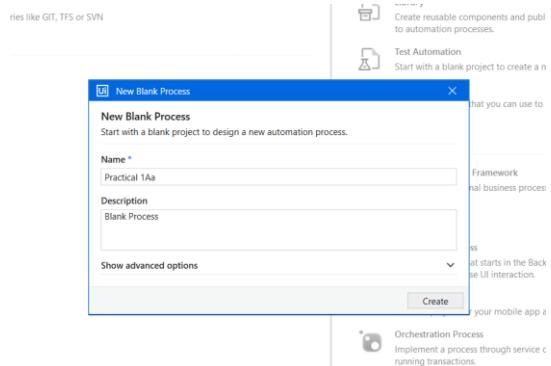


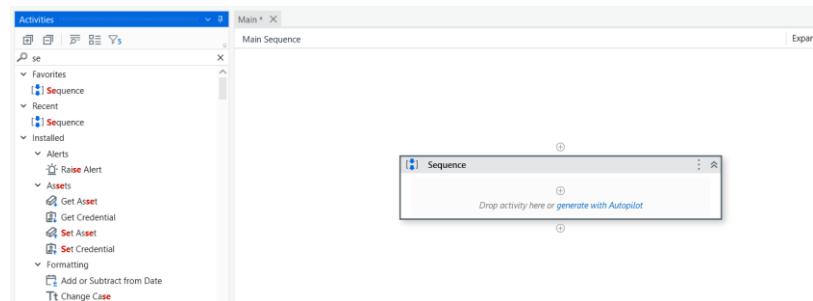
Practical No. 1A

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

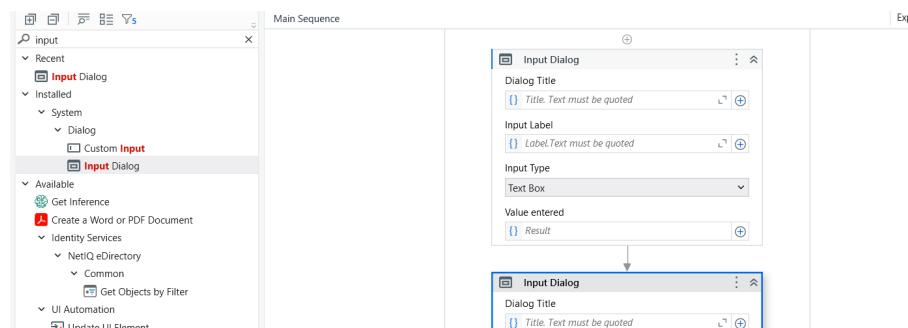
Step 1: Create new blank process and name the process as Practical 1A



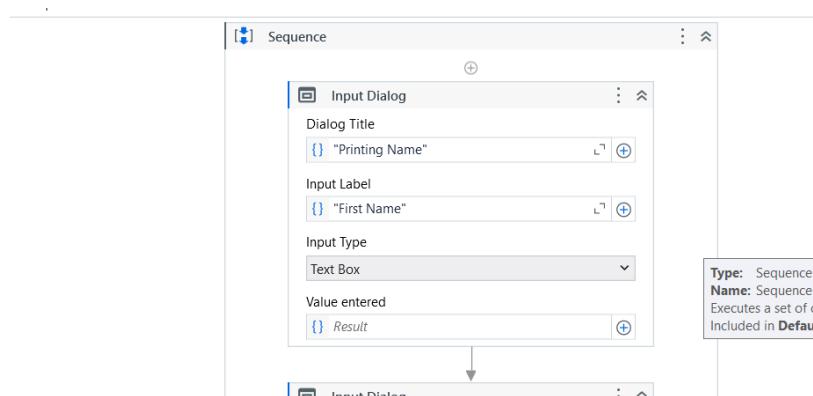
Step 2: In activities tab search for sequence and drag and drop into the main



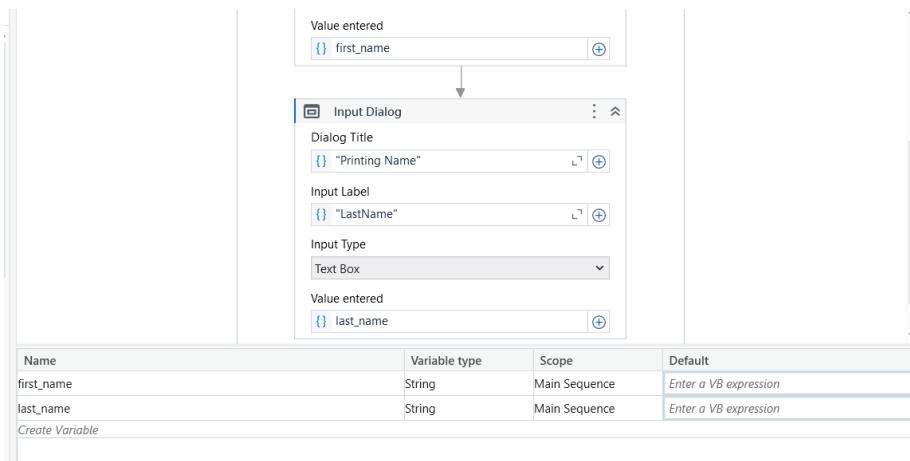
Step 3: Drag and drop 2 input dialog boxes into sequence box



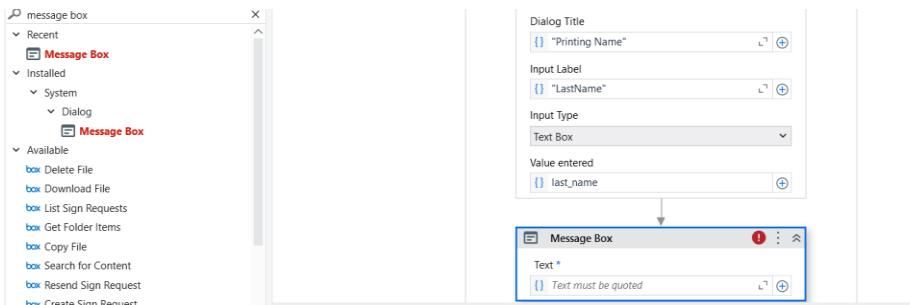
Step 4: Fill the details in input dialog box



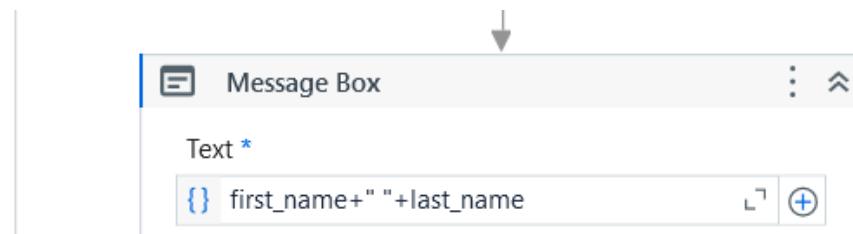
Step 5: Create two variables for taking input for first name and last name



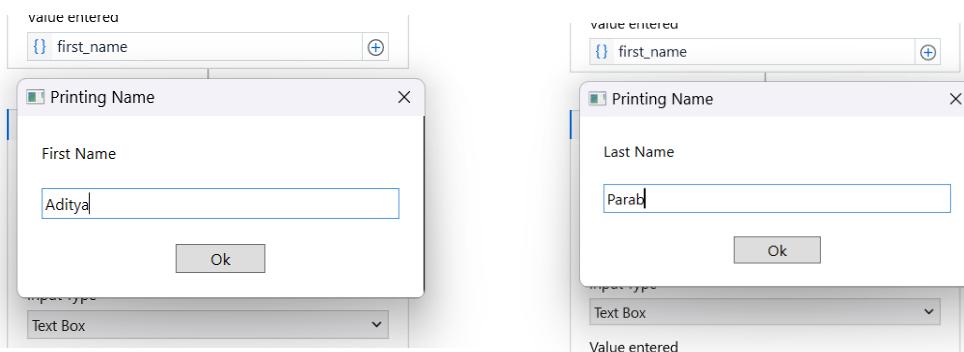
Step 6: Drag and drop the message box in sequence



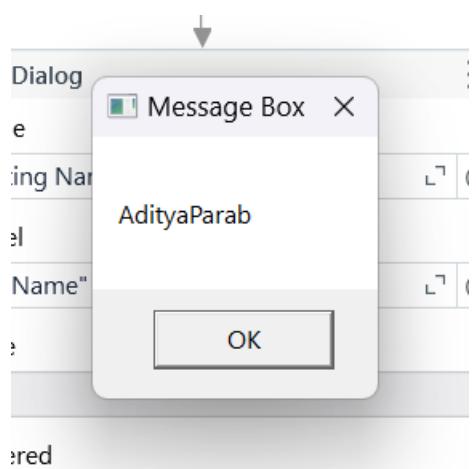
Step 7: Enter the value



Step 8: Debug the file and then enter the first name and last name



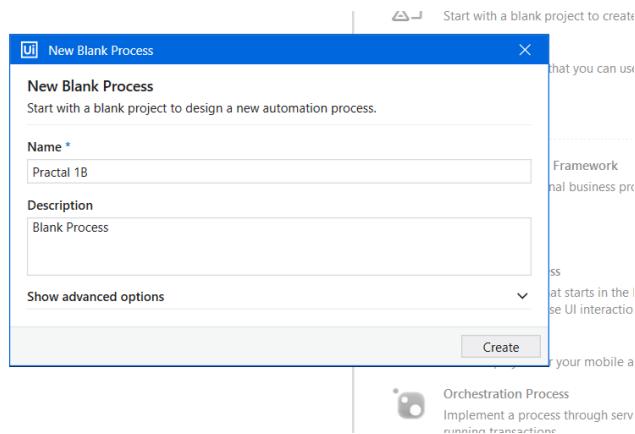
Step 9: Output



Practical No. 1B

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

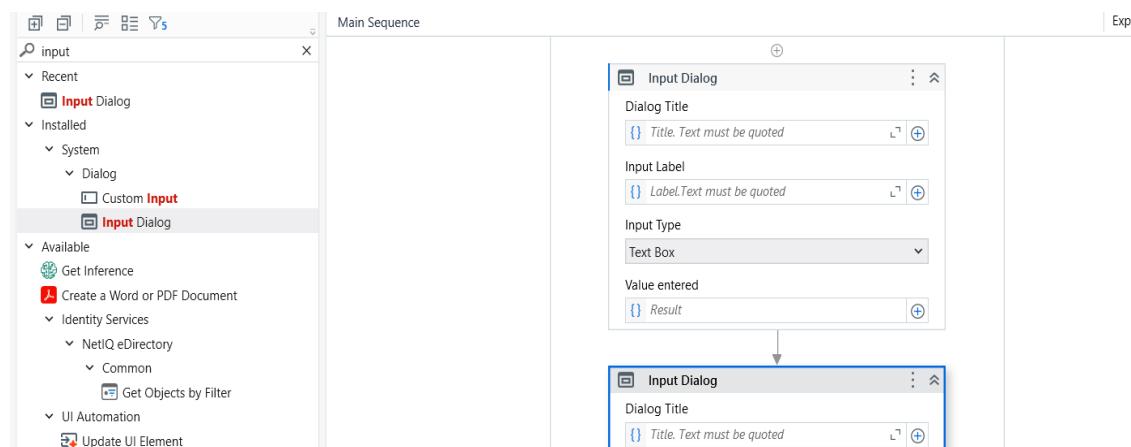
Step 1: Create new blank process and name the process as Practical 1B



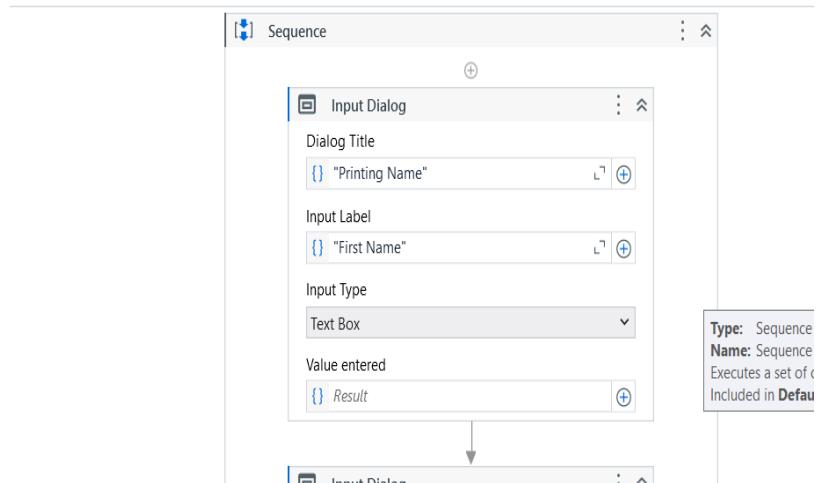
Step 2: In activities tab search for Flowchart and drag and drop into the main



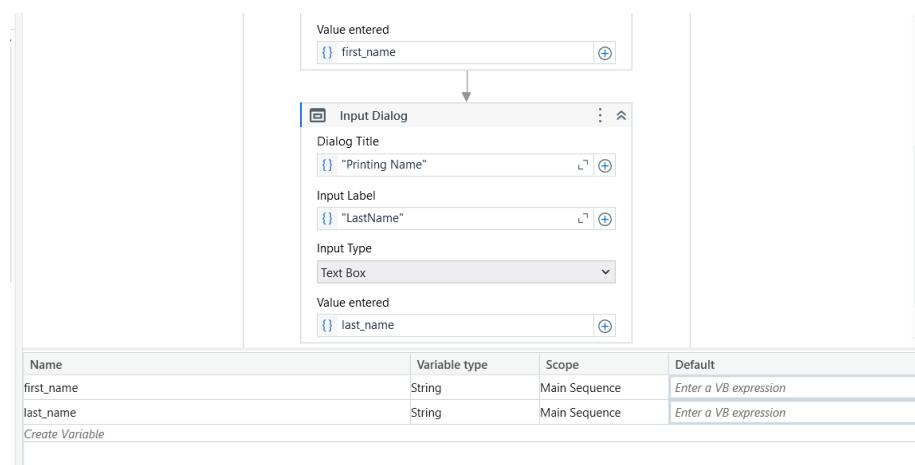
Step 3: Drag and drop 2 input dialog boxes into Flowchart box



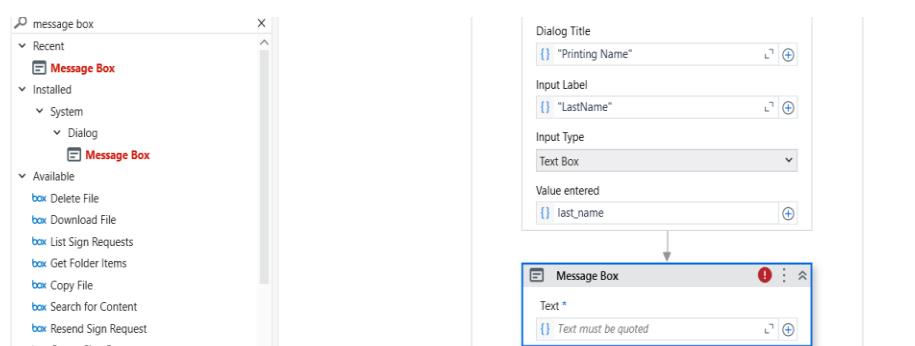
Step 4: Fill the details in input dialog box



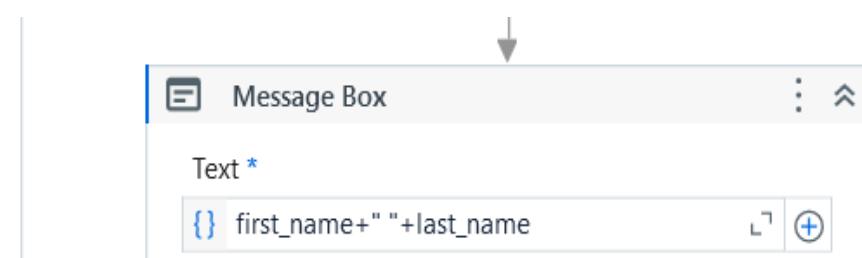
Step 5: Create two variables for taking input for first name and last name



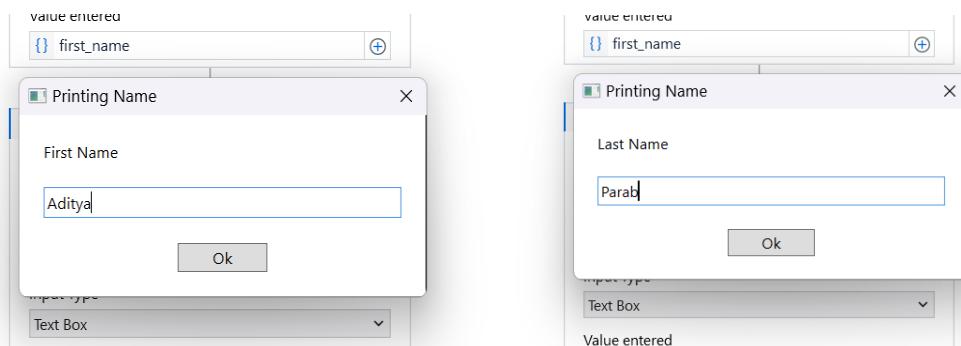
Step 6: Drag and drop the message box in Flowchart



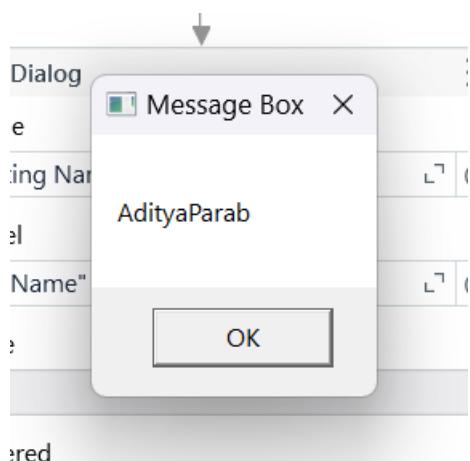
Step 7: Enter the value



Step 8: Debug the file and then enter the first name and last name



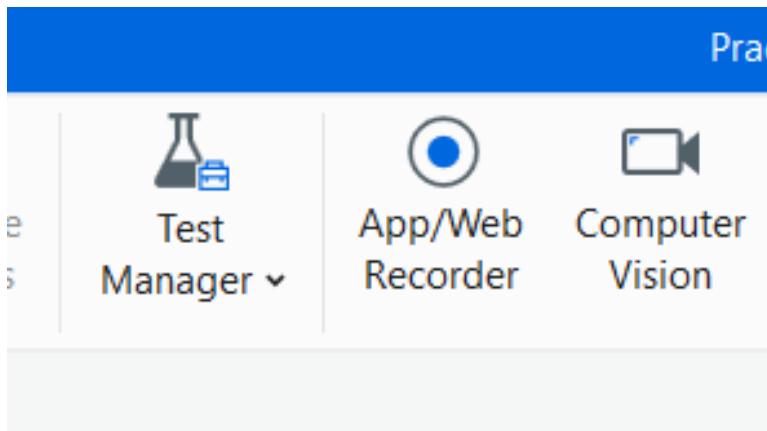
Step 9: Output



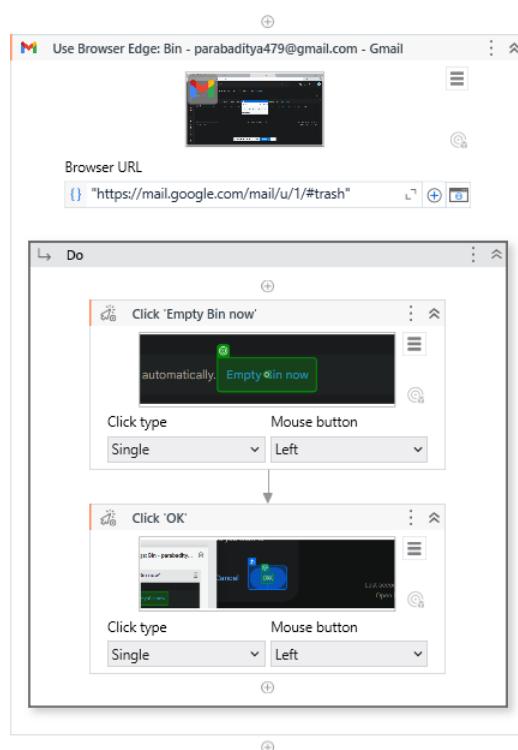
Practical No. 1C

Aim: Use Web Recorder to empty trash in Gmail.

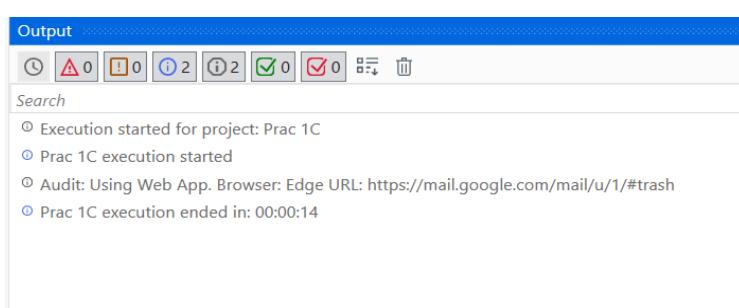
Step 1: Click on app and web recording option



Step 2: Start the recording and go to email and delete the emails in trash fold

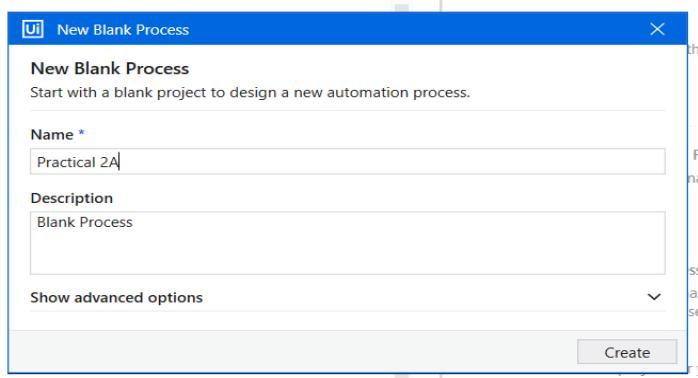


Step 3: Run the file again and it will automatically delete the trash in email box

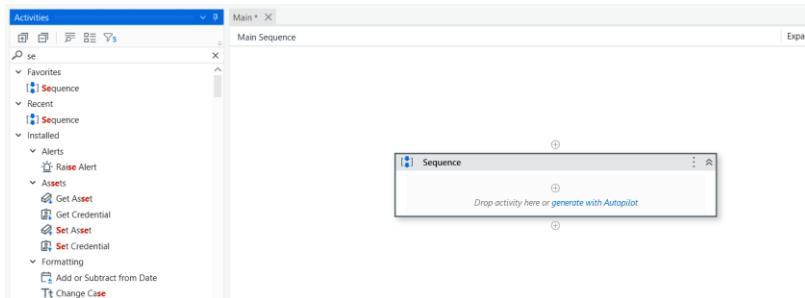


Practical No. 2A

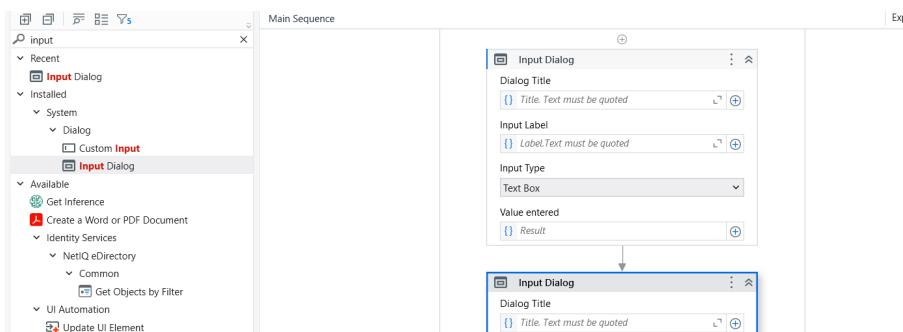
Step 1: Create new blank process and name the process as Practical 2A



Step 2: In activities tab search for sequence and drag and drop into the main



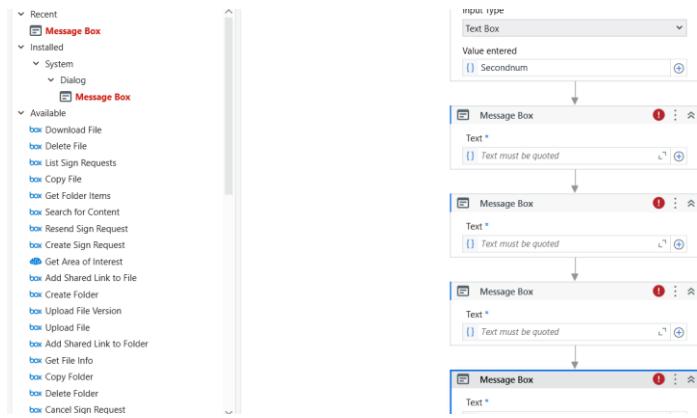
Step 3: Drag and drop 2 input dialog boxes into sequence box



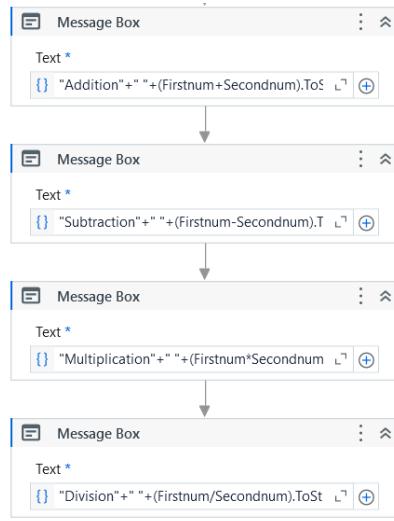
Step 4: Create 2 variables for number 1 and number 2

Name	Variable type	Scope	Default
Firstnum	Int32	Main Sequence	Enter a VB expression
Secondnum	Int32	Main Sequence	Enter a VB expression
Create Variable			

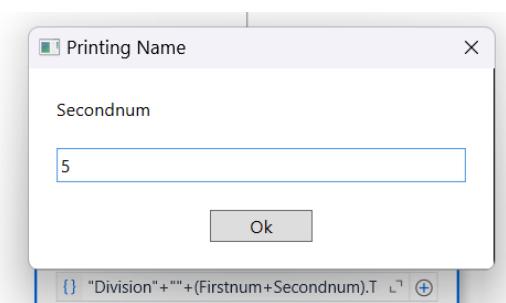
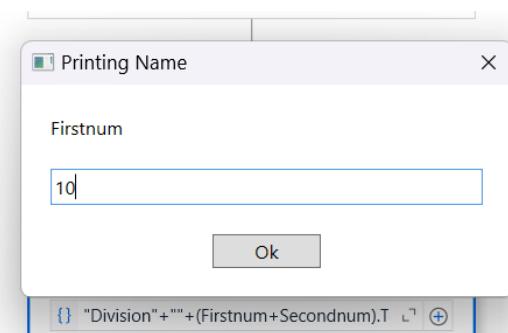
Step 5: Drag Message box 4 times for multiple operations

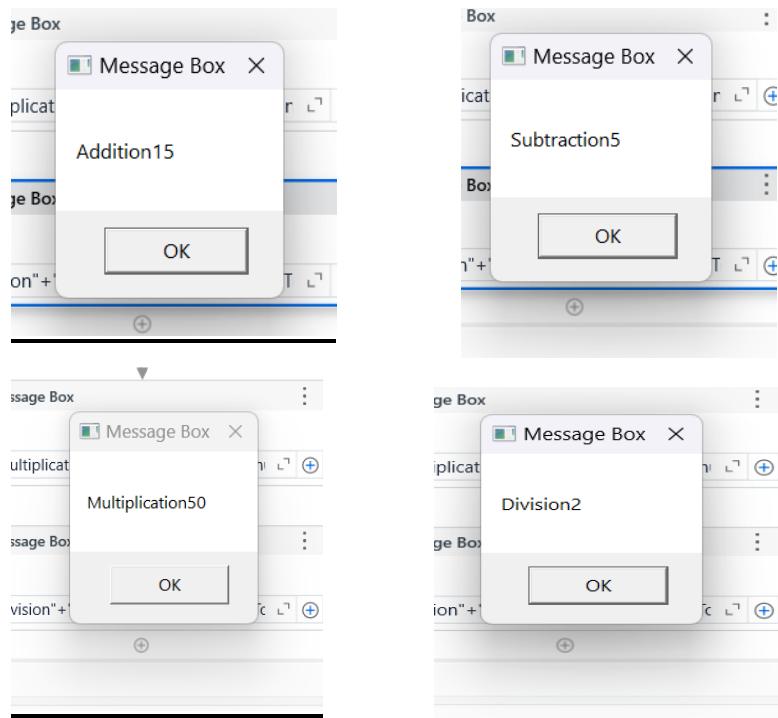


Step 6: Enter the message box values appropriately



Step 7: Debug the file and enter number 1 and 2

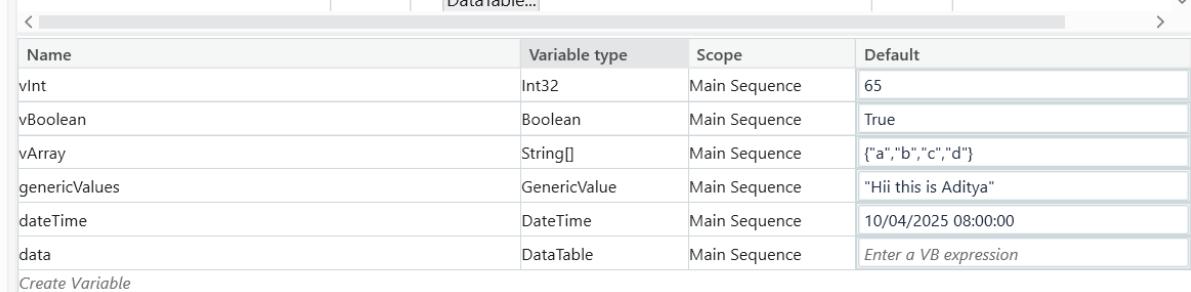




Practical No 2B

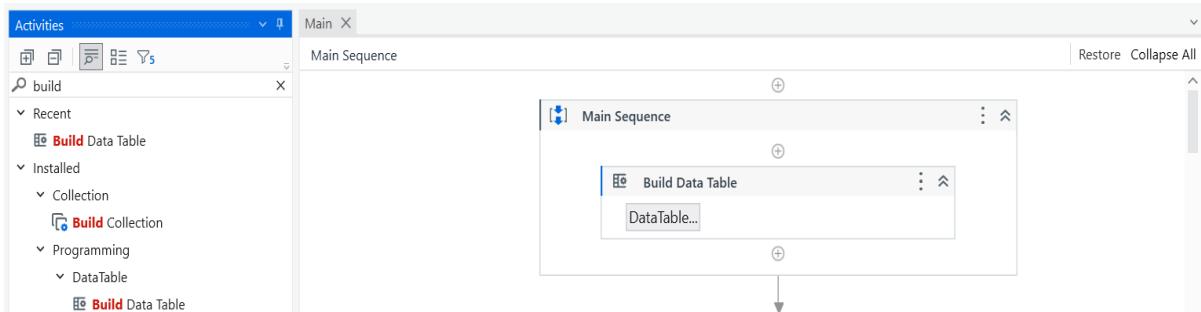
Aim: Create different types of variables (number, datetime, Boolean, generic, array, data table), provide default values, and show them in Message Box.

Step 1 : Create project and create variables for each datatype

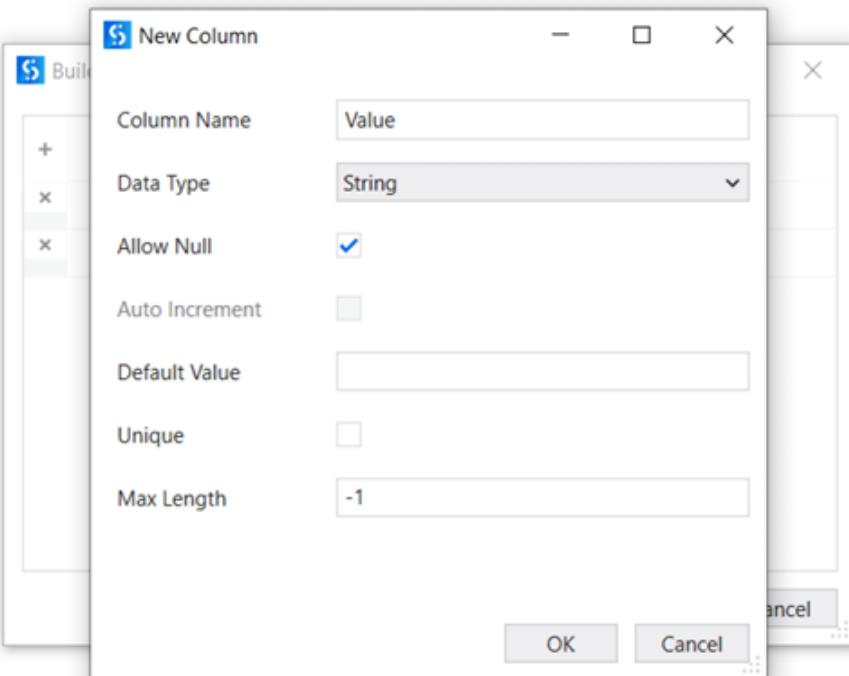


Name	Variable type	Scope	Default
vInt	Int32	Main Sequence	65
vBoolean	Boolean	Main Sequence	True
vArray	String[]	Main Sequence	{"a","b","c","d"}
genericValues	GenericValue	Main Sequence	"Hii this is Aditya"
dateTime	DateTime	Main Sequence	10/04/2025 08:00:00
data	DataTable	Main Sequence	Enter a VB expression

Step 2: Search for data table activity in the activity pane and drag it into the sequence

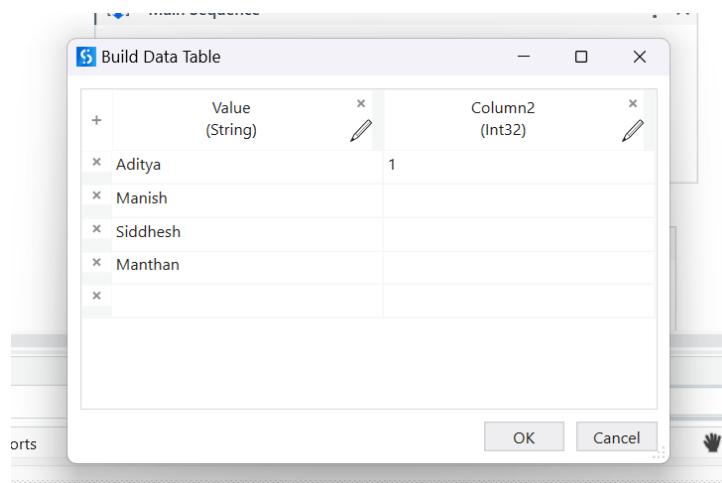


Step 3: Click on the data table and create one column

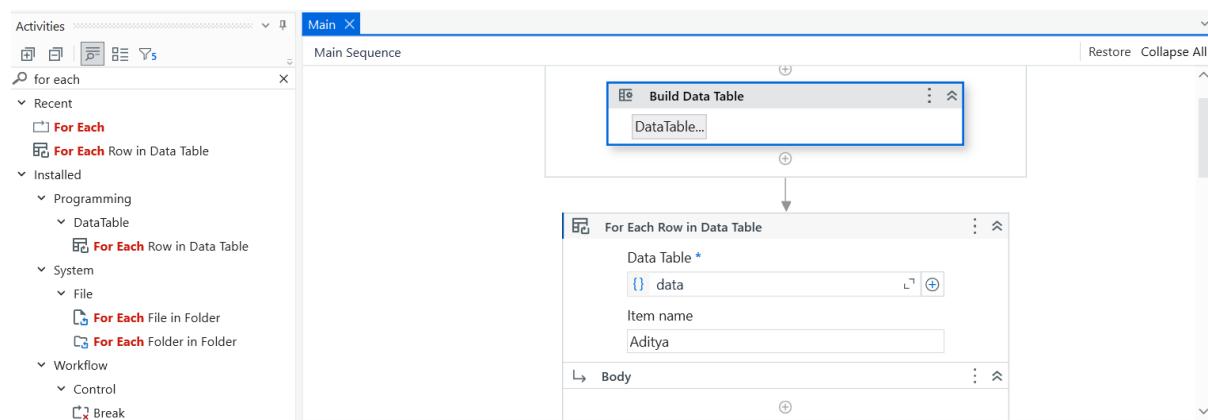


The screenshot shows the 'New Column' dialog box. The 'Column Name' field is set to 'Value'. The 'Data Type' dropdown is set to 'String'. The 'Allow Null' checkbox is checked. The 'Max Length' field is set to '-1'. At the bottom, there are 'OK' and 'Cancel' buttons.

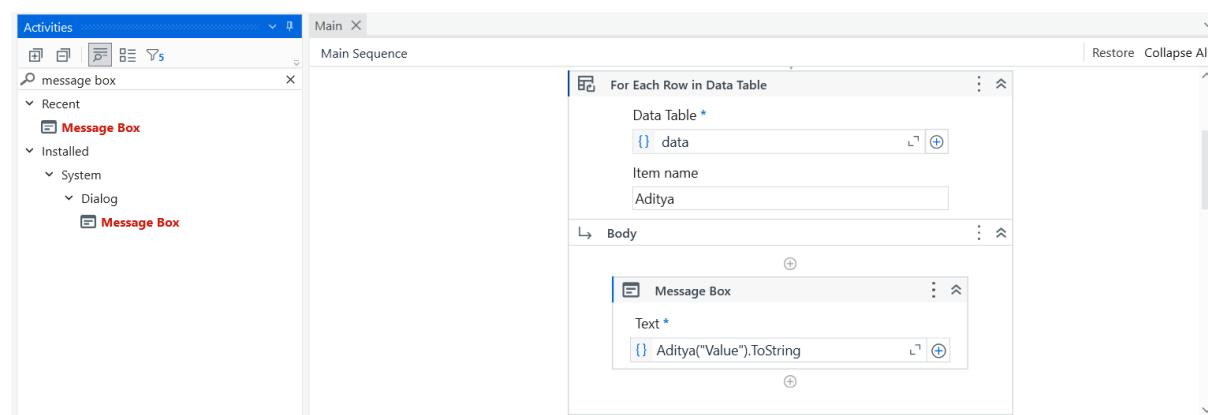
Step 4: Give the names of some people as value



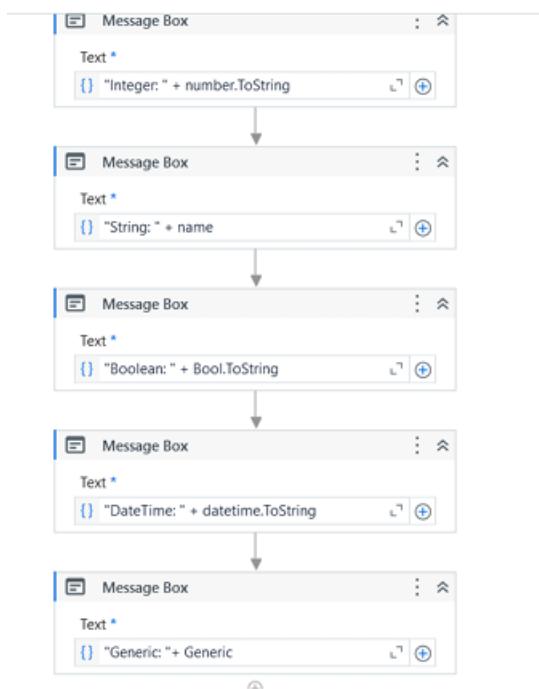
Step 5: Search for Each Row in data table and pass the variable data in it



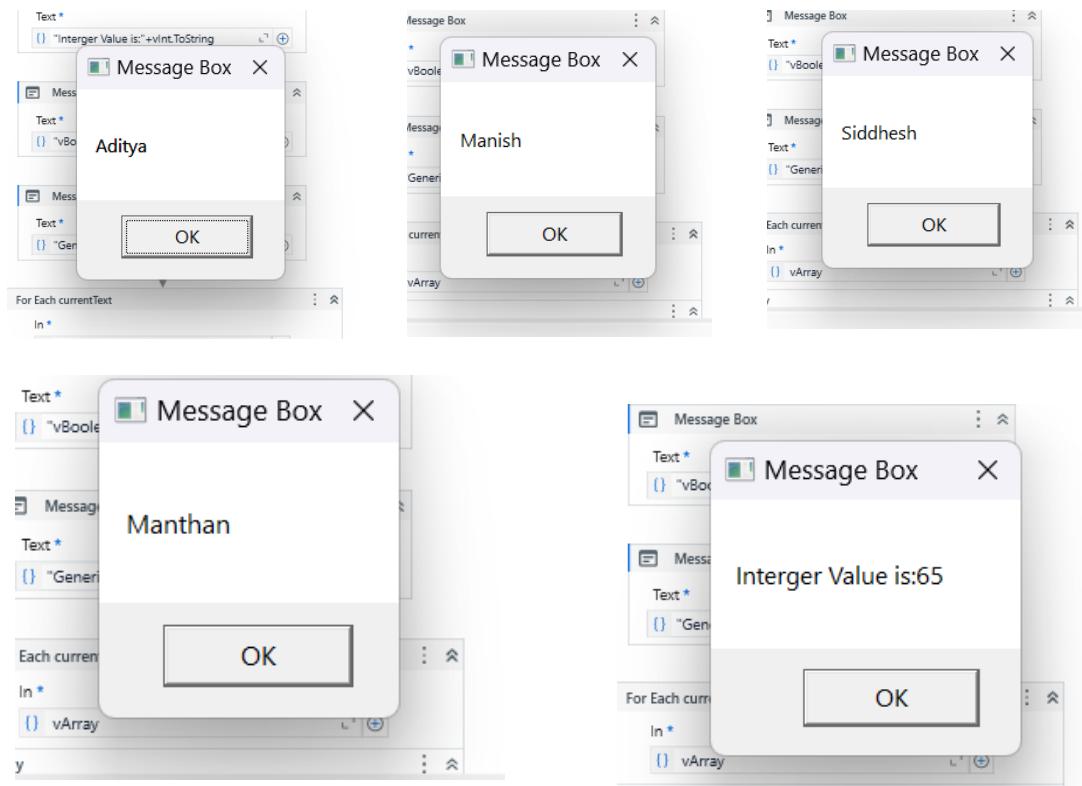
Step 5: add multiple message box for various datatypes

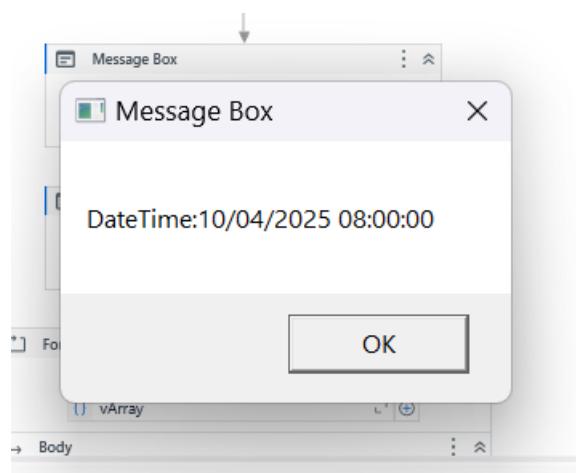
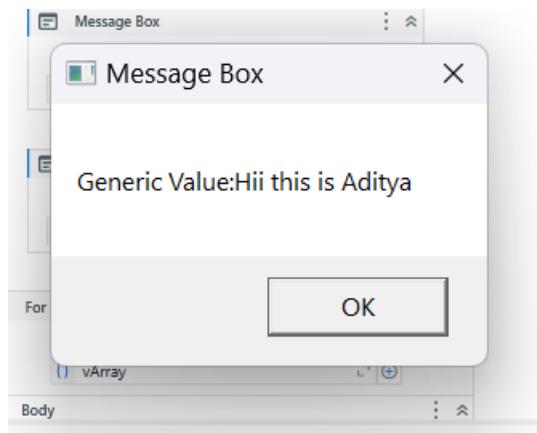
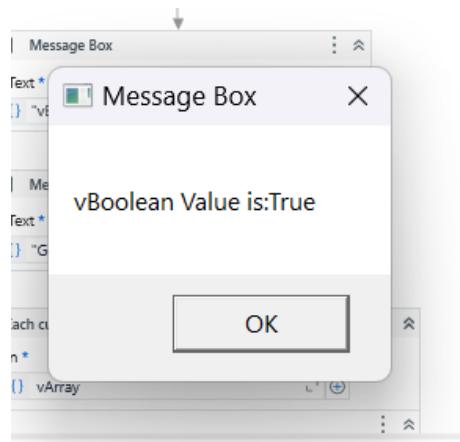


Step 6: Add the appropriate values in the message box



Step 7: Debug the file and get the output

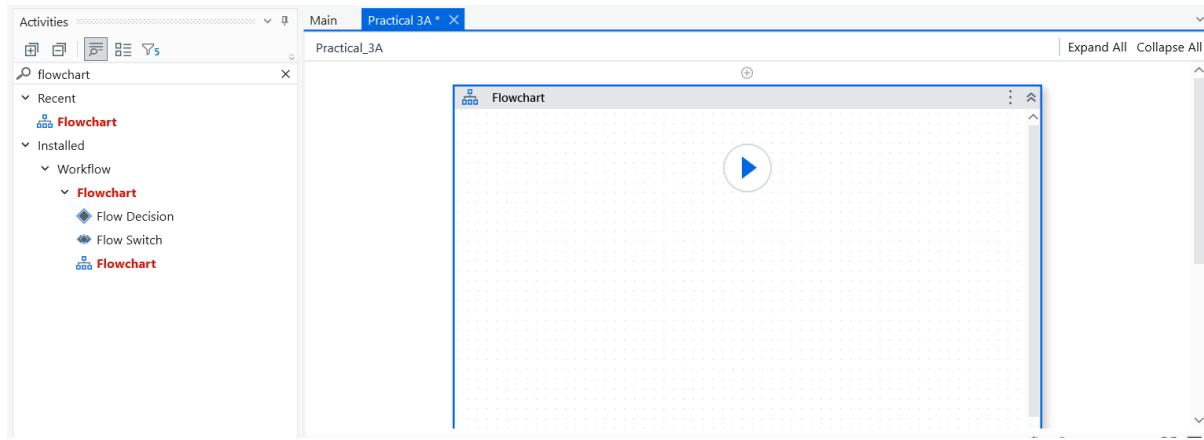




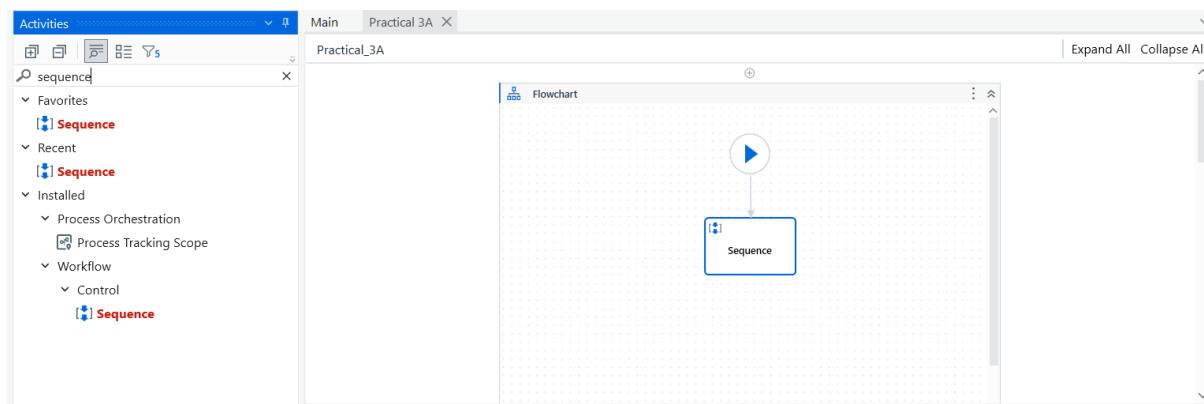
Practical No. 3A

Aim: Create an automation UiPath Project using decision statements.

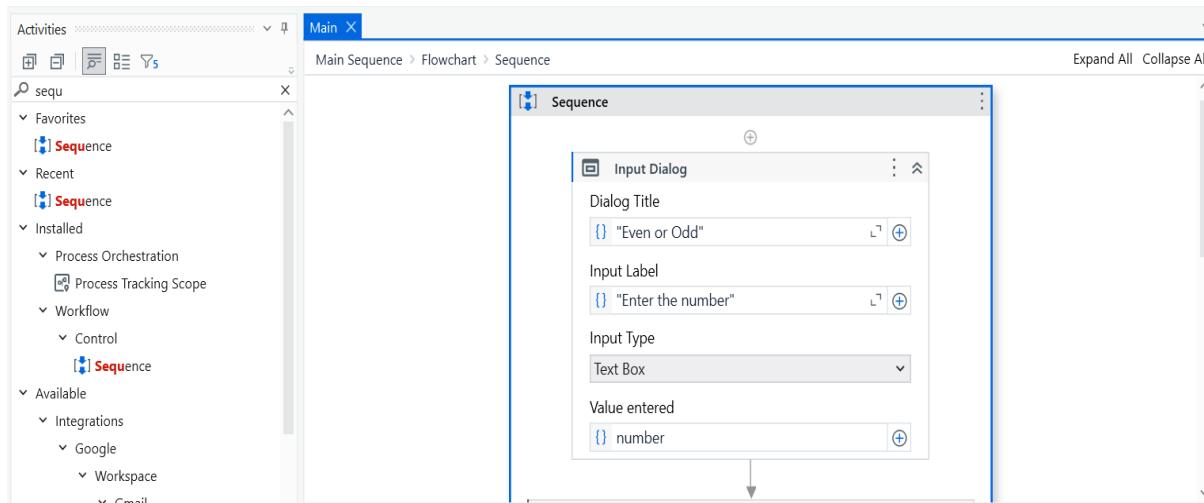
Step 1: Drag and drop flowchart in main container



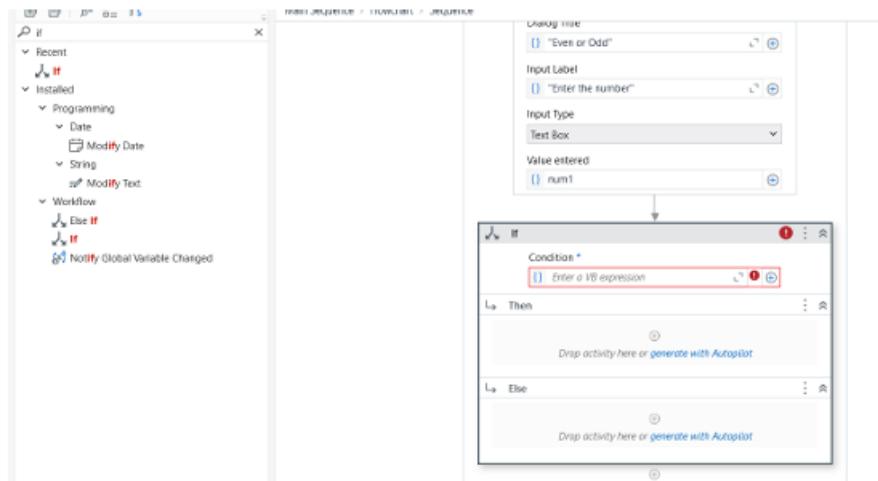
Step 2: Drag and drop sequence in container and connect with flowchart star button



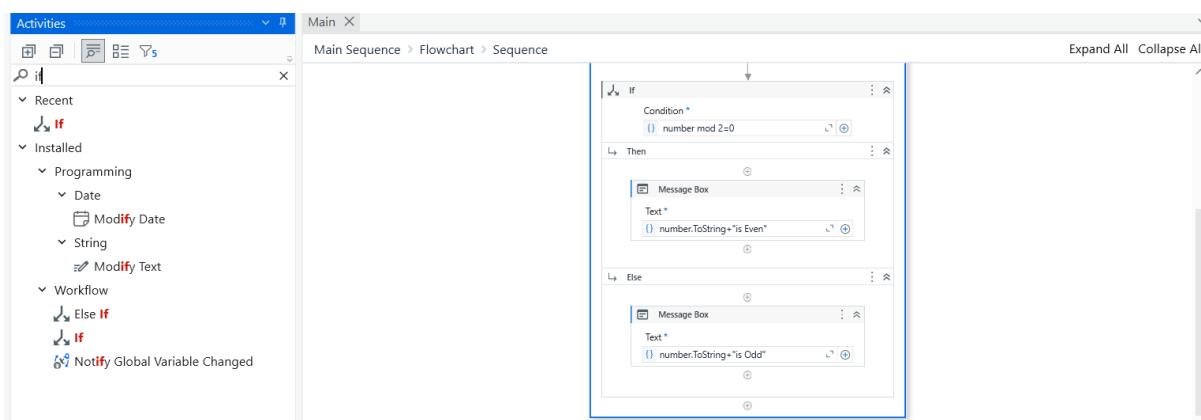
Step 3: Drag and drop input dialog box into sequence and create one variable of datatype integer



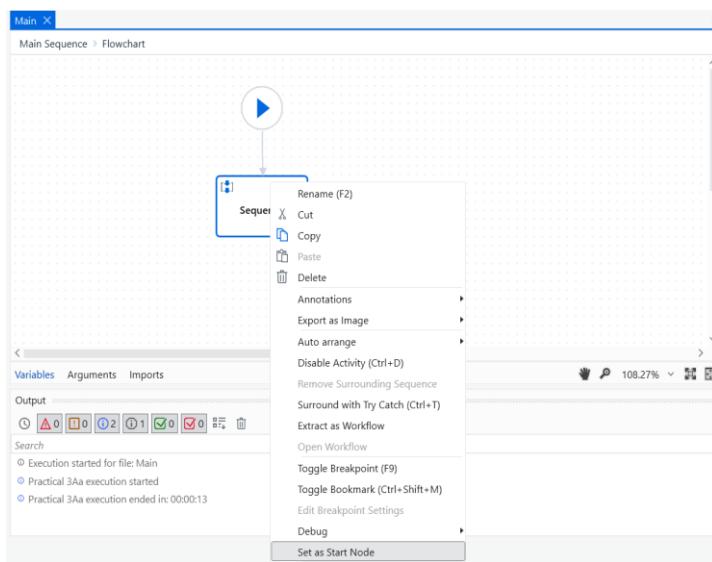
Step 4: Drag and drop if activity in the sequence



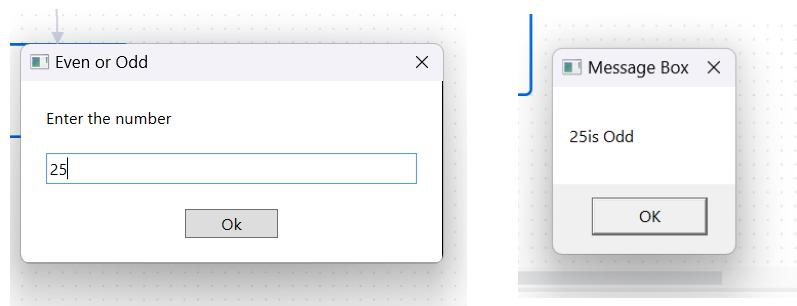
Step 5: Give condition for even and odd number and add message in if and then block



Step 6: Right click o sequence and set as start node



Step 7: Debug and run the file



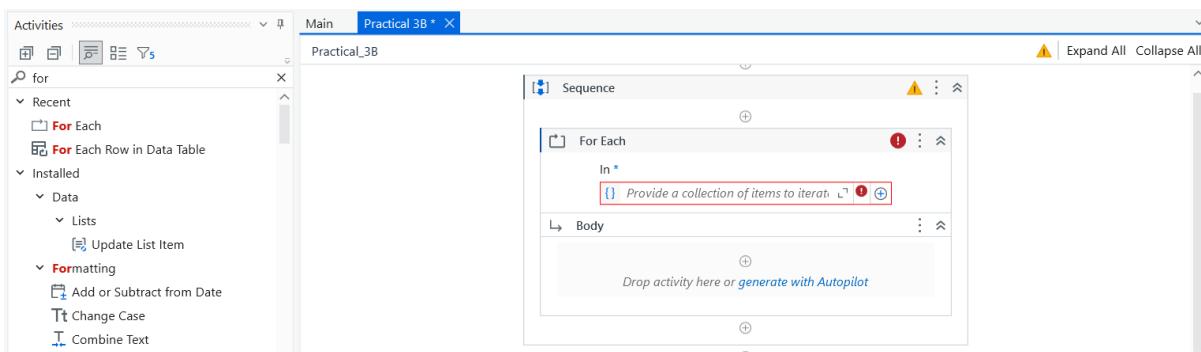
Practical No 3B

Aim: Create an automation UiPath Project using looping statements (Dummy list of fruits).

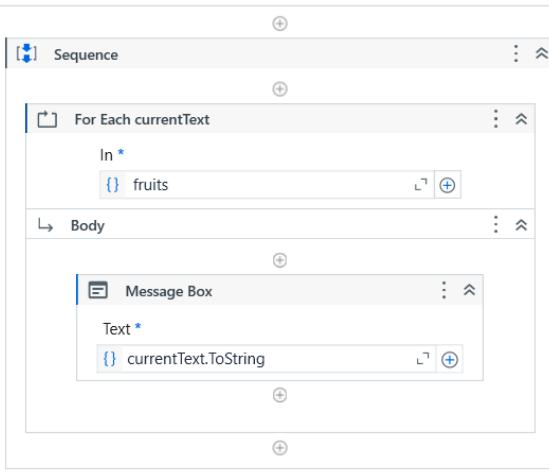
Step 1: Create new project and create one array of names of fruits

Name	Variable type	Scope	Default
fruits	String[]	Practical_3B	{"Watermelon", "Mango", "Guava"}

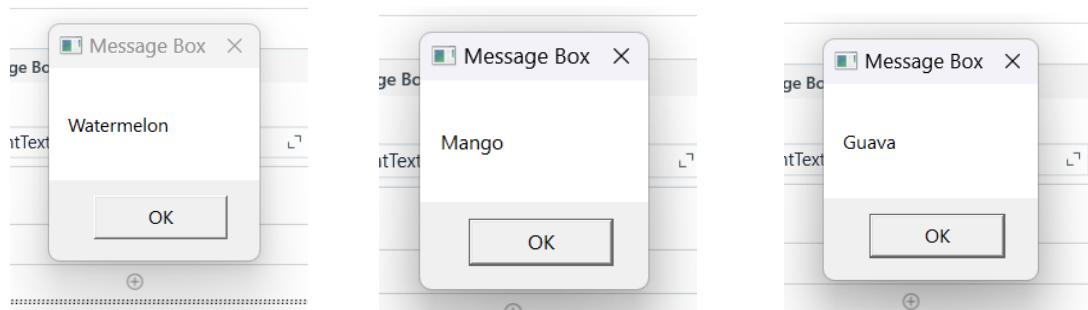
Step 2: Drag for each activity from the activity pane



Step 3: Add message box and iterate over the list of values and display it



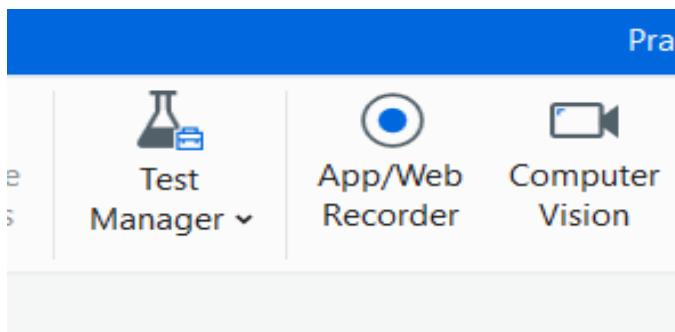
Step 4: Debug the file



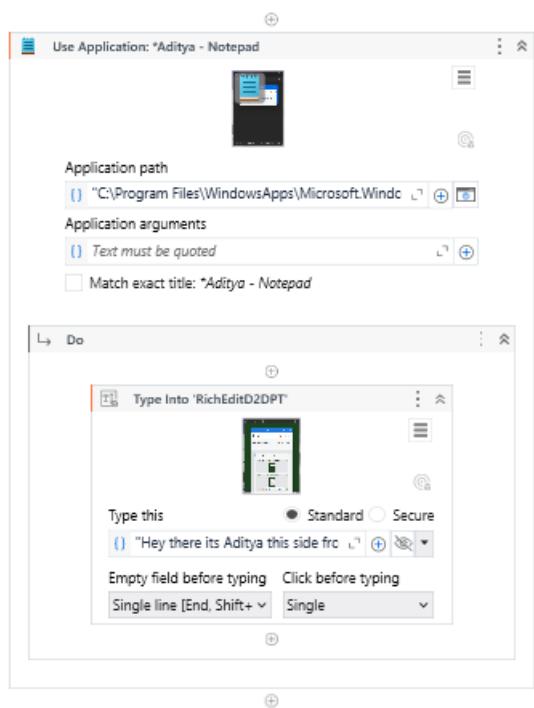
Practical No 4

Aim: Automate any process using basic recording (Existing Notepad)

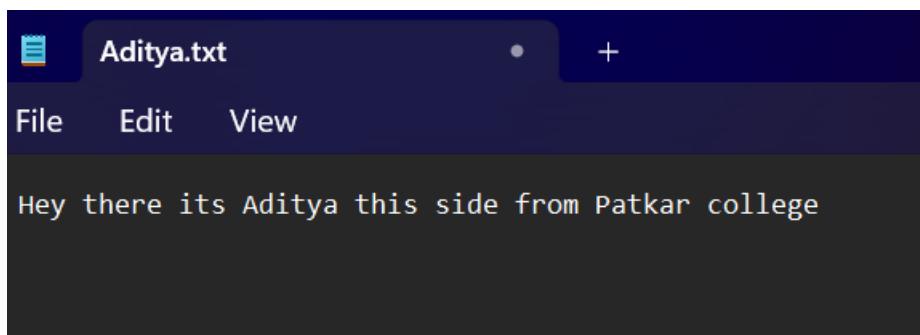
Step 1: Create new project and then click on record button to start the recording



Step 2: Start the recording open the notepad and it will give prompt for desired text so fill the input and save the recording



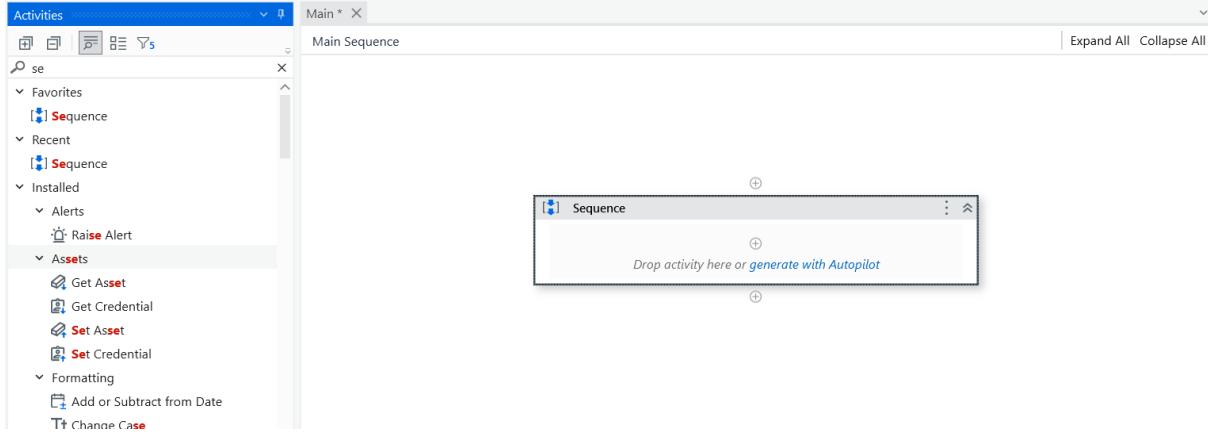
Step 3: Debug the file and see the output in Notepad



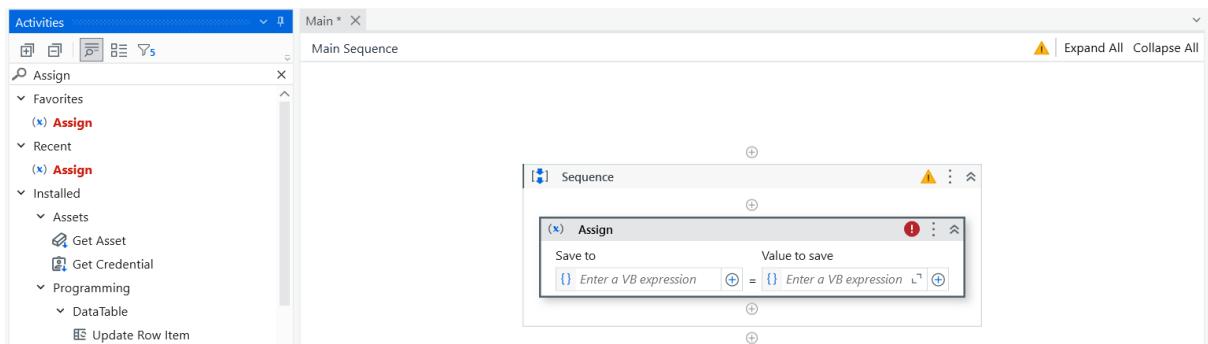
Practical No 5

Aim: Consider an array of names. We must 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.

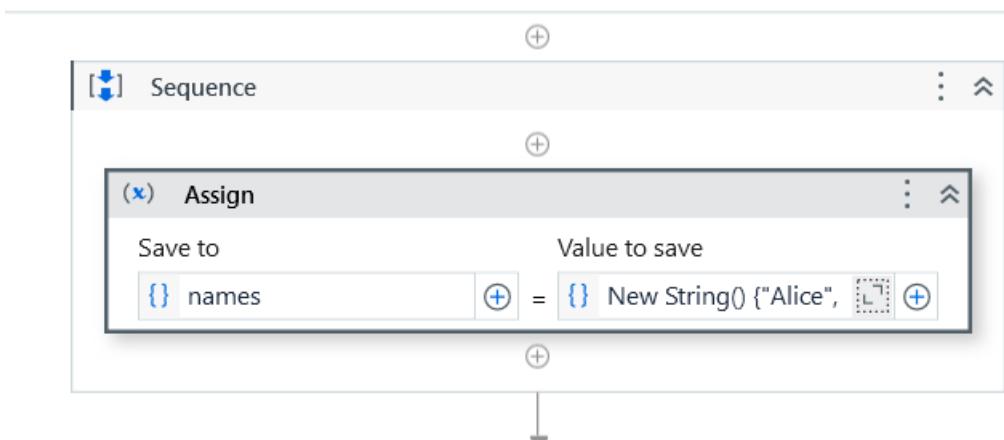
Step 1: Create new project and add a sequence into main container



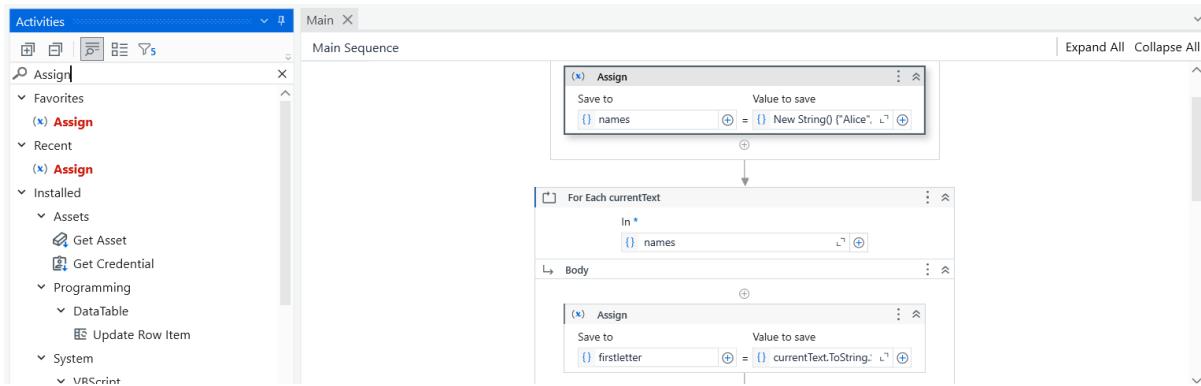
Step 2: Search for assign activity in activity pane and add assign in sequence box



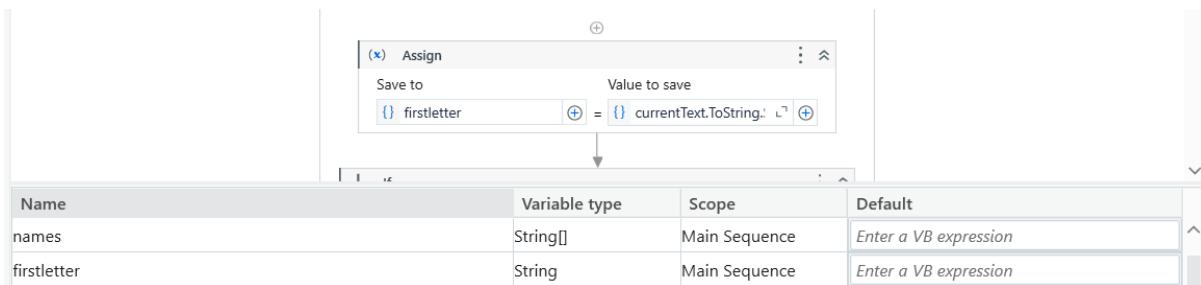
Step 3: Create a variable and assign the values to it



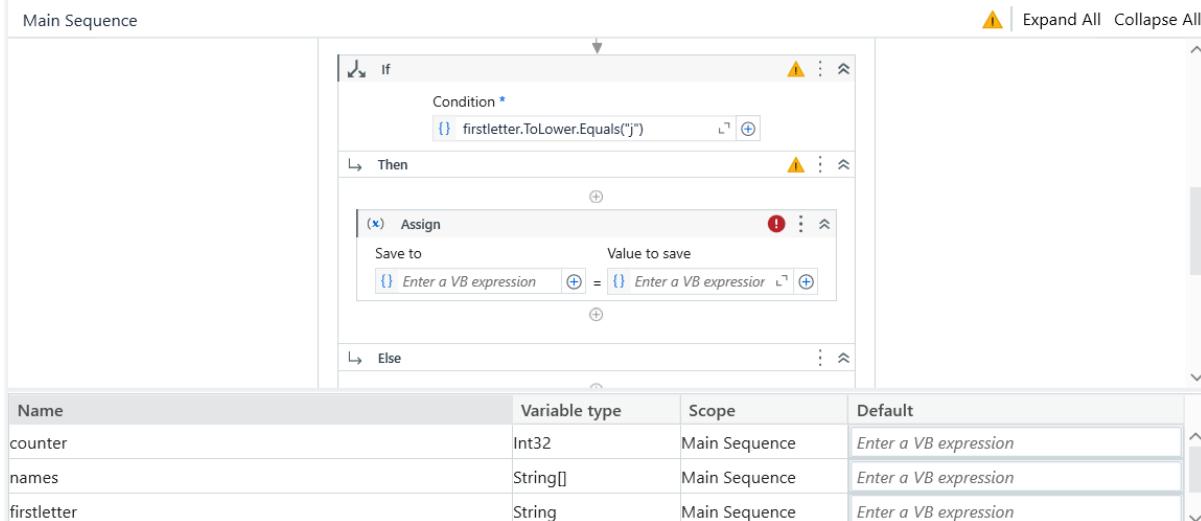
Step 4: Drag and drop for each loop and add assign activity into it



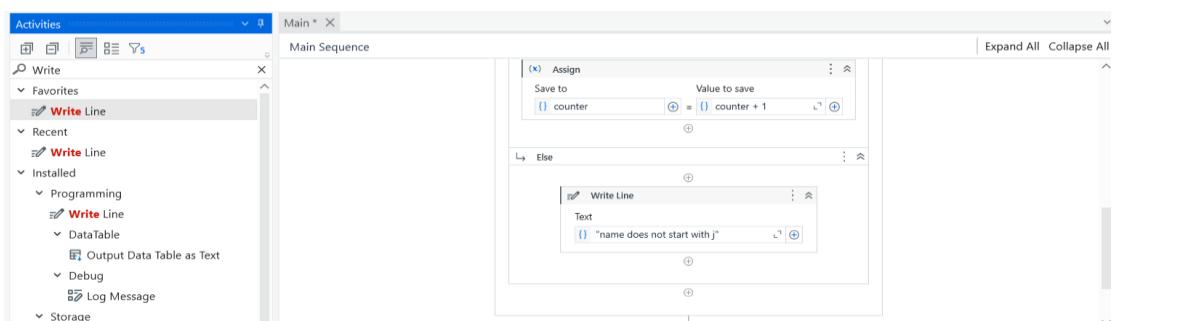
Step 5: Create one more variable name first letter to store the first variable of the name



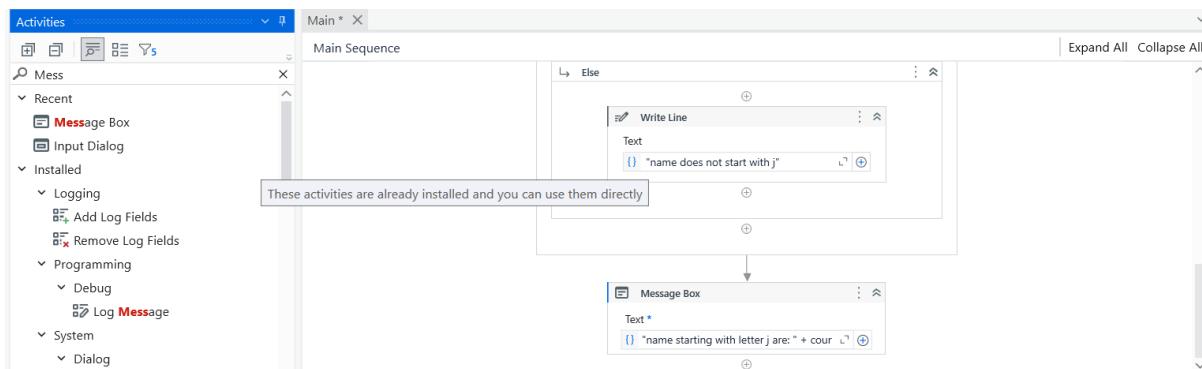
Step 6: Add if activity into for Loop body and then add if condition and create one variable for counting the names that start with "j"



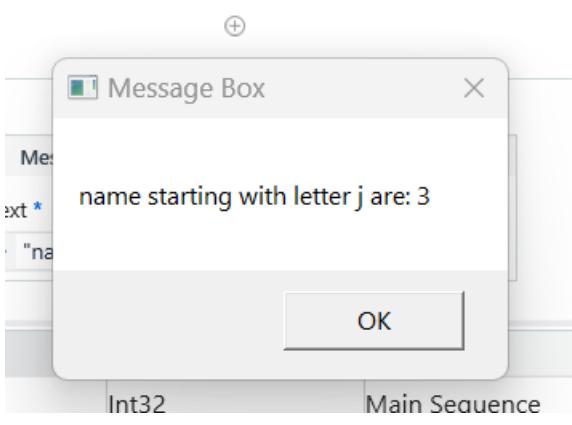
Step 7: Add Write Line activity into then block



Step 8: Add message activity into sequence box and then add display the counter



Step 9: Debug the file



Practical No 6A

Practical Aim: Create an application automating read, write, and append operations on an Excel file.

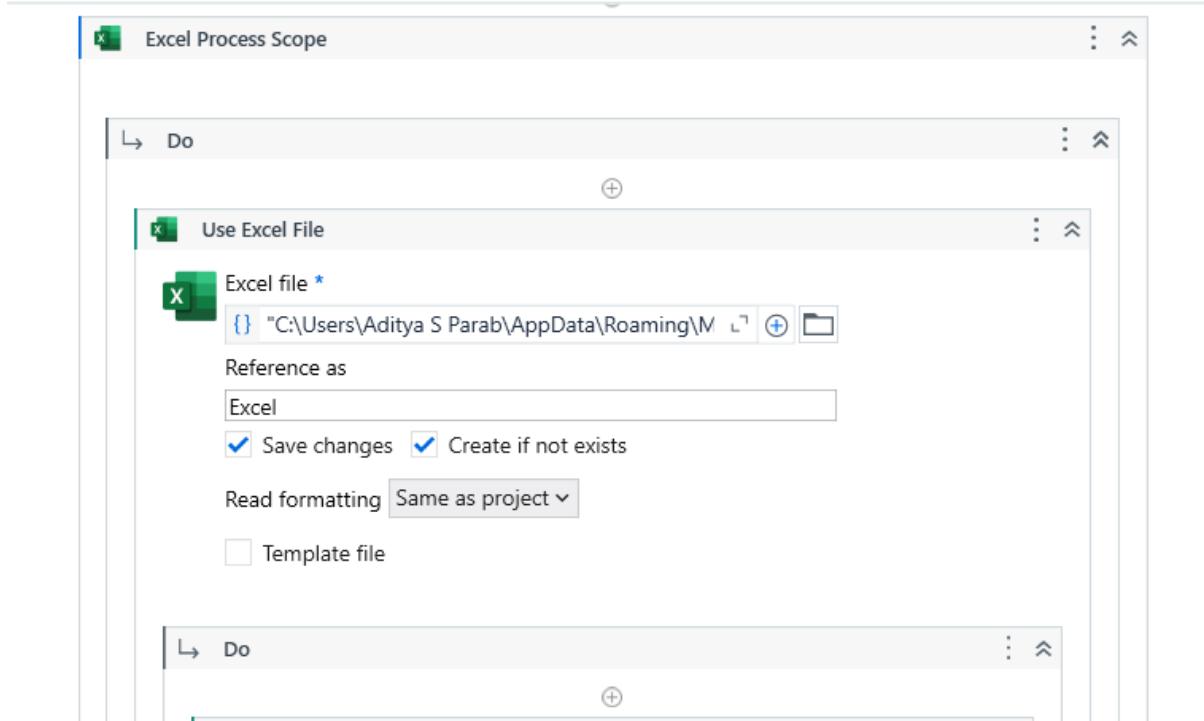
Steps to Solve:

Step 1: Create an demo excel file with sample data

	A	B	C	D	E	F
1	EmpID	FirstName	LastName	Salary	Expenses	Savings
2	101	Aditya	Parab	100000	20000	
3	102	Manish	Parab	200000	35000	
4	103	Siddhesh	Teli	700000	40000	
5	104	Vighnesh	Tawde	300000	18000	
6	105	Manthan	Patekar	500000	30000	

Step 2: Create New Process

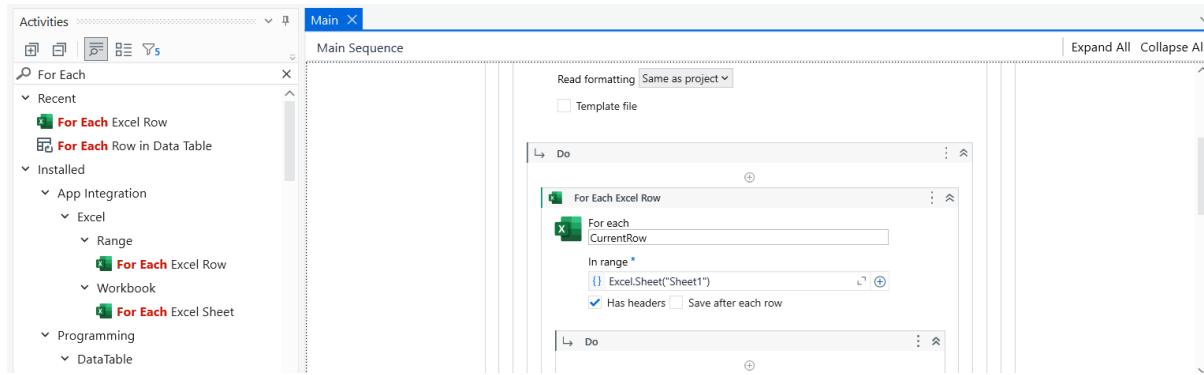
Add Excel Process Scope And Use Excel File Activities and select Demo Excel file.



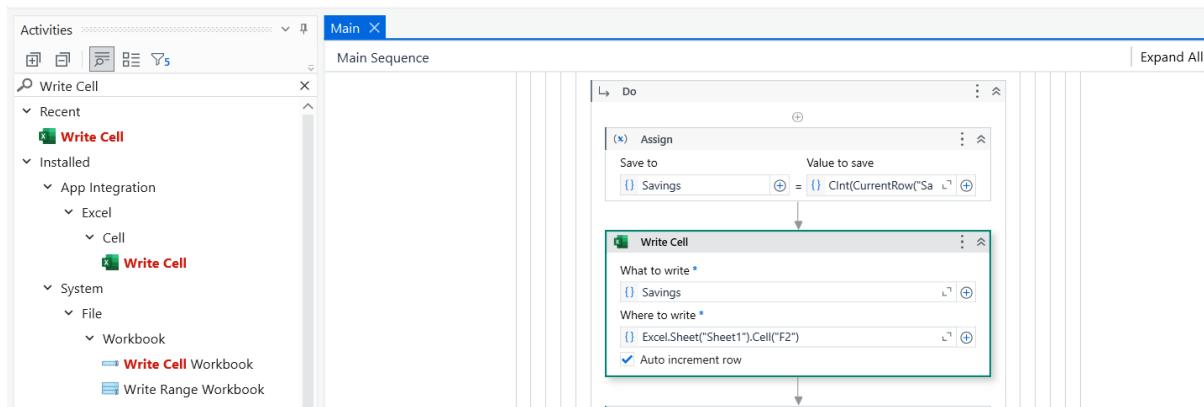
Step 3: Create one variable as Savings.

Name	Variable type	Scope	Default
variable1	String	Main Sequence	Enter a VB expression
Savings	Int32	Main Sequence	Enter a VB expression

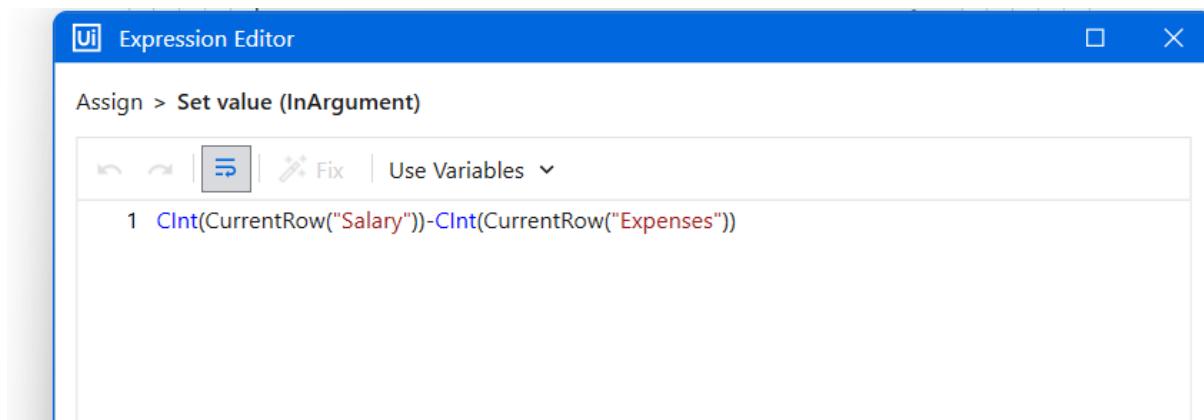
Step 4: Add For Each Excel Row.



Step 5: Add Write Cell And Tick on Auto Increment row.



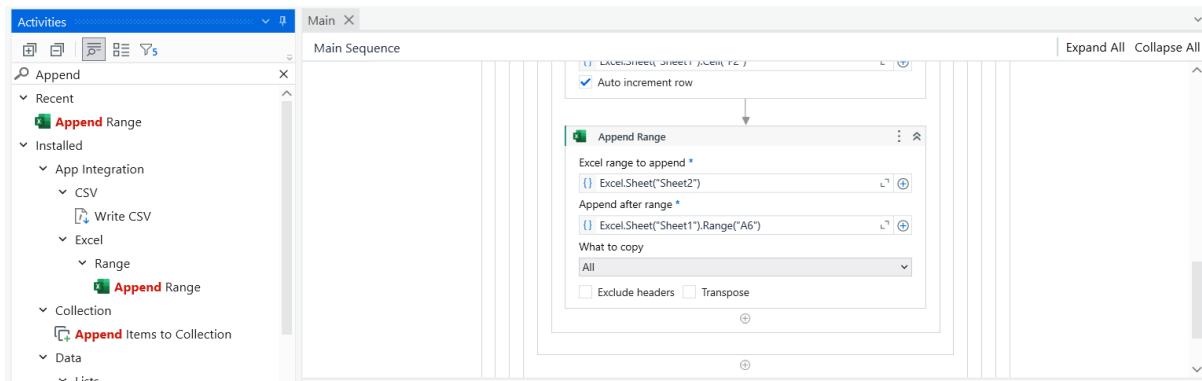
Step 6: Write this inside Assign.



Step 7: Create Dummy data in other sheet in excel to append

	A	B	C	D	E	F
1	106	Aditya	Bane	50000	10000	
2	107	Leon	Crow	100000	20000	

Step 8: Add Append range activity and specify the range to append the values



Step 9: Click on Run File option and get the output in excel

	A	B	C	D	E	F
1	EmpID	FirstName	LastName	Salary	Expenses	Savings
2	101	Aditya	Parab	100000	20000	80000
3	102	Manish	Parab	200000	35000	165000
4	103	Siddhesh	Teli	700000	40000	660000
5	104	Vighnesh	Tawde	300000	18000	282000
6	105	Manthan	Patekar	500000	30000	470000
7	106	Aditya	Bane	50000	10000	40000
8	107	Leon	Crow	100000	20000	80000

Output

(C) (A) 0 (D) 0 (I) 3 (I) 1 (G) 0 (R) 0 (W)

Search

- ① Execution started for file: Main
- ① Practical 6Aa execution started
- ① Audit: Using Excel File: C:\Users\Aditya S Parab\AppData\Roaming\Microsoft\Windows\Network Shortcuts\Salary.xlsx
- ① Practical 6Aa execution ended in: 00:00:06

Practical No 6B

Practical Aim: Automate the process of extracting data from an Excel file into a data table and vice versa.

Step 1: Create a new UiPath process.

Create 2 Excel files one with data and one blank.

	A	B	C	D
1	Name	Salary	Expense	Savings
2	Aditya	50000	10000	40000
3	Kaustubh	40000	20000	20000
4	Aryan	30000	5000	25000
5	Kunal	20000	10000	10000
6	Manthan	10	7	3

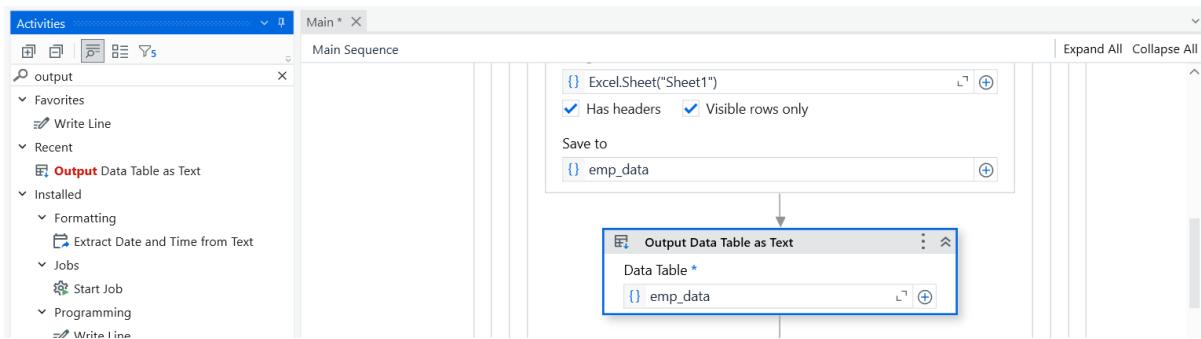
Step 2: Variables

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

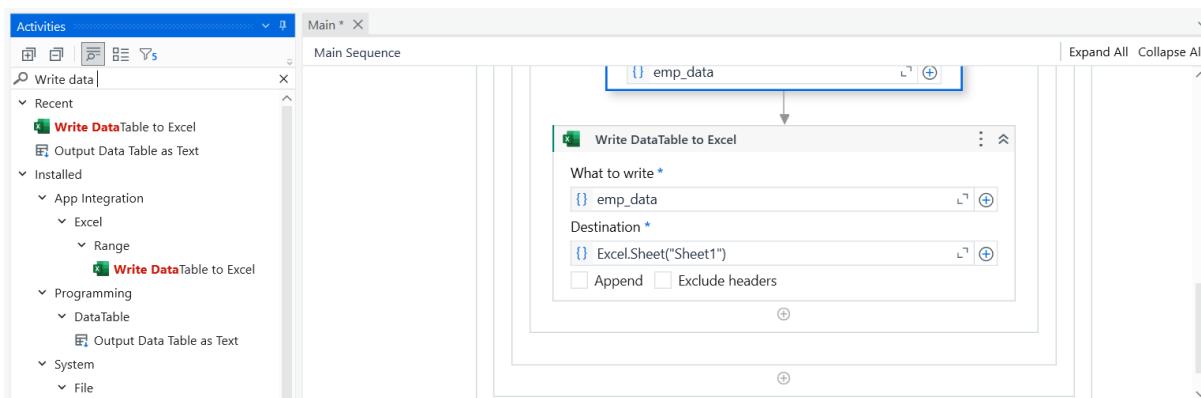
Step 3: Add Excel Process Scope and Use Excel File and select file with data.

Step 4: Add Read Range and select excel file.

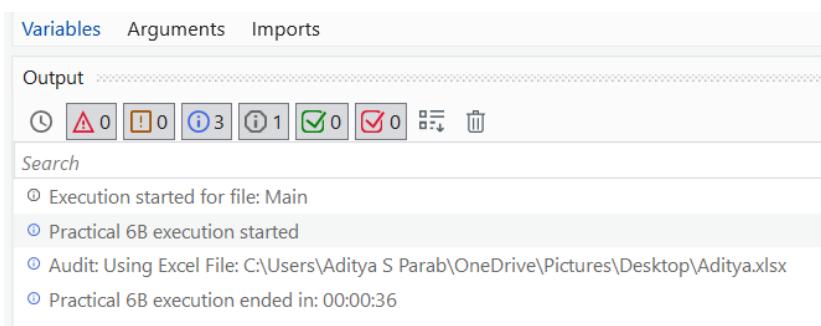
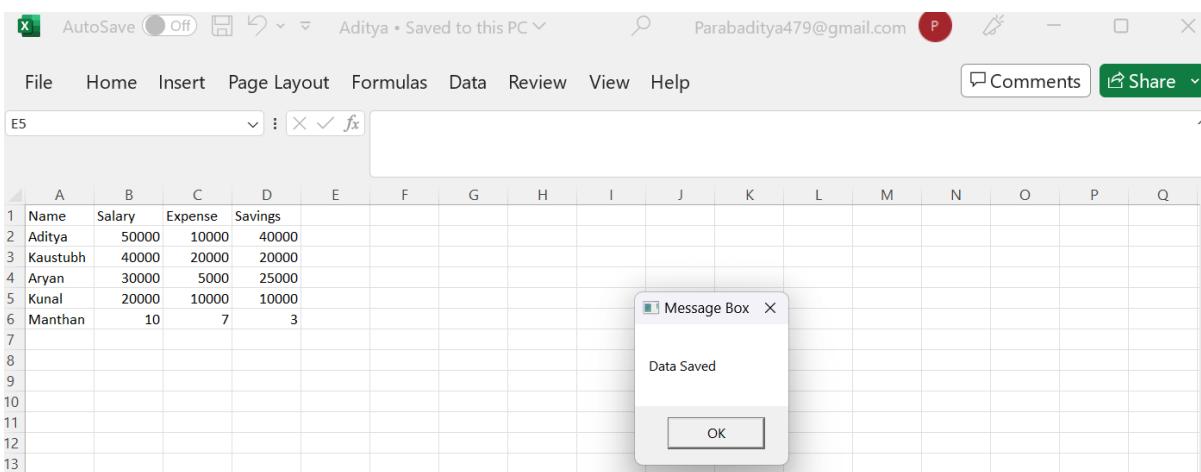
Step 5: Add “Output Data Table To Text” Activity.



Step 6: Add “Write DataTable to Excel” Activity.



Step 7: Output

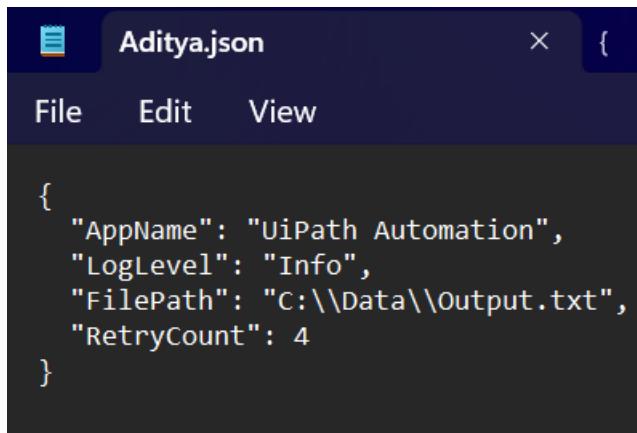


Practical No 7A

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

- a) JSON Config File

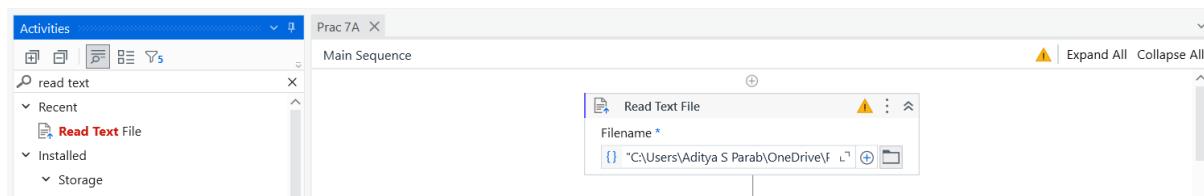
Step 1: Open Notepad or any text editor and Create the JSON Config File.



```
{
  "AppName": "UiPath Automation",
  "LogLevel": "Info",
  "FilePath": "C:\\Data\\output.txt",
  "RetryCount": 4
}
```

Step 2: Open UiPath Studio and create a new process.

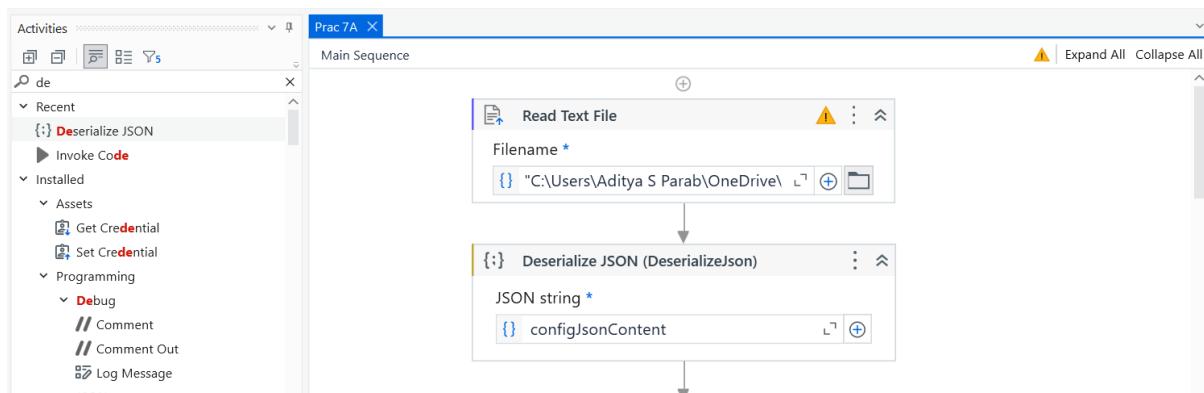
Search for "Read Text File" and drag it into your main workflow.



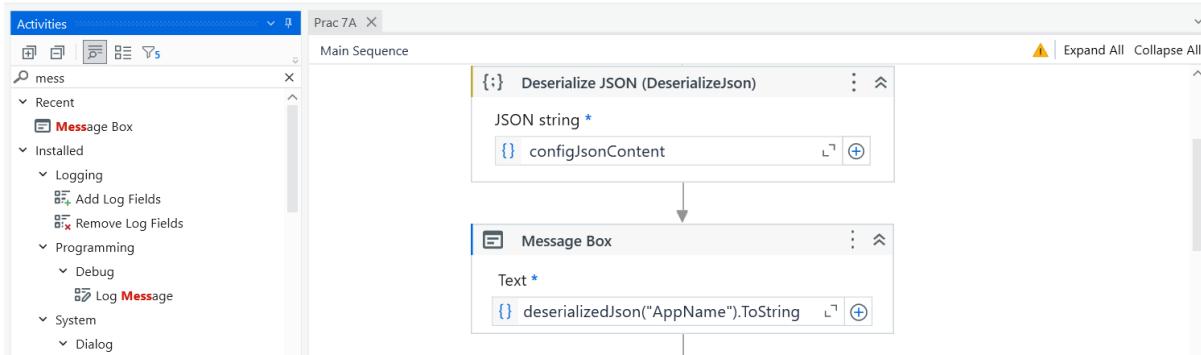
Step 3: Create Variables

Name	Variable type	Scope	Default
configJsonContent	String	Main Sequence	Enter a VB expression
deserializedJson	JObject	Main Sequence	Enter a VB expression
<i>Create Variable</i>			

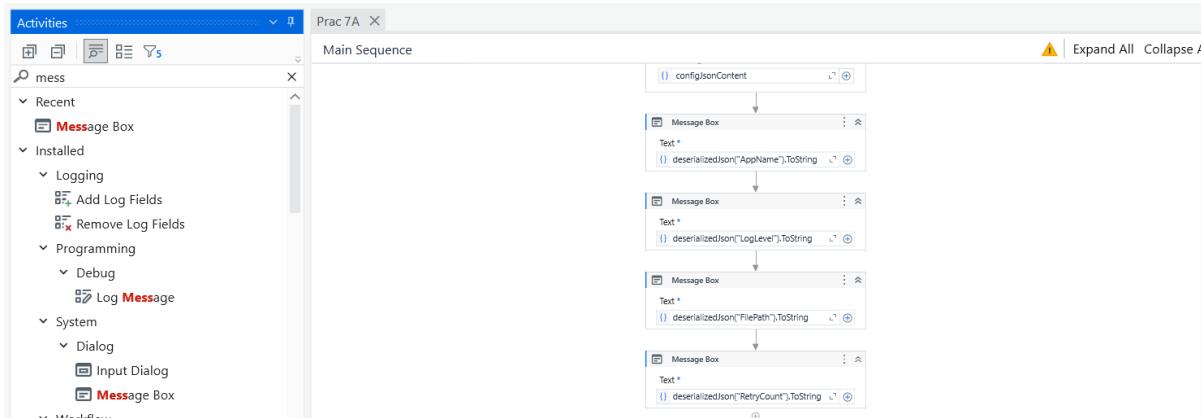
Step 4: Search for "Deserialize JSON" and drag it into your workflow.



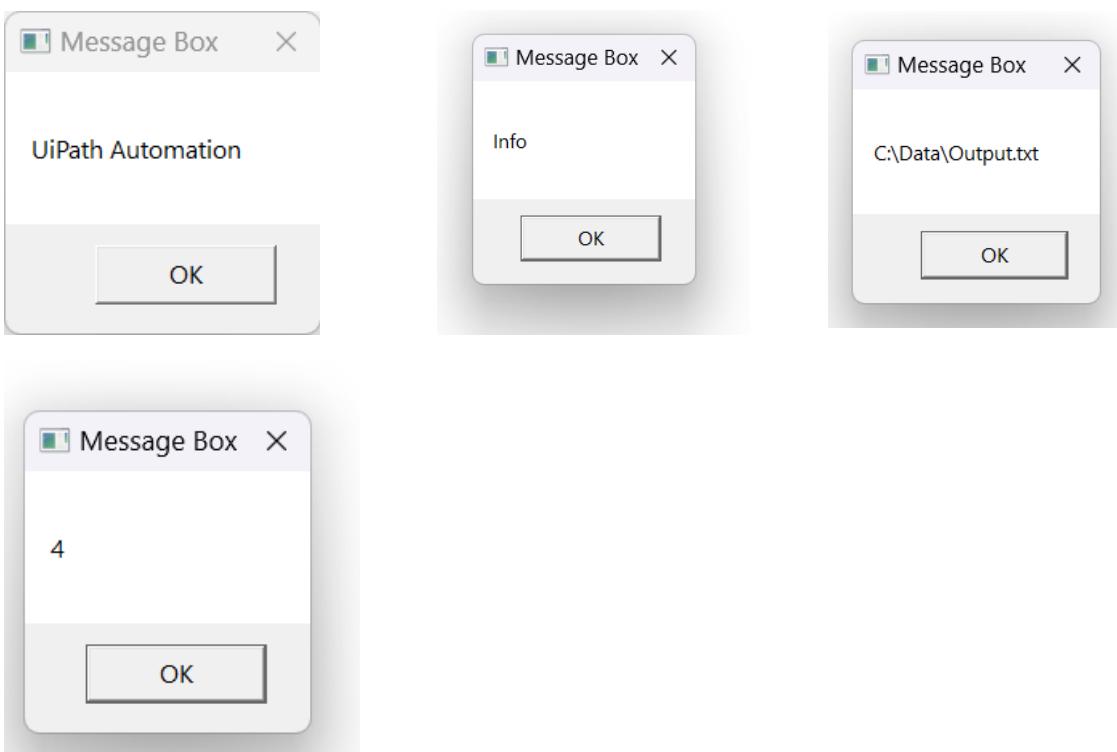
Step 5: Add Message Box activities to display the values.



Step 6: MessageBox



Step 7: Output



Practical No 7B

Aim : Aim : Automate the following screen scraping methods using UiPath Full Test (Invoice PDF) Extract and put value in Excel.

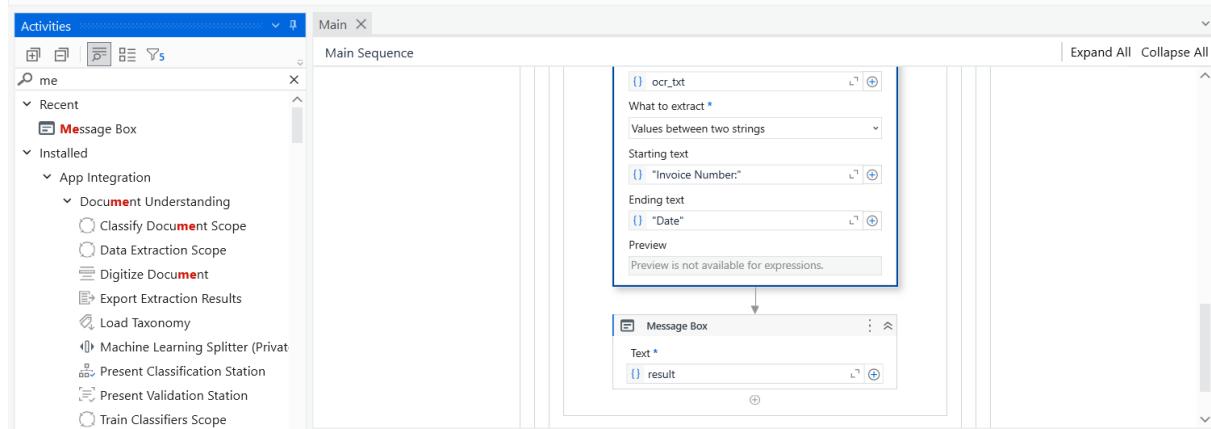
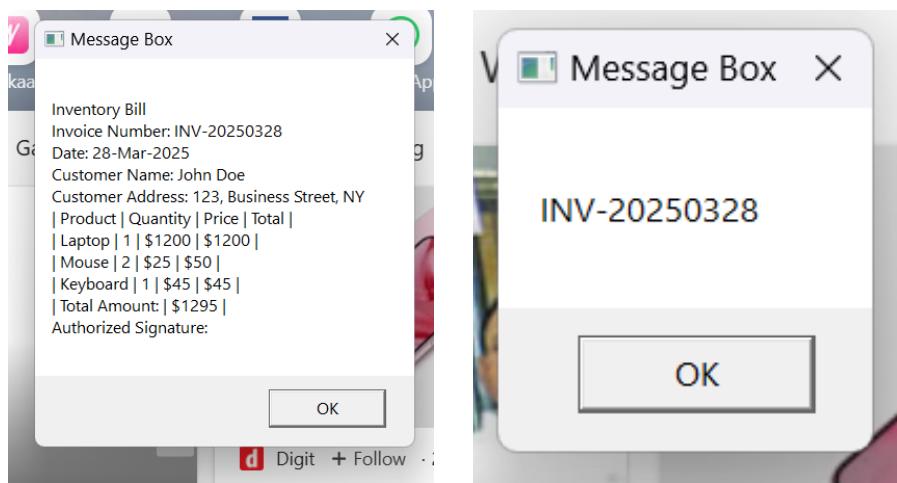
Step 1: Create Variables

Name	Variable type	Scope	Default
ocr_txt	String	Do	Enter a VB expression
result	String	Do	Enter a VB expression
<i>Create Variable</i>			

Step 2: Add For Each File In Folder and select folder with invoice pdf.

Step 3: Add Use Application/Browser And Use any browser which has uipath browser extention.

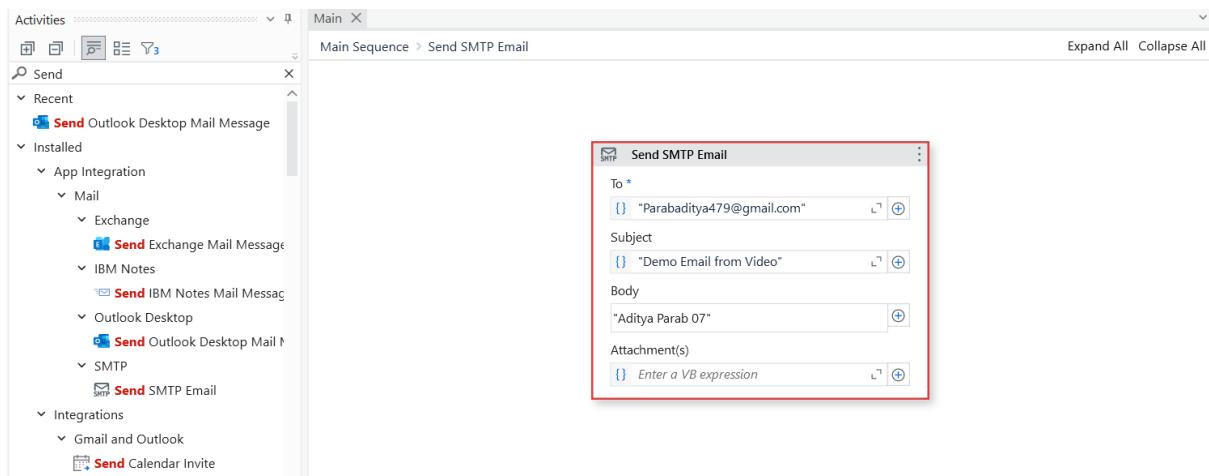
Step 4: Add Read PDF With OCR and Select Tesseract OCR.

Step 5: Add Message Box and Extract Text.**Step 6: Output**

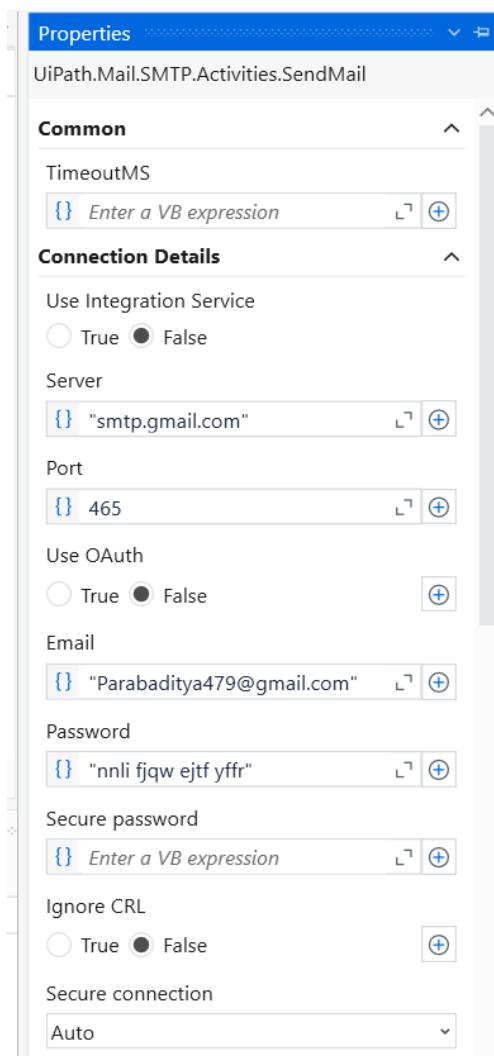
Practical No 7C

Aim : Automate the process of send mail event.

Steps 1: Add SMTP drag and drop the activity.



Step 2: Get the server and port for gmail.



Step 3: Creating app password for gmail

← App passwords

App passwords are less secure than using up-to-date apps and services that use modern security standards. Before you create an app password, you should check to see if your app needs this in order to sign in.

[Learn more](#)

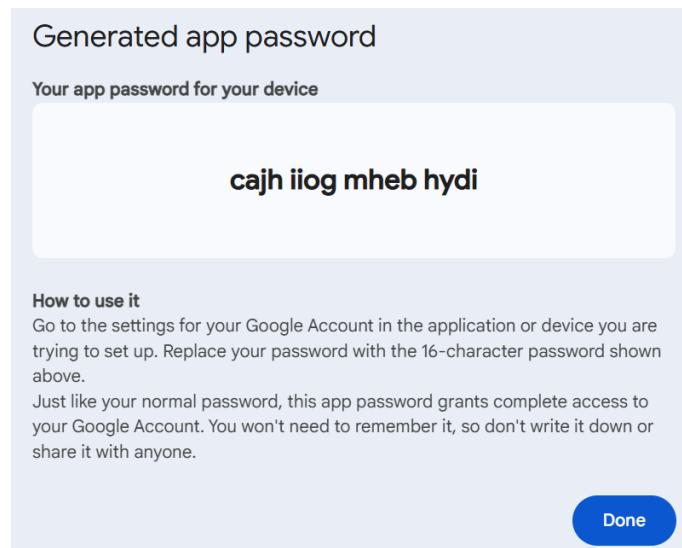
You don't have any app passwords.

To create a new app-specific password, type a name for it below...

App name
Parabaditya479@gmail.com

[Create](#)

Step 4: It has created a App Password for your device



Step 5: Output

Search in mail

Primary

me 11:44 PM
Demo Email from Video
"Aditya Parab 07"

Google 9 11:44 PM
Security alert
App password used to sign in was remov...

me 11:13 PM
Demo Email from Video
"Aditya Parab 07"

me 11:07 PM
Demo Email from Video
"Aditya Parab 07"

me 11:05 PM
Demo Email from Video
"Aditya Parab 07"

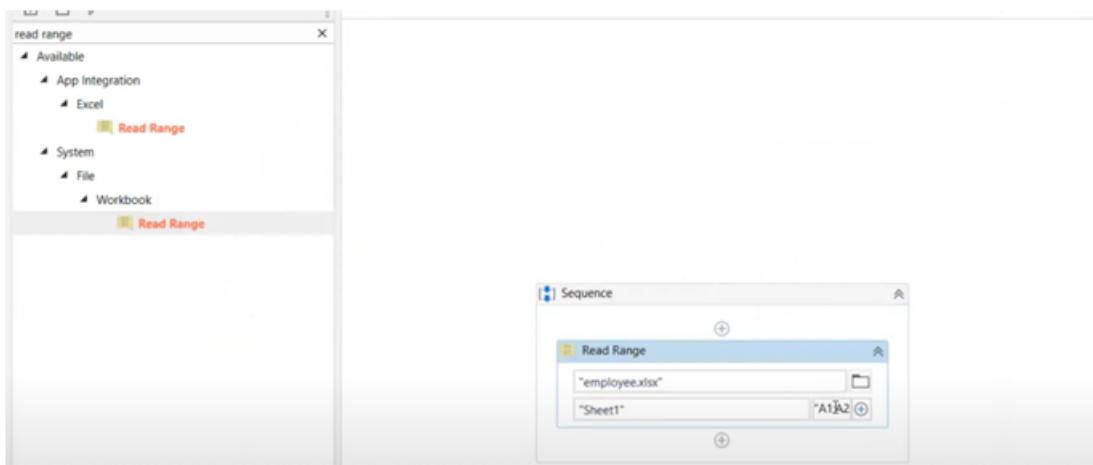
Practical No 8A

Aim : Demonstrate the use of config files in Uipath

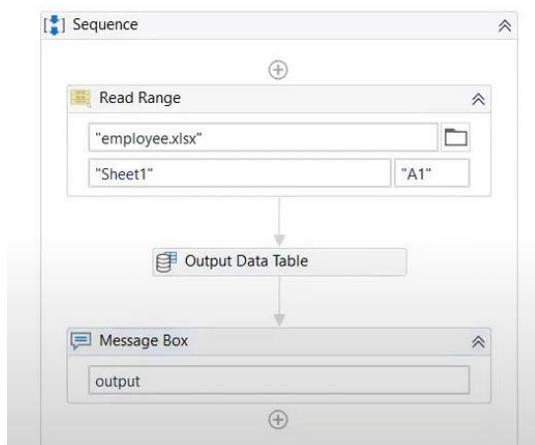
Step 1 : Create one excel file wit config values

	A	B
1	Name	Employee ID
2	Rajesh	10
3	Suresh	20
4	Ramesh	30
5	Seeta	40
6	Geeta	50
7		
8		
9		

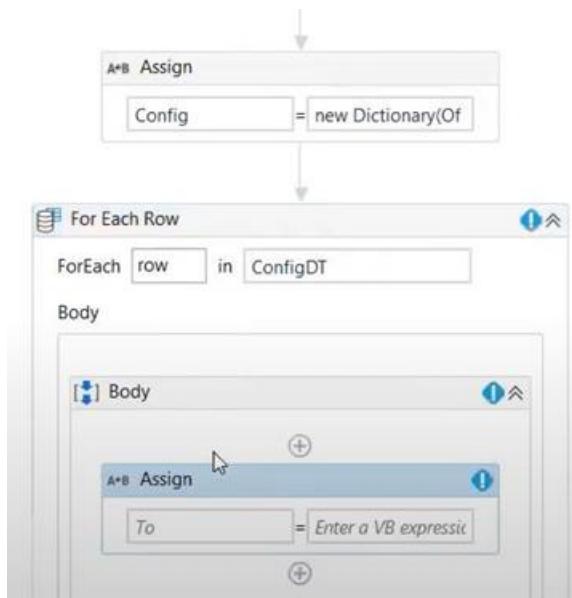
Step 2 : Step 2: Add sequence and read range activity into the main sequence



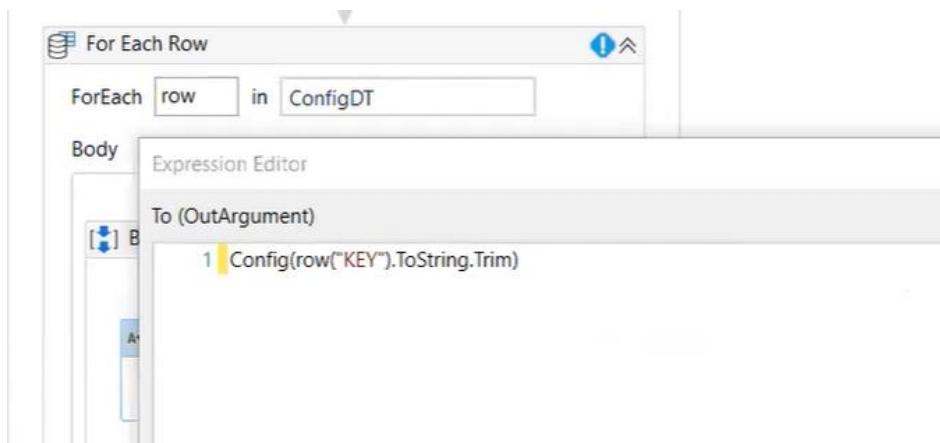
Step 3: Create one variable to store the output of read range activity and add output data activity into sequence



Step 4: Add assign activity and for each in the sequence



Step 5: Add the expression in for each loop



Step 6: Change the read range parameters



Step 7: Debug the file and get the output

Message Box

```

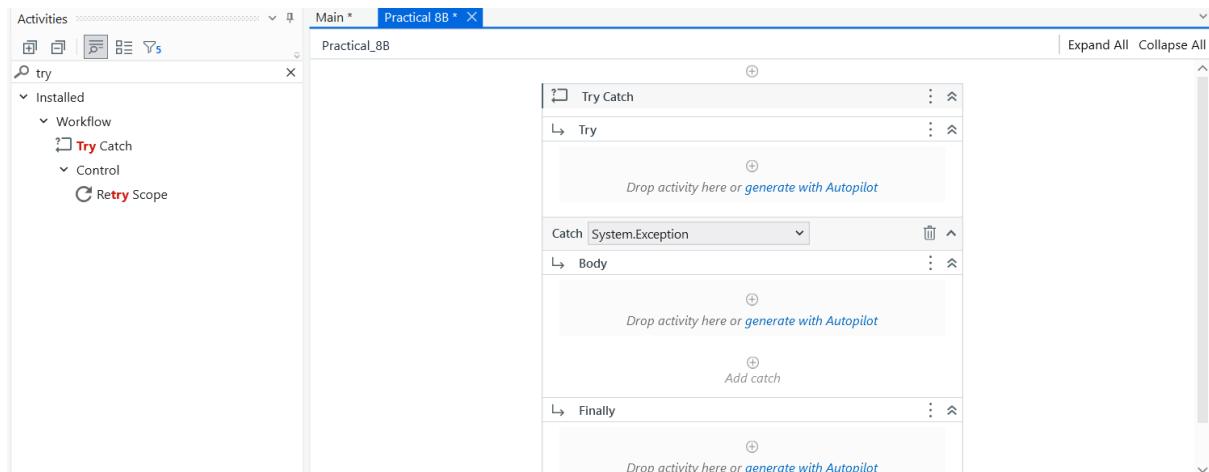
Name,Employee ID
Rajesh,10
Suresh,20
Ramesh,30
Seeta,40
Geeta,50
  
```

Practical No 8B

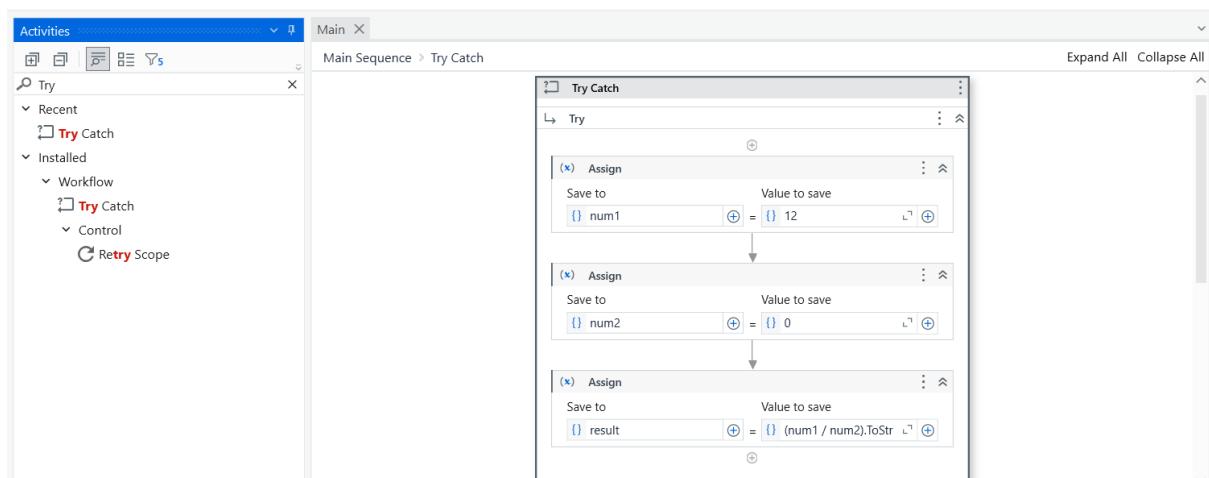
Aim : Demonstrate the use of Exception handling in UiPath.

Step 1: Create a New Sequence

Add Try Catch Activity.

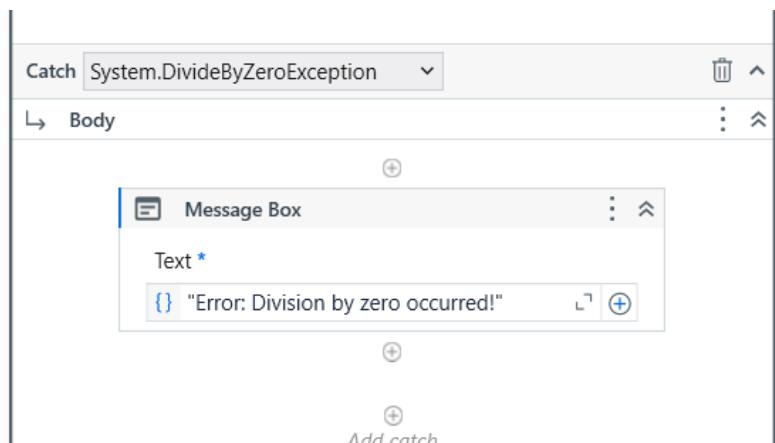


Step 2: Add Activities Inside the Try Block.

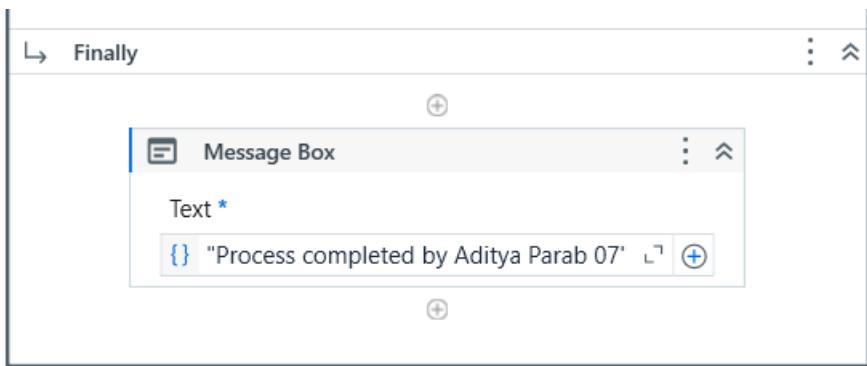


Step 3: In Catch Blocks Select

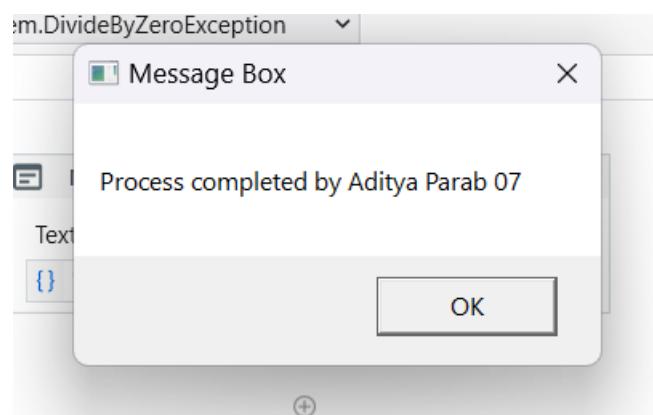
System.DivideByZeroException And Message Box.



Step 4: In Finally Block Add Message Box.



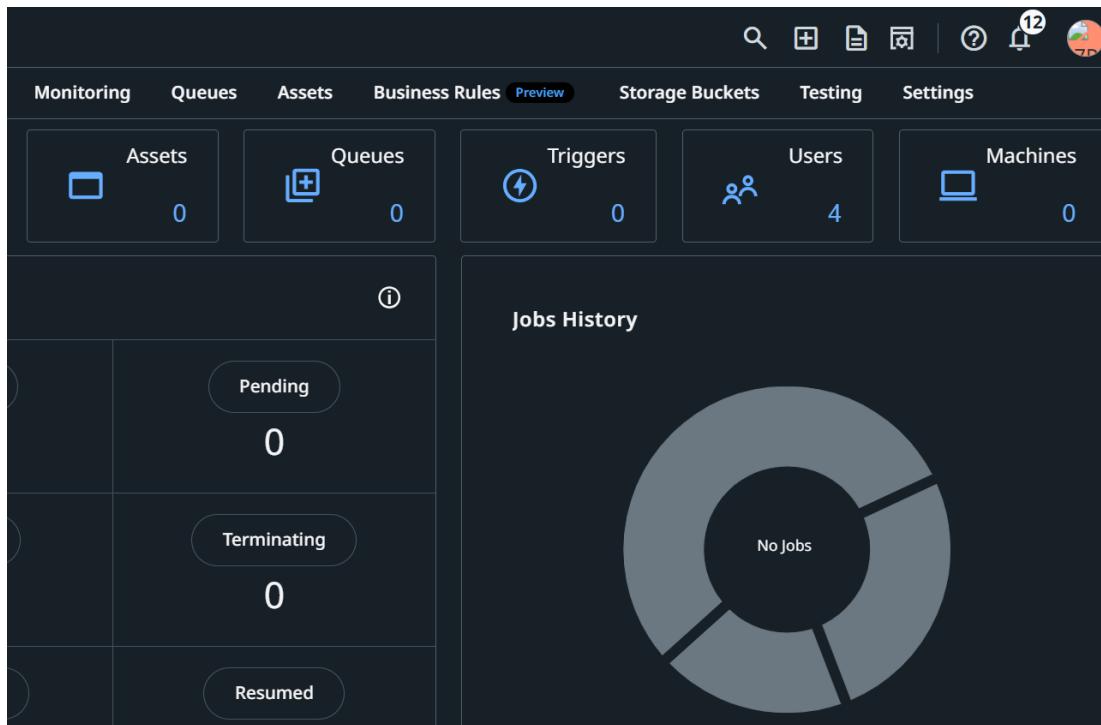
Step 5: Output



Practical No 8C

Aim: Create and provision robot using orchestrator

Step 1: Go to Uipath admin panel



Step 2: Add new robots and name it

Name	Group membership
unattended01	Everyone
	Automation Users
	Administrators
	Citizen Developers
	Automation Developers

Step 3: Go to Orchestrator then navigate to tenant and then manage access

Name	Username	Roles
UnattendedRobot001	unattendedrobo...	Robot
UnattendedRobot002	unattendedrobo...	Robot

Step 4: click on assign roles

The screenshot shows the 'Assign access rules' page in the UiPath Orchestrator. At the top, there's a search bar for 'Robot account*' containing 'AdityaUnattendedRobot001'. Below it is a 'Configuration' section with a note about superseding values from inheritance. Under 'Additional roles', there's a list box containing 'Robot' with a delete icon, and a button '+ New role'. To the right, a 'Summary card' provides information about access rules, roles (Robot), settings, and unattended robot setup.

Step 5: Go to the machine and create one machine

The screenshot shows the 'Machines' tab in the UiPath Orchestrator. On the left, a sidebar shows 'My Folders' and 'My Workspace'. The main area displays a table of machines, with one row selected: 'MachineUnattendedRobot001' (Type: Template, Installed version: No Robots, Version status: N/A). A 'Unattended setup' button is visible above the table.

Step 6: Open UiPath Assistant go to Orchestrator settings and add the machine key and connect it with machine

The screenshot shows the 'Orchestrator Settings' section in the UiPath Assistant. It includes fields for 'Connection Type' (Machine Key), 'Machine Name' (DESKTOP-Q6RBTK6), 'Orchestrator URL' (https://cloud.uipath.com/aditydtwfpkw/DefaultTenant/orchestrator_), and 'Machine Key' (27e0ebef-4a3e-4a21-83f7-1cb6390d6139). The status is shown as 'Connected, Licensed'.

Step 7: Then go to monitoring Unattended Session and see your machine

The screenshot shows the 'Monitoring' tab in the UiPath Orchestrator, specifically the 'Unattended sessions' section. It lists three machines: 'COMP113' and 'DESKTOP-Q6RBTK6' (both connected to 'parabaditya479...') and 'HOSTNAME' (connected to 'parabaditya479...'). The table includes columns for Hostname, Machine, Runtime type, In Use, Service username, and Last Heartbeat.

Step 8: Create New Folder test in Uipath Orchestrator and then add assign account in test folder

Name	Username	Type
Administrators	administrators	Local group
Automation Users	automation users	Local group
Automation Developers	automation dev...	Local group
Citizen Developers	citizen developers	Local group

Step 9: Go to machine → manage machine in folder then click on update

Name	Type	Productio...	Non Produ...	Testing	App Testing	Labels	Properties
MachineUnattendedRobot001	Template	1	0	0	0		
parabadya479@gmail.co...	Template	0	0	0	0		

Step 10: Output

