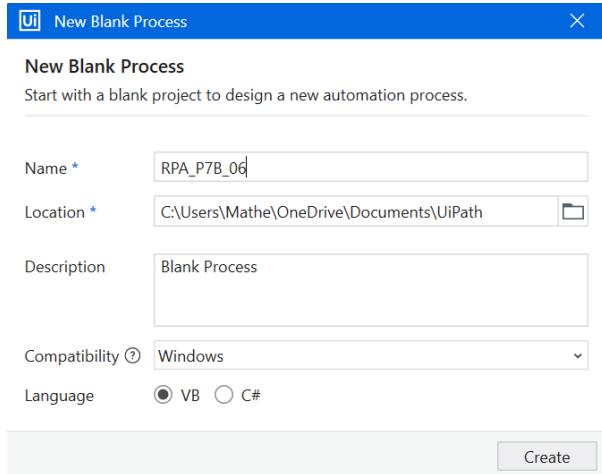


OUTPUT:

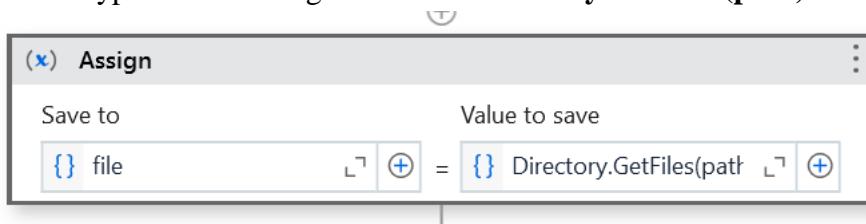


B] AIM: Automate the following screen scraping methods using UiPath i. Full Test (Invoice PDF) 3 PDS (invoice) Extract and put value in Excel

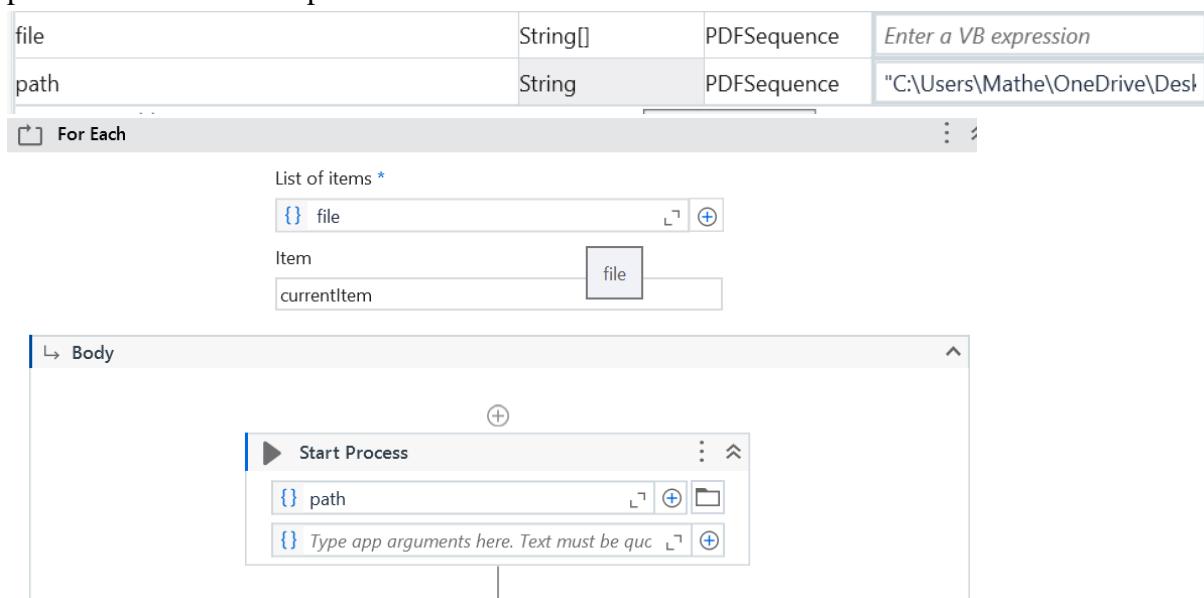
Step 1: Open UiPath Studio and create a new blank project.



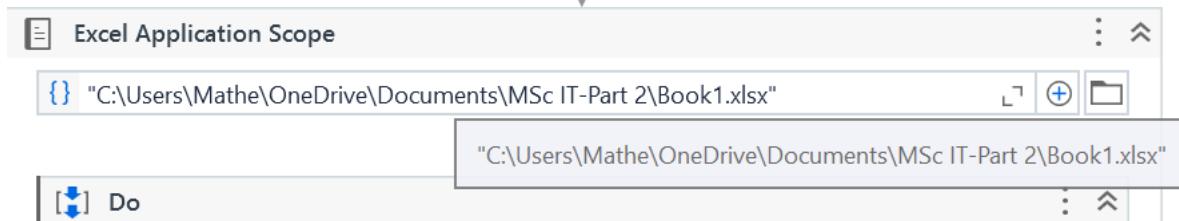
Step 2: Drag and drop the “Assign” activity and create a variable of String of Array type. To its value type the following statement: **Directory.GetFiles(path)**



Step 3: Add a “For Each Loop” activity and in the List of Items column pass the variable you created previously and in its Body part add the “Start Process” activity and the pass the file path where the Invoice pdf is saved.

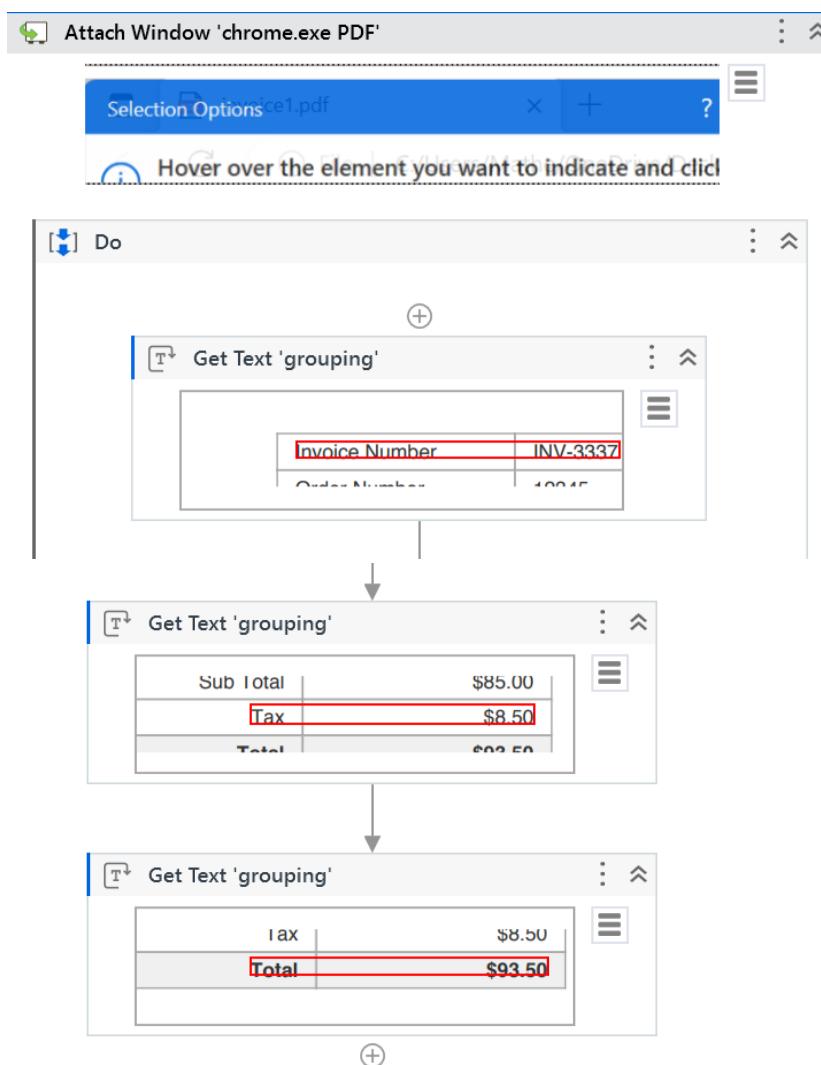


Step 4: Now add the “Excel Application Scope” activity and assign the sheet name where you wish to save the invoice data.

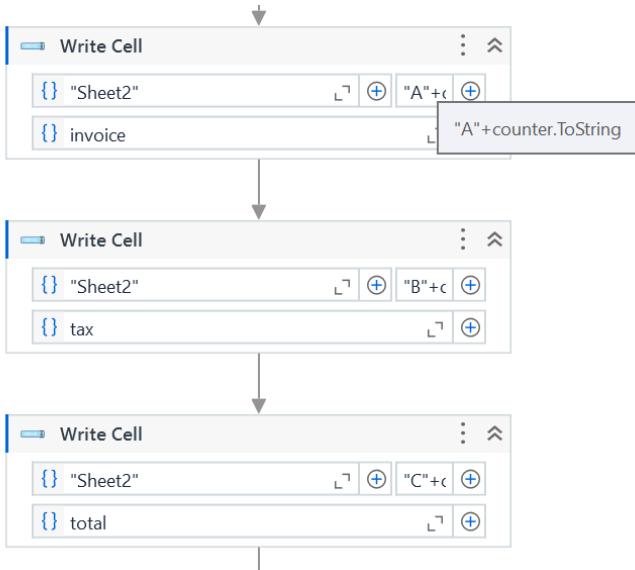


Step 5: In the Do part, drag and drop the “Attach Window” activity and indicate the pdf activity page on your browser. Click on the data you wish to save into your excel sheet. Here I have selected 3 columns namely Invoice Number, tax and Total. To each Get Text ‘grouping’ activity add a variable value to its output property. Also on the Indicate option edit the selector and change the title name.

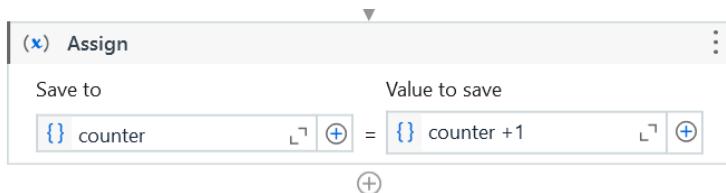
[Win_1](#) title='invoice*.pdf - Personal - Micros



Step 6: Now add the “Write Cell” activity and give the Sheet Name and column name and the variable that you created in the previous step.



Step 7: Assign a counter variable to move through each row in the excel sheet and increment it.



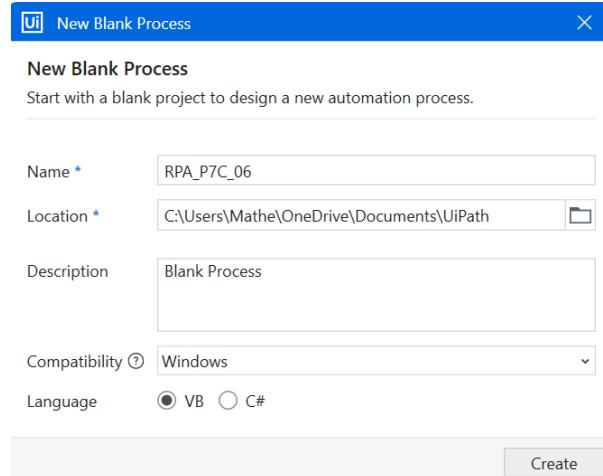
OUTPUT:

A screenshot of Microsoft Excel showing three rows of invoice data in a table format:

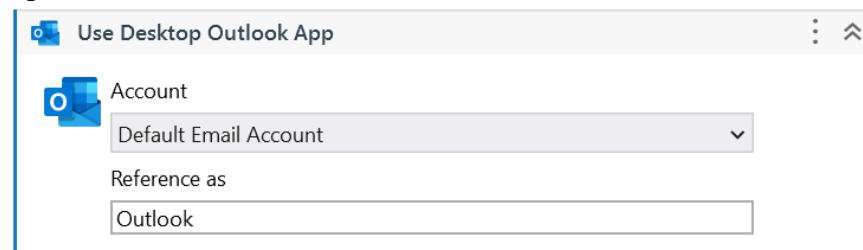
| | A | B | C |
|---|-------------------------------|------------|------------------|
| 1 | Invoice Number INV-3337 | Tax \$8.50 | Total \$93.50 |
| 2 | Invoice Number INV-3337 | Tax \$8.50 | Total \$93.50 |
| 3 | Invoice Number INV-3337 | Tax \$8.50 | Total \$93.50 |

C] AIM: Automate the process of send and receive mail event

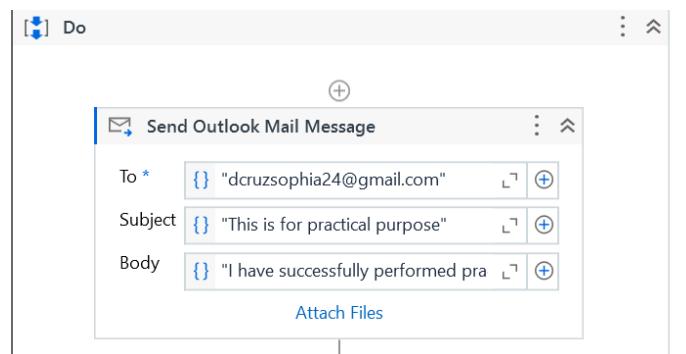
Step 1: Open UiPath Studio and create a new blank project.



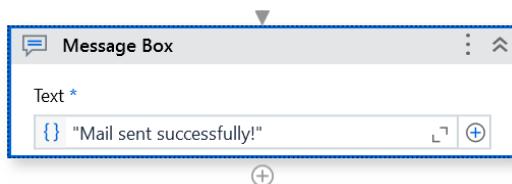
Step 2: Drag and drop the “Use Desktop Outlook App” activity. Choose the default account option.



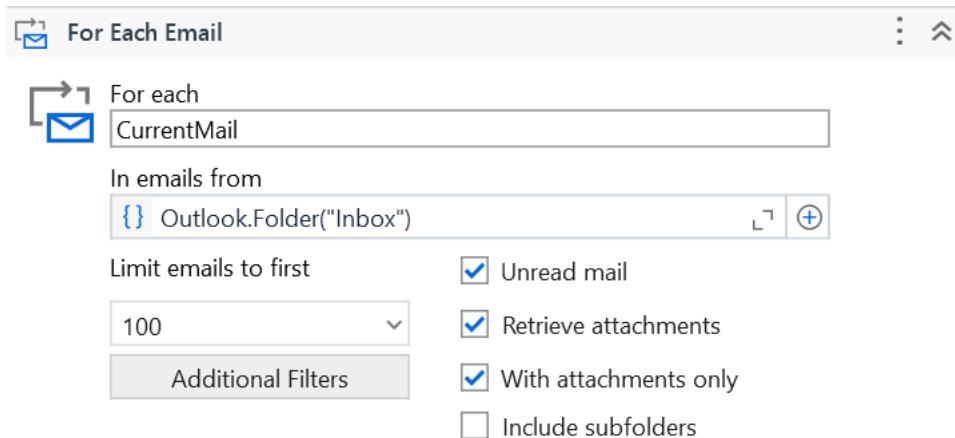
Step 3: Drag the “Send Outlook Mail Message” activity and fill in the recipients details along with the mail to be sent.



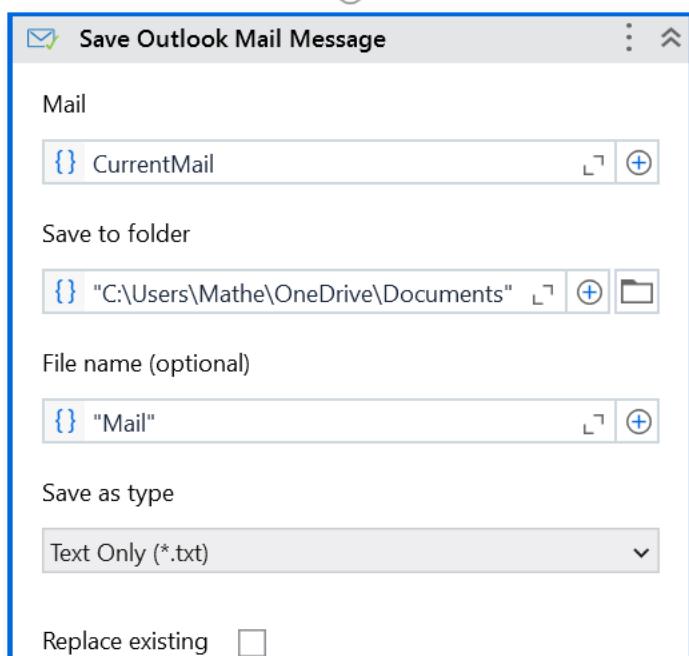
Step 4: Add a “Message Box” activity to check if mail has been sent. Save and debug to send the mail.



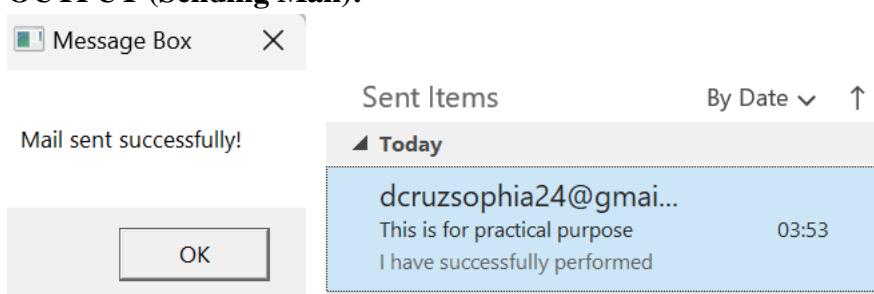
Step 5: Add the “For Each Mail” activity

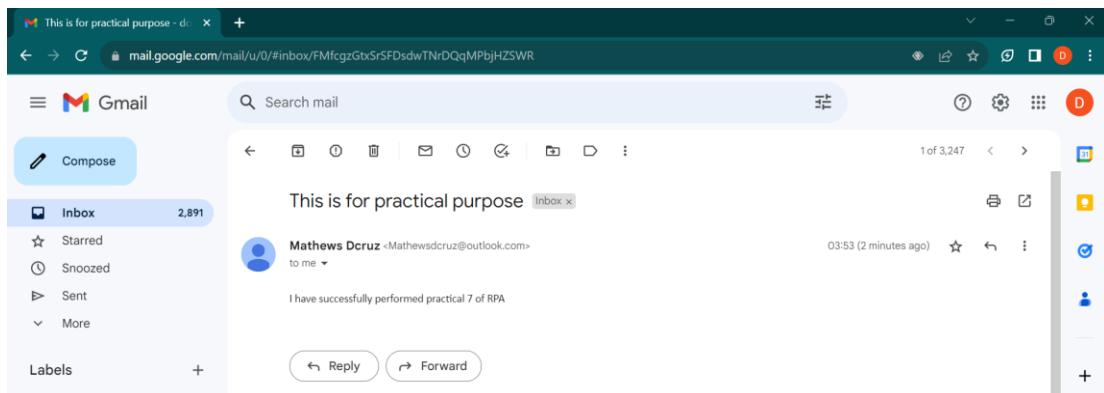


Step 6: Save Outlook Mail Message



OUTPUT (Sending Mail):



**OUTPUT (Receiving Mail):**

Message Box

Folder created and saved successfully

OK

Documents

Mathews - Personal > Documents

| Name | Status | Date modified | Type | Size |
|-------------------------|--------|------------------|-------------------------|--------|
| Class IX | ✓ | 26-09-2023 14:36 | File folder | |
| Class X | ✓ | 17-09-2023 23:55 | File folder | |
| Custom Office Templates | ✓ | 26-08-2023 10:21 | File folder | |
| MSc IT-Part 2 | ✓ | 28-09-2023 22:46 | File folder | |
| New folder | ✓ | 10-09-2023 13:01 | File folder | |
| UIPath | ✓ | 29-09-2023 01:29 | File folder | |
| Book1 | ✓ | 04-09-2023 17:47 | Microsoft Excel Work... | 11 KB |
| FMC-AGM (23) | ✓ | 11-08-2023 15:41 | Microsoft Word Doc... | 15 KB |
| FMC-AGM (23) | ✓ | 11-08-2023 15:42 | Microsoft Edge PDF ... | 104 KB |
| Mail | ✓ | 29-09-2023 04:12 | Text Document | 1 KB |

Mail

File Edit View

From: 06_Sophia Dcruz <dcruzsophia24@gmail.com>
Sent: 29 September 2023 04:10
To: Mathews Dcruz
Subject: Re: This is for practical purpose
Attachments: Screenshot 2023-07-19 200835.png

Just added some random attachment to your email

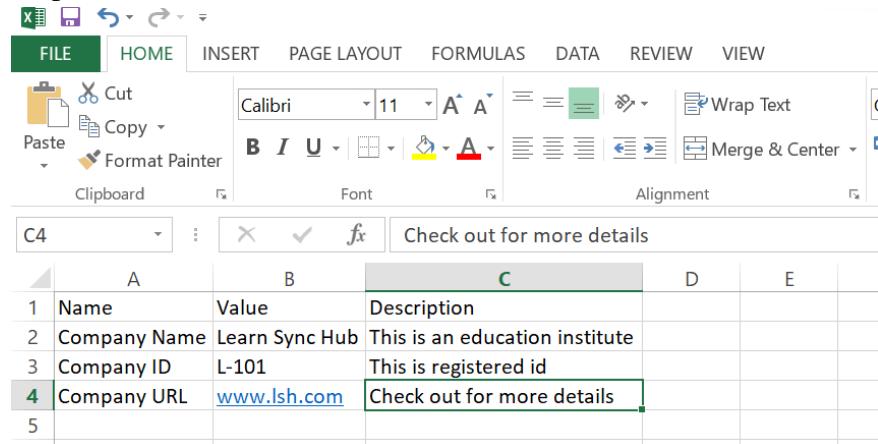
On Fri, 29 Sept 2023 at 04:09, 06_Sophia Dcruz <dcruzsophia24@gmail.com> wrote:
Hello Im sending this mail to you

On Fri, 29 Sept 2023 at 03:53, Mathews Dcruz <Mathewsdcruz@outlook.com> wrote:
I have successfully performed practical 7 of RPA

PRACTICAL 8

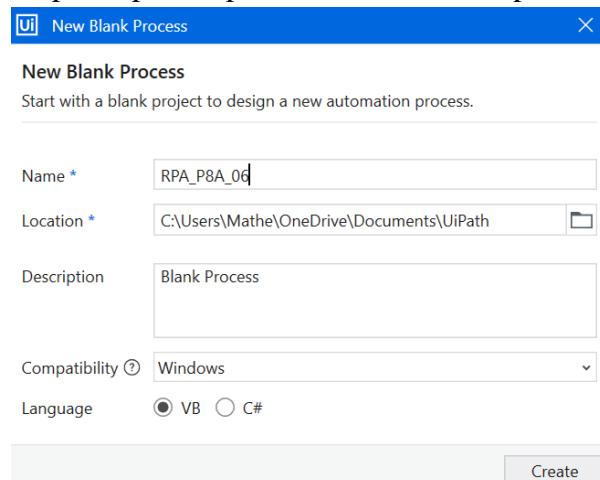
A] AIM: Demonstrate the use of config files in UiPath.

Step 1: Create an excel file and enter the below data in it.

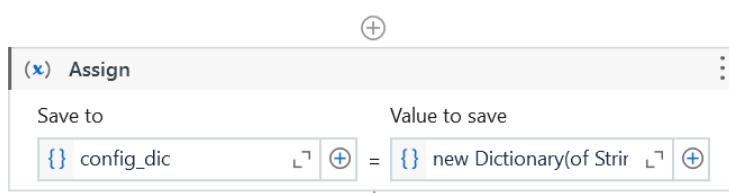


| | A | B | C | D | E |
|---|--------------|----------------|--------------------------------|---|---|
| 1 | Name | Value | Description | | |
| 2 | Company Name | Learn Sync Hub | This is an education institute | | |
| 3 | Company ID | L-101 | This is registered id | | |
| 4 | Company URL | www.lsh.com | Check out for more details | | |
| 5 | | | | | |

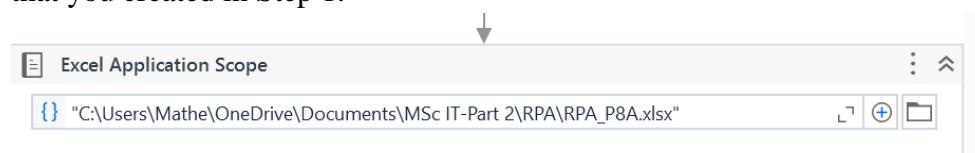
Step 2: Open Ui path create new blank process.



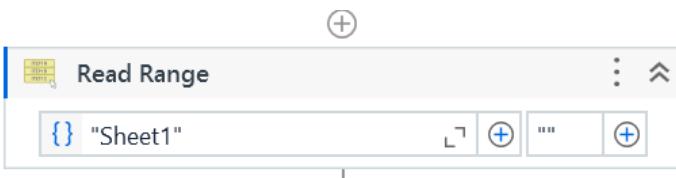
Step 3: Add an “Assign” activity. Create a variable for it of data type dictionary and type New Dictionary (OfString, Object) into value prompt.



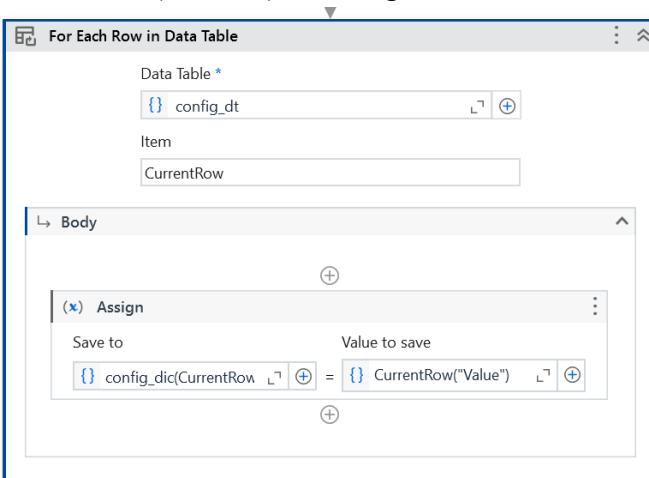
Step 4: Now drag and drop the “Excel Application Scope” activity and browse for excel file that you created in Step 1.



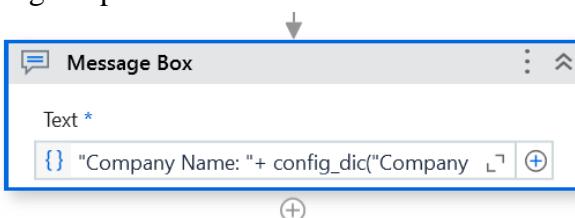
Step 5: Add a “Read Range” activity. Give it the sheet name from which you wish to read the data.



Step 6: Take for each row in Data Table activity create a variable of type Data Table. Into the Body section, add an “Assign” activity. Select the variable as config_dc(.CurrentRow("Name").ToString) in the value field enter CurrentRow("Value").ToString.



Step 7: Lastly add a “Message Box” activity to display Excel data. “"Company Name: "+ config_dic("Company Name").ToString+n+"Company ID: "+config_dic("Company ID").ToString+n+"Company URL: "+config_dic("Company URL").ToString” . Save and debug the process.



OUTPUT:

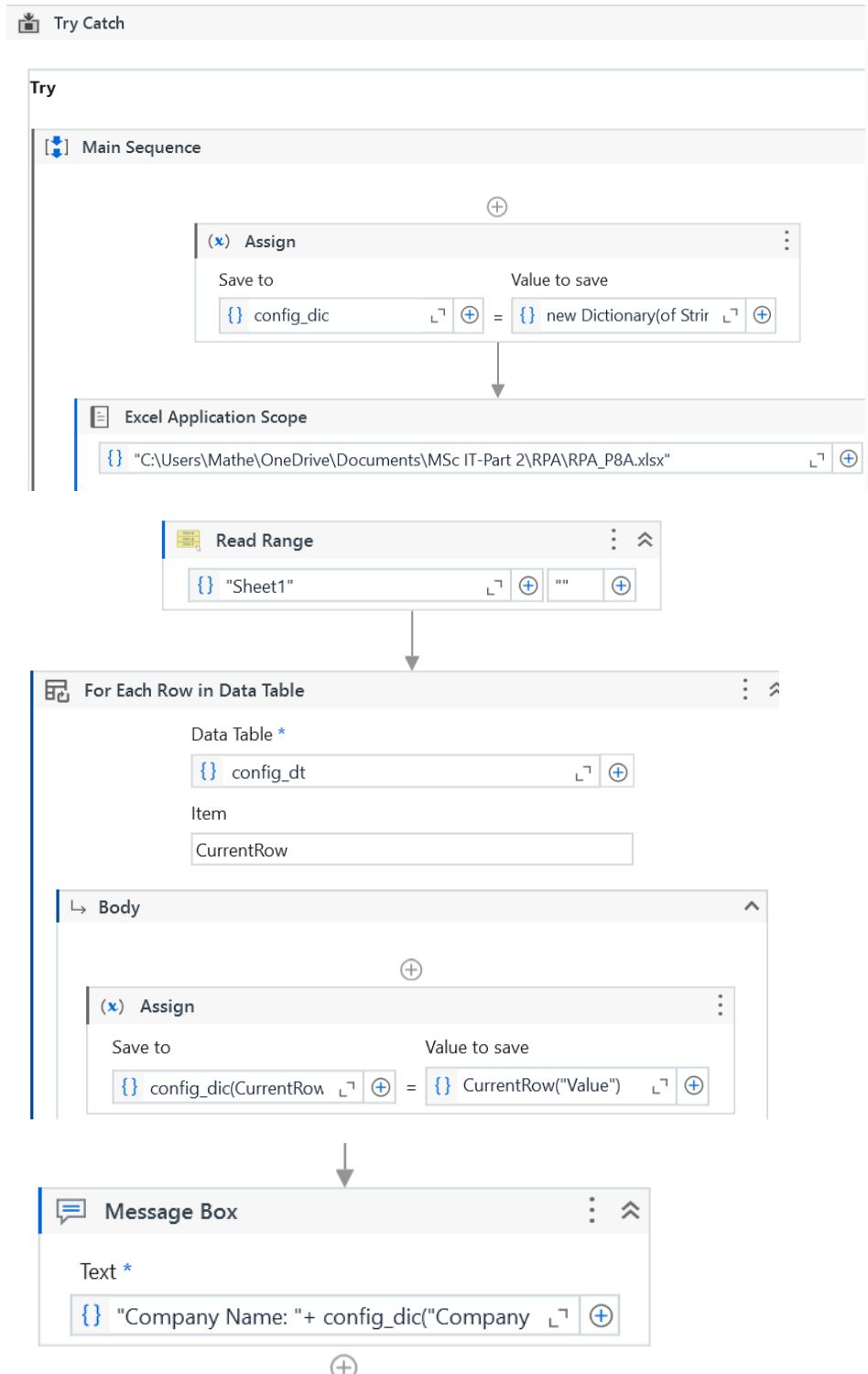


Company Name: Learn Sync Hub
Company ID: L-101
Company URL: www.lsh.com



B] AIM: Demonstrate the Exception handing in UiPath.

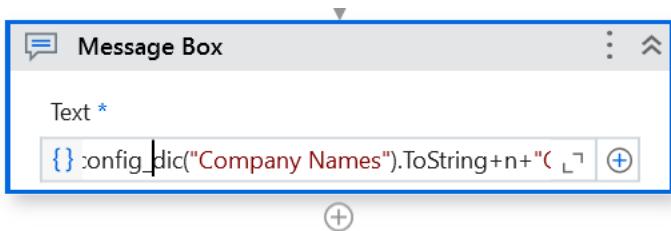
Step 1: Drag and drop the “Try Catch” activity and then add all the steps of the previous practical in the try block.



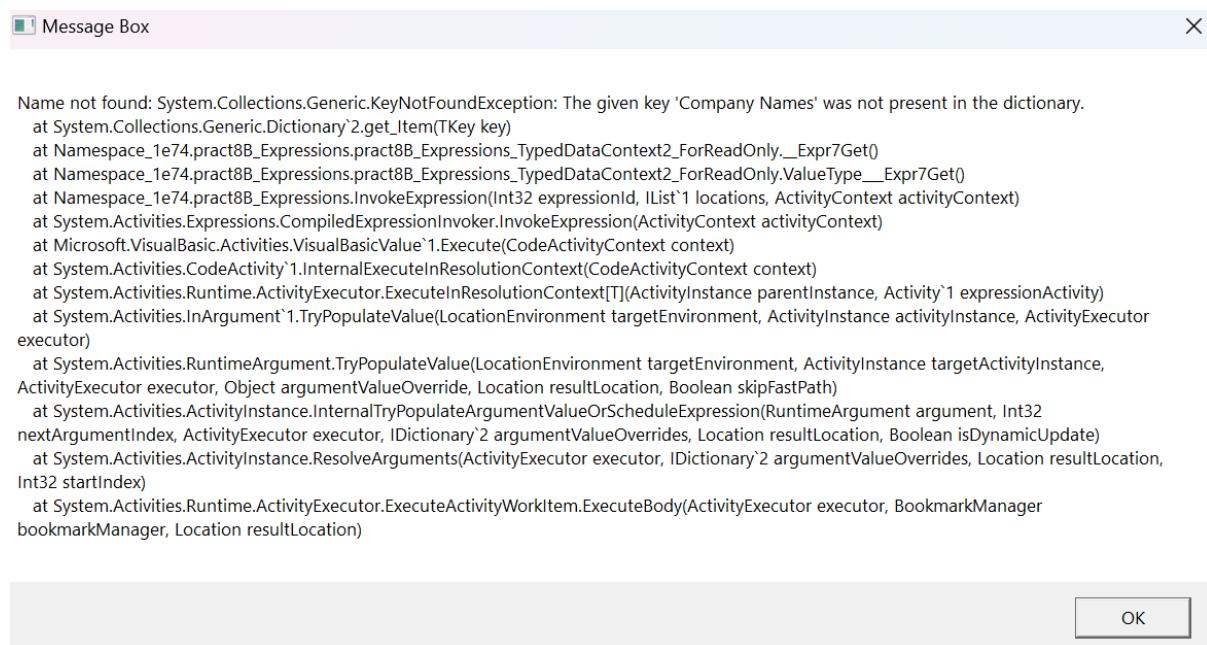
Step 2: Now inside catch block add default exception to catch error and add “Message Box” activity to print the exception.



Step 3: To see the exception make any silly mistake in activities present inside try block. In this case I have changed the key from “Company Name” to “Company Names” in the try block will is an exception. Save and debug the process.

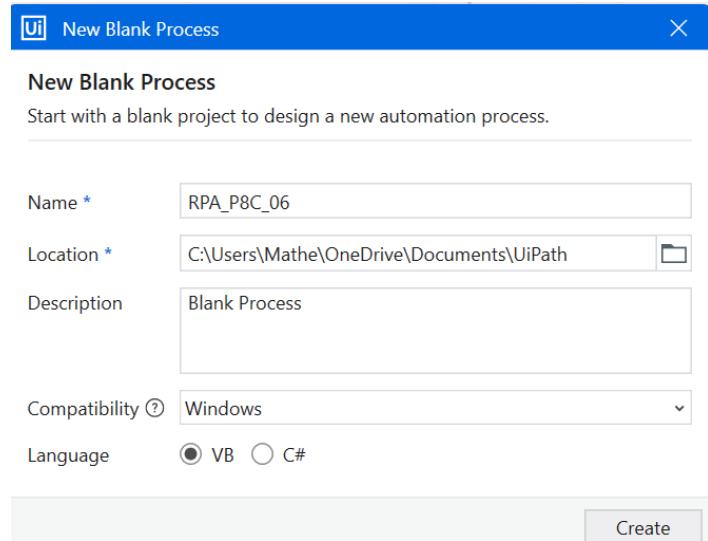


OUTPUT:

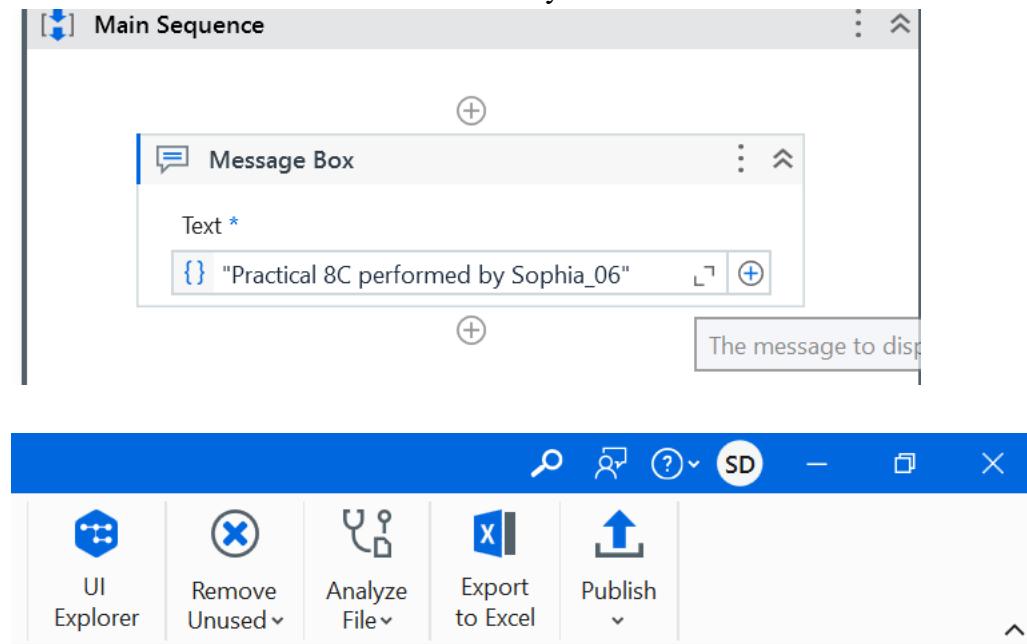


C] AIM: Create and provision Robot using Orchestrator.

Step 1: Open UiPath Studio and create a new blank project.



Step 2: To the main Sequence add a “Message Box” activity. Once done “Publish” the package. Give it an appropriate package name, click on Next. Now select “Orchestrator Tenant Processes Feed” and click on Next. Finally click on Publish.



Ui Publish Process

Package properties

Package Name *
RPA_P8C_06

Version

Current Version 1.0.0 **New Version *** 1.0.1

Is Prerelease ?

Package Icon  *Optional Package Icon*

Project tags
Start typing to get a list of possible matches

Release Notes

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

Ui Publish Process

Publish options

Publish to Orchestrator Tenant Processes Feed

Custom URL NuGet feed url or local folder

API Key Optional API Key

Compilation Settings
 Remove Unused Dependencies ?

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

Info

i Project published successfully.
Name: RPA_P8C_06
Version: 1.0.4

Details **Copy to Clipboard** **OK**

Step 3: Login to UiPath Orchestrator. On the left side panel click on Orchestrator – Tenant – Folders – Manage Folders. Here create a new folder to store your process.

Step 4: Now go to the newly created folder click on Machines – Manage Machines. Choose available machine, if does not exist create a new Machine by clicking Add machine – Standard machine. Give it an appropriate name and set Production (unattended) as 1 and click on Provision. Now your machine will be created successfully!

The screenshot shows a browser window with three tabs: 'Maharashtra-State-Board-9th-St...', 'ChatGPT', and 'Automation Management Tools'. The main content area is titled 'UiPath Orchestrator' and shows the path 'RPA_P8C > Settings > Machines > Manage Machines in Folder > Standard machine [TENANT]'. A success message 'Success! Your machine was created.' is displayed. Below it, instructions say 'You can now authenticate this machine to your Robot in the Assistant by using the details below.' The machine details listed are:

- Machine Name:** P8C
- Client ID / Machine key:** 675b7b16-e682-4c56-ad2c-12ef604514ee
- Client secret:** zYeJcrNZmznUB9FN

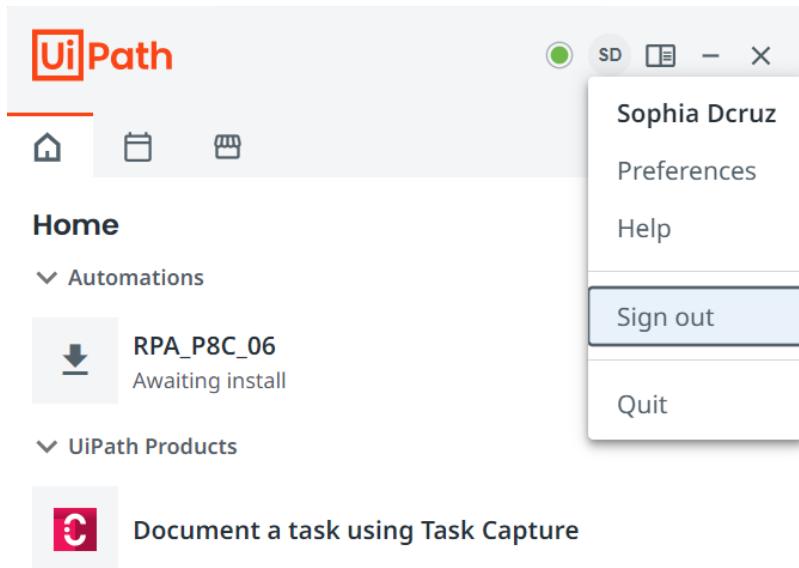
A note states: 'Works in combination with the ID above. You can add or delete secrets when editing the machine.' A reminder at the bottom says 'Keep your secrets safe' with a link to 'https://www.uipath.com/secrets-best-practices'. A blue 'Close' button is at the bottom right.

Step 5: Now go back to Machines and update the newly created machine that will be used for your process, copy the machine key and click on Update.

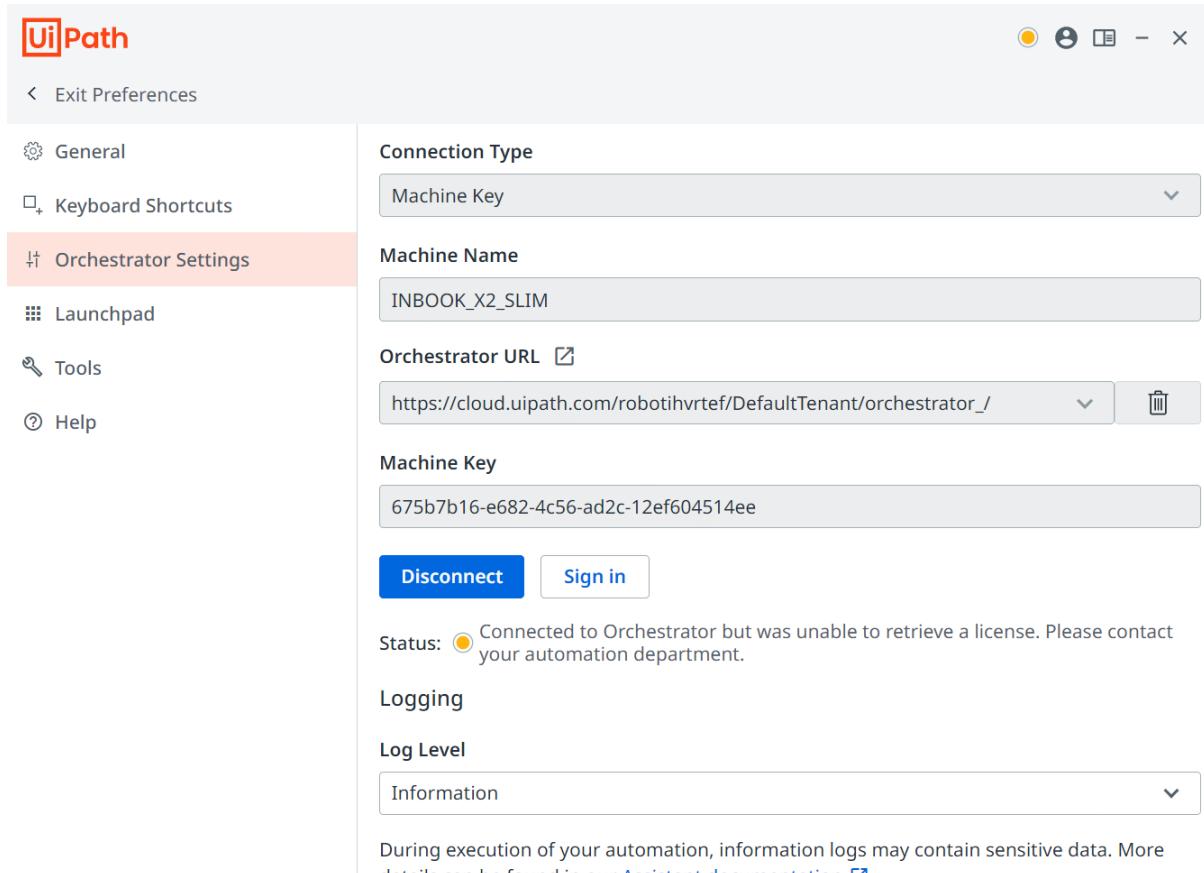
The screenshot shows the 'Manage Machines in Folder' page with the path 'RPA_P8C > Settings > Machines > Manage Machines in Folder'. A search bar and filters ('Type: All', 'Labels: All') are at the top. A blue '+ Add machine' button is on the right. The main table lists machines with columns: Name, Type, Product..., Non Pro..., Testing, Labels, and Properties. The row for 'P8C' has a checked checkbox in the first column. The table footer shows '1 - 3 / 3' rows, 'Page 1 / 1', and 'Items 10'. At the bottom are 'Cancel' and 'Update' buttons.

| Name | Type | Product... | Non Pro... | Testing | Labels | Properties |
|-------------------------------------|-------------------------|------------|------------|---------|--------|------------|
| P8C | Standard | 1 | 0 | 0 | | |
| [Default] Cloud Robots - Serverless | Cloud Robot - Server... | 0 | 0 | 0 | | |
| drcruzsophia24@gmail.com's wo... | Template | 0 | 0 | 0 | | |

Step 6: Now go to UiPath Assistant on the machine where you wish to run the process and Sign Out your account that you have been currently using.



Step 7: Now click on Preferences. On the left side panel click on Orchestrator Setting. Choose Connection Type as Machine Key. Paste the URL of your orchestrator into the Orchestrator URL and the machine key you copied to the Machine Key column and click on Connect and you'll be connected to the machine.



Step 8: Go to the folder you created click on Automations – Processes – Add Process. Choose the source package. Set the entry point and click on Next. Set the Process Name and also set the job priority and click on Create.

1 Process Configuration

Package Overview

Package Source Name *

RPA_P8C_06

Click to add file or drop package file here

Entry point

Main.xaml

The current package version has no input or output arguments.

2 Package Requirements

3 Additional Settings

Cancel Back Next Create

2 Package Requirements

3 Additional Settings

Process Details

Display name

RPA_P8C_06

Description

Blank Process

Describe the process in a few words. Initially inherited based on package version.

Tags

Labels

Priority & Running Options

Job priority *

Medium

Control which job has precedence over competing jobs.

Process can't be stopped from UIPath Assistant

Prevent the process from being stopped or paused using the Assistant.

Automatically Start Process

Launch the process automatically when the Robot agent starts. If enabled together with Process can't be stopped from UIPath Assistant, the process launches when Assistant is first started on the user machine.

Cancel Back Next Create

Step 9: Now go to Tenant – Manage Access and choose your admin profile. Check if it is Enabled. If not Edit. Check the General details –Next – Personal automation setup – Unattended setup. Here Use a specific Windows user account. Add credentials below. This will be credentials of the machine where you would like to run your process. Click on Update

User & Roles

Username *
dcruzsophia24@gmail.com

First Name
Sophia

Last Name
Dcruz

Email address

Account settings

Allow Orchestrator UI Access
 Enabled

UI Profile
 Standard Interface
 Personal Workspace

Update policy settings

Client binaries (Robot, Assistant and Studio) auto-update policy
Latest version

Cancel **Back** **Next** **Update**

General details

Enable user to run automations

Settings

Enable a Personal Workspace for this user

Allows user to:

- Run automation on their local machine via UIPath Assistant
- Run background personal remote automations in folders where the user has the necessary permissions and in their Personal workspace
- Run and Debug in UIPath Studio desktop and web
- Manage automations in their personal workspace

Cancel **Back** **Next** **Update**

The screenshot shows the 'Edit - UiPath Orchestrator' page. It includes fields for 'Domain\Username *' (inbook_x2_slim\sophia), 'Credential Store *' (Orchestrator Database), 'Password' (redacted), 'Credential Type *' (Windows Credentials), and a checkbox for 'Run only one job at a time'. Below the form are buttons for 'Cancel', 'Back', 'Next', and 'Update'.

Step 10: Now click on Process and click on Start a Job. You'll be asked to choose an account, choose the account which you enabled in the previous step as well as choose the machine. Click on Start. Now your process will run and the output will be shown on the provided system.

The screenshot shows the 'Processes - UiPath Orchestrator' page. The left sidebar shows 'My Folders' with 'RPA_P8C' highlighted. The main area displays a table of processes, with one row selected: 'RPA_P8C_06' (Version 1.0.3, Unattended, Windows, Main.xaml, Blank Pr...). A 'Start a Job' button is visible in the header of the table. The URL at the bottom is https://cloud.uipath.com/robotihvrtef/DefaultTenant/orchestrator/_processes/1007515/jobs/start?tid=1452669&fid=4728180.

The screenshot shows the 'Start Job - UiPath Orchestrator' dialog box. At the top, there are tabs for 'RPA-Final Journal Soft copy Sub.', 'Automation Management Tools', and 'Start Job - UiPath Orchestrator'. The URL in the address bar is cloud.uipath.com/robotihvrtef/DefaultTenant/orchestrator_/processes/1007515/jobs/start?tid=1452669&fid=4728180. The main form has fields for 'Process Name *' (set to 'RPA_P8C_06'), 'Job priority *' (set to '= Inherited'), and 'Runtime type *' (set to 'Production (Unattended)'). Below these are sections for 'Execution Target' and 'Arguments'. Under 'Execution Target', there are options for 'Allocate dynamically', 'Execute the process 1 times', and three radio button options: 'Schedule ending of job execution', 'Generate an alert if the job is stuck in pending or resumed status', and 'Generate an alert if the job started and has not completed'. Under 'Arguments', there are fields for 'Account' (set to 'Sophia Dcruz (inbook_x2_slim\sophia)') and 'Machine' (set to 'P8C'). A checkbox 'Keep Account/Machine allocation on job resumption' is also present. At the bottom right are 'Cancel' and 'Start' buttons.

OUTPUT:

Practical 8C performed by Sophia_06