

Deccan Education Society's

Navinchandra Mehta Institute of

Technology and Development

C E R T I F I C A T E

This is to certify that **Mr. Jay Suresh Adavade** of M.C.A. Semester II
 with Roll No.**C22002** has completed practicals of **Robotic Process Automation** under my supervision **Dr. Rasika Mallya** in this college
 during the year 2022-2023.

CO	R1 (Attendance)	R2 (Performance during lab session)	R3 (Innovation in problem solving technique)	R4 (Mock Viva)	R5 (Variation in implementation of learnt topics on projects)
CO1					
CO2					
CO3					
CO4					

Practical-in-charge
Department

(NMITD)

Head of
MCA Department

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Sr. No.	Title of Practical	Course Outcome	Date
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2	AA: Demonstrate prompts	CO2	20/4/23
3	AA: Demonstrate list variables	CO2	4/5/23
4	AA: Demonstrate logfile and keystroke	CO2	16/5/23
5	File Operations- Demonstrate commands Open, copy, zip, create	CO2	16/5/23
6	UIPath: Demonstrate basic recording in bot	CO2	27/3/23
7	UIPath: Demonstrate declaration and use of int and string variables	CO2	27/3/23
8	UIPath: Demonstrate flowchart	CO2	10/5/23
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11	AA: Bot to demonstrate increment and decrement actions on number and datetime variables	CO2, CO3	11/5/23
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18	AA: Bot to demonstrate list variable using list package	CO2, CO3	12/5/23
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20	UIPath: Demonstrate while loop and do while loop	CO2	15/5/23
21	UIPath: Demonstrate ForEach for list variable	CO2	235/23

22	UIPath: Demonstrate ForEach for files in a folder	CO2, CO3	15/5/23
23	UIPath: Demonstrate switch	CO2, CO3	19/5/23
24	AA: Bot for Excel operations : Compare and Update Excel Sheet	CO3, CO4	16/5/23
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25	AA: Bot to demonstrate Data Table Package with Excel/ Advanced Excel package	CO3, CO4	16/5/23
26	AA: Bot To copy data from TXT file and write it into Excel	CO3, CO4	16/5/23
27	AA: Bot to copy files from one folder to another	CO3, CO4	3/6/23
28	UIPath: 1. Write a bot to create array of string and to copy the contents of array to string	CO3, CO4	23/5/23
29	UIPath: Demonstrate array variable with different functions	CO3, CO4	23/5/23
30	UIPath: Write a bot to convert text file to Excel file	CO3, CO4	26/5/23
31	UIPath: Write a bot to apply filter on single data table and on two data tables	CO3, CO4	26/5/23
32	UIPath: Write a bot to demonstrate use of data tables - creating two Data Table variables and merging their values together and filtering the unwanted columns out.	CO3, CO4	19/5/23
33	UIPath: Write a bot to sort data table	CO3	19/5/23
34	UIPath: Write a bot to demonstrate properties of Data Table	CO3	19/5/23
Category 5:			
35	AA: Write a bot to demonstrate PDF actions: merge document and split document	CO4	24/6/23
36	AA: Write a bot to demonstrate screen scraping using <ul style="list-style-type: none"> i. extract field ii. extract text iii. extract image 	CO4	24/6/23
37	AA: Write a bot to demonstrate screen scraping using OCR – <ul style="list-style-type: none"> i. Capture image by path ii. Capture window with filter and without filter 	CO4	24/6/23
38	UIPath: Write a bot to convert PDF file into TXT file	CO4	1/6/23
39	UIPath: Write a bot to demonstrate PDF package with following actions: Export PDF page as image, join PDF files.	CO4	1/6/23

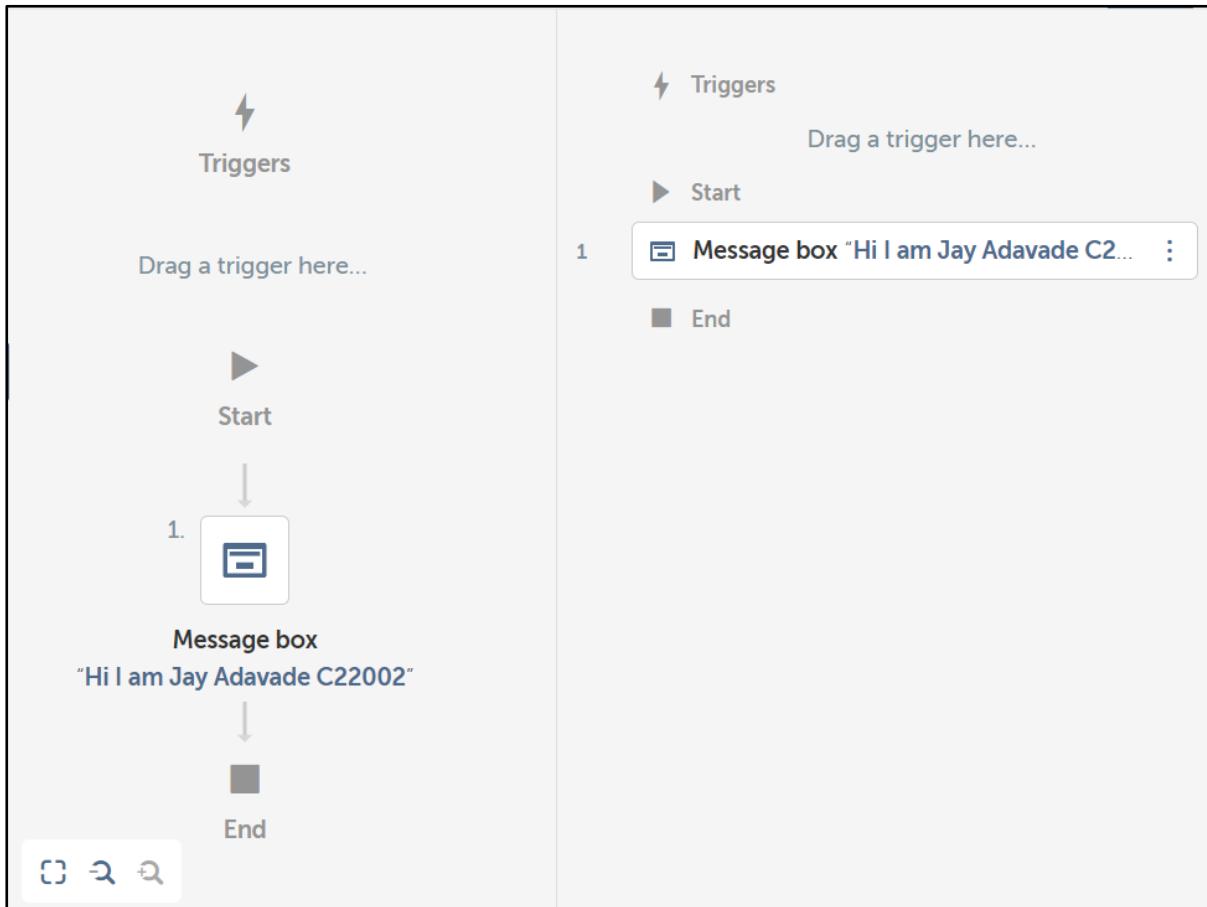
40	Category 6: Design IQ Bot using Automation Anywhere	CO4	7/6/23
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C22002

Category 1: Automation Anywhere

Aim: Bot to Demonstrate Message Box

Screenshots:

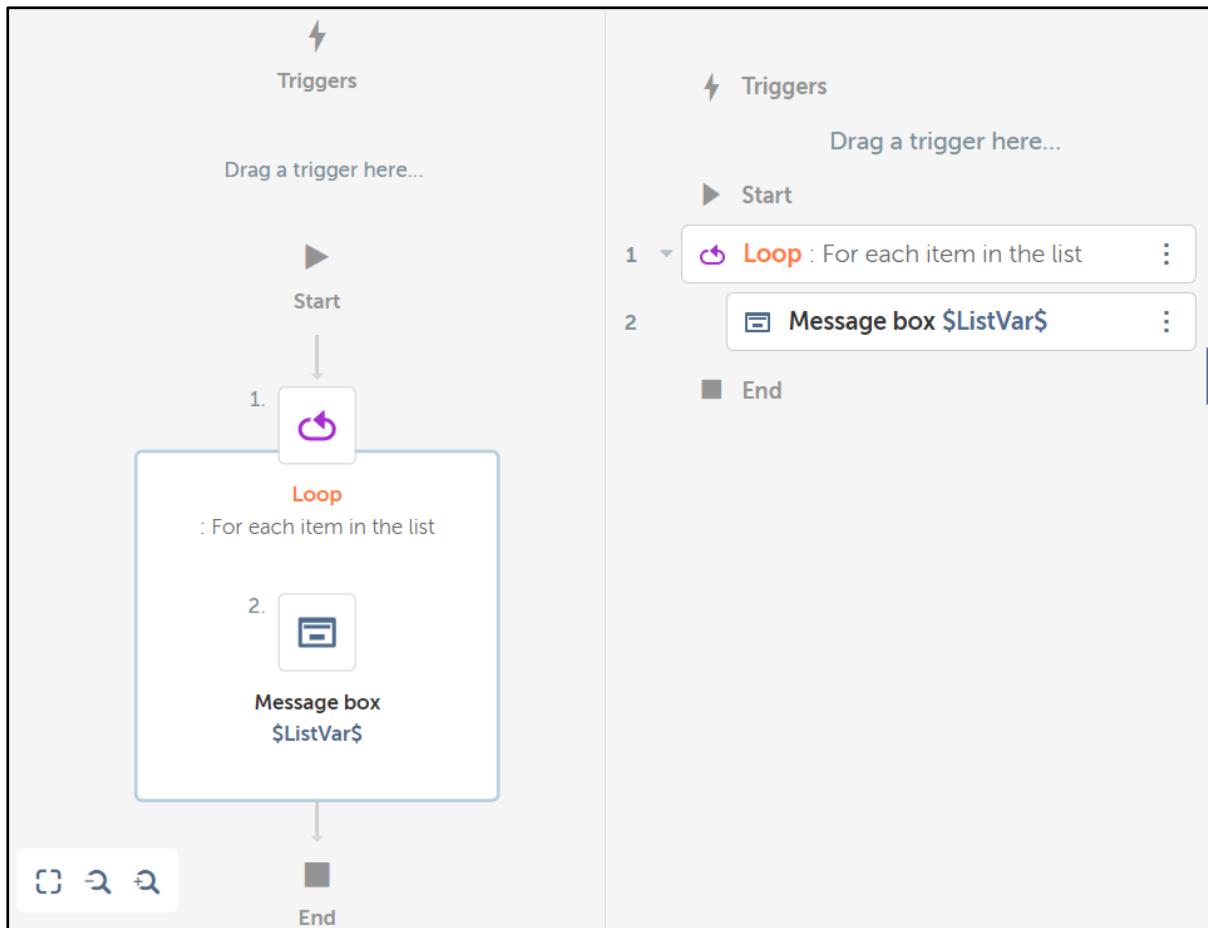


Output:

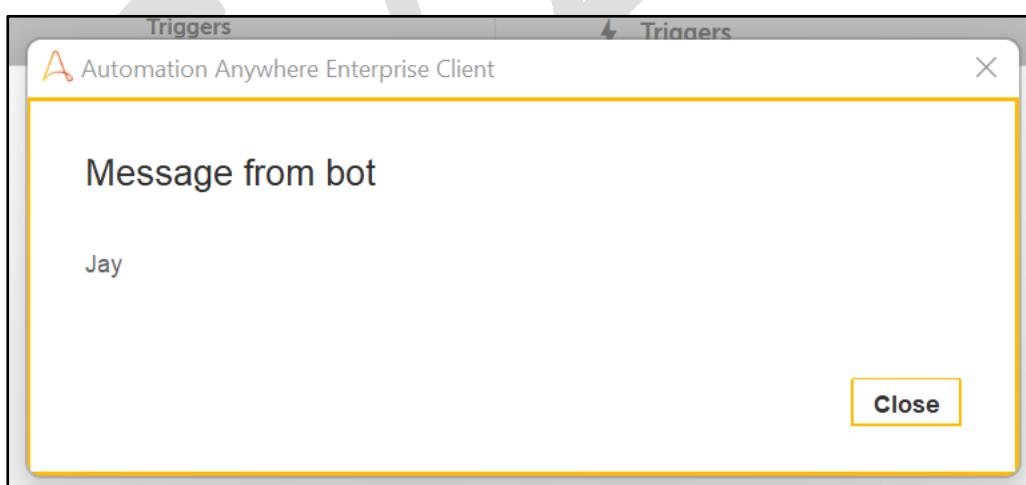


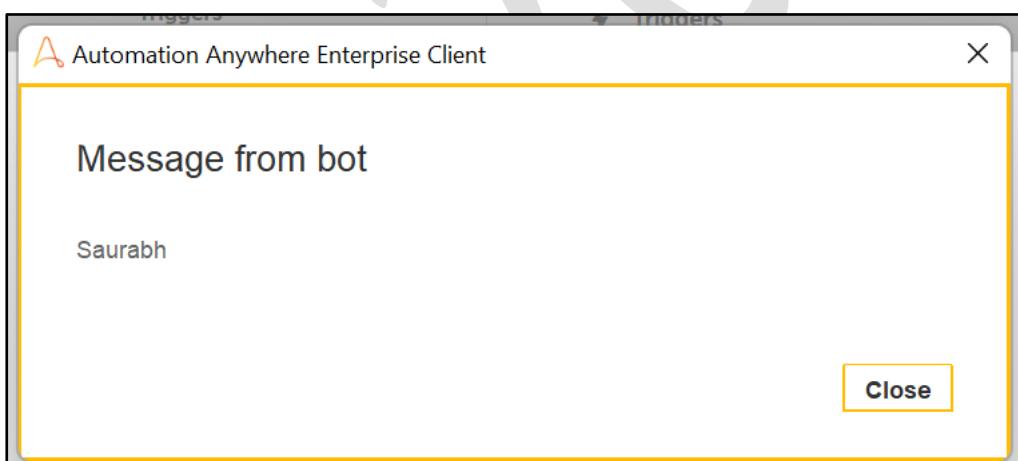
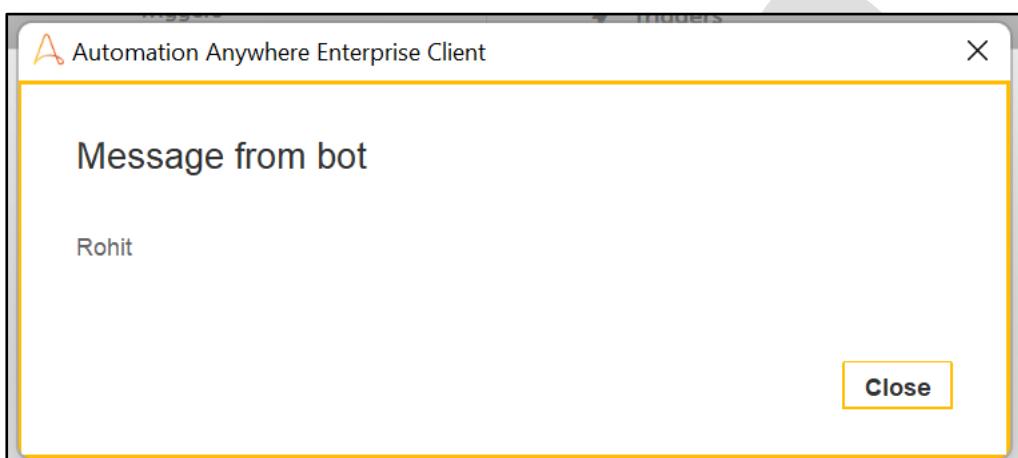
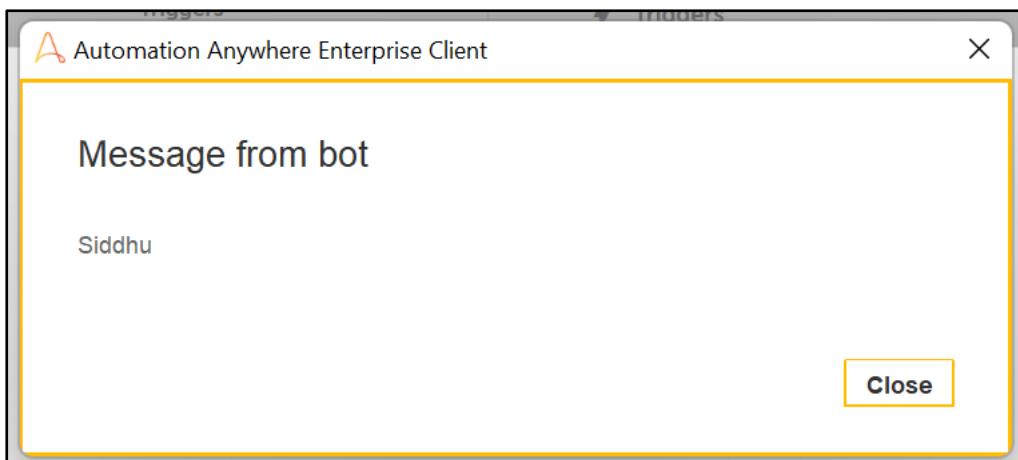
Aim: Bot to Demonstrate List Variables.

Screenshots:



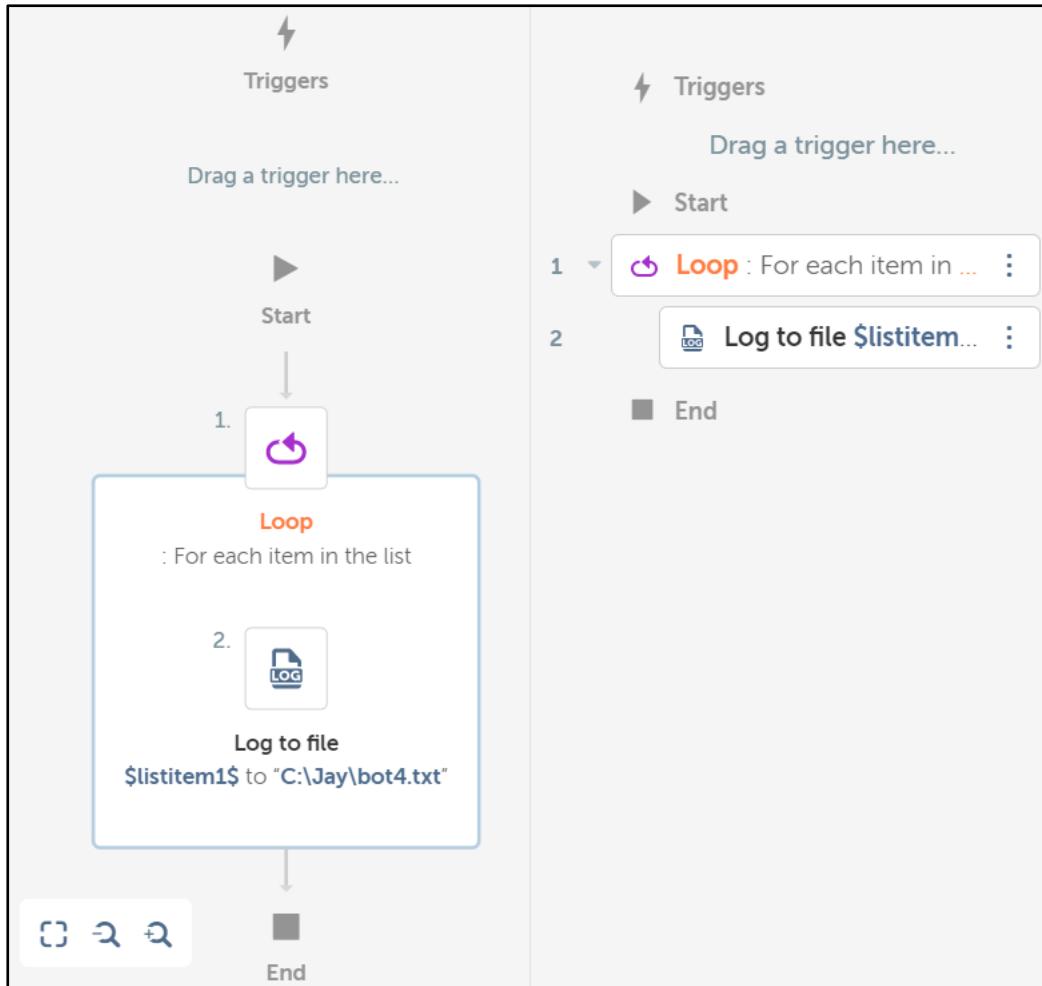
Output:



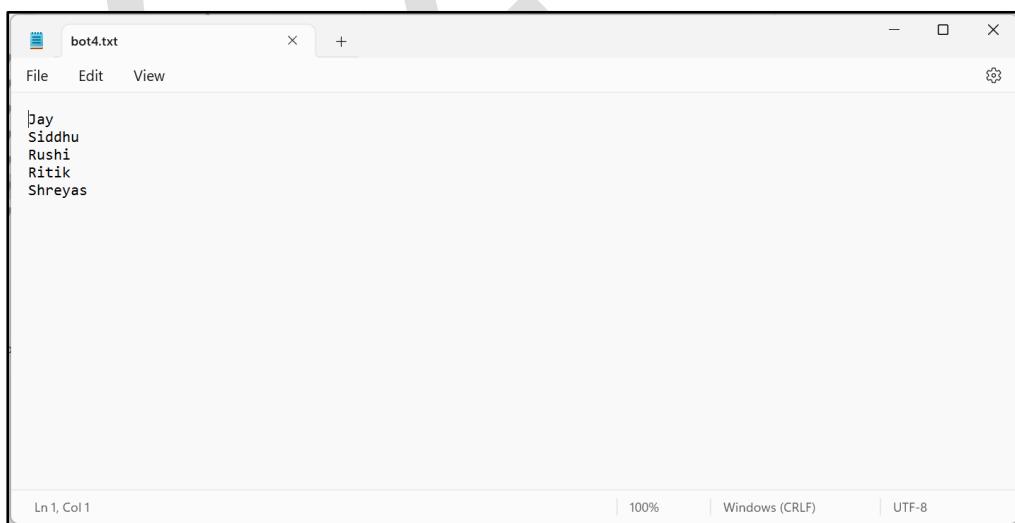


Aim: Bot to Demonstrate LogFile.

Screenshots:

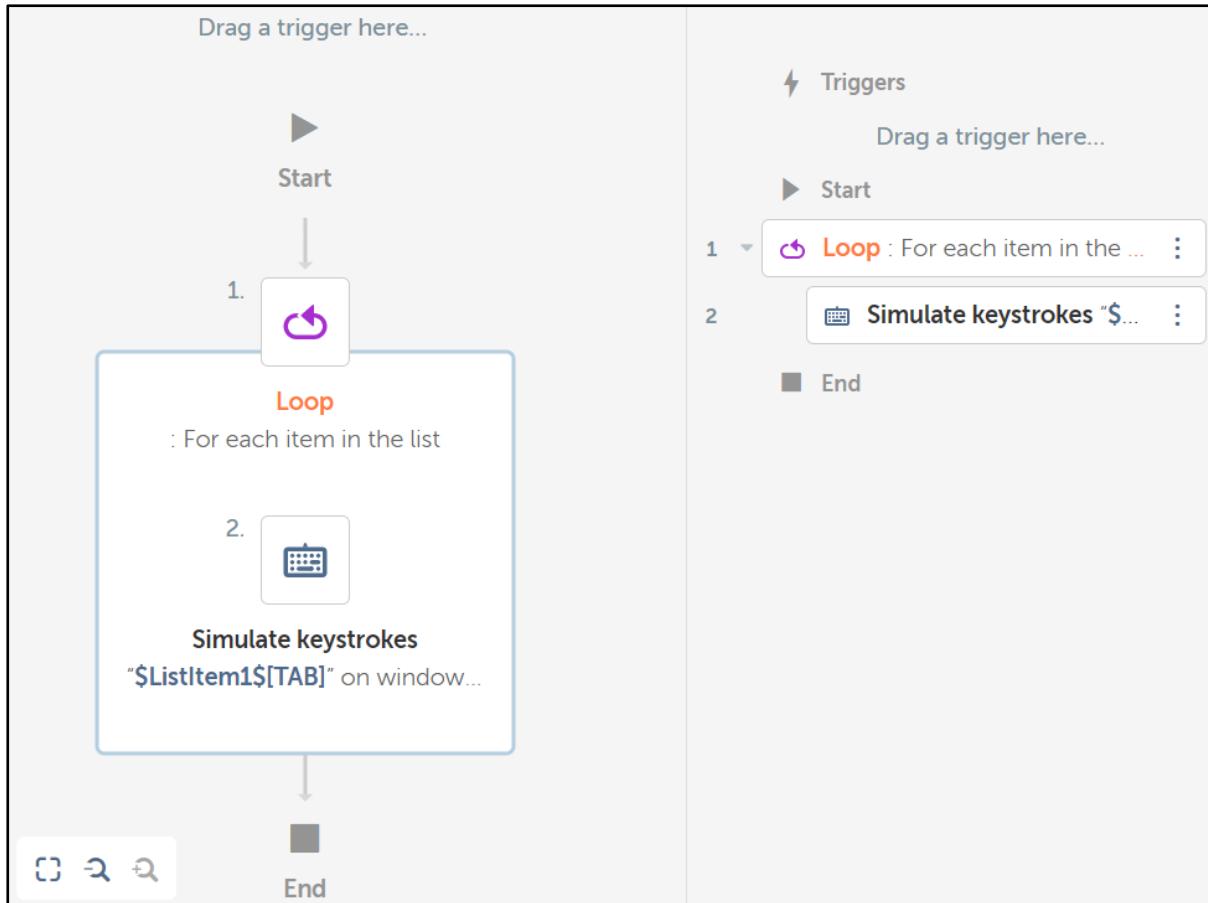


Output:

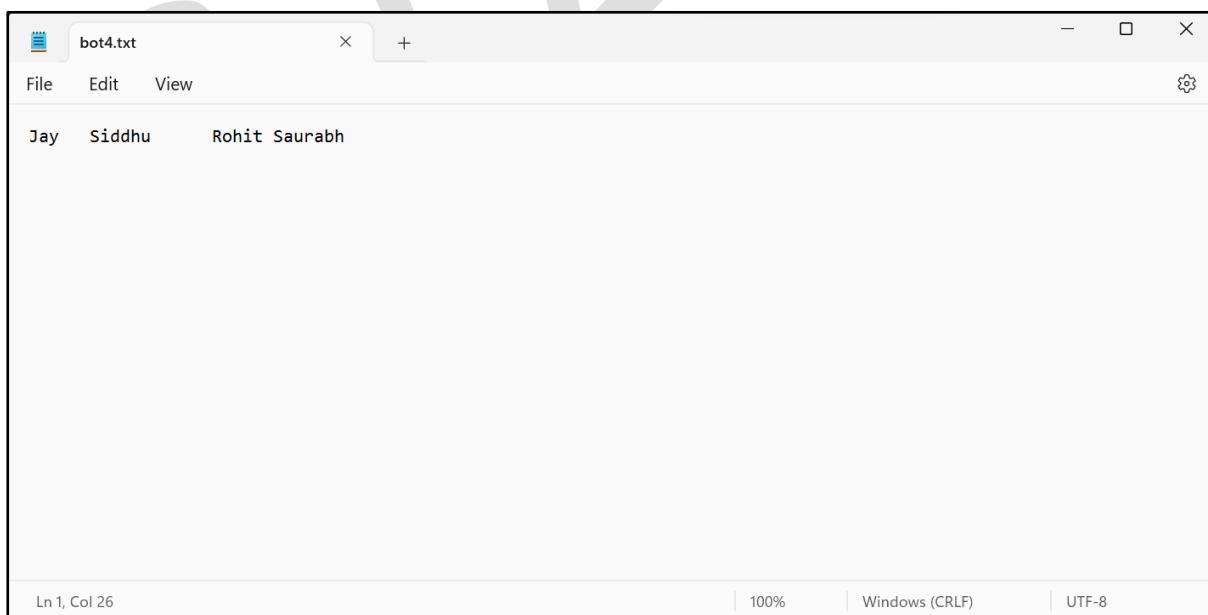


Aim: Bot to Demonstrate Keystroke.

Screenshots:



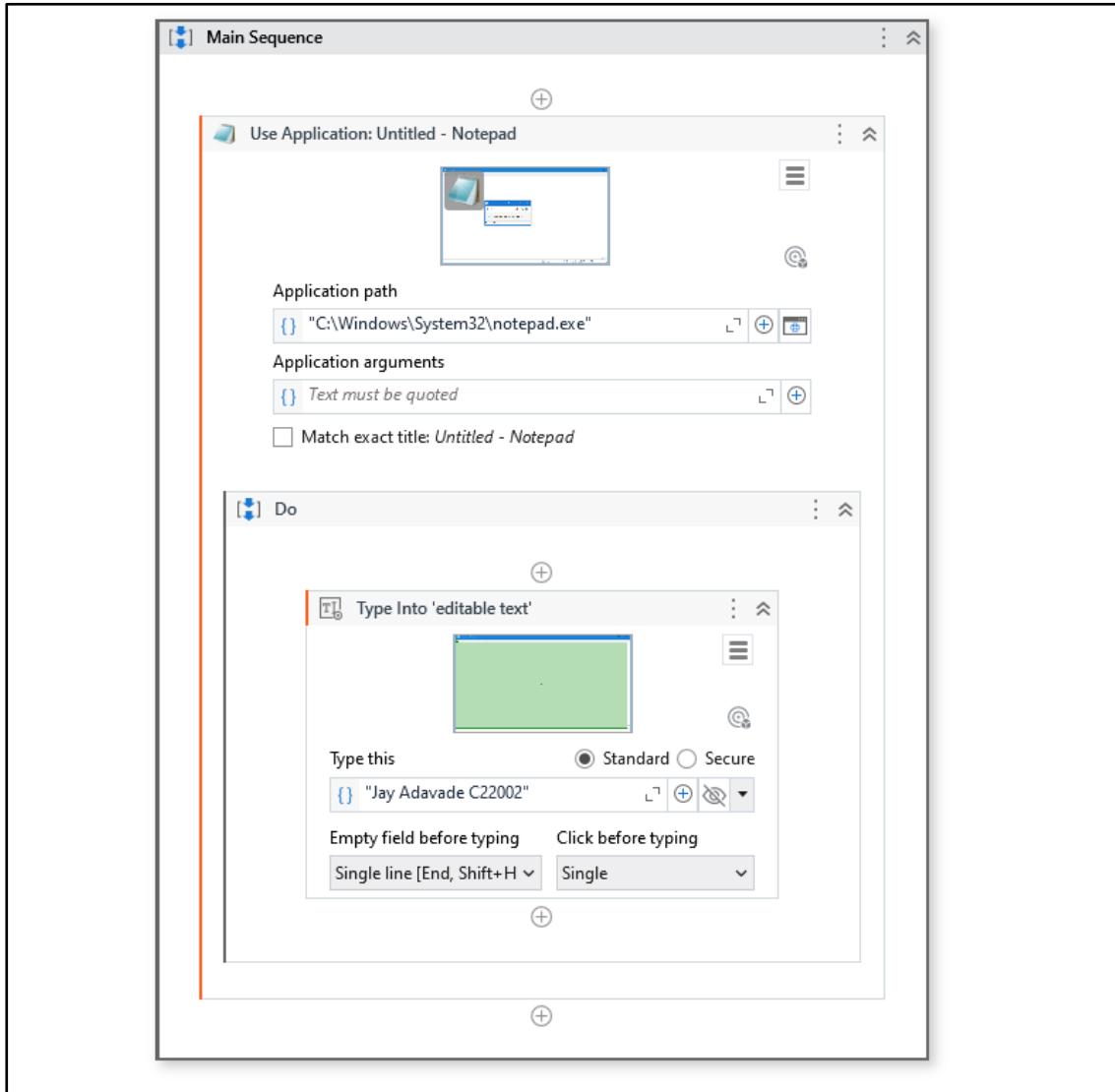
Output:



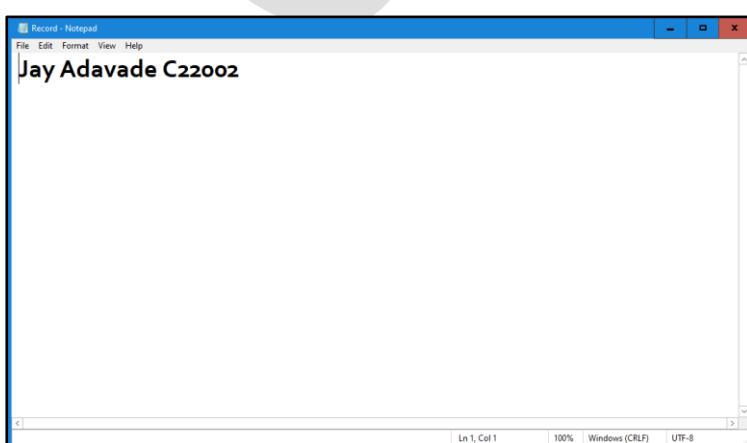
Category 1: UiPath

Aim: Demonstrate Basic Recording in Bot.

Screenshot:

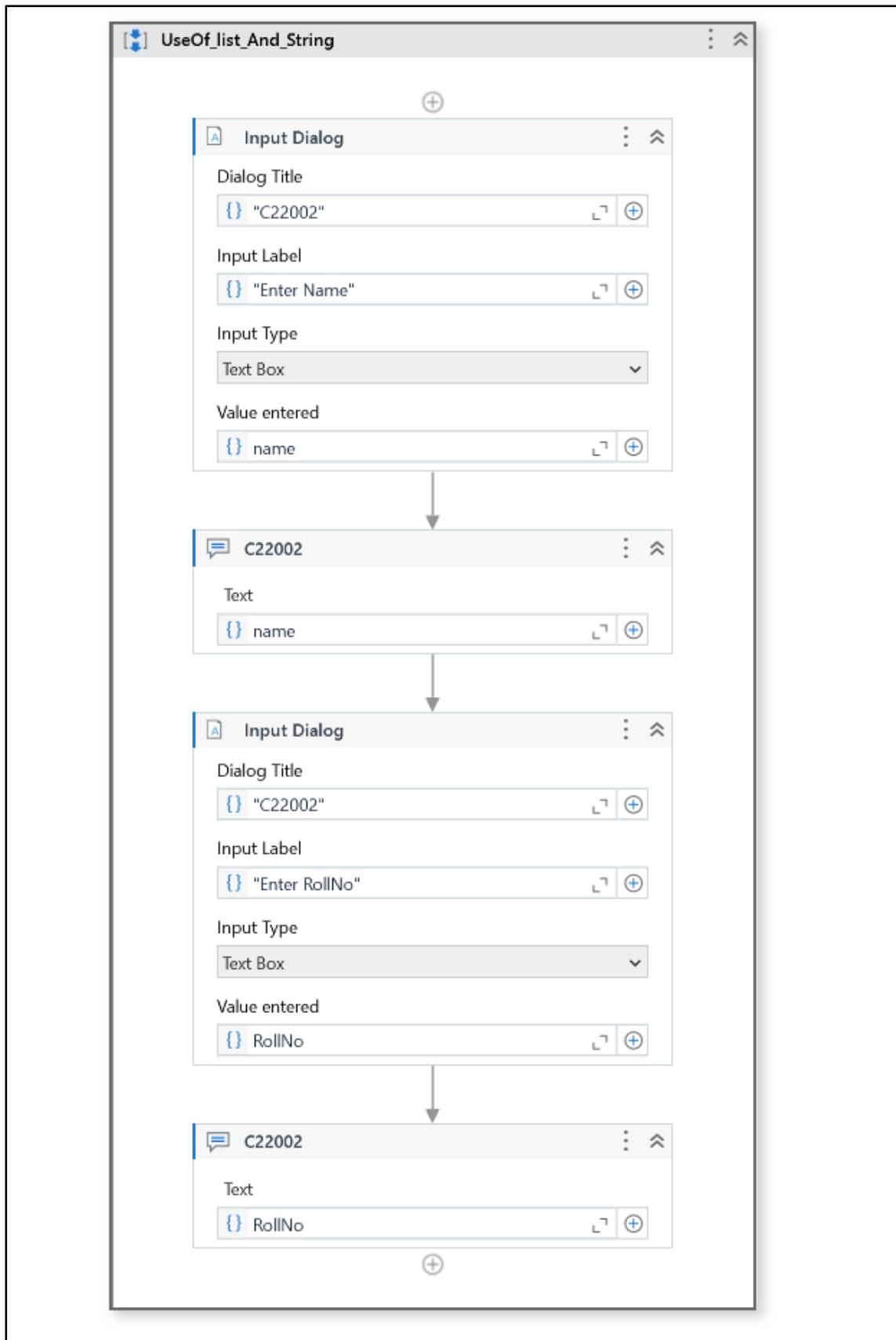


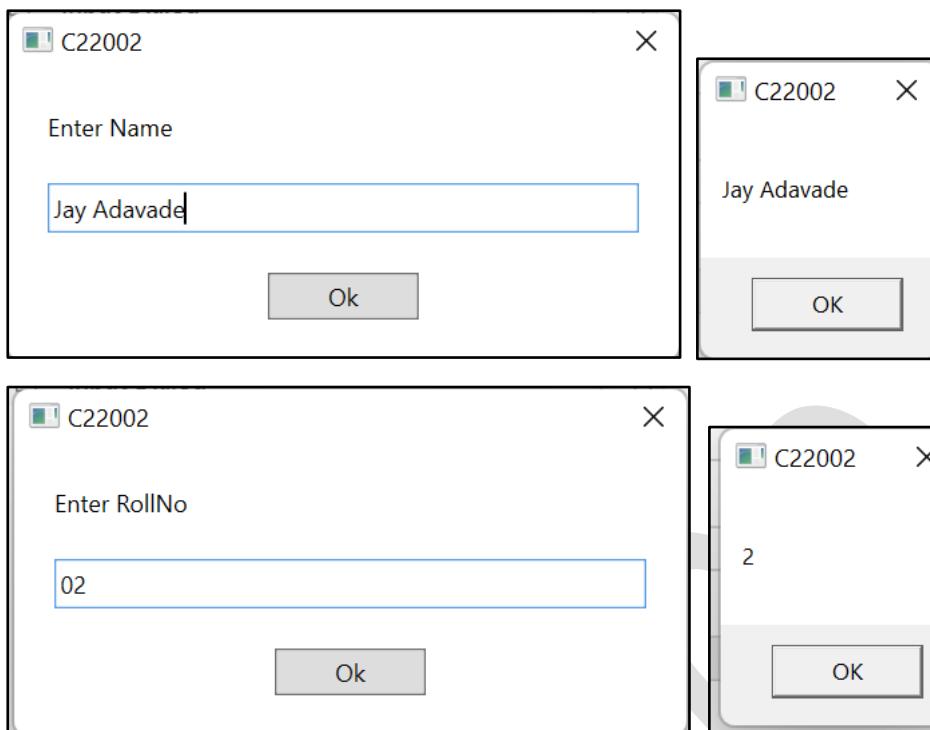
Output:



Aim: Demonstrate Declaration and use of int and string variable.

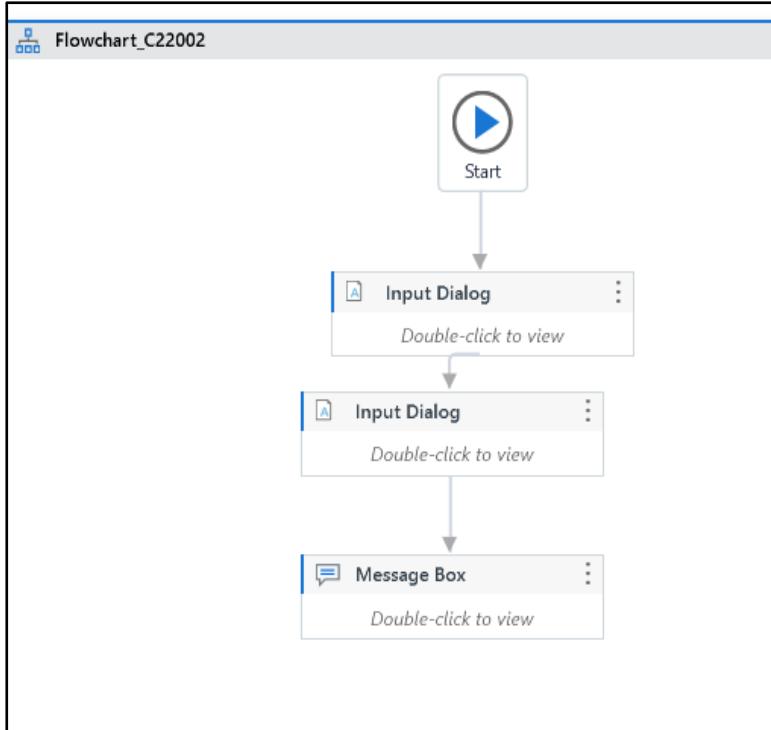
Screenshots:



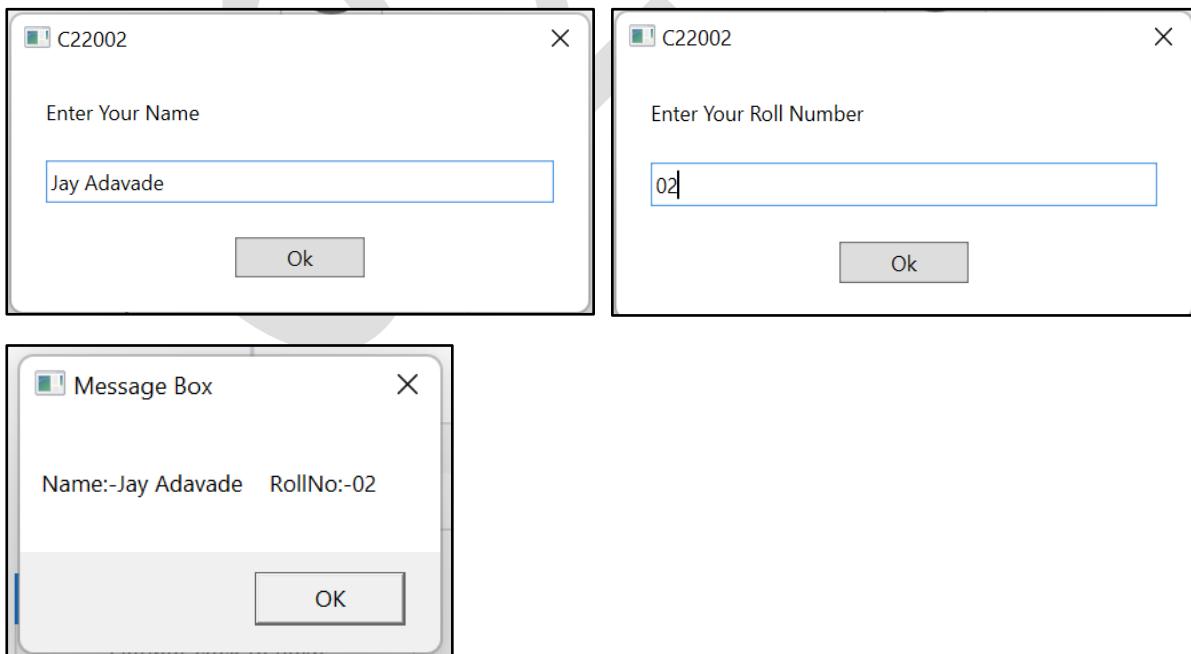
Output:

Aim: Demonstrate Flowcharts

Screenshots:

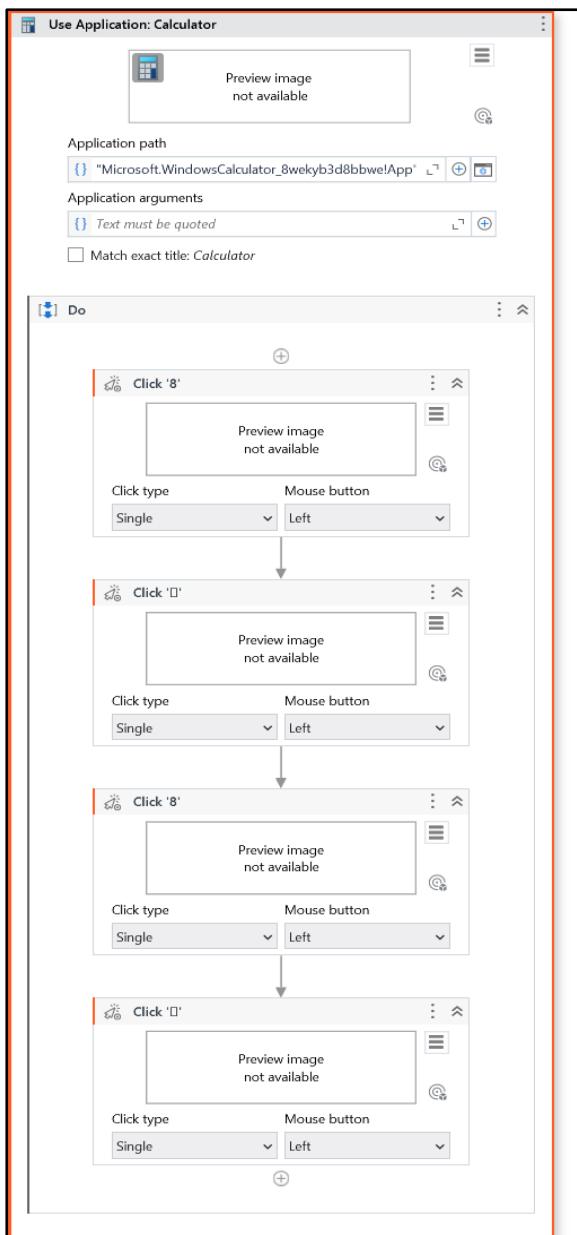


Output:

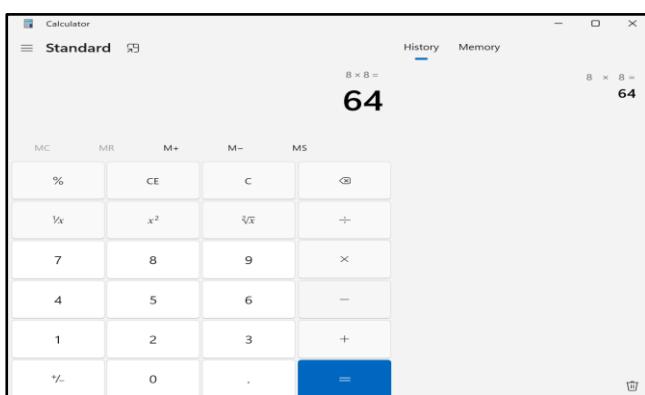


Aim: Demonstrate Flowchart with recording

Screenshots:



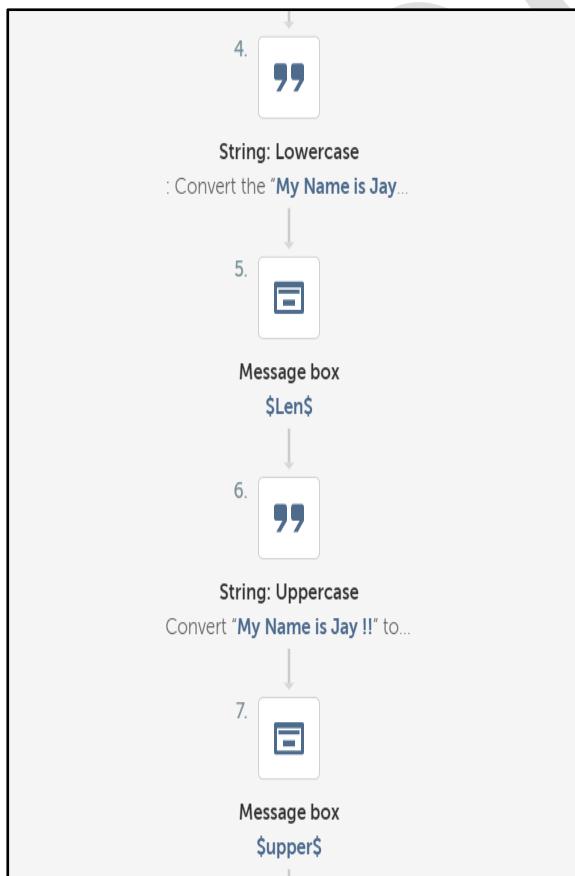
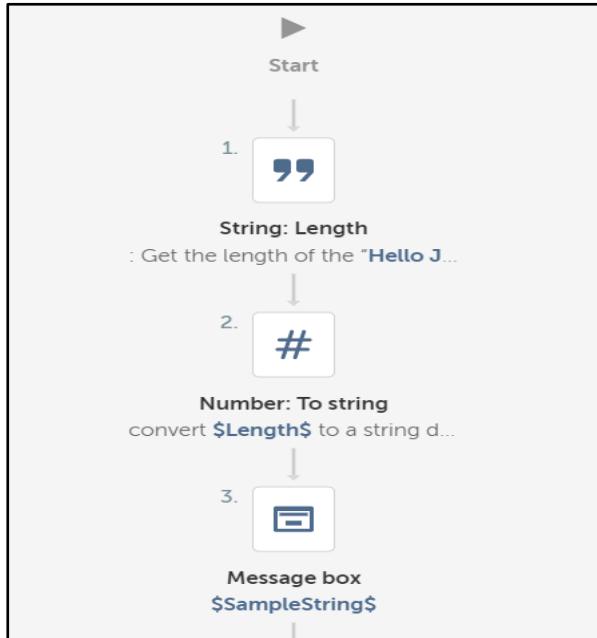
Output:

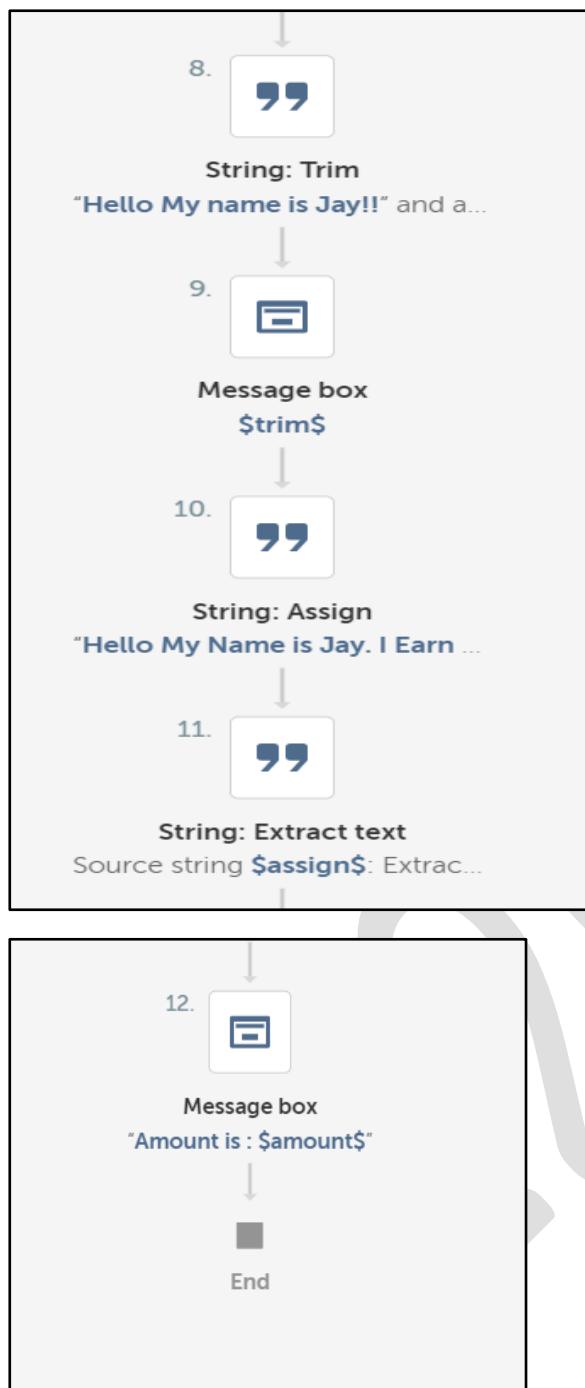


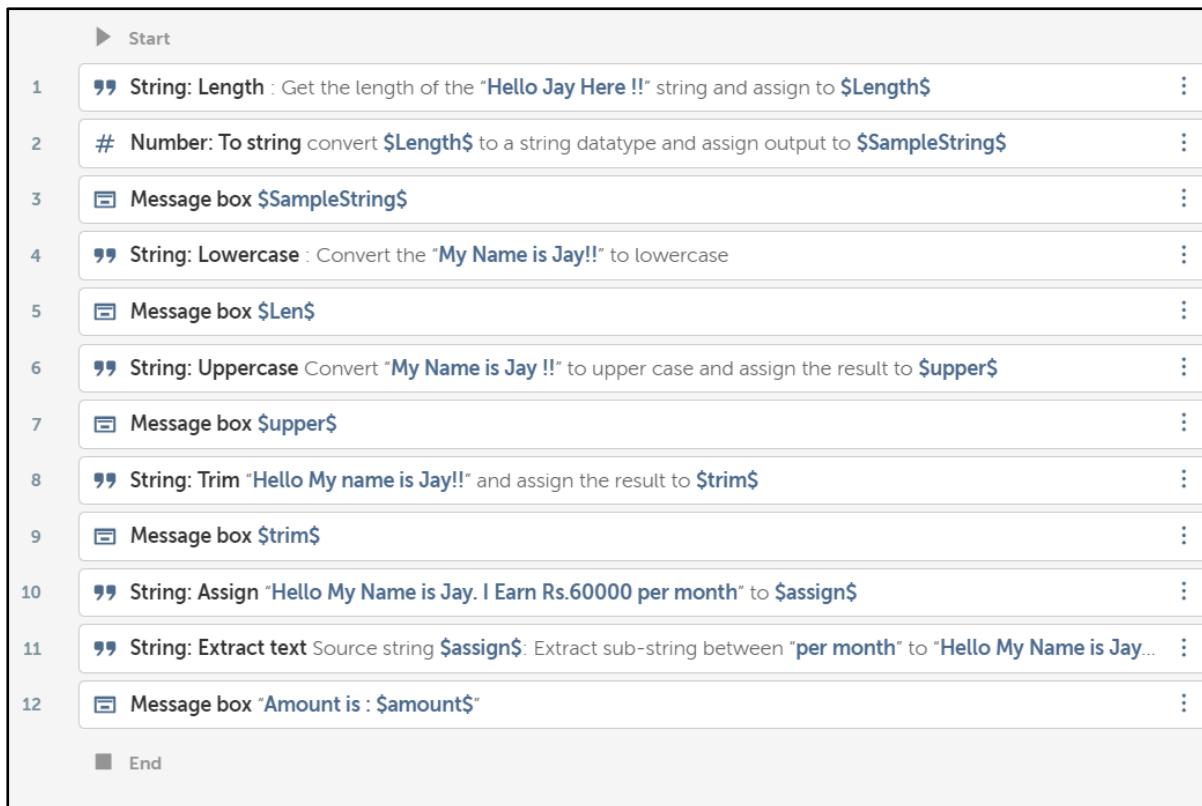
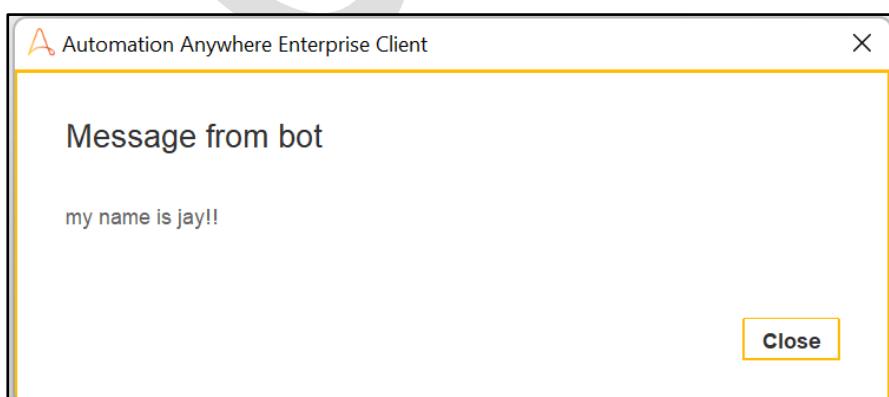
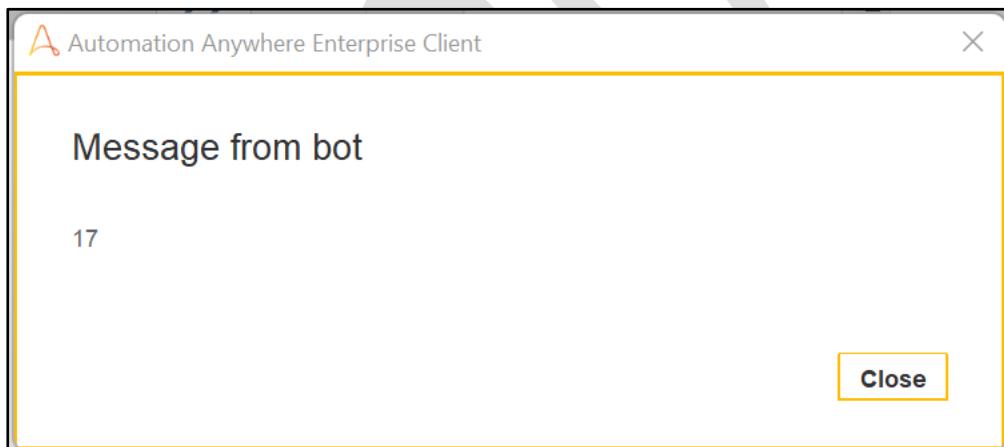
Category 2: Automation Anywhere

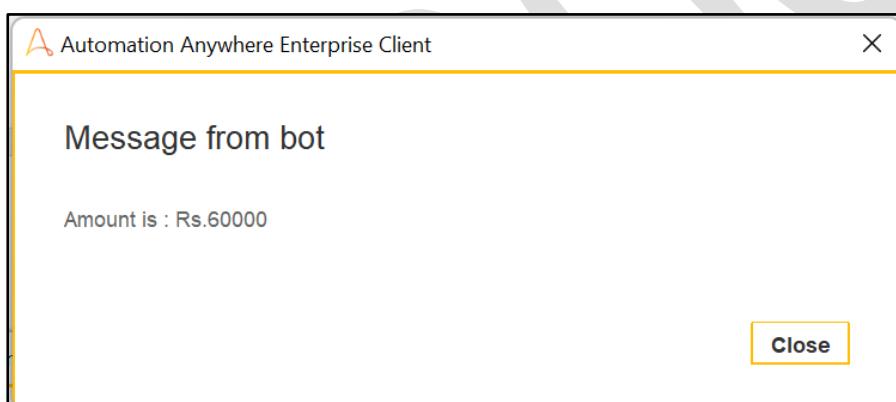
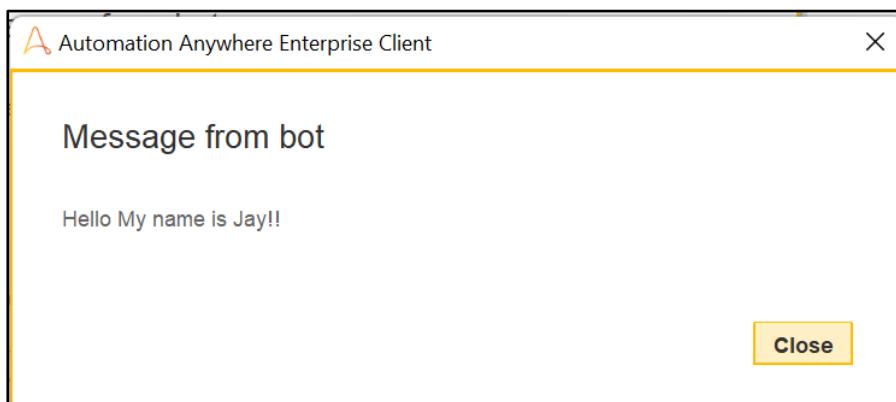
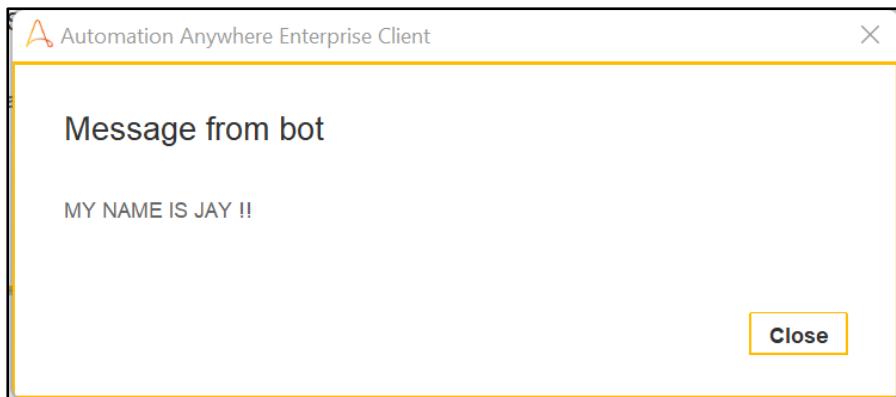
Aim: Bot to Demonstrate string functions.

Screenshots:





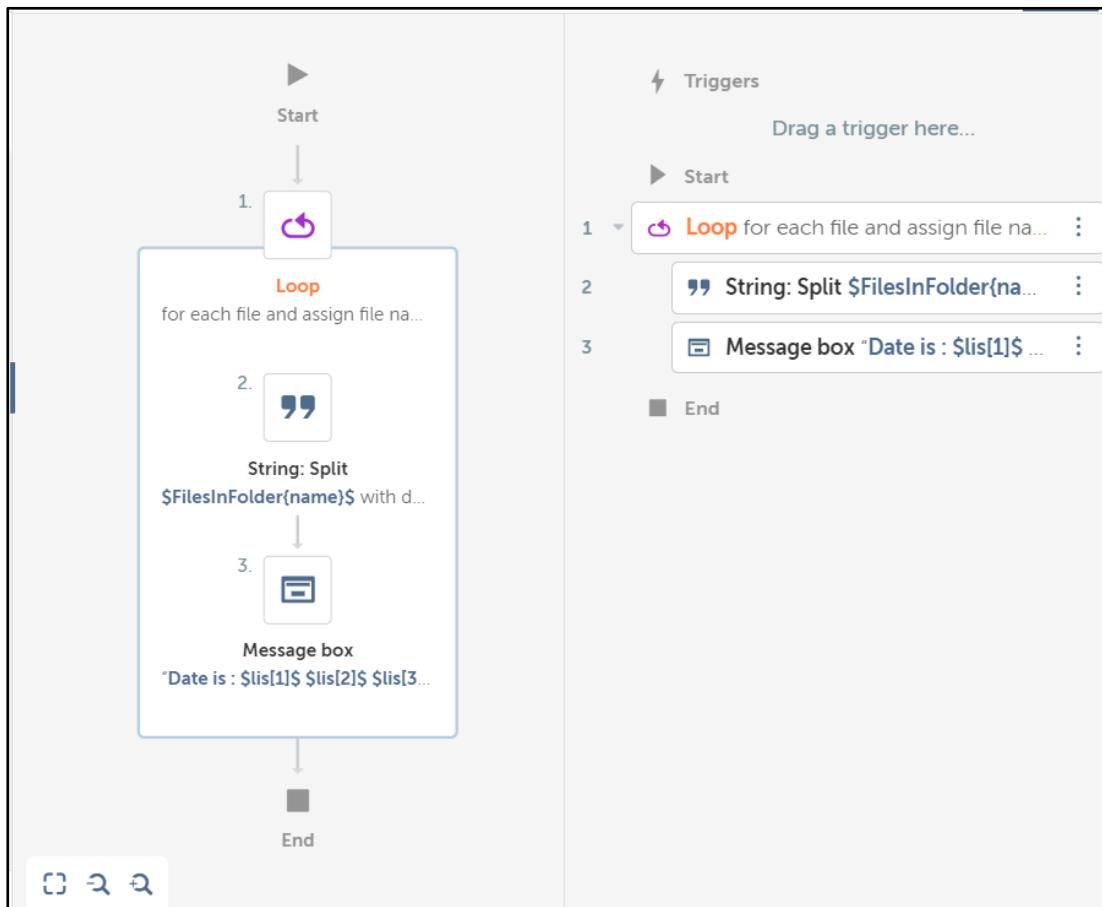
**Output:**



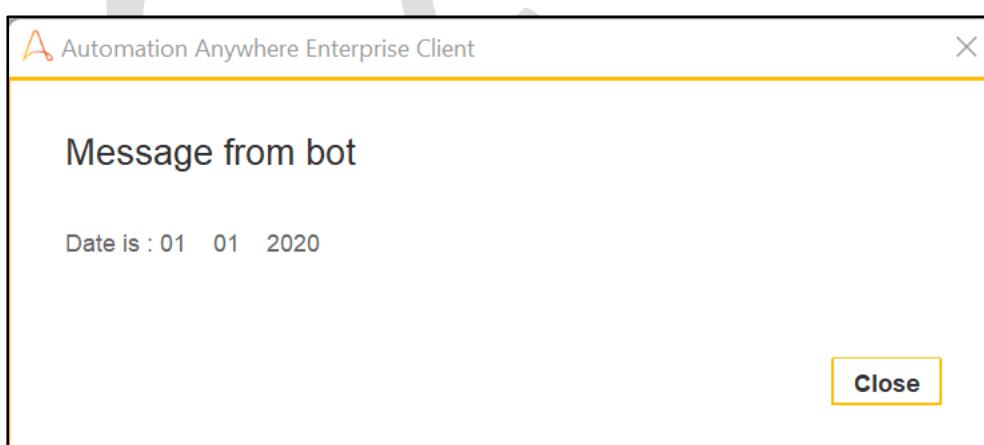
Aim: Bot for string operation split, extract substring, replace

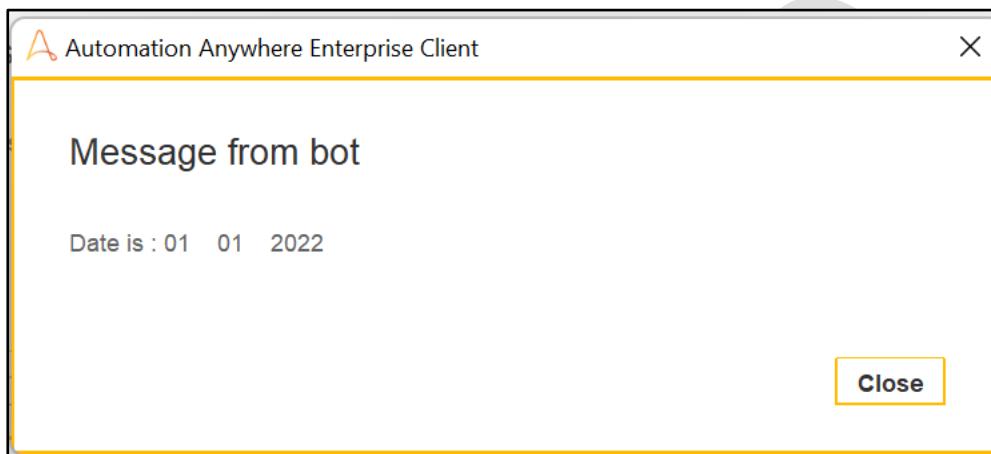
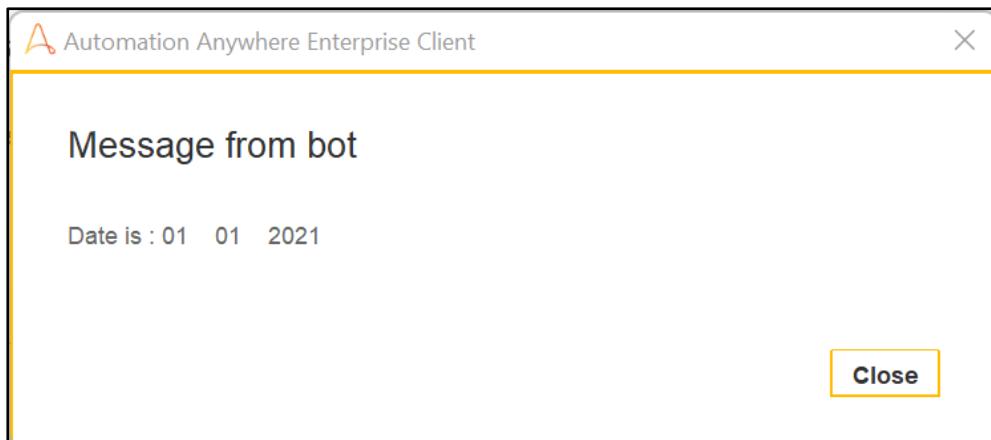
Screenshots:

Split:



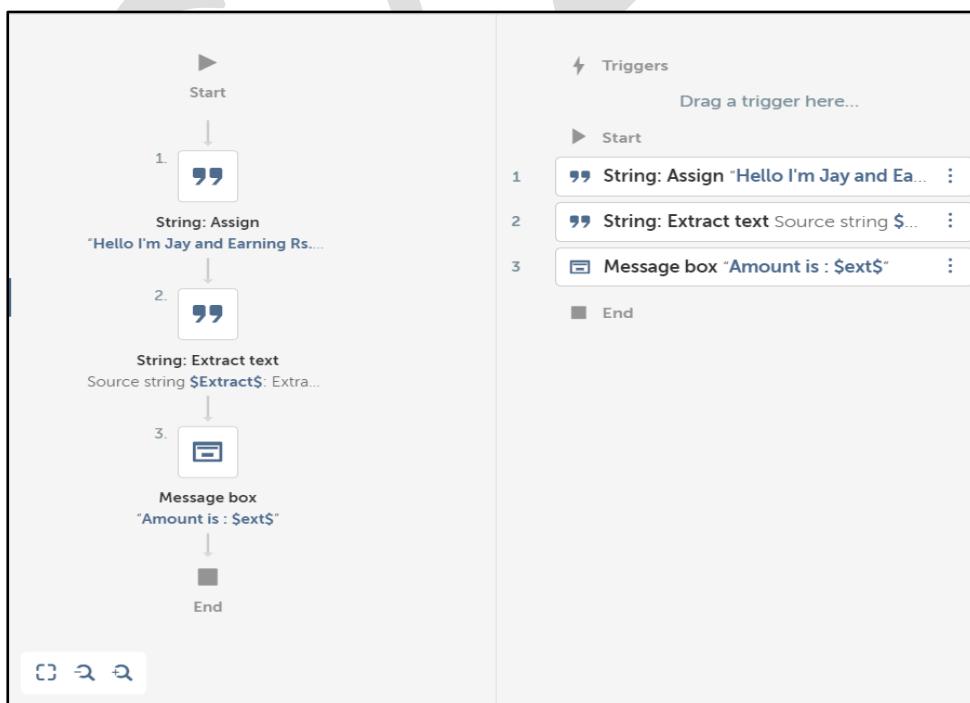
Output:

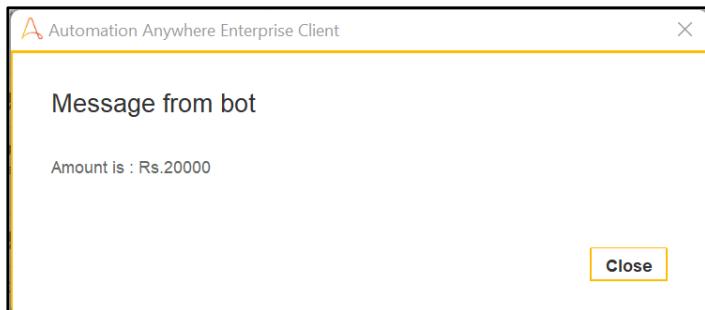
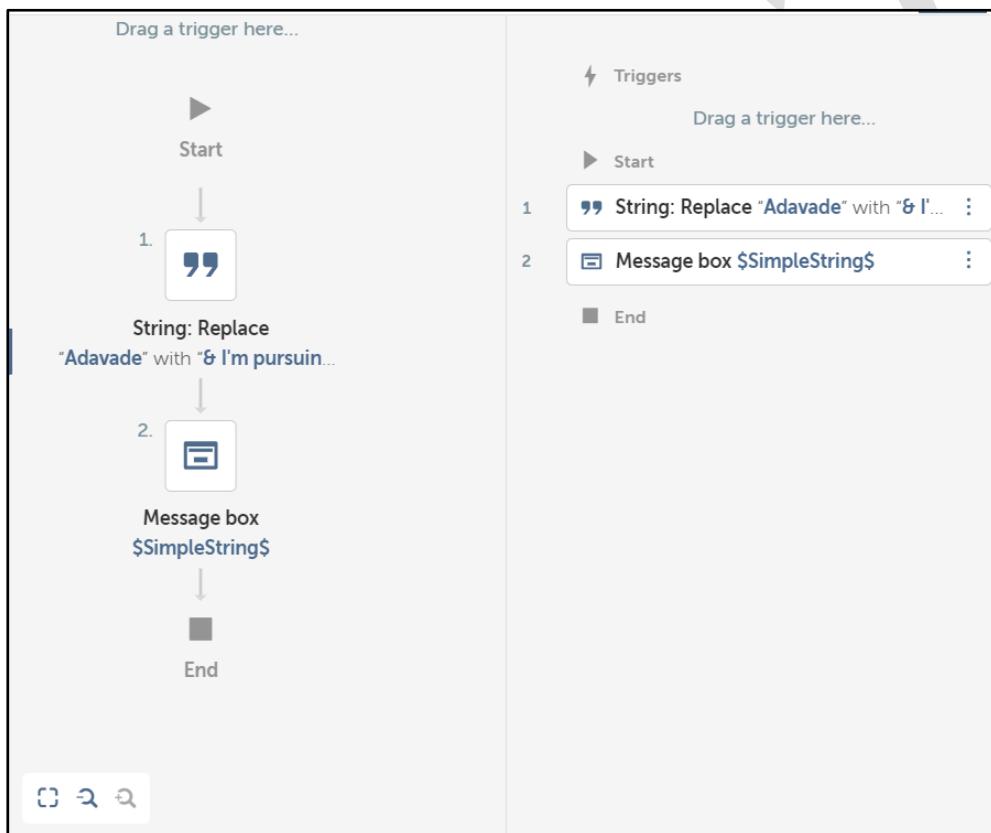
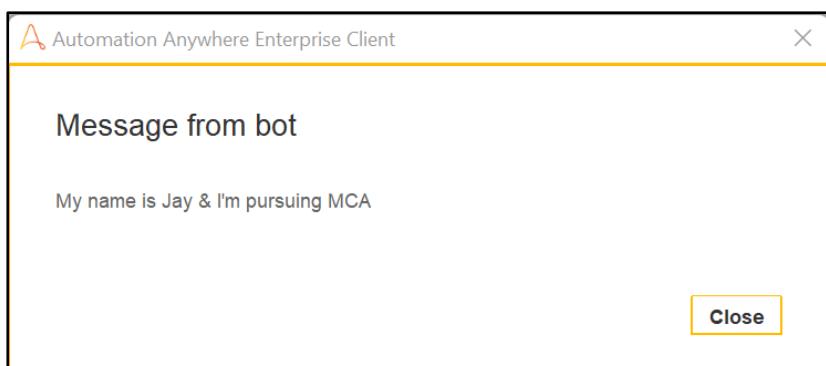




Extract:

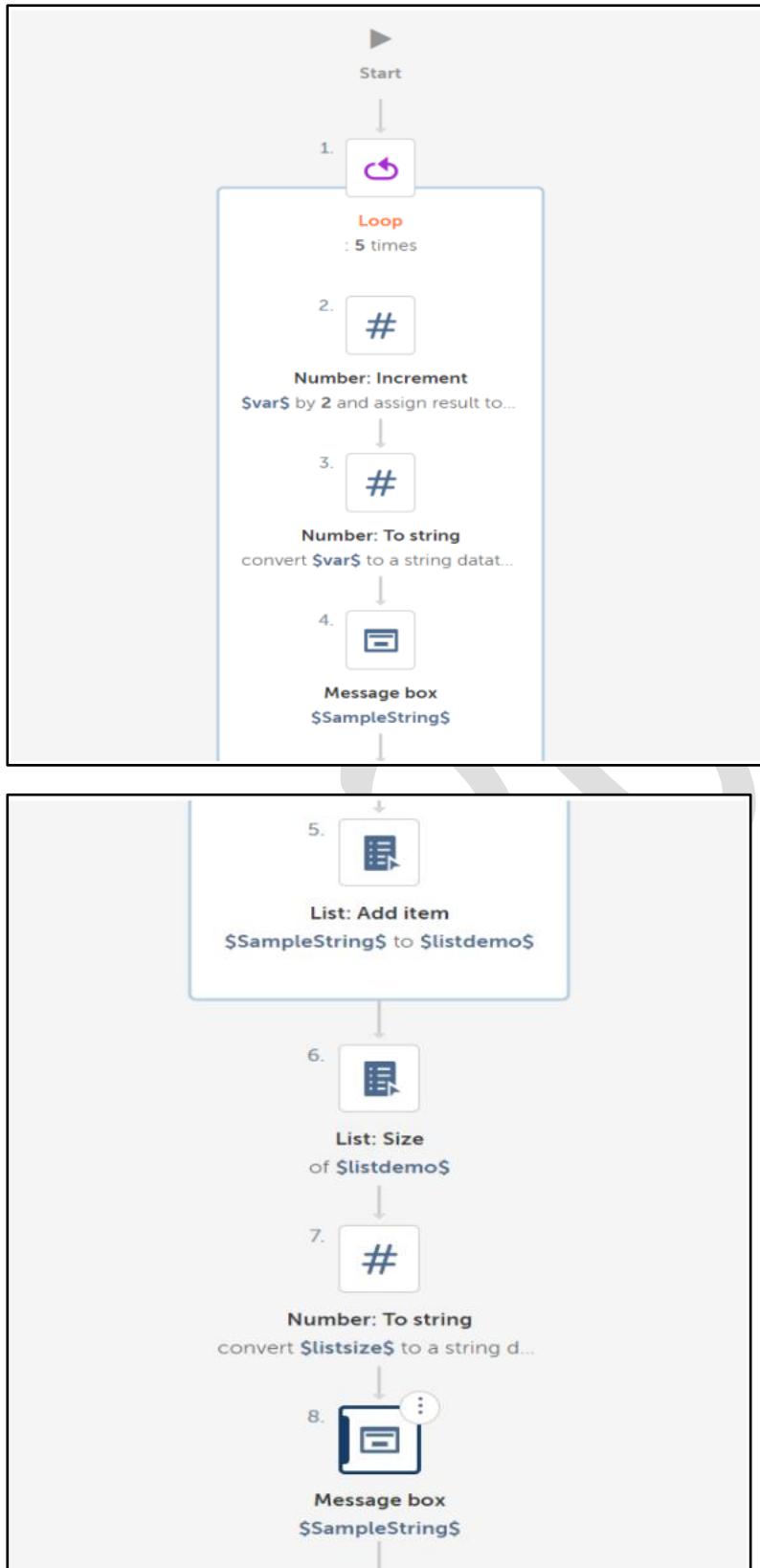
Screenshot:

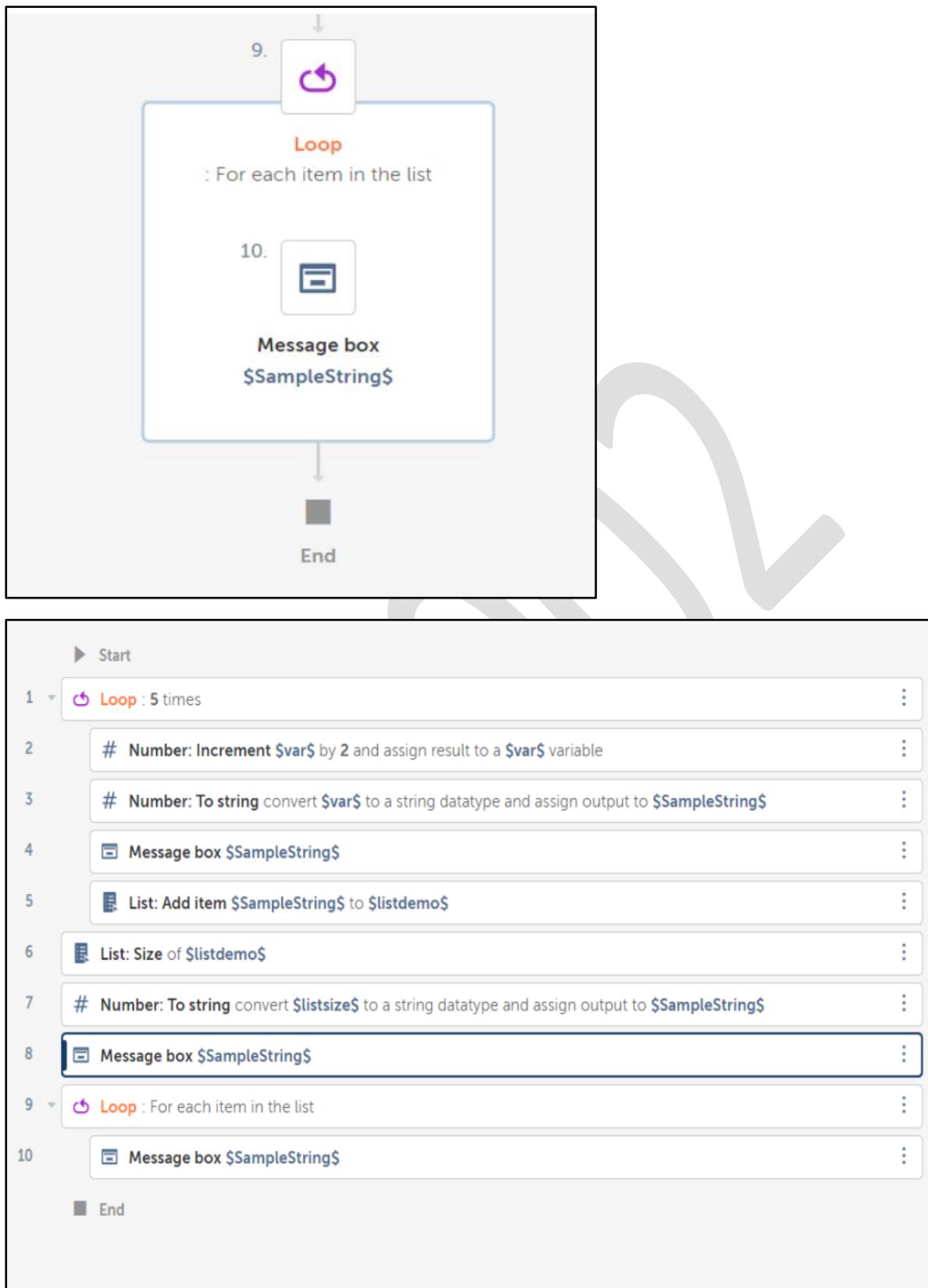


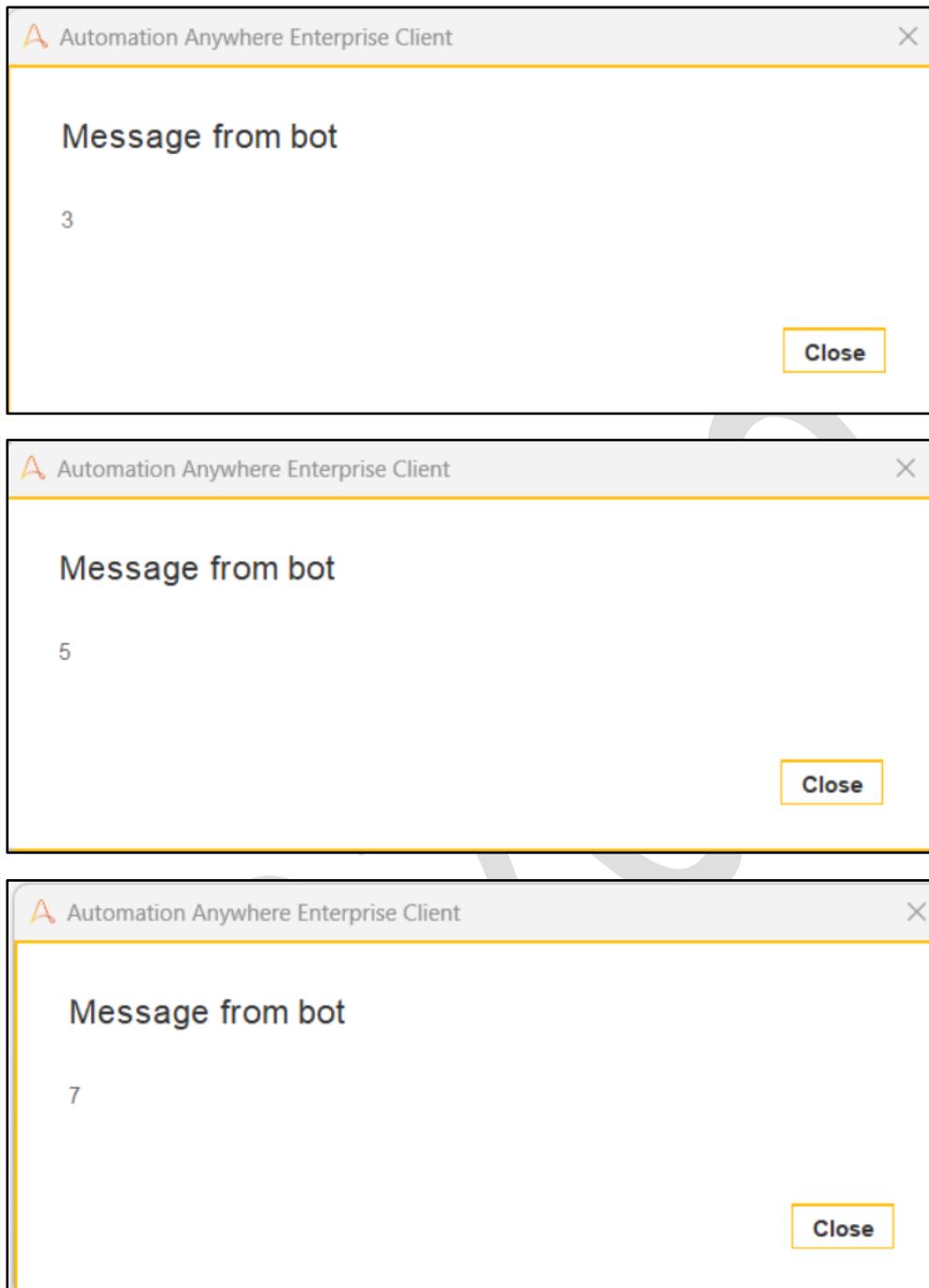
Output:**Replace:****Screenshot:****Output:**

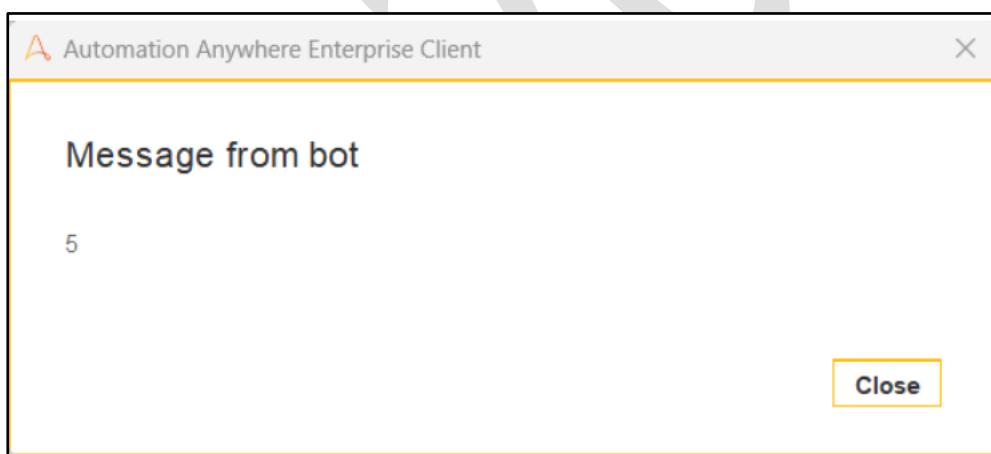
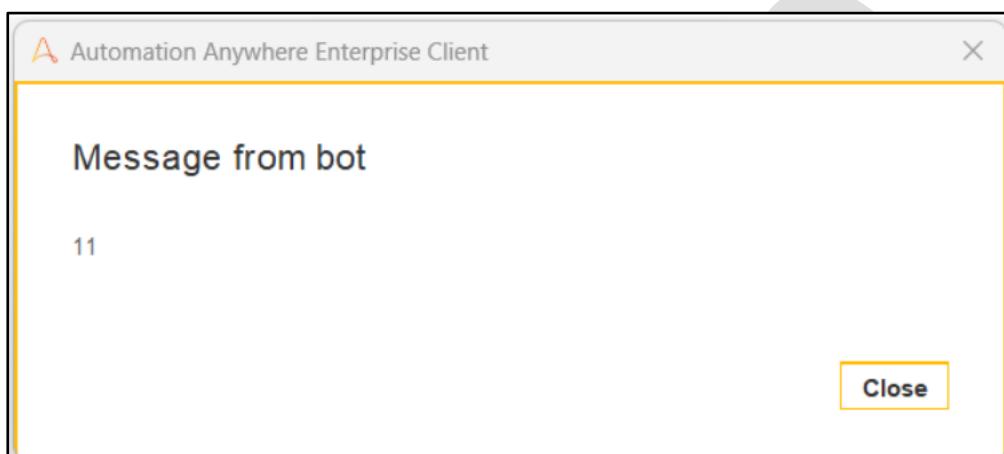
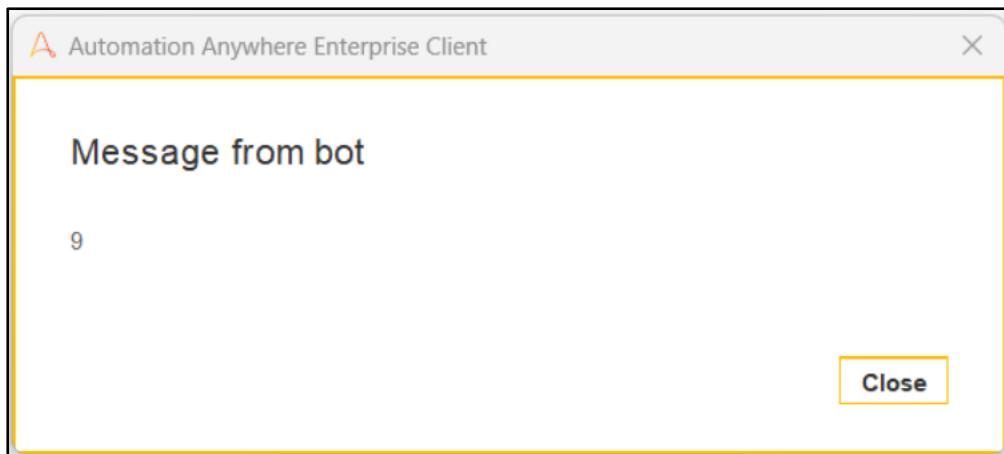
Aim: Bot to Demonstrate loop using Number Package

Screenshots:





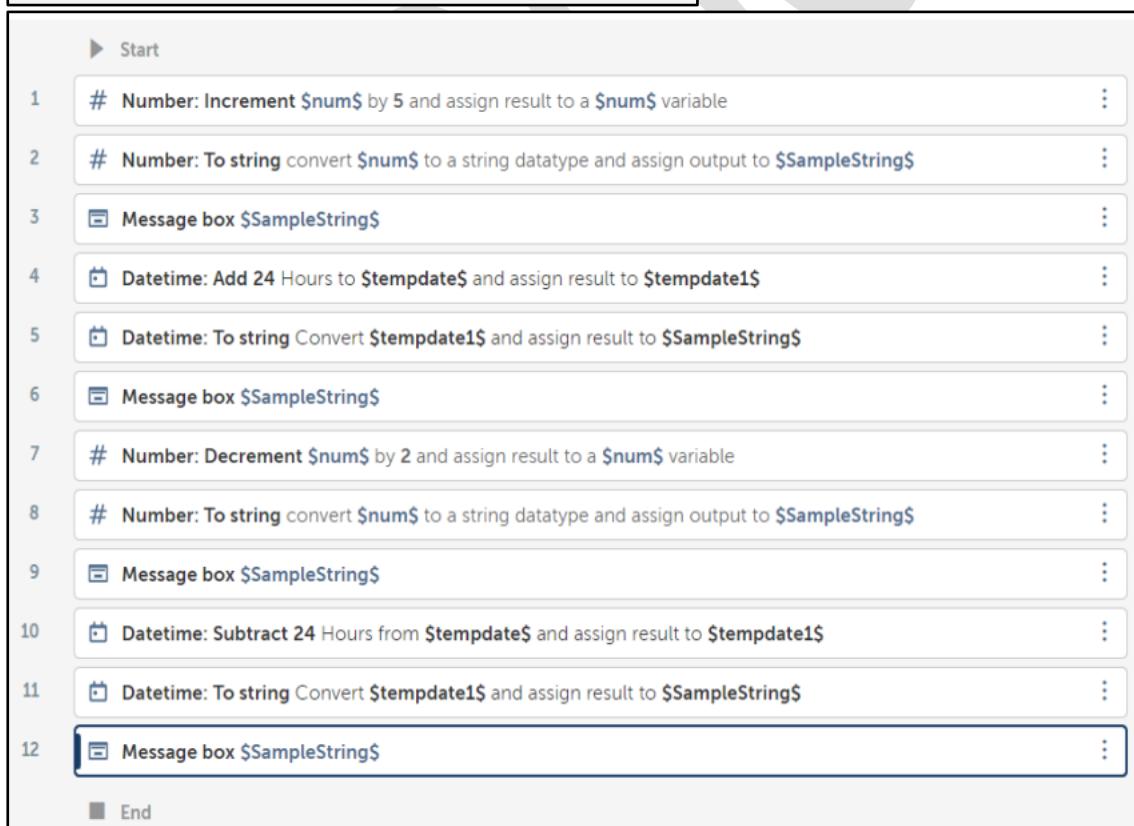
Output:

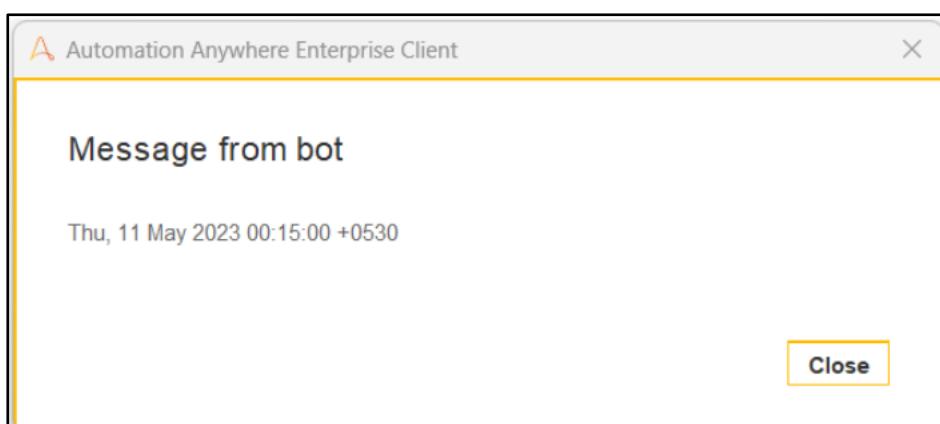
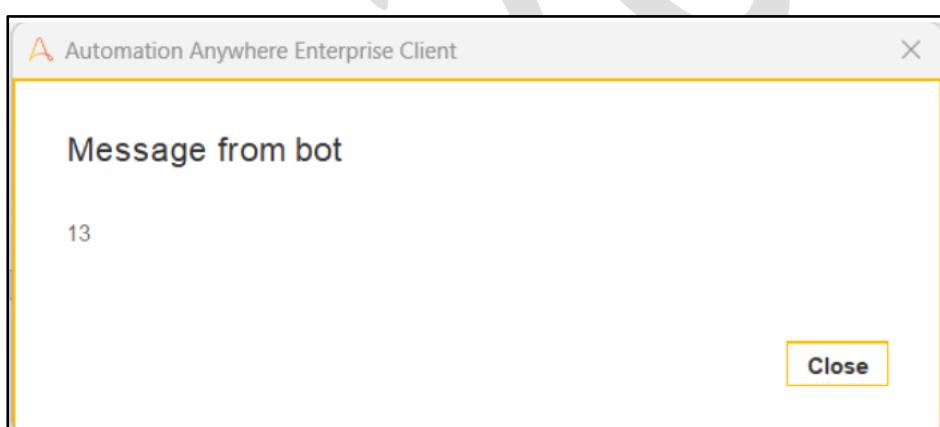
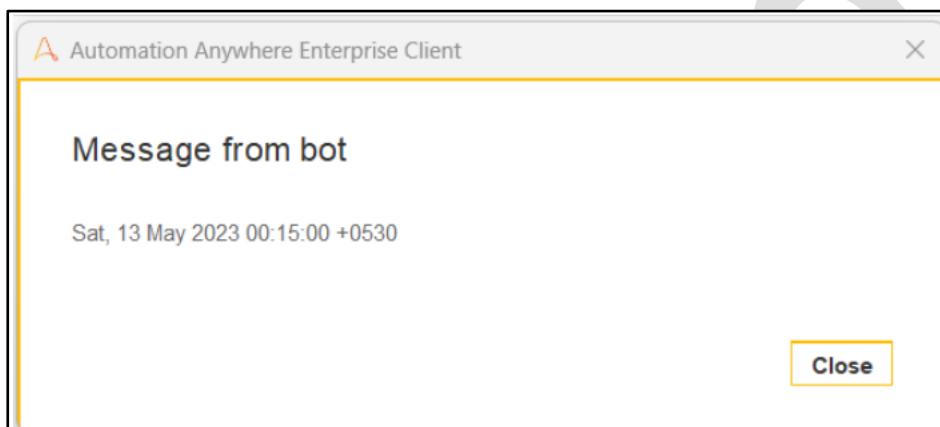
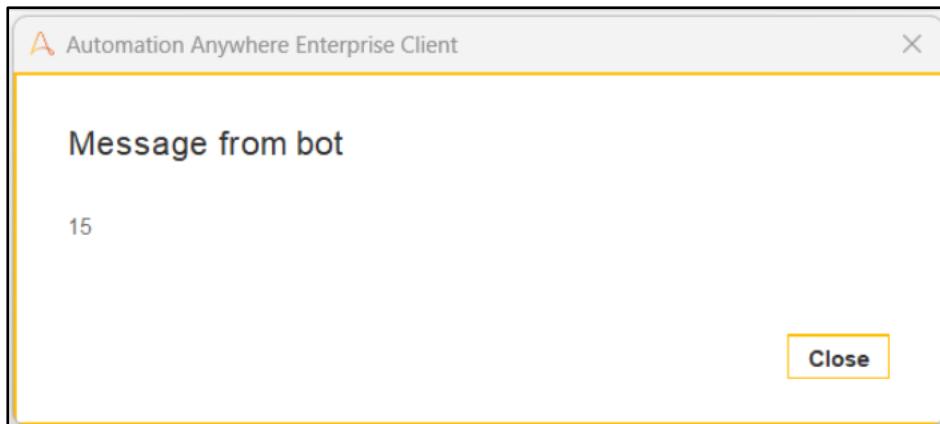


Aim: Bot to Demonstrate increment and decrement action on number and datetime variables.

Screenshots:



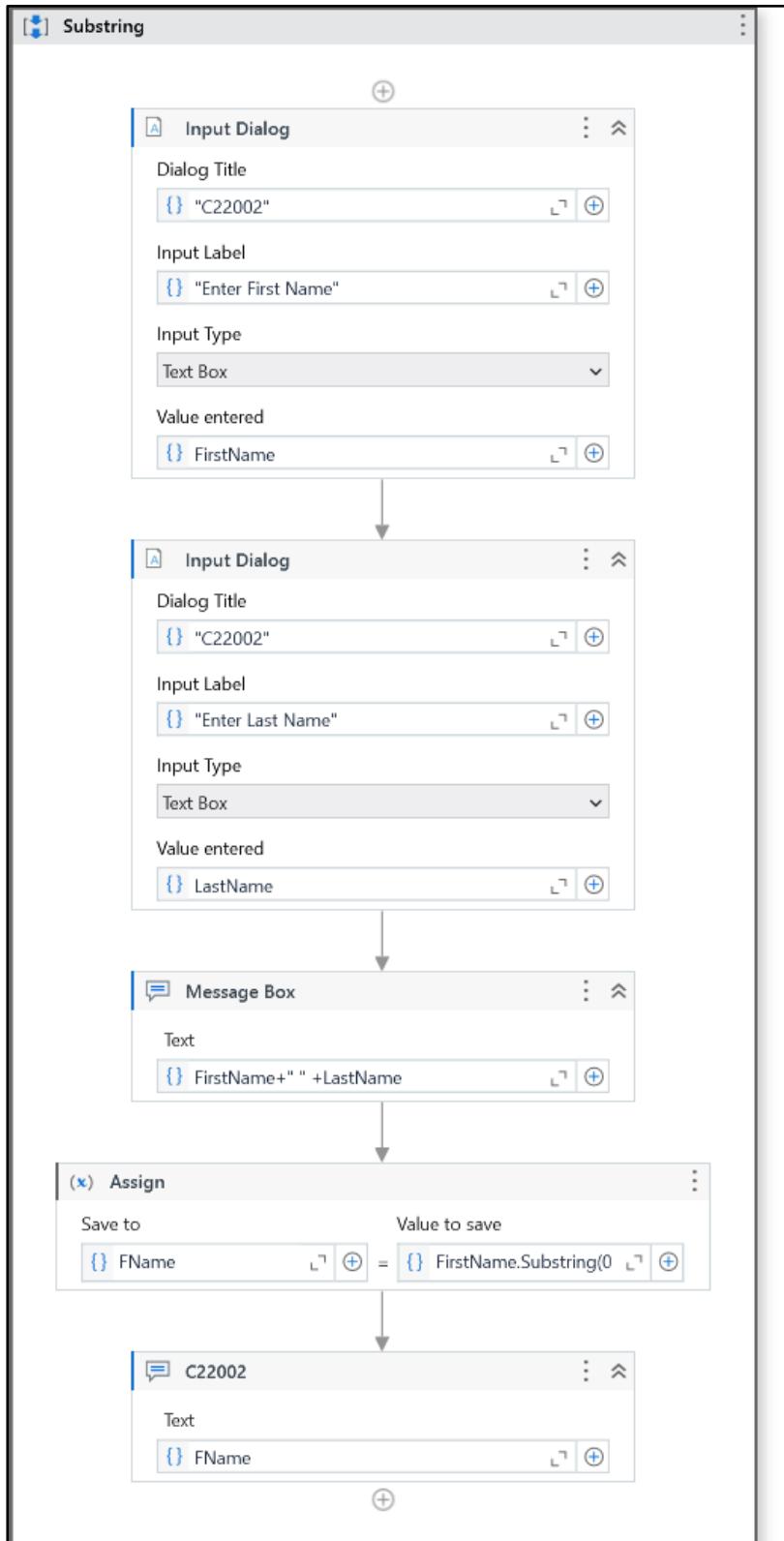


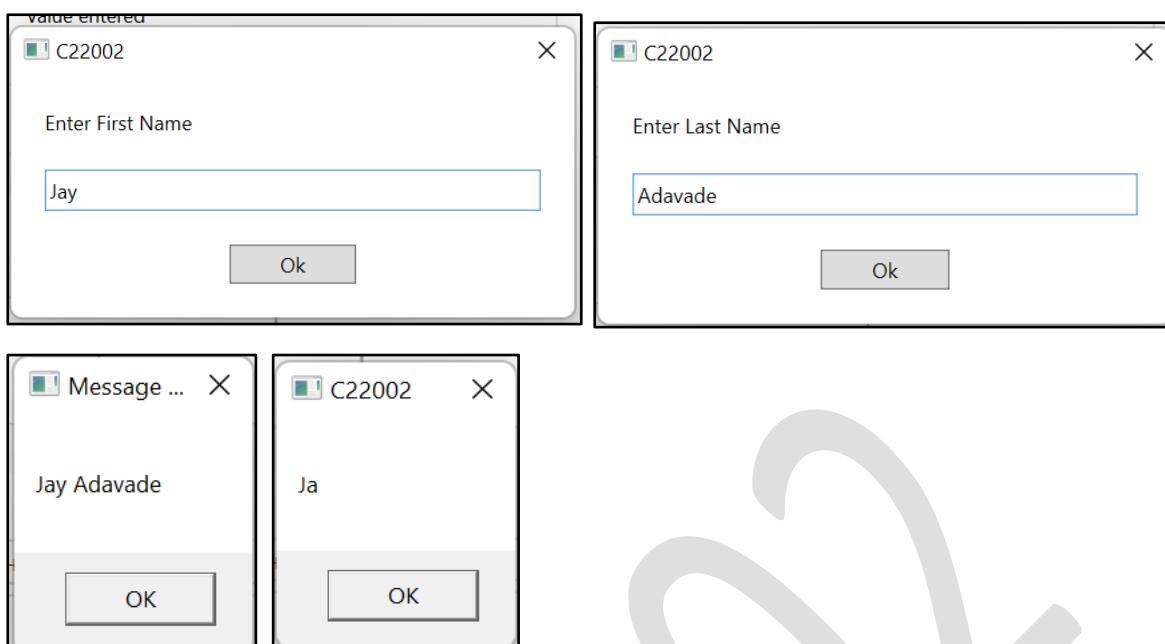
Output:

Category 2: UiPath

Aim: Demonstrate substring using string variable

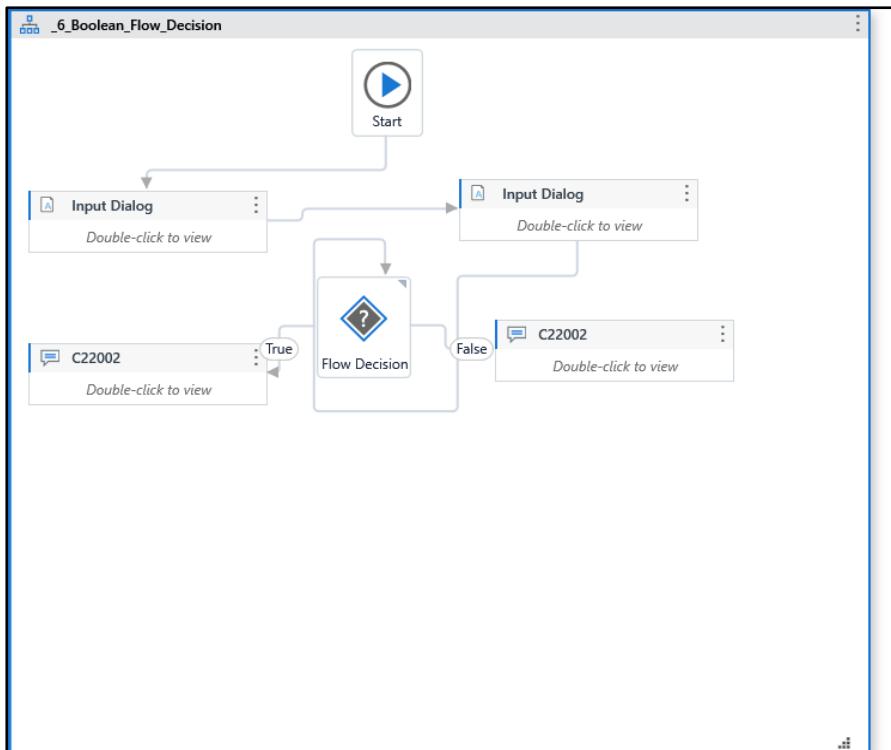
Screenshots:



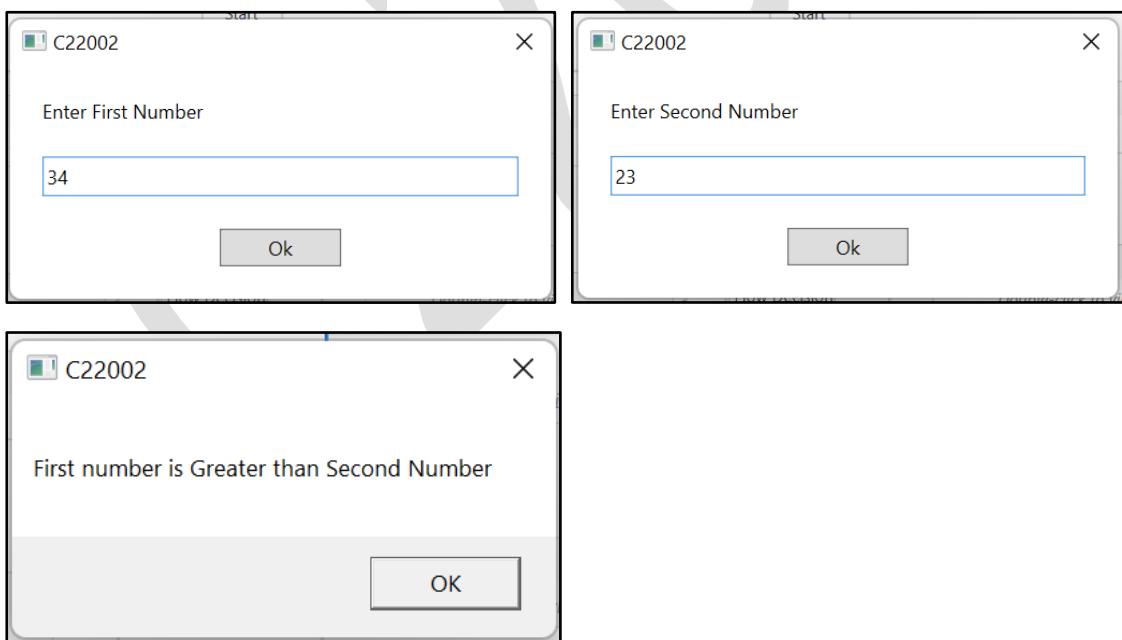
Output:

Aim: Demonstrate Boolean variable using flow decision

Screenshots:

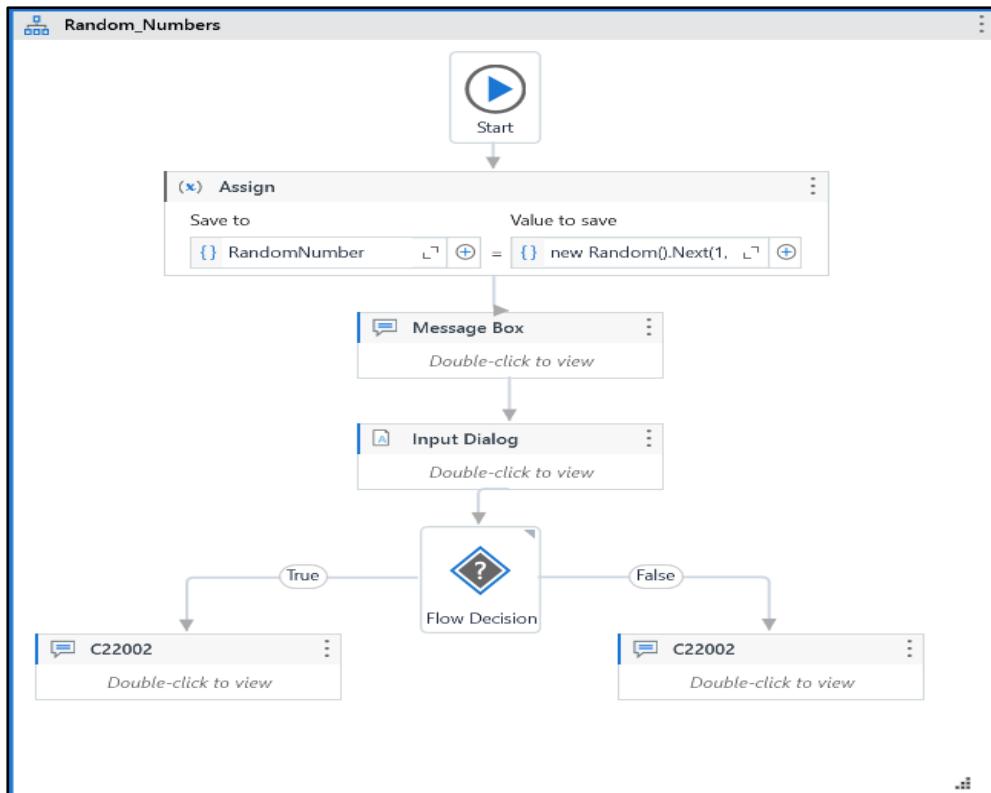


Output:



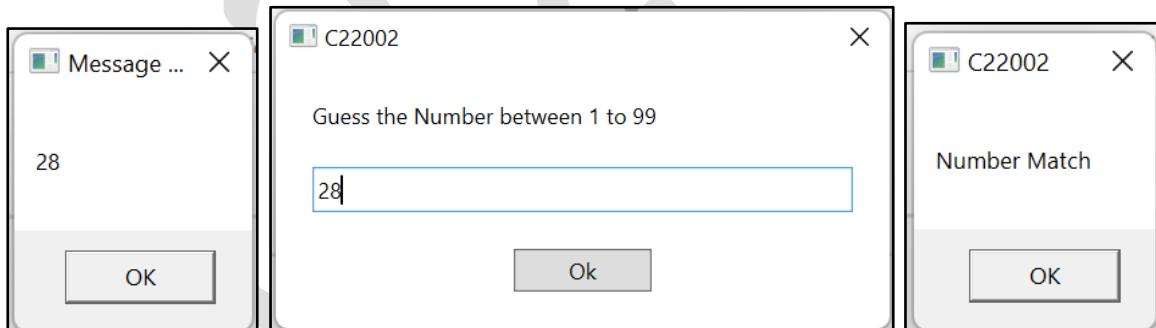
Aim: Demonstrate flow decision for random numbers

Screenshots:

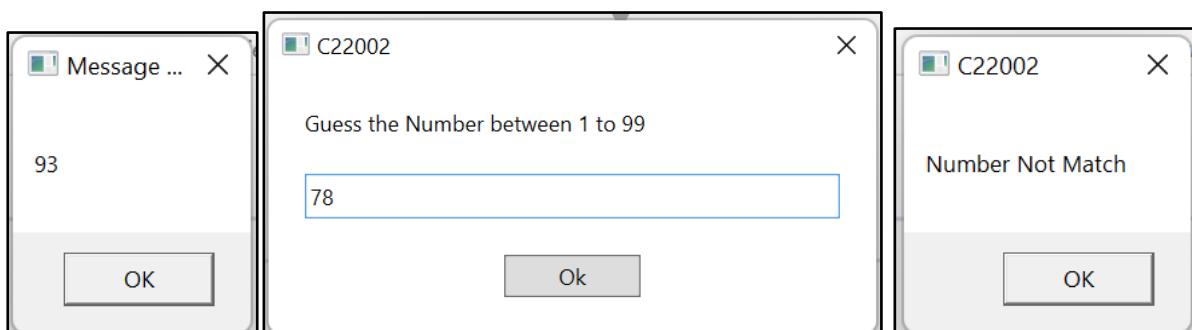


Output:

Number Match:

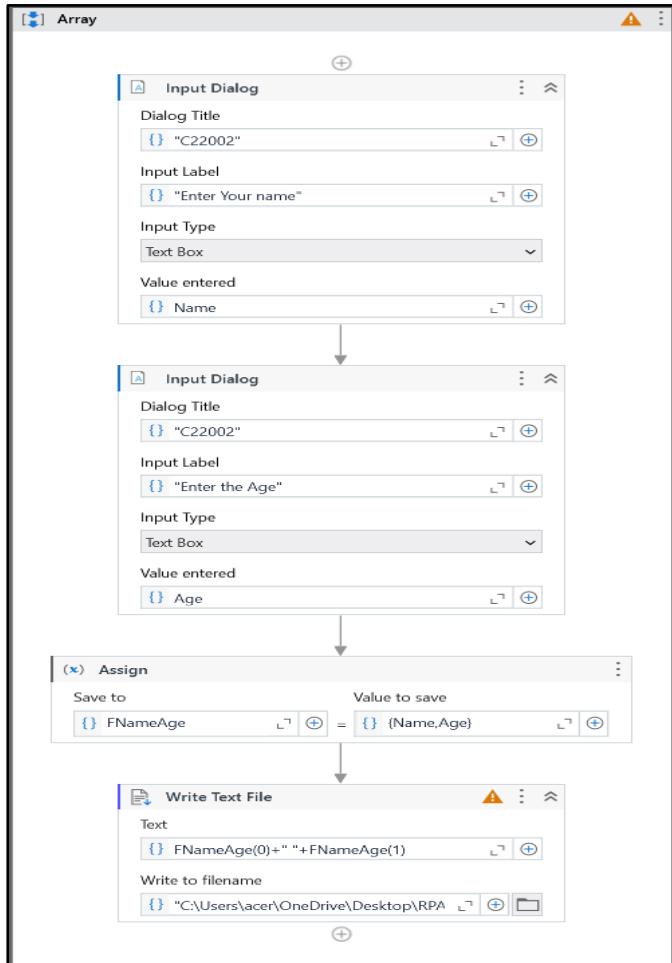


Number Not Match:

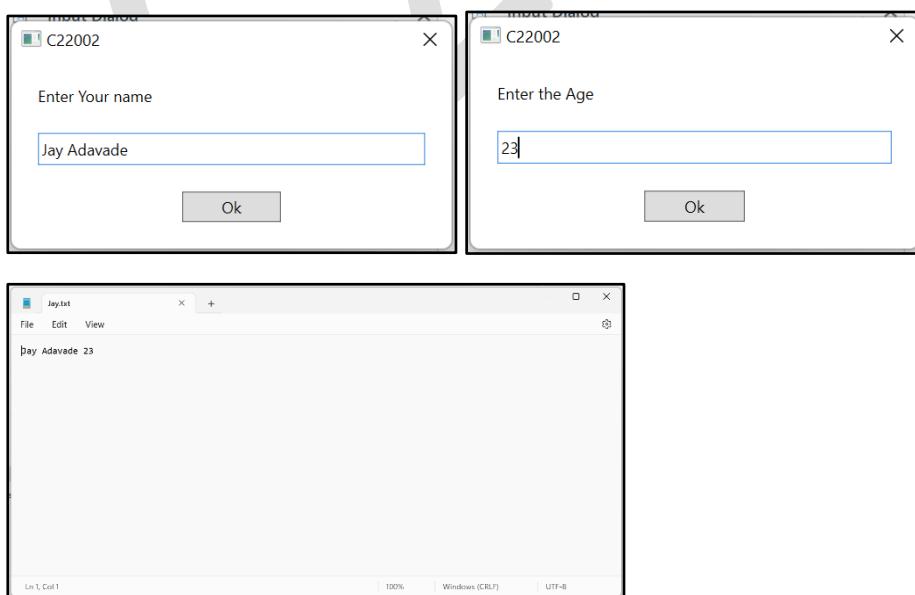


Aim: Design a bot to accept two strings: Name and age, store it into array and write it into notepad file.

Screenshots:

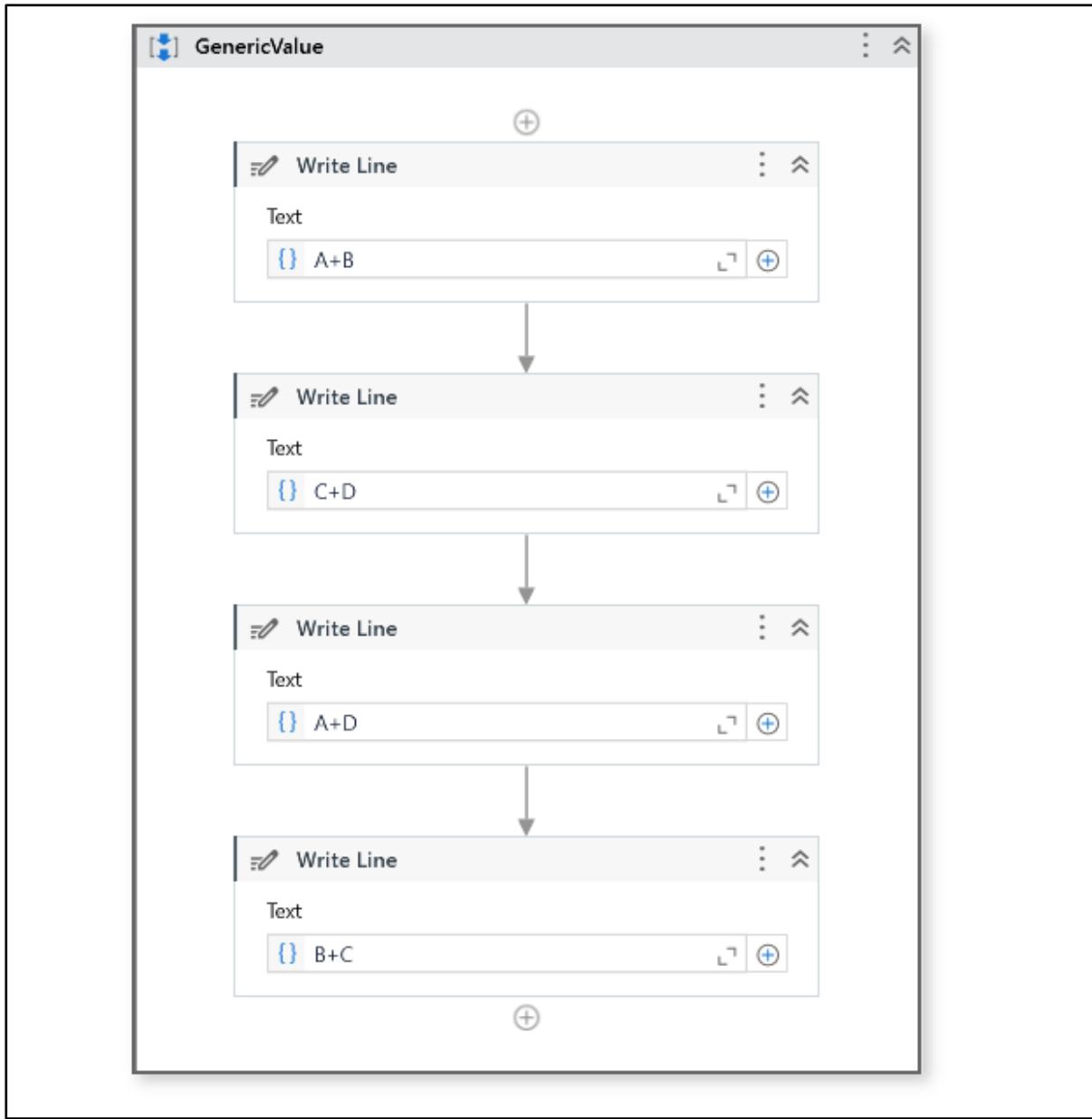


Output:



Aim: Demonstrate generic value variables

Screenshots:



Output:

The output window displays the execution log for the RPA script. It includes various status icons (clock, triangle, exclamation, etc.) and a search bar. The log entries are:

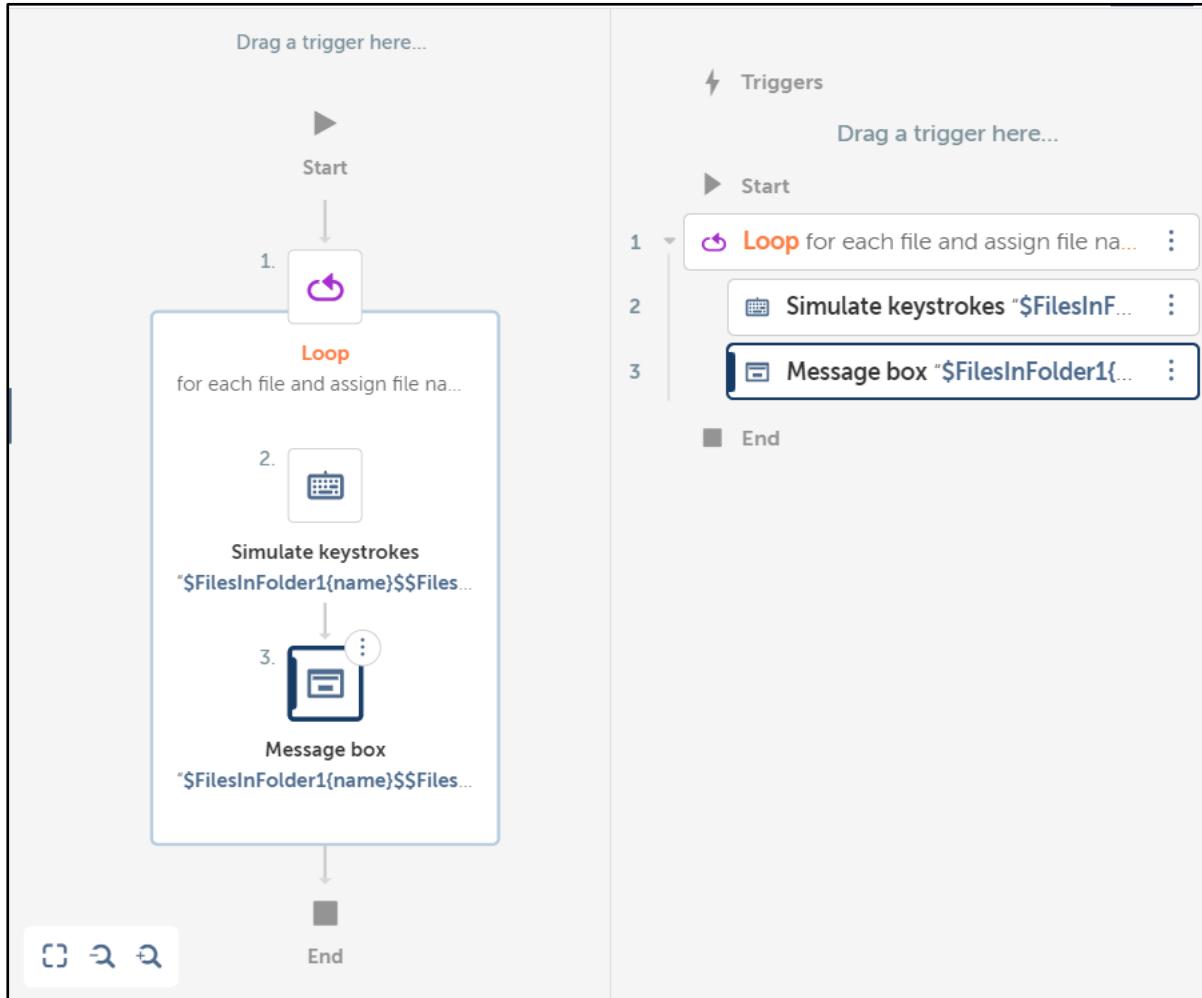
- ① Debug started for file: 9_Generic_Value
- ① Recoding execution started
- ① 123456
- ① 579
- ① 123456
- ① 246
- ① Recoding execution ended in: 00:00:00

At the bottom, there are tabs for 'Output', 'Breakpoints', and 'Error List'.

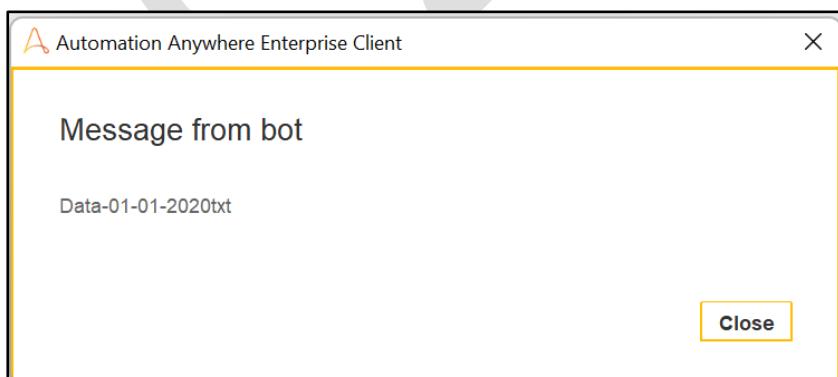
Category 3: Automation Anywhere

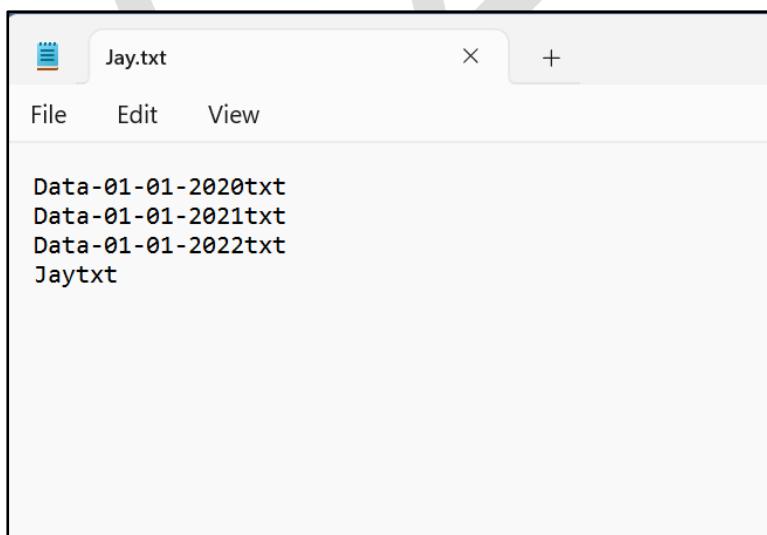
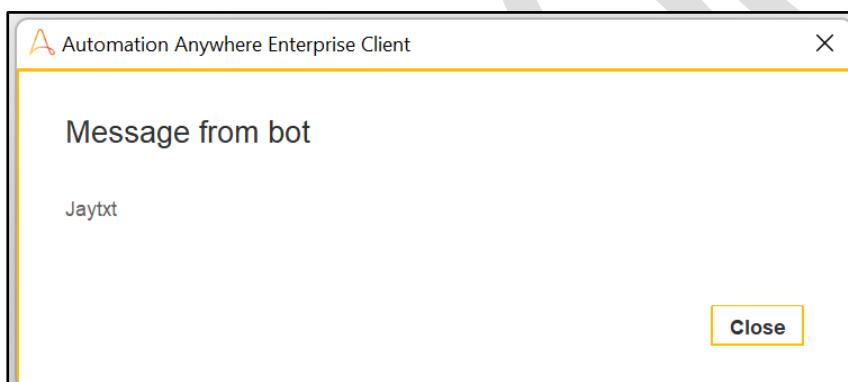
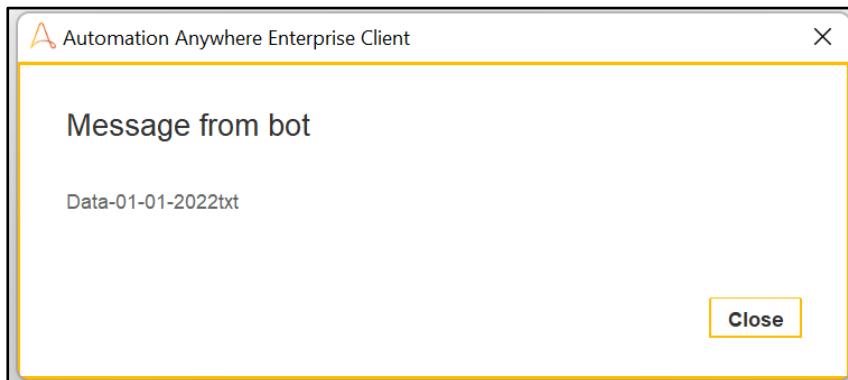
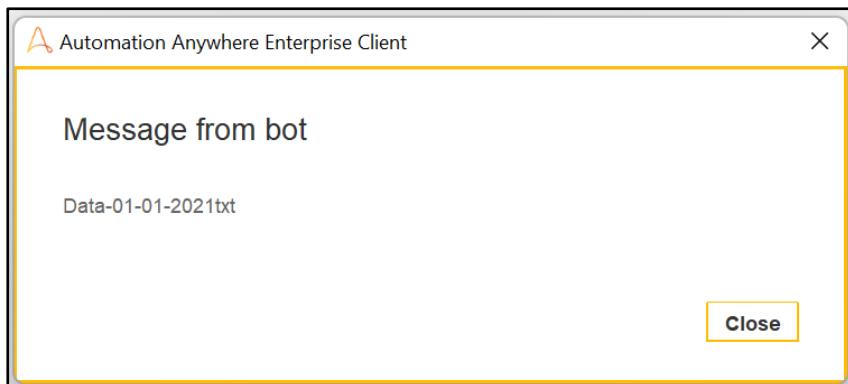
Aim: Bot to Demonstrate loop for reading file names in a folder and writing those into notepad file.

Screenshots:



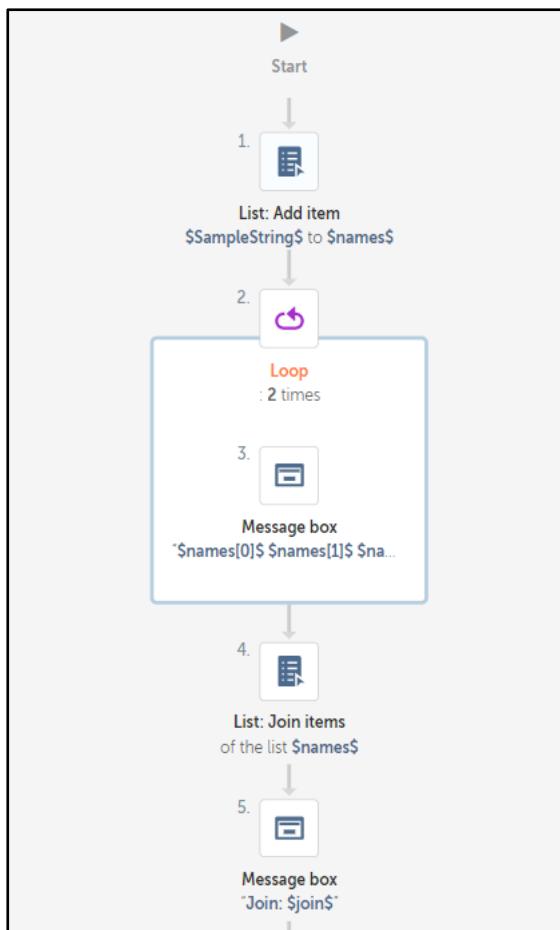
Output:

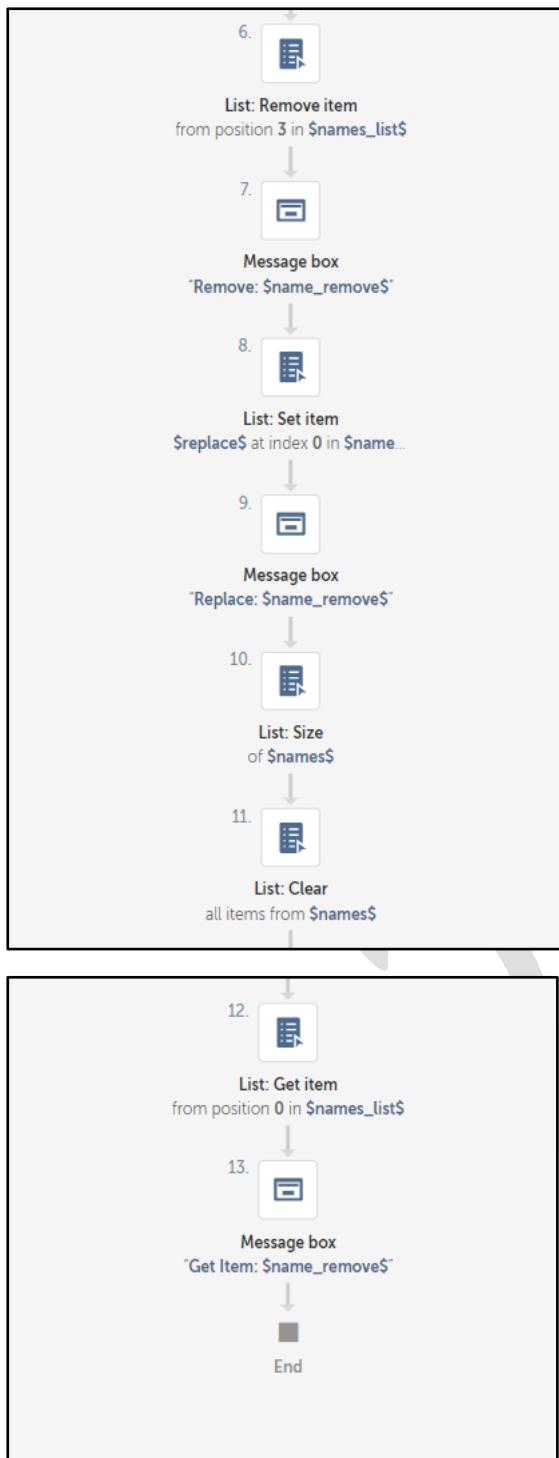


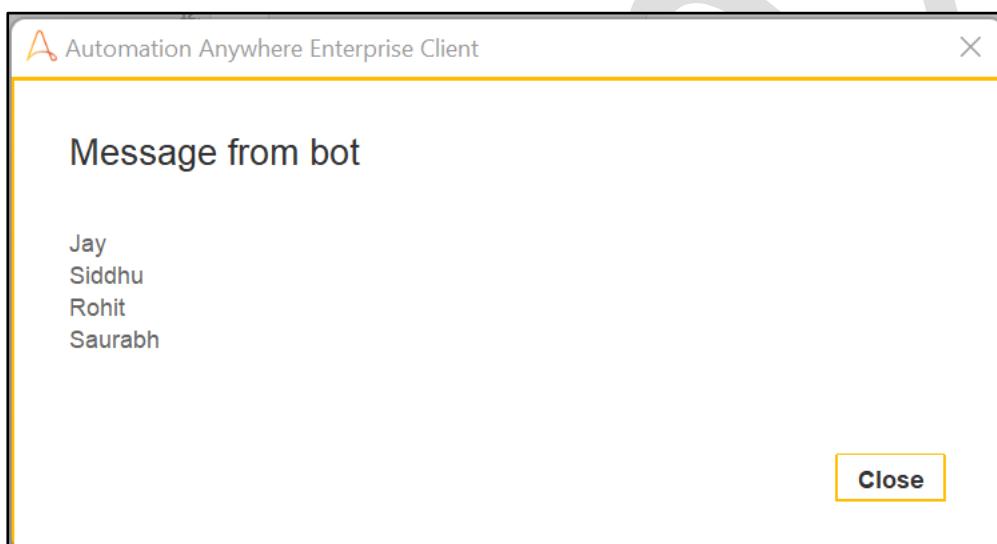
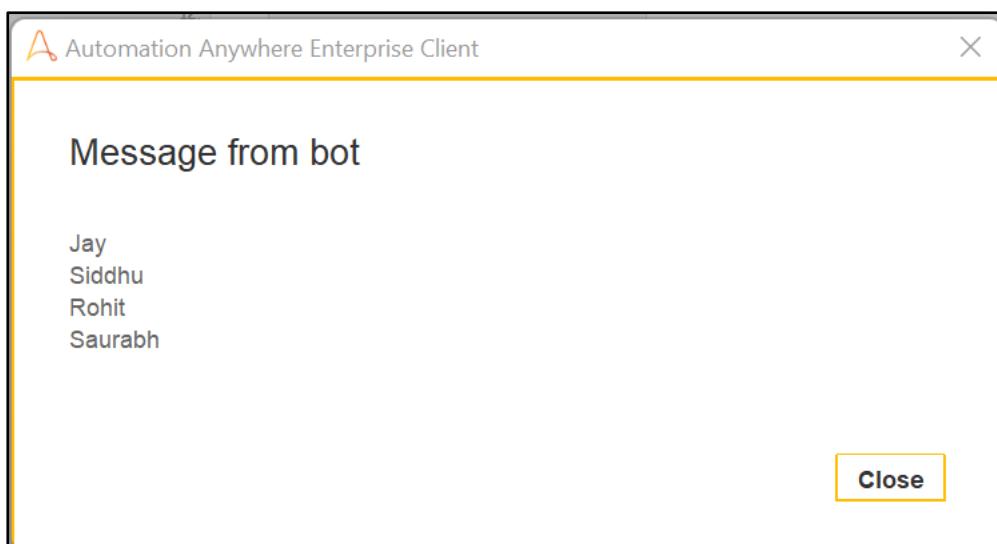


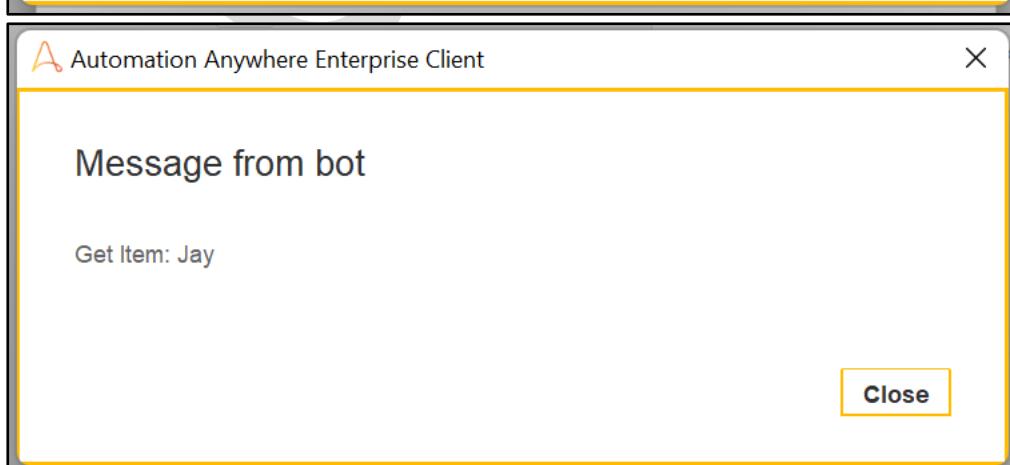
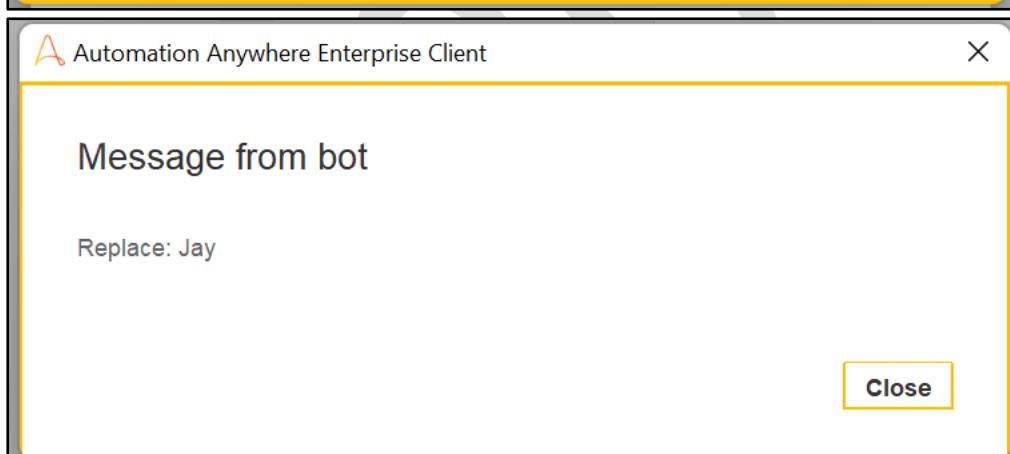
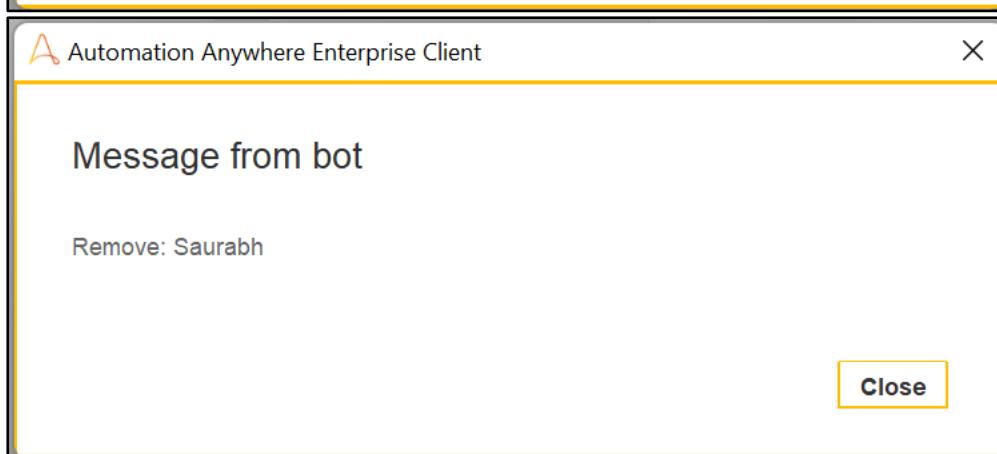
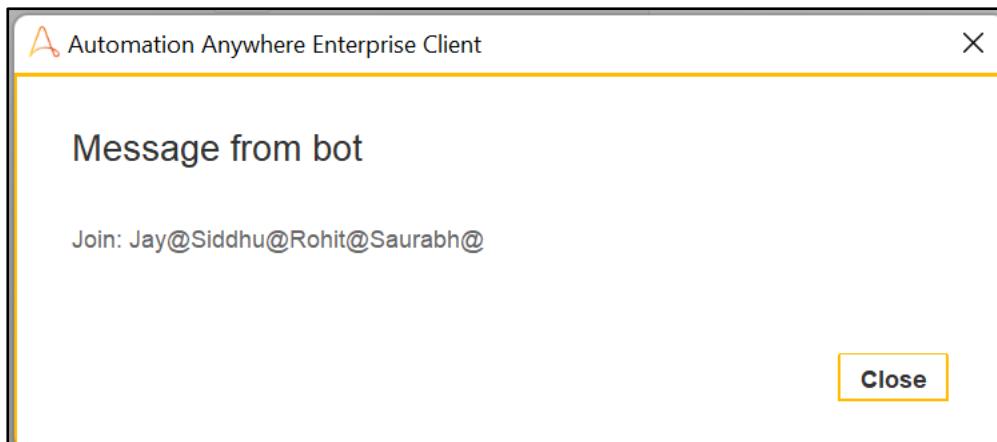
Aim: Bot to Demonstrate list variable using list package.

Screenshots:





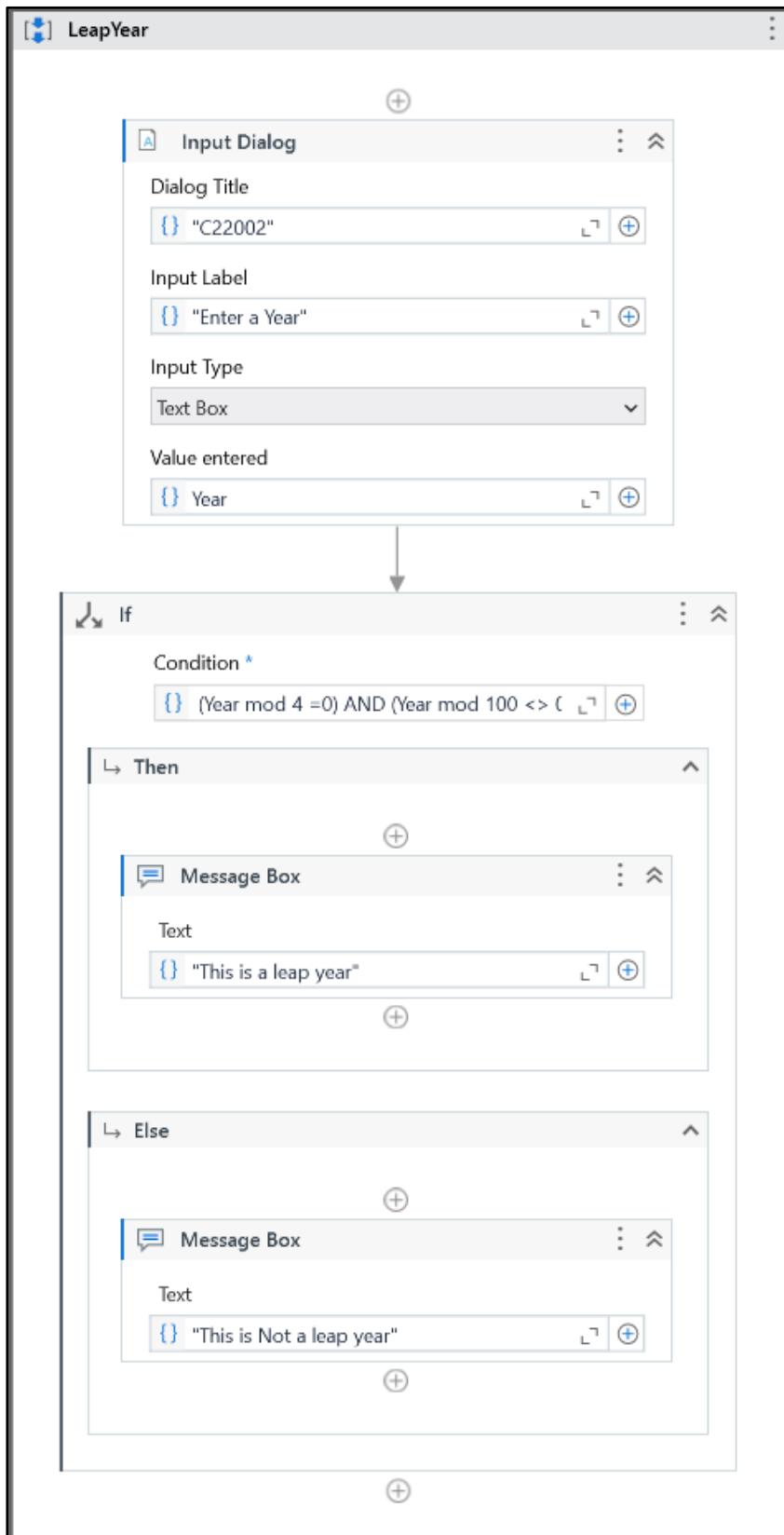
Output:

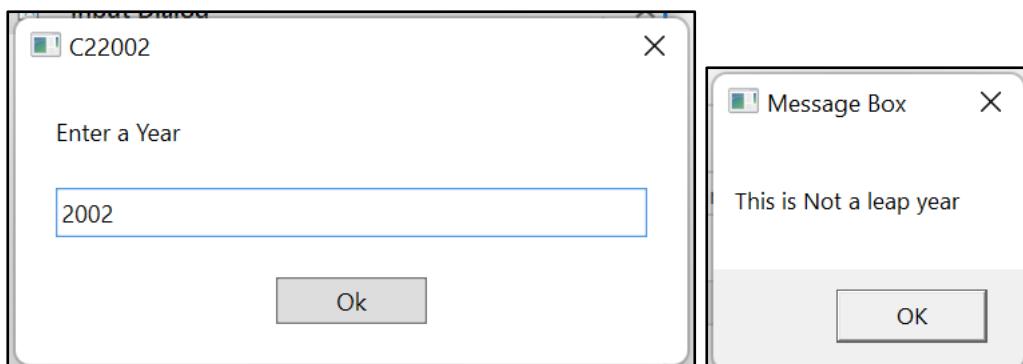
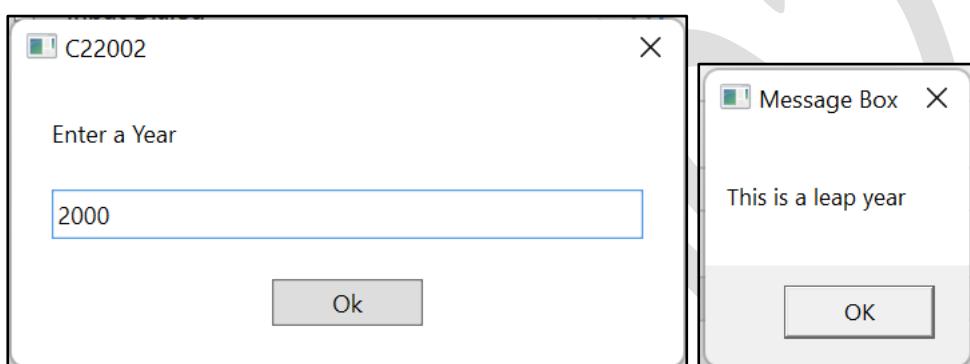


Category 3: UiPath

Aim: Write a bot to check year is a leap year.

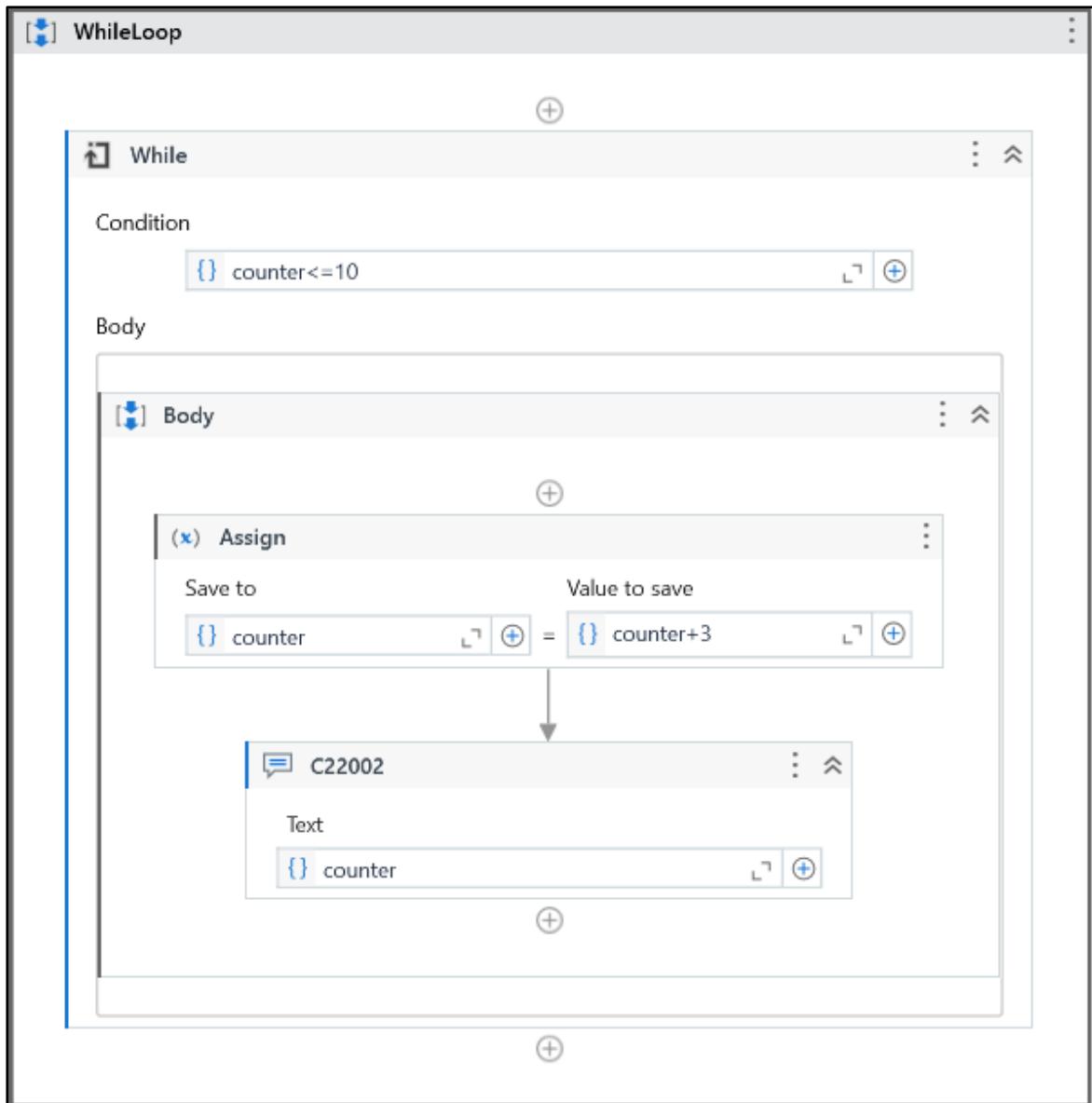
Screenshot:



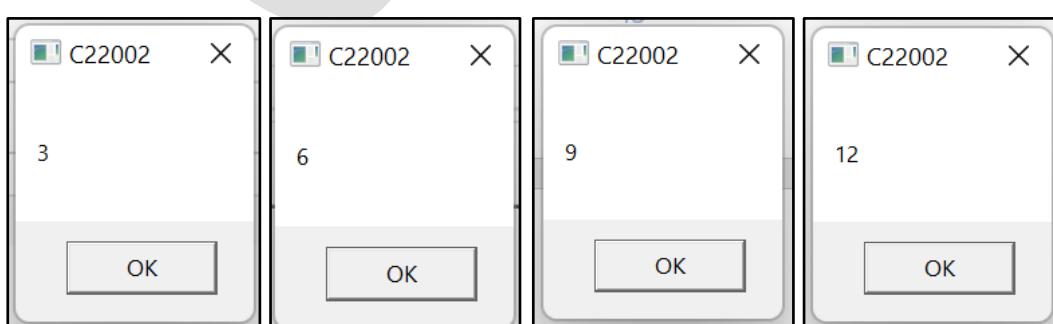
Output:**Not Leap Year****Leap Year**

Aim: Demonstrate While Loop.

Screenshot:

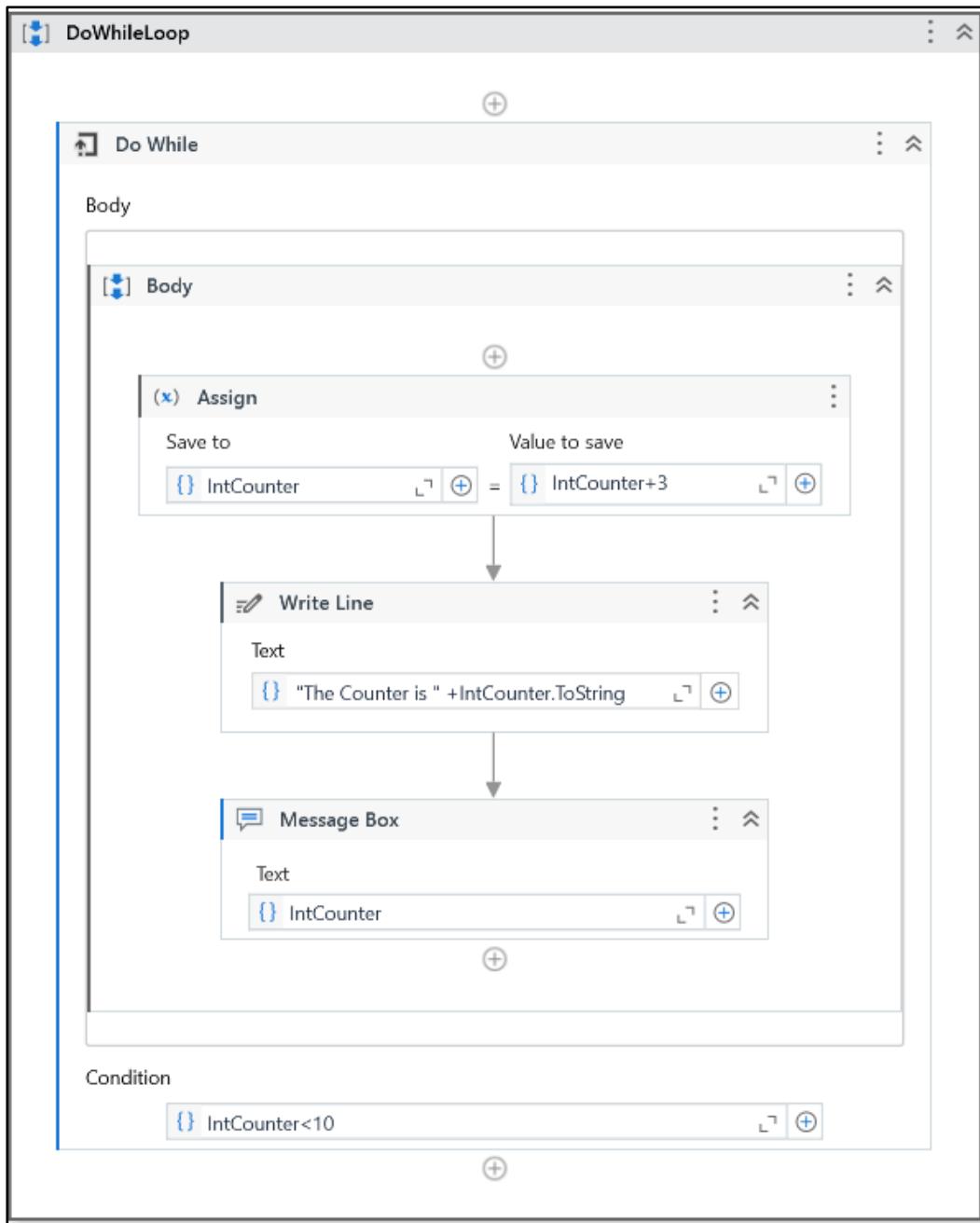


Output:

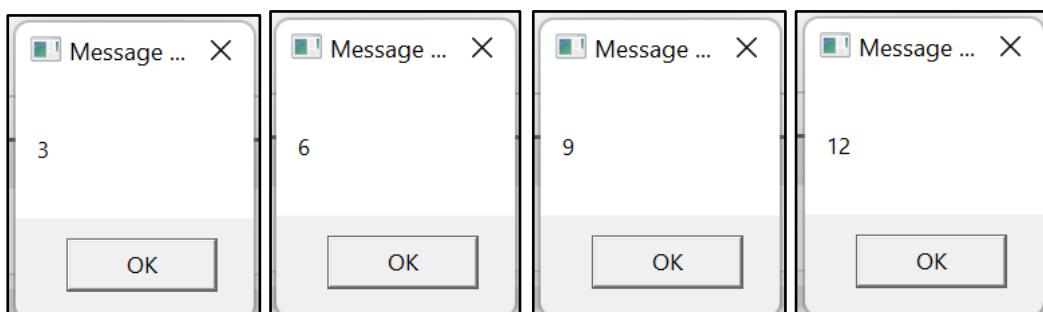


Aim: Demonstrate Do While Loop.

Screenshot:

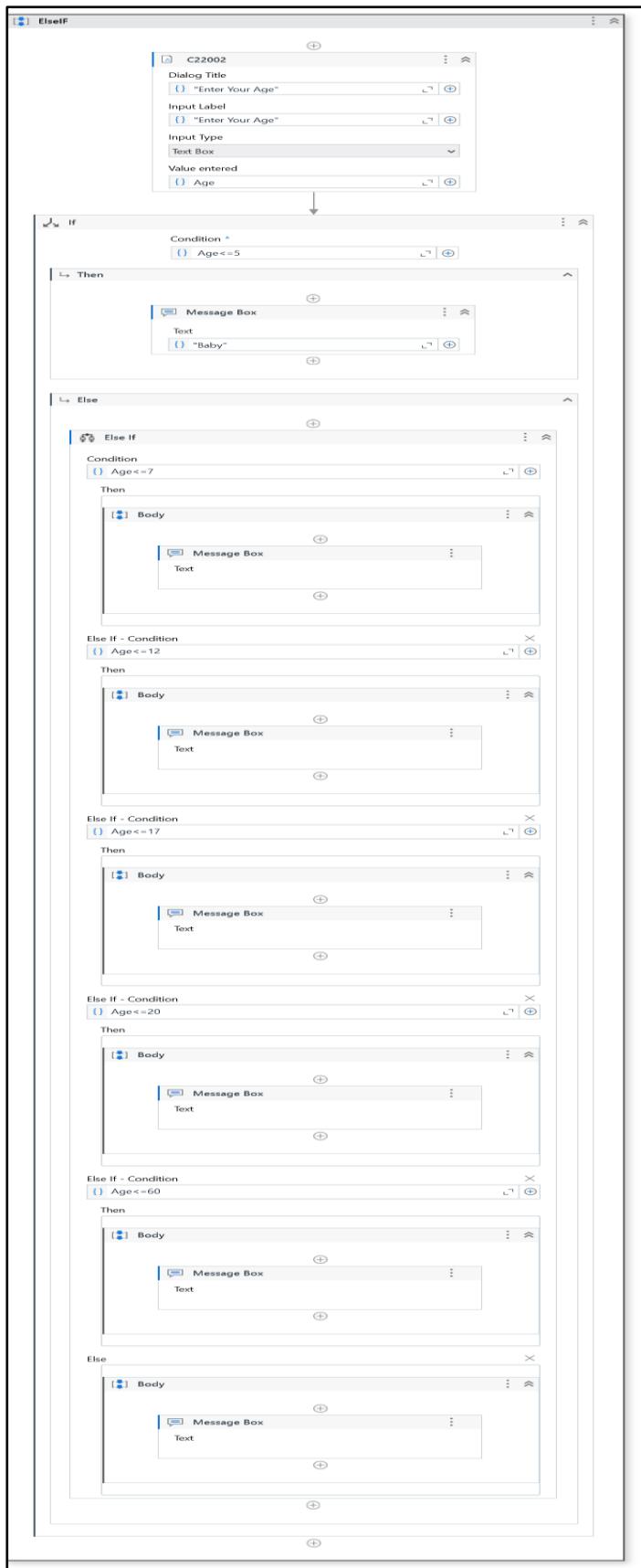


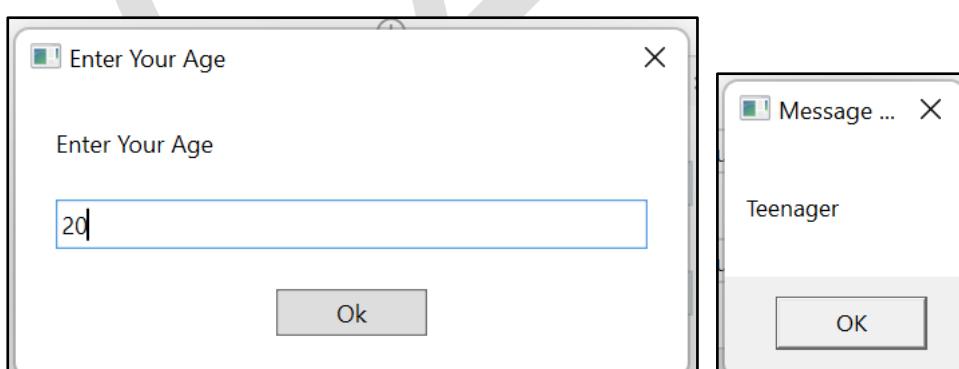
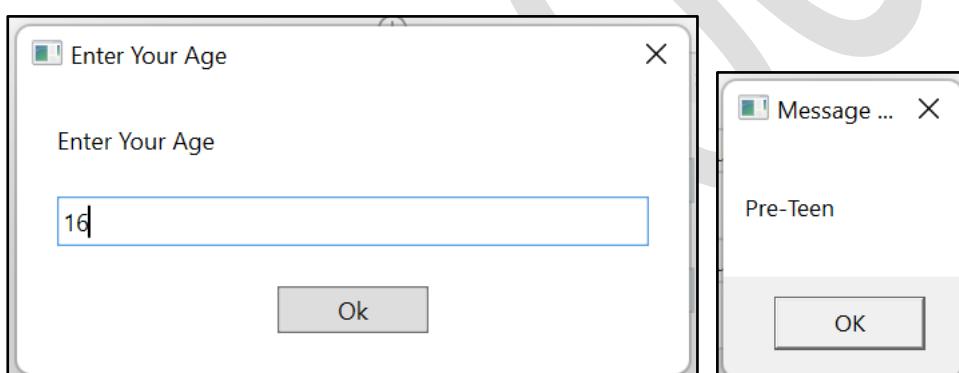
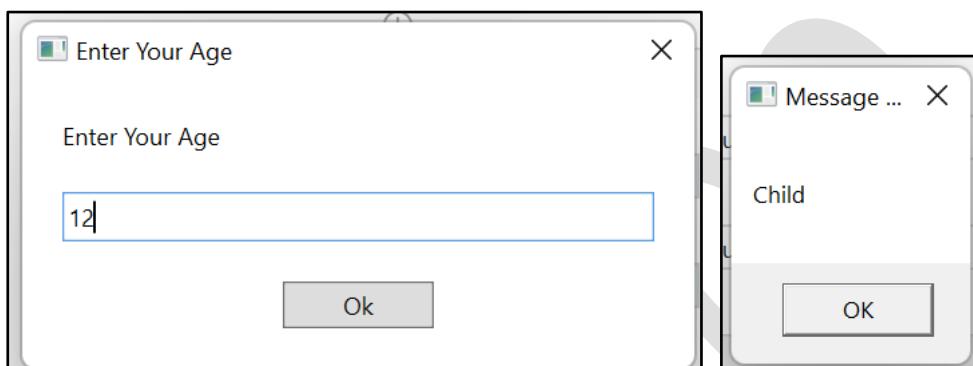
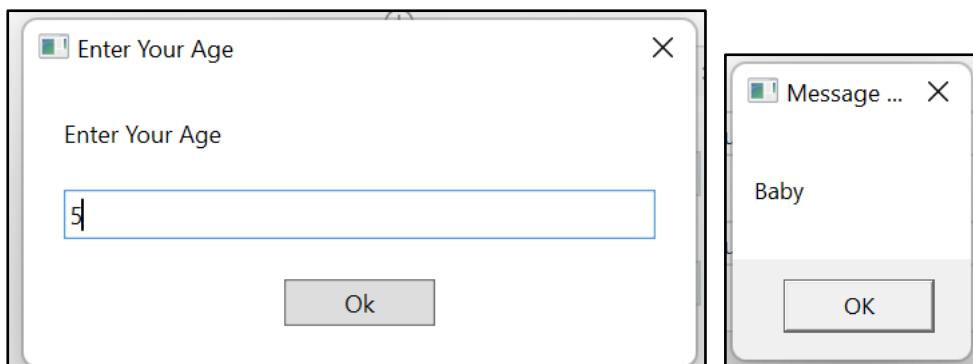
Output:

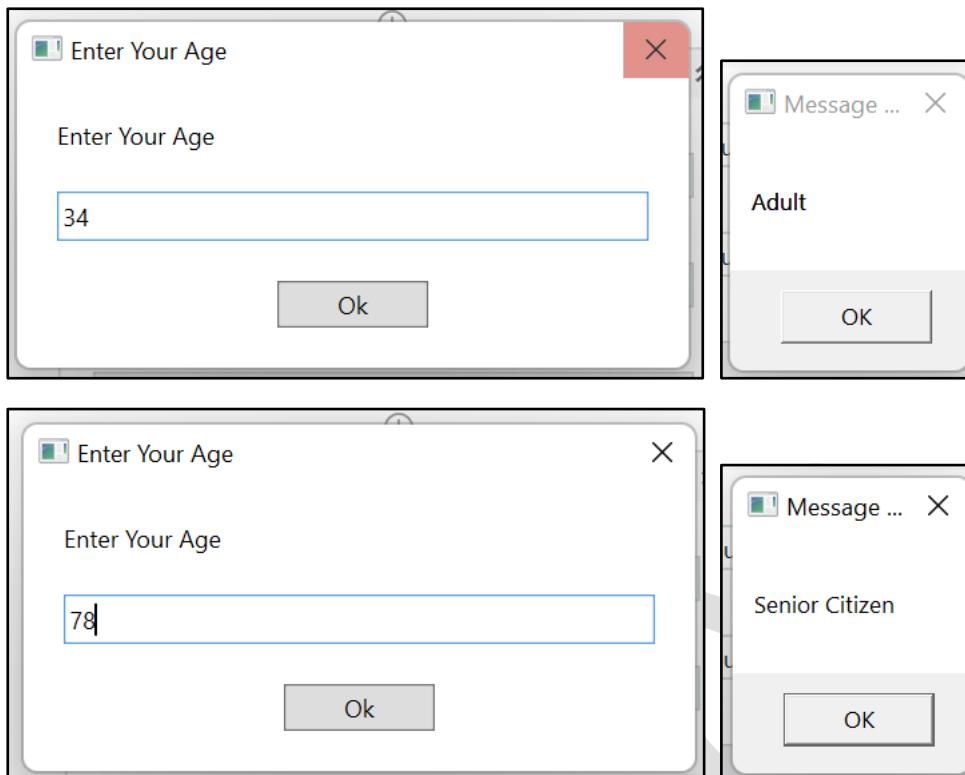


Aim: Demonstrate Else If.

Screenshot:

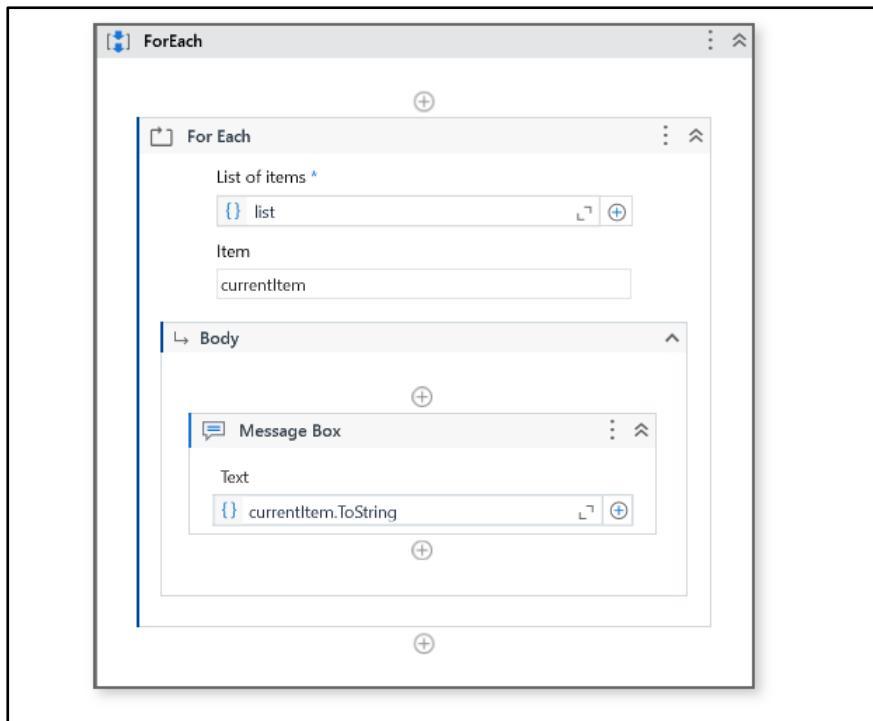


Output:

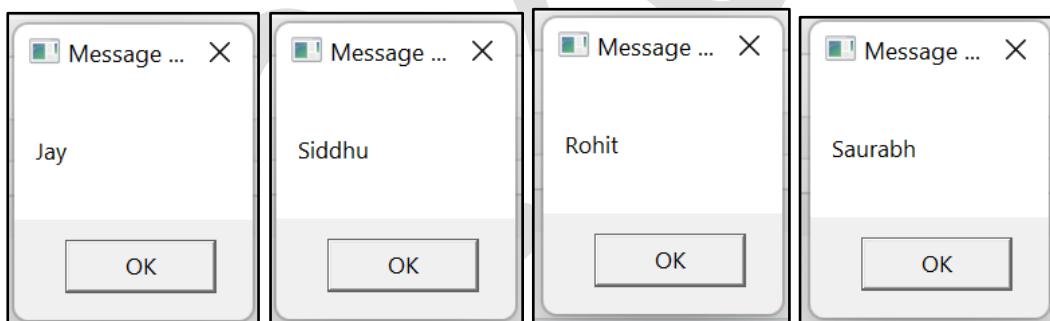


Aim: Demonstrate ForEach for list variable.

Screenshot:

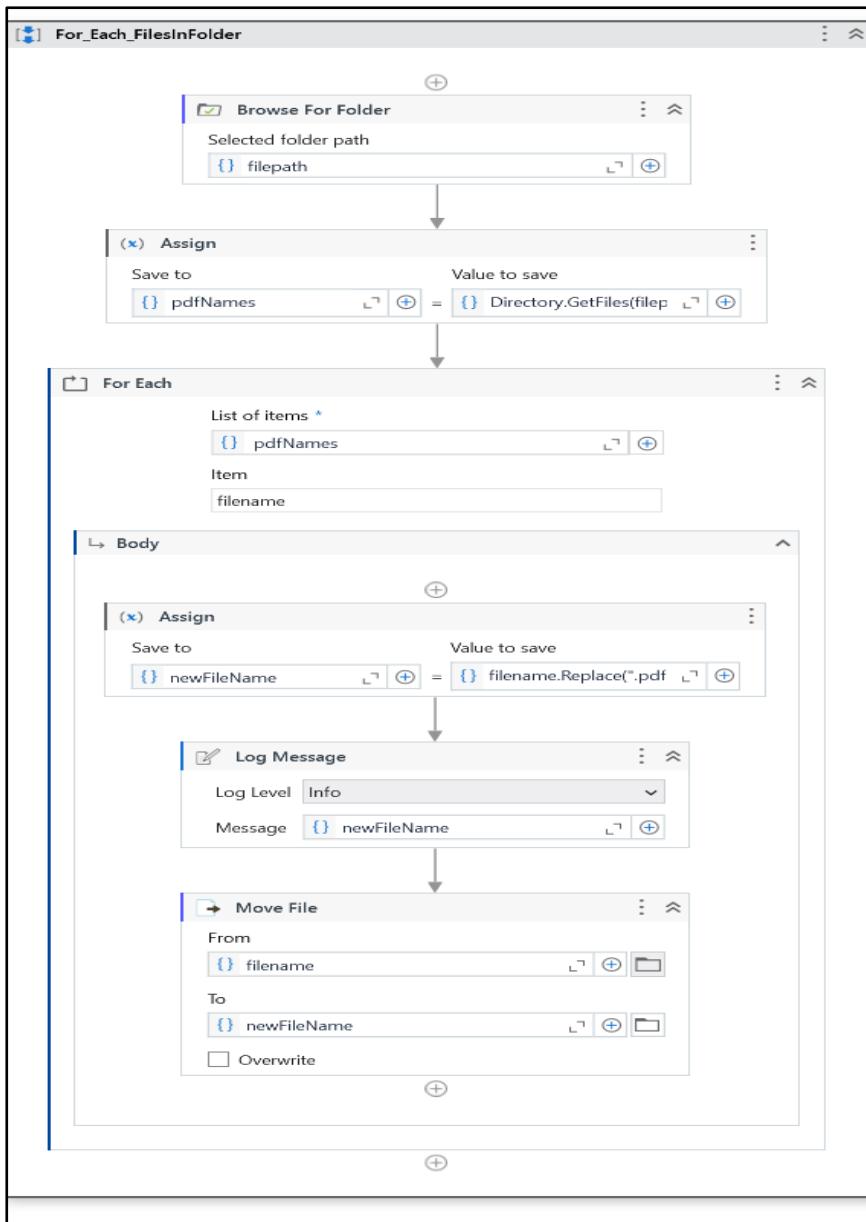


Output:



Aim: Demonstrate ForEach for files in folder.

Screenshot:



Output:

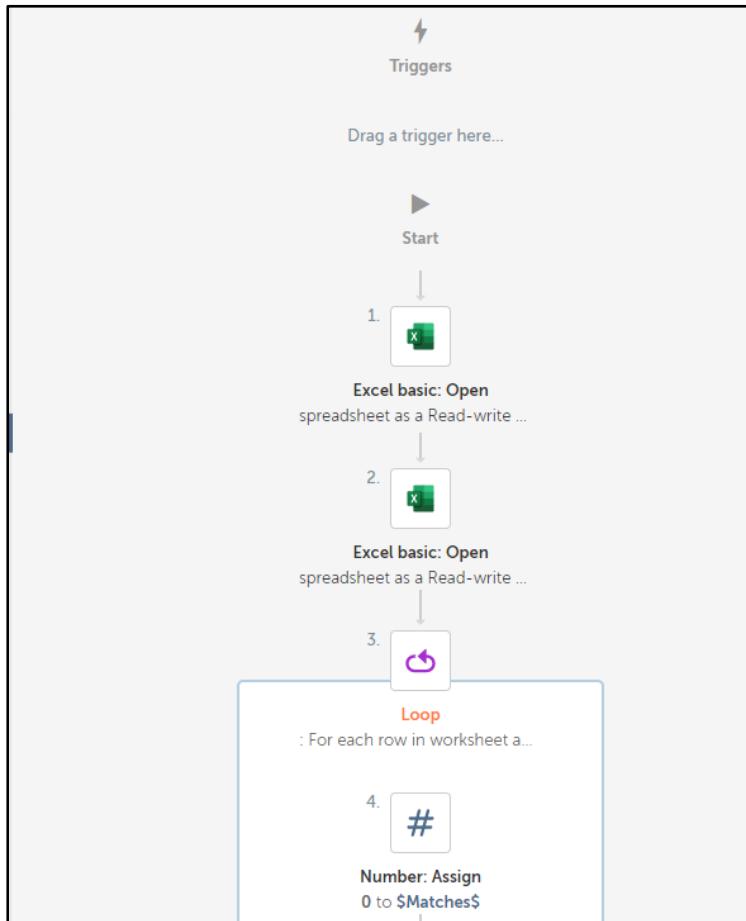
The screenshot shows a Windows File Explorer window displaying a folder structure. The path shown is "This PC > Desktop > RPA > UiPath Bots". Inside this folder, there are three files listed:

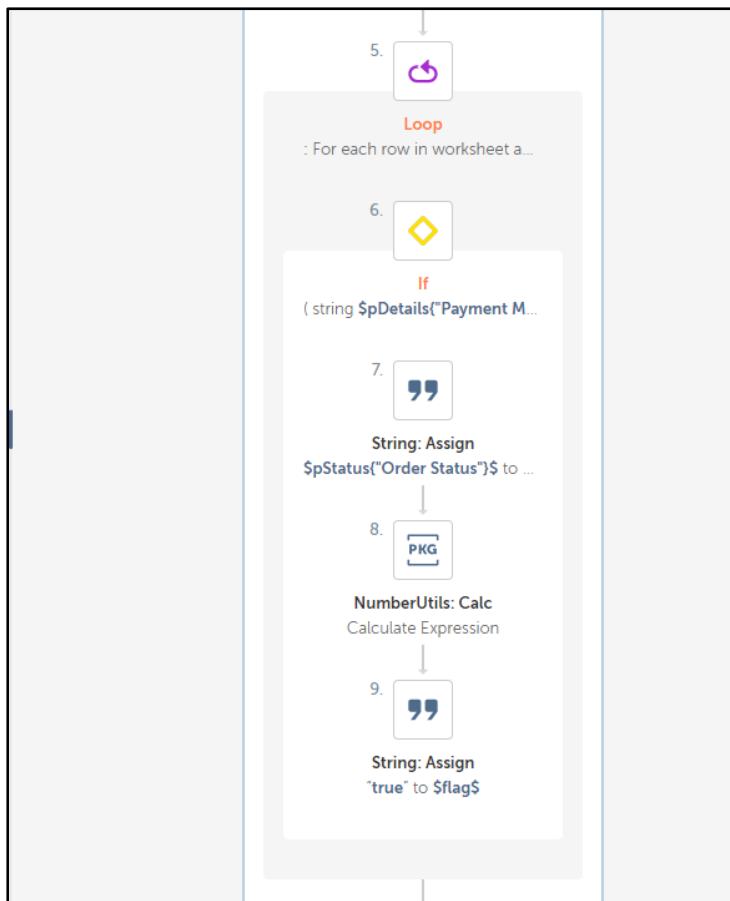
Name	Date modified	Type	Size
Aadhar Card1807	18-07-2022 22:29	File	309 KB
JayAdavade_ApplicationForm1807	18-07-2022 22:49	File	132 KB
Offer Letter Jay Adavade1807	18-07-2022 22:48	File	415 KB

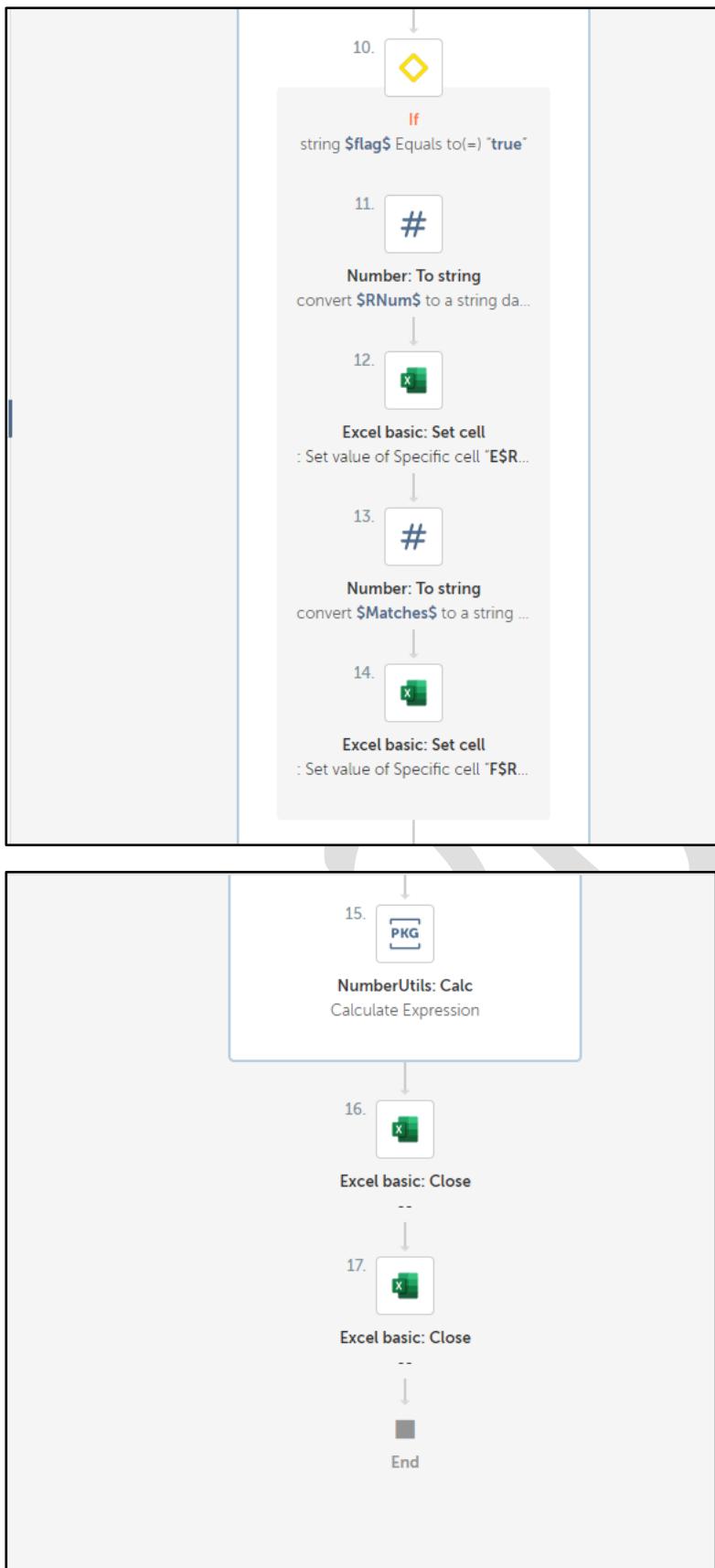
Category 4: Automation Anywhere

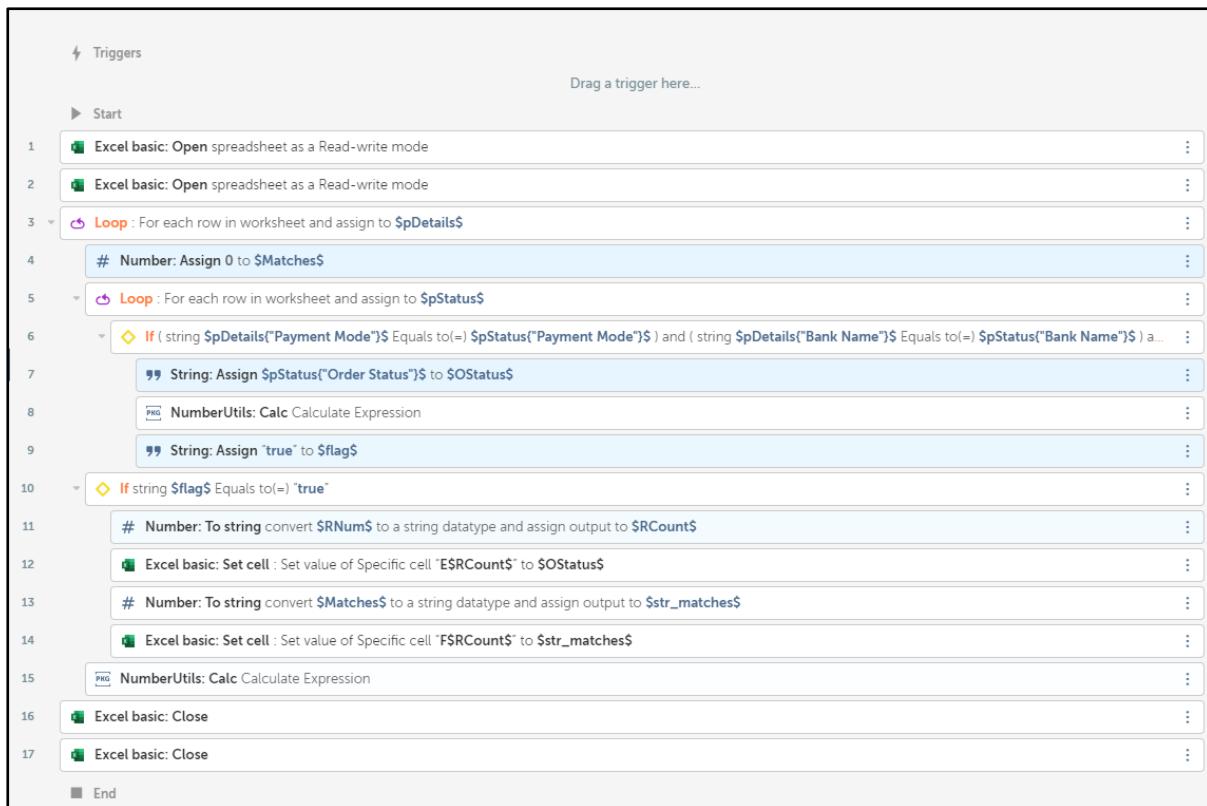
Aim: Demonstrate Bot for Excel operations: Compare and Update Excel Sheet

Screenshot:









Output:

Before Update and Compare:

	A	B	C	D	E	F
1	Sr. No.	Payment Mode	Bank Name	RRN	Order Status	Number of Matches
2	1	UPI	HSBC	Yes		
3	2	UPI	SBI	No		
4	3	NB	HSBC	No		
5	4	CC	Corporation Bank	Yes		
6	5	DC	HSBC	No		
7	6	UPI	HSBC	Yes		
8	7	NB	HSBC	Yes		
9	8	NB	SBI	No		
10	9	DC	ICICI	Yes		
11	10	DC	Corporation Bank	No		

After Update:

A	B	C	D	E	
1	Sr. No.	Payment Mode	Bank Name	RRN	Order Status
2	1	UPI	HSBC	Yes	Order Confirm
3	2	UPI	SBI	No	Order Pending - From Bank Side
4	3	NB	HSBC	No	Order Pending - From E-Commerce Side
5	4	CC	Corporation Bank	Yes	Order Pending - From E-Commerce Side
6	5	DC	HSBC	No	Order Pending - From E-Commerce Side
7	6	UPI	HSBC	Yes	Order Confirm
8	7	NB	HSBC	Yes	Order Confirm
9	8	NB	SBI	No	Order Pending - From E-Commerce Side
10	9	DC	ICICI	Yes	Order Pending - From E-Commerce Side
11	10	DC	Corporation Bank	No	Order Pending - From E-Commerce Side

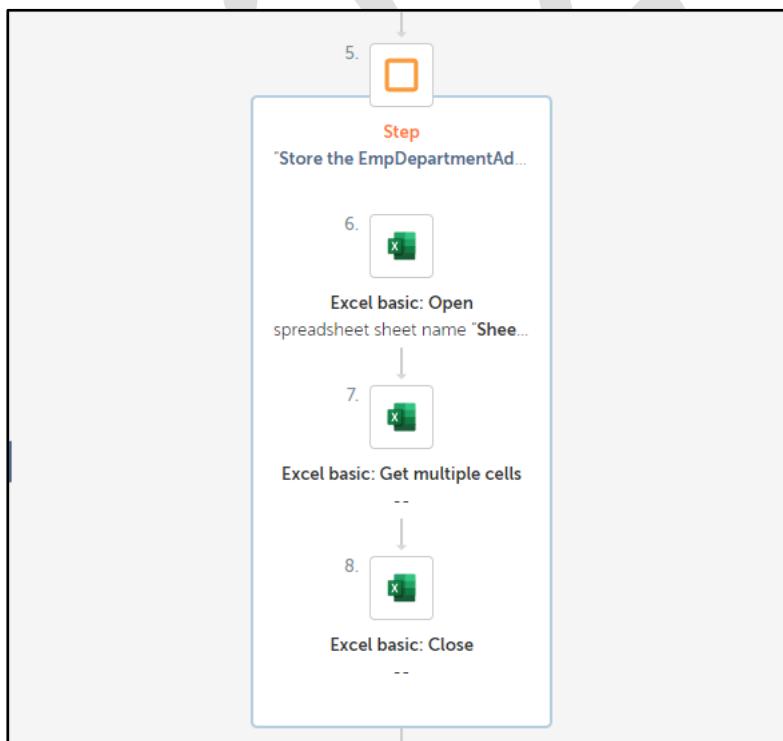
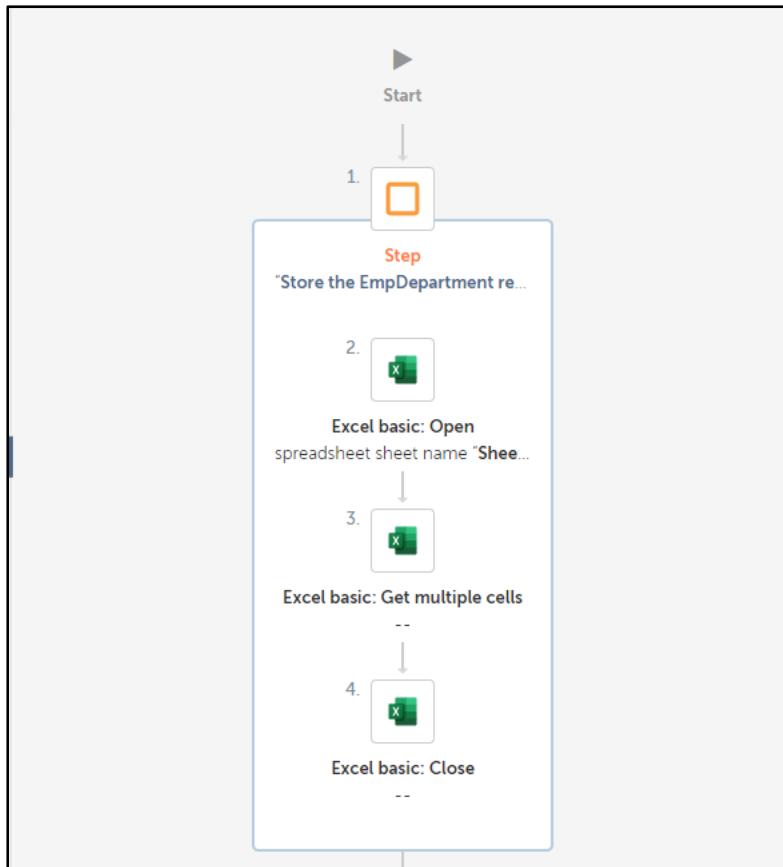
After Compare:

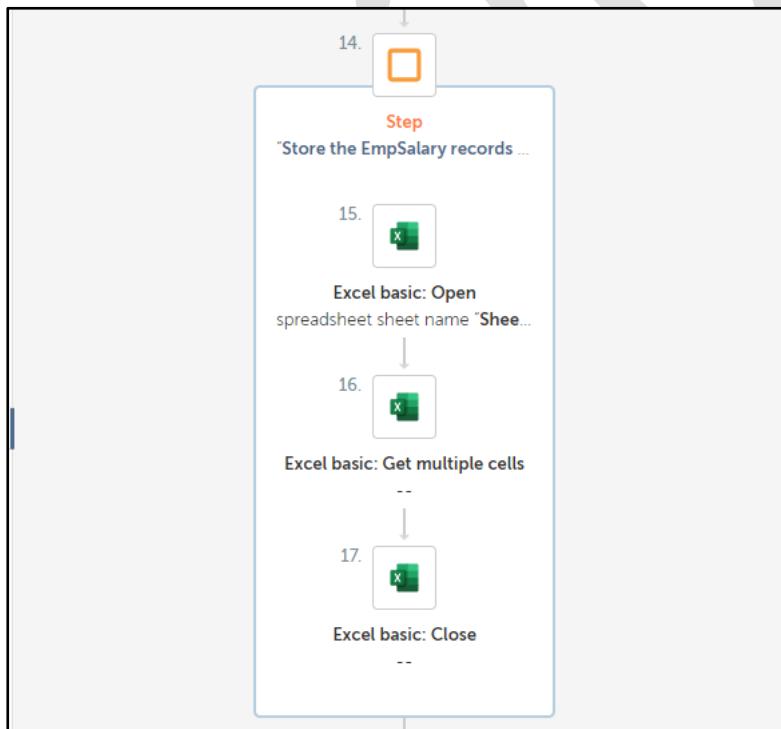
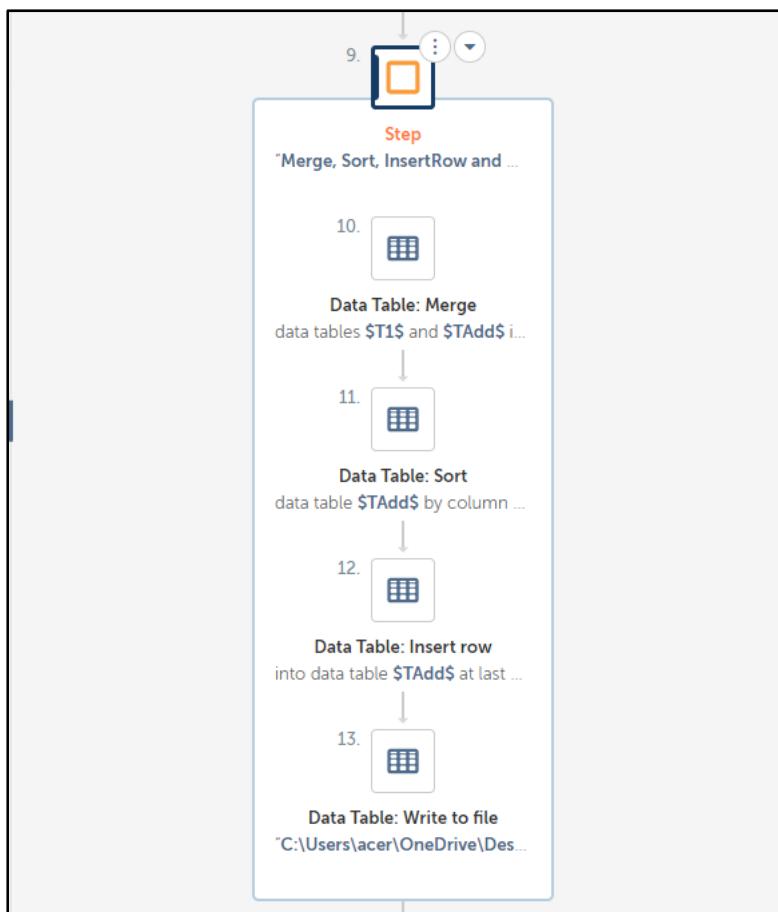
A	B	C	D	E	F	
1	Sr. No.	Payment Mode	Bank Name	RRN	Order Status	Number of Matches
2	1	UPI	HSBC	Yes	Order Confirm	6
3	2	UPI	SBI	No	Order Pending - From Bank Side	4
4	3	NB	HSBC	No	Order Pending - From E-Commerce Side	1
5	4	CC	Corporation Bank	Yes	Order Pending - From E-Commerce Side	1
6	5	DC	HSBC	No	Order Pending - From E-Commerce Side	1
7	6	UPI	HSBC	Yes	Order Confirm	6
8	7	NB	HSBC	Yes	Order Confirm	0
9	8	NB	SBI	No	Order Pending - From E-Commerce Side	1
10	9	DC	ICICI	Yes	Order Pending - From E-Commerce Side	1
11	10	DC	Corporation Bank	No	Order Pending - From E-Commerce Side	1

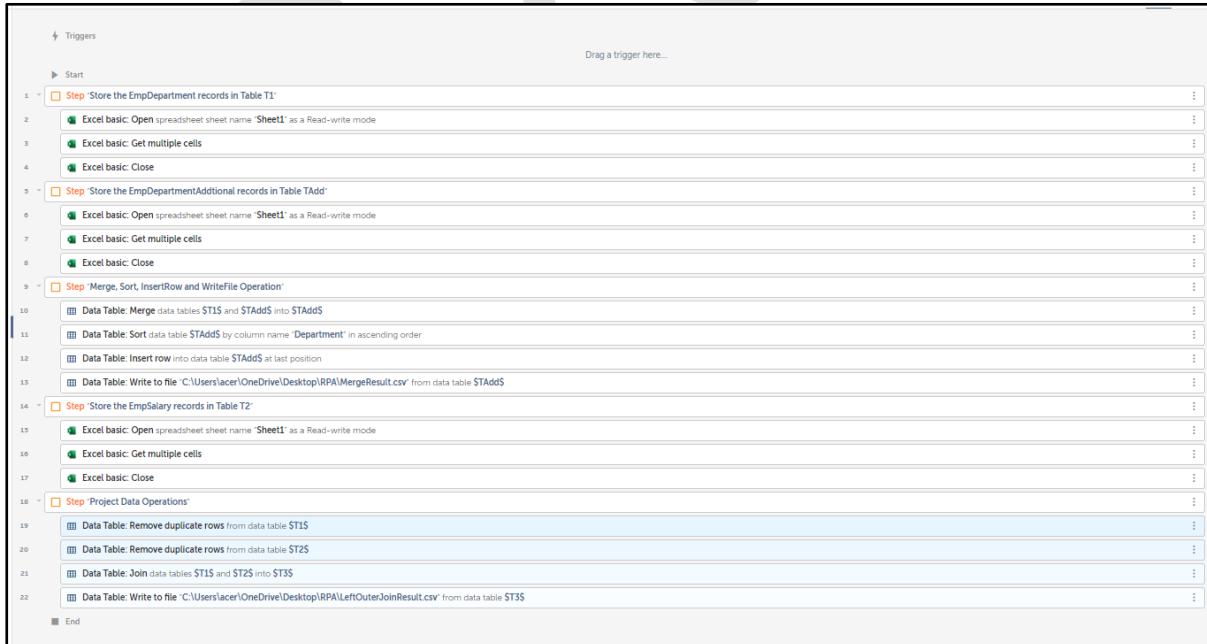
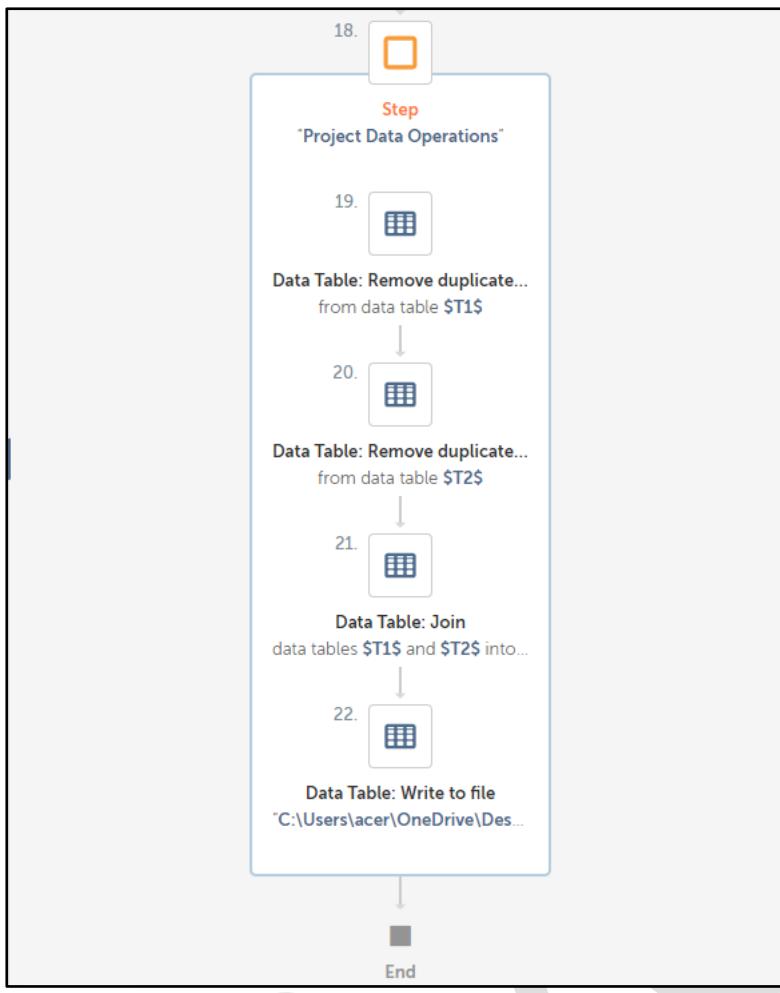
Aim: Demonstrate Bot to demonstrate Data Table Package with Excel/ Advanced Excel package

Screenshot:

Merge, Sort, Insert Row, Inner Join and Write to file







Output:**Inner Join**

	A	B	C
1	Employee	Department	Salary
2	Jay	101	50000
3	Kartik	102	35000
4	Rohit	103	40000
5	Saurabh	104	50000

The output of the inner join function will only include records that have matching values in both tables.

Merge, Sort, Insert Row

	A	B
1	Employee	Department
2	Jay	101
3	Kartik	102
4	Kartik	102
5	Rohit	103
6	Saurabh	104
7	Karan	105
8	Siddhesh	201
9	Rushikesh	202
10	Shubham	203
11	Mandar	204
12	Ritik	301

Table 1 contains records 2 through 7, Table 3 contains records 8 through 11, and Table 4 contains only one record, which is 12.

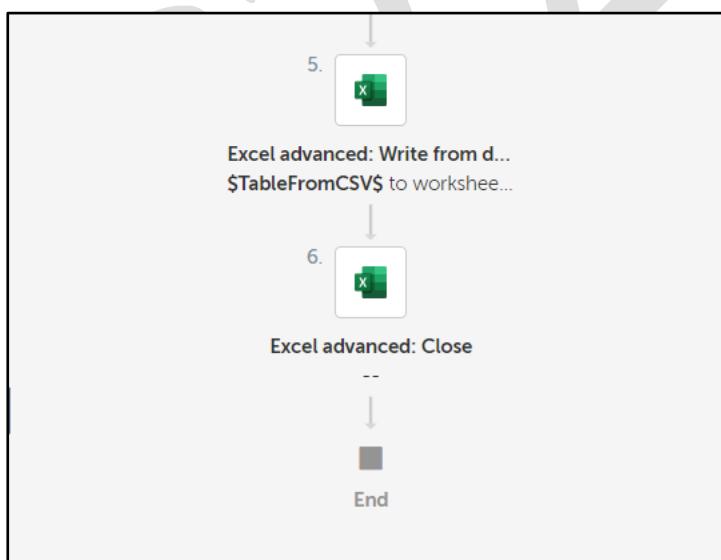
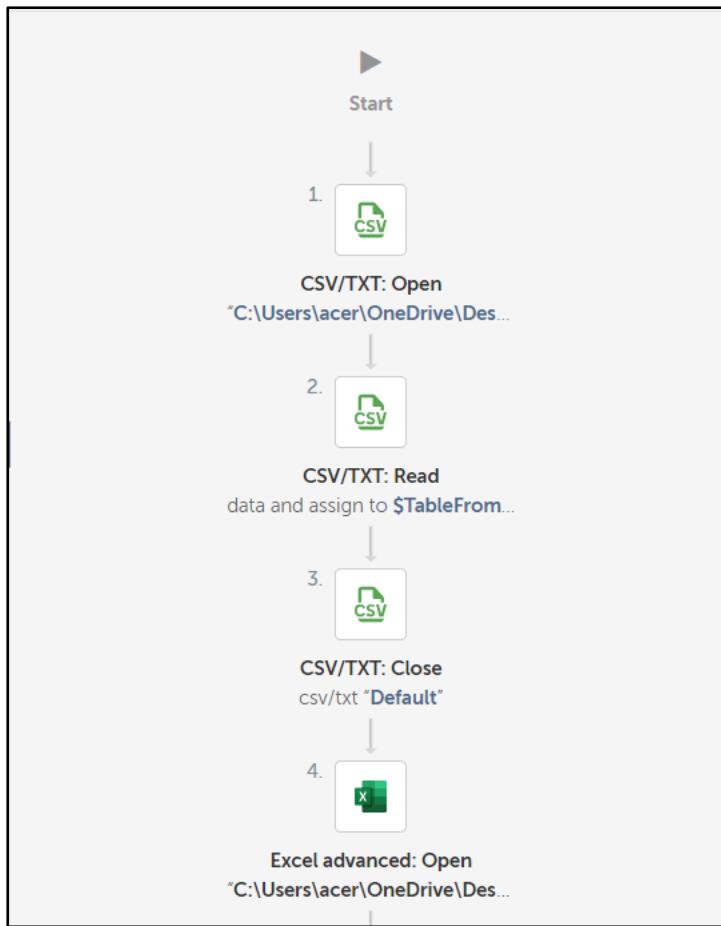
The merge will combine Tables 1 and 3.

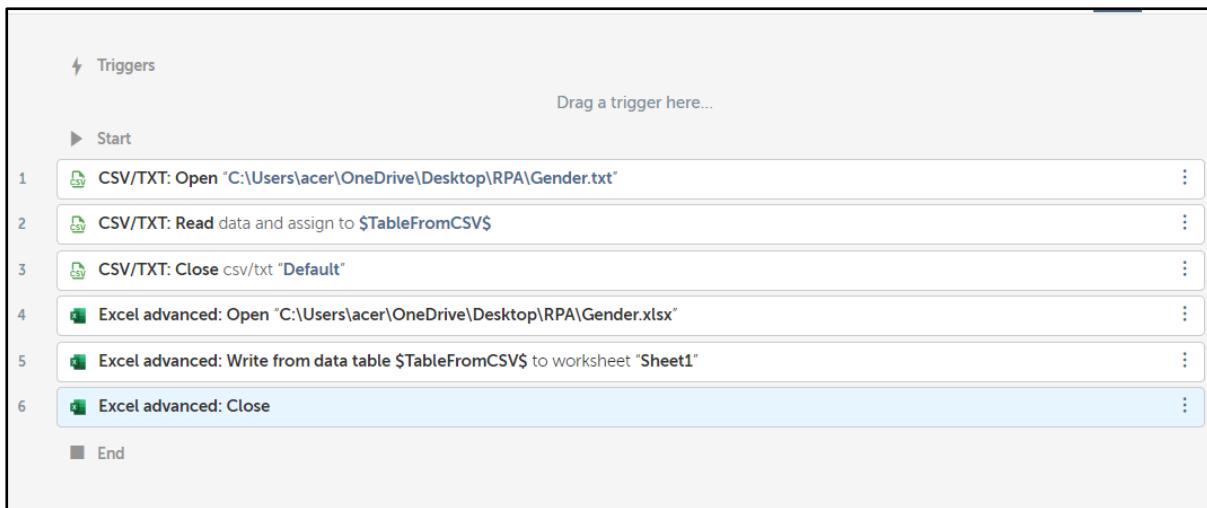
The sort will order the data in ascending order by the "Department" column.

The insert row will add the record at the last position in the table.

Aim: Demonstrate Bot To copy data from TXT file and write it into Excel

Screenshot:



**Output:****Txt File:**

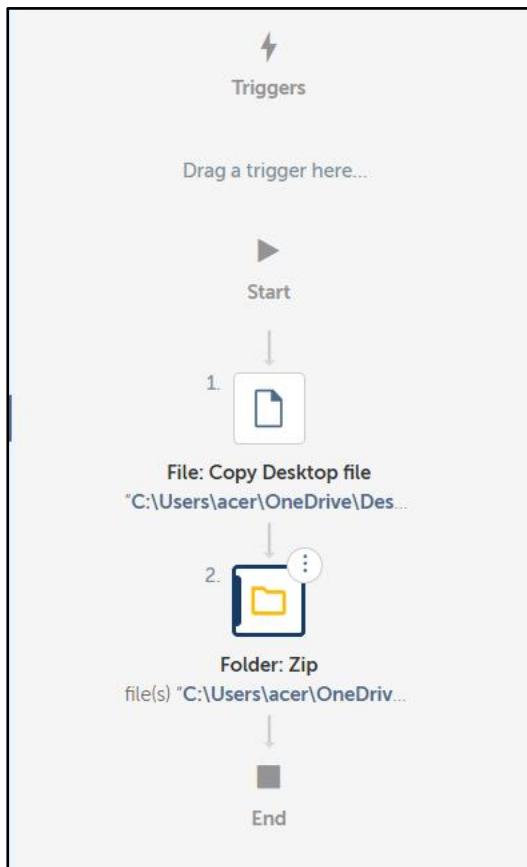
```
ID      Name    Gender
1       Jay     Male
2       Leena   Female
3       Siddhu  Male
4       Rushi   Male
5       Sakshi  Female
```

Excel File:

	A	B	C
1	ID	Name	Gender
2	1	Jay	Male
3	2	Leena	Female
4	3	Siddhu	Male
5	4	Rushi	Male
6	5	Sakshi	Female

Aim: Demonstrate Bot to copy files from one folder to another (Task: Select source folder to copy, create destination folder, Copy files, Zip the copied files)

Screenshot:



Output:

Name	Date modified	Type	Size
UiPath Bots	26-06-2023 05:58	File folder	
Split PDF	26-06-2023 06:09	File folder	
Merge PDF	26-06-2023 06:08	File folder	
FileOrFolder	28-06-2023 15:03	File folder	
Extract Image	27-06-2023 19:14	File folder	
Copied Destination	28-06-2023 15:03	File folder	
Certificates	27-06-2023 18:10	File folder	
Jay.txt	27-06-2023 19:04	Text Document	1 KB
Gender.txt	26-06-2023 04:33	Text Document	1 KB
Demo.txt	26-06-2023 05:28	Text Document	0 KB

Name	Date modified	Type	Size
Demo.txt	26-06-2023 05:28	Text Document	0 KB
Jay.txt	27-06-2023 19:04	Text Document	1 KB

Name	Type	Compressed size	Password pr...	Size	Ratio	Date modified
Demo.txt	Text Document	0 KB	No	0 KB	0%	28-06-2023 14:54
Jay.txt	Text Document	1 KB	No	1 KB	28%	28-06-2023 15:03

Category 4: Ui Path

Aim: Demonstrate a bot to create array of string and to copy the contents of array to string

Screenshot:

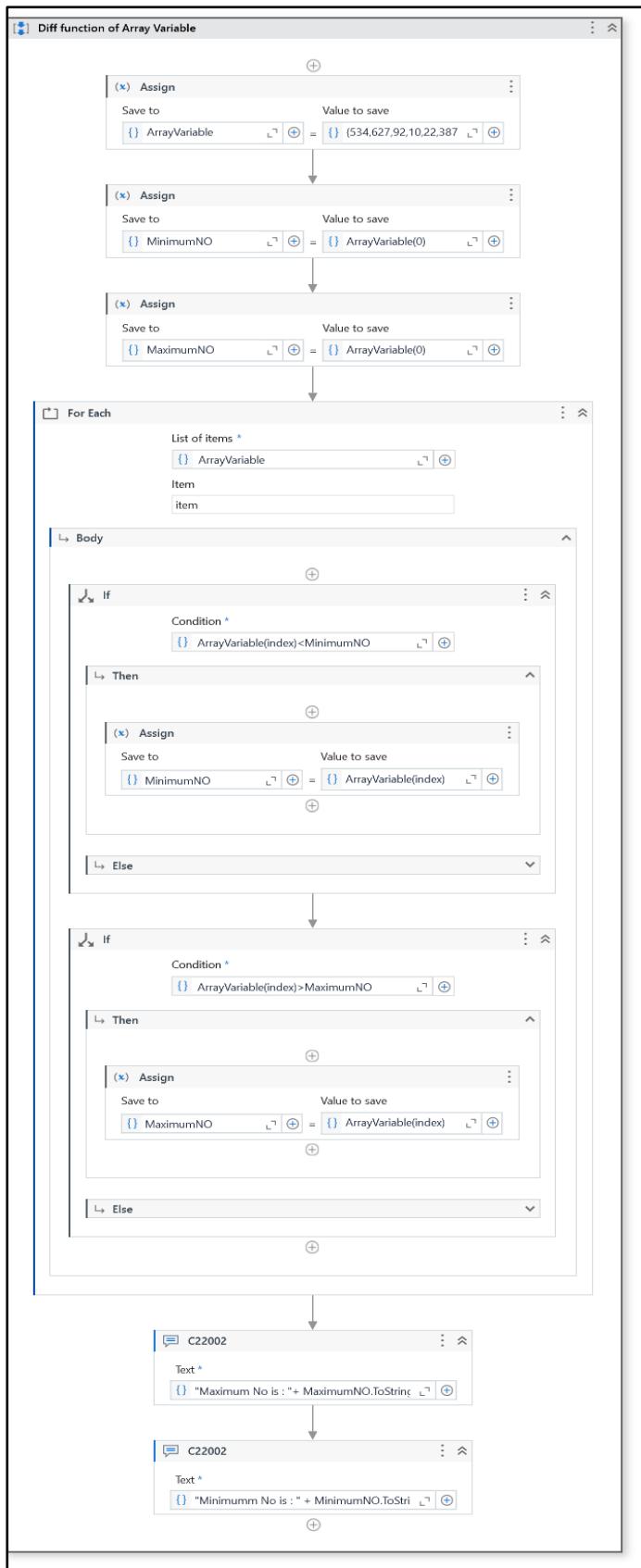


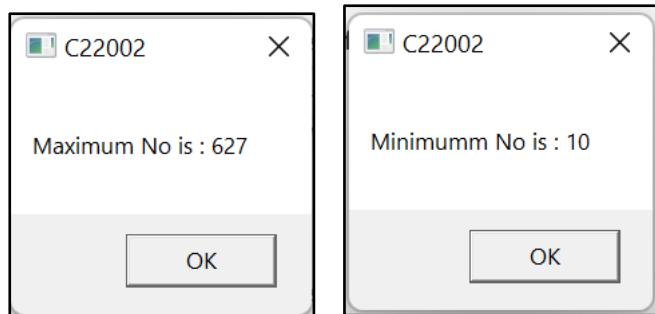
Output:



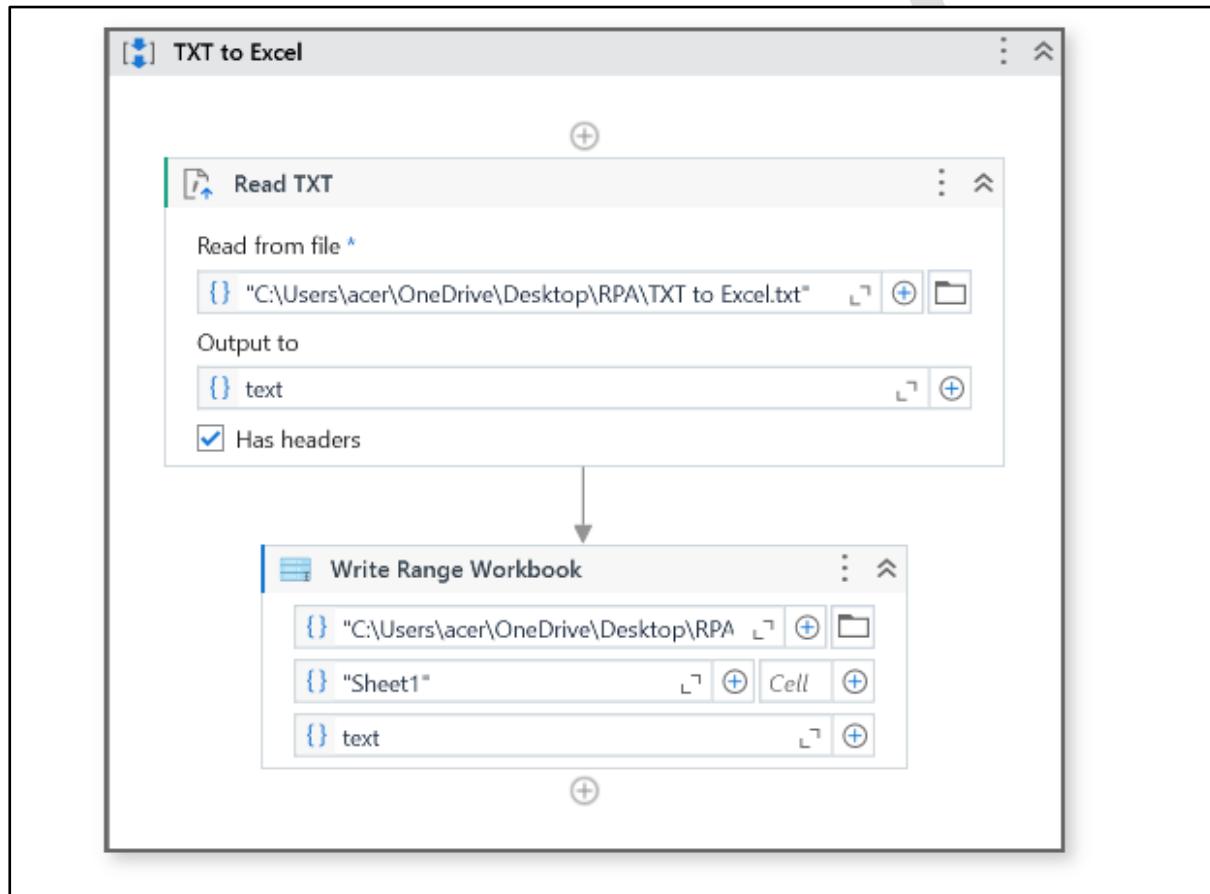
Aim: Demonstrate array variable with different functions

Screenshot:



Output:

Aim: Write a bot to convert text file to Excel file

Screenshot:

Output:

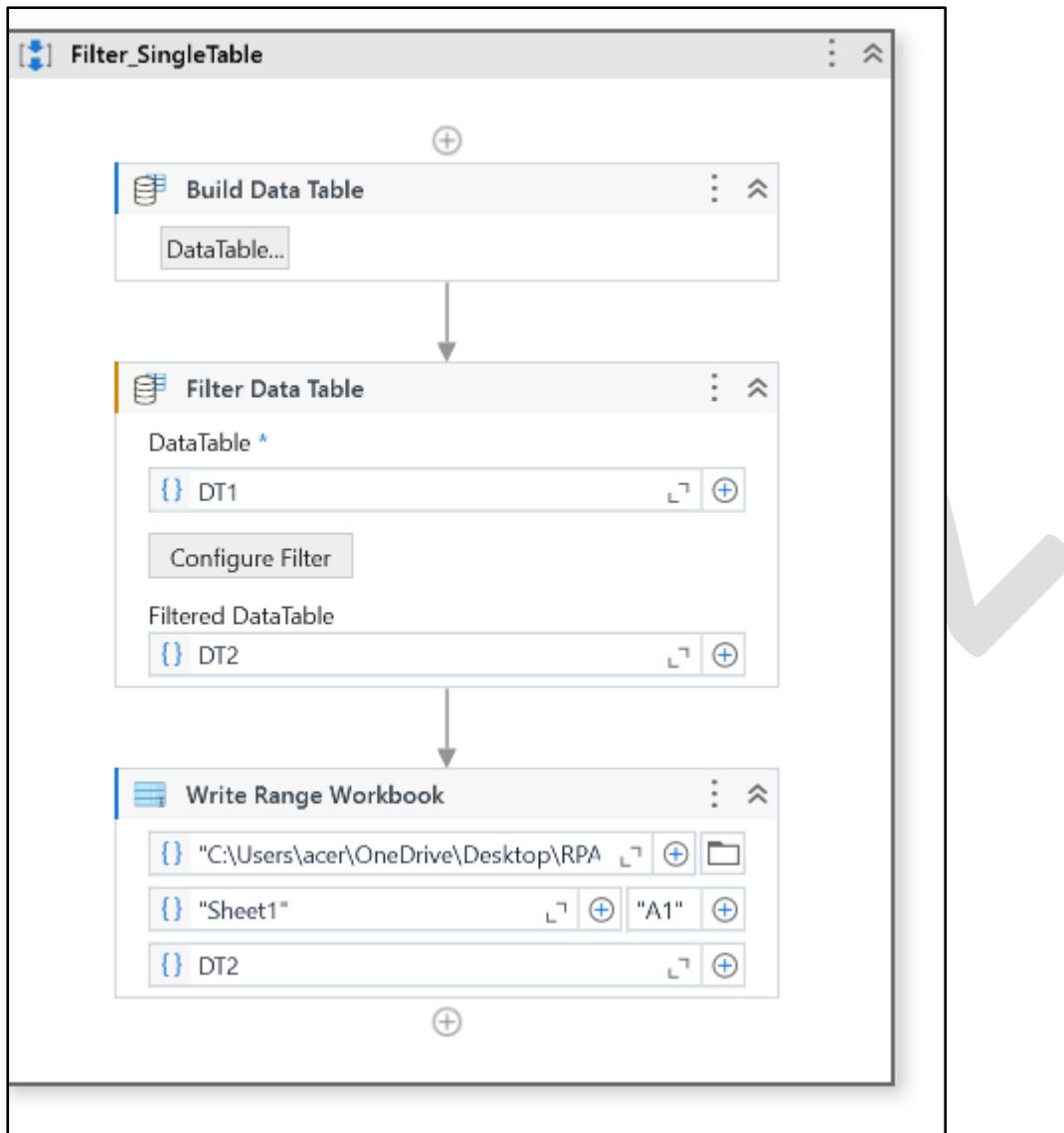
TXT to Excel.txt		
File	Edit	View
ID Name Gender		
1	Jay	Male
2	Leena	Female
3	Siddhu	Male
4	Rushi	Male
5	Sakshi	Female



TXT to Excel.xlsx - Excel		
File	Home	Insert Page Layout Formulas Data Review View Help
	Calibri 11 A A	Wrap Text General
	B I U	Conditional Formatting
	Font Alignment Number	Format as Table Cell Styles
	Clipboard	Insert Delete Format
		Cells Sort & Filter Select
A21		
1	ID	Name Gender
2	1	Jay Male
3	2	Leena Female
4	3	Siddhu Male
5	4	Rushi Male
6	5	Sakshi Female
7		
8		

Aim: Write a bot to apply filter on single data table

Screenshot:

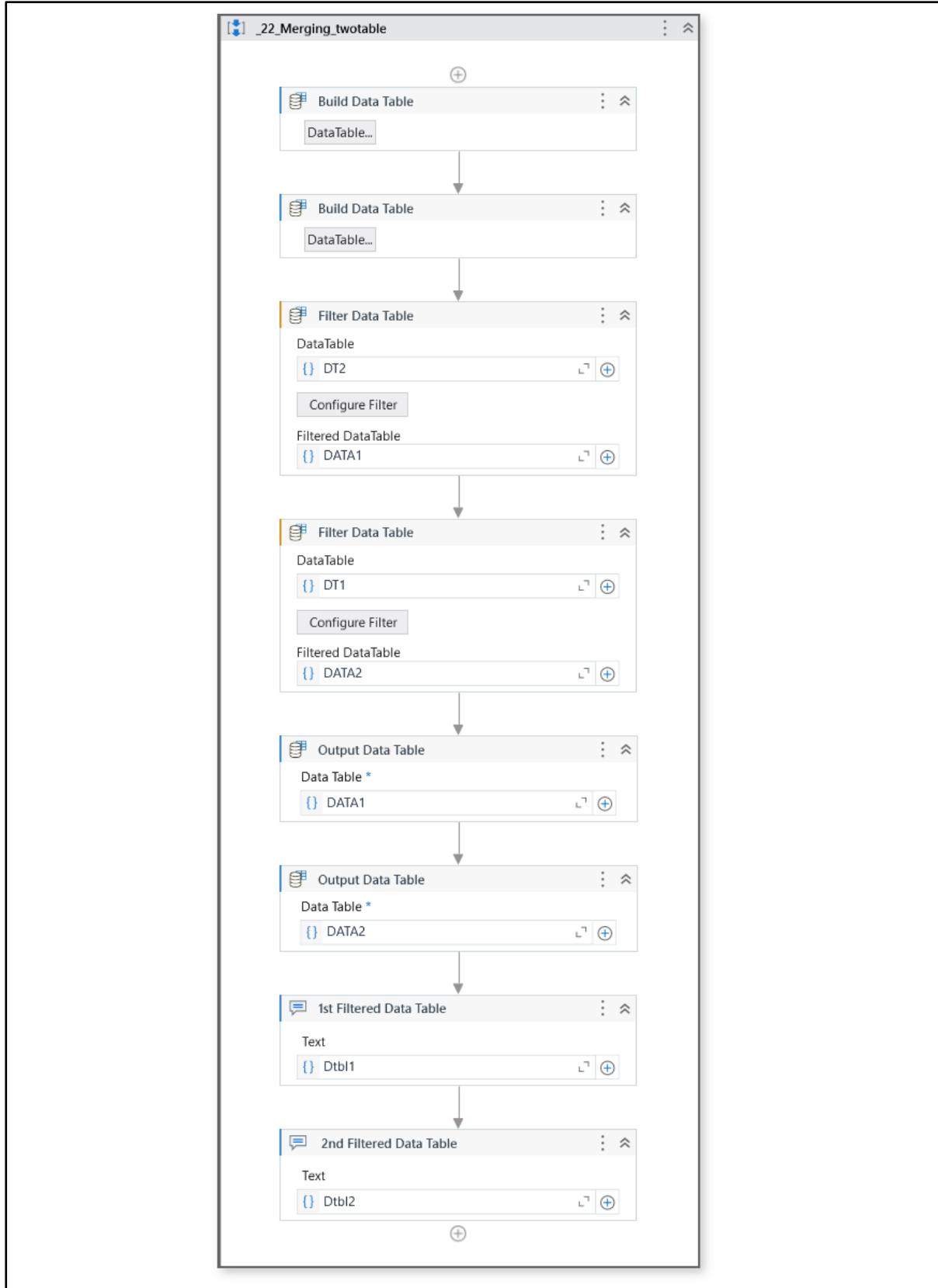


Output:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	ID	Name	Subject																
2	1	Jay	Maths																
3	6	Siddhu	Maths																
4	7	Leena	Maths																
5																			
6																			

Aim: Write a bot to apply filter on two data tables

Screenshot:



Data Table 1

	ID (Int32)	Name (String)	Location (String)
1		Kartik	Kandivali, Mumbai
2		Jay	Dahisar, Mumbai
3		Rohit	Virar
4		Karan	Vasai Road
5		Saurabh	Dadar

Data Table 2

	Team (String)	Player (String)	Region (String)
Fnatic	Booster	Emea	
NRG	FNS	Americas	
PaperRex	Jing	Pacific	
Global	Skrossi	Pacific	

Filter Data Table 1

Filter Wizard

Input DataTable: DT1 Filtered DataTable: DATA2

Filter Rows Output Columns

Keep or remove matching rows

Keep Remove

Column	Operation	Value
{ "Location" }	Contains	{ "Mumbai" }

Filter Data Table 2

Filter Wizard

Input DataTable: DT2 Filtered DataTable: DATA1

Filter Rows Output Columns

Keep or remove matching rows

Keep Remove

Column	Operation	Value
{ "Region" }	Contains	{ "Pacific" }

Output:**1st Table**

1st Filtered Data...

Team,Player,Region
PaperRex,Jing,Pacific
Global,Skrossi,Pacific

OK

2nd Table

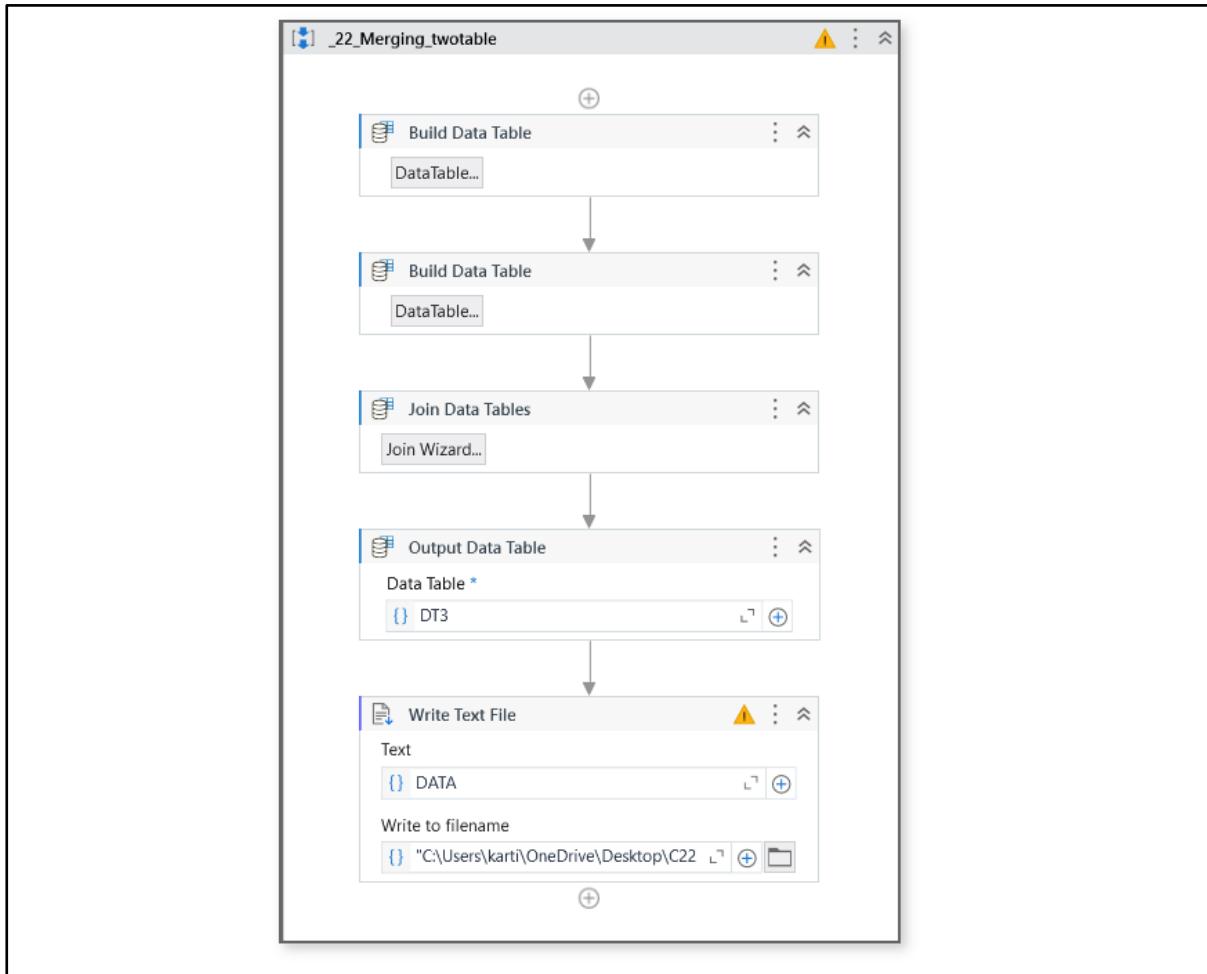
2nd Filtered Data Ta...

ID,Name,Location
1,Kartik,"Kandivali, Mumbai"
2,Jay,"Dahisar, Mumbai"

OK

Aim: Write a bot to demonstrate use of data tables - creating two Data Table variables and merging their values together and filtering the unwanted columns out.

Screenshot:

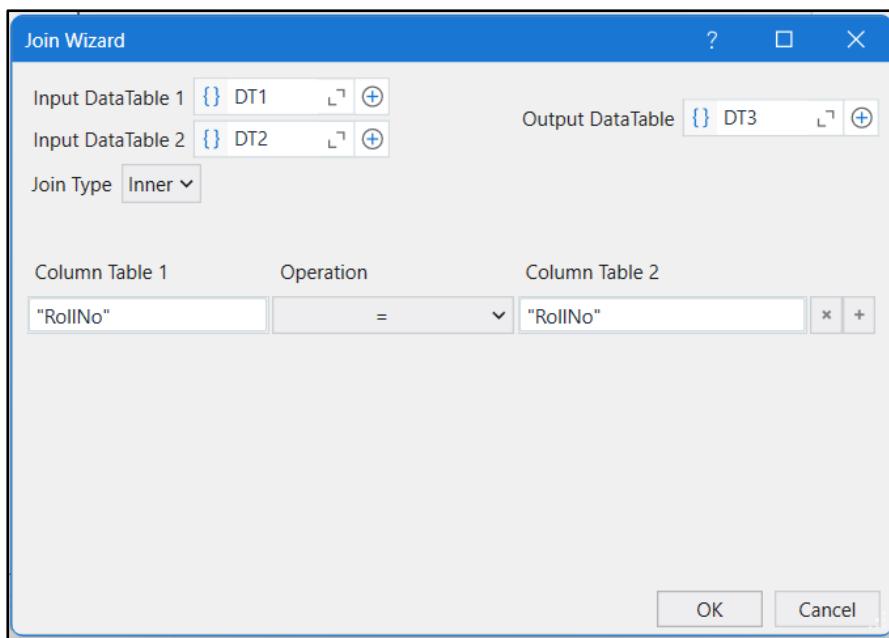


Data Table 1

	RollNo (Int32)	Names (String)	Age (Int32)
x	1	Kartik	22
x	2	Rohit	23
x	3	Jay	23
x	4	Karan	21
x	5	Saurabh	21
x			

Data Table 2

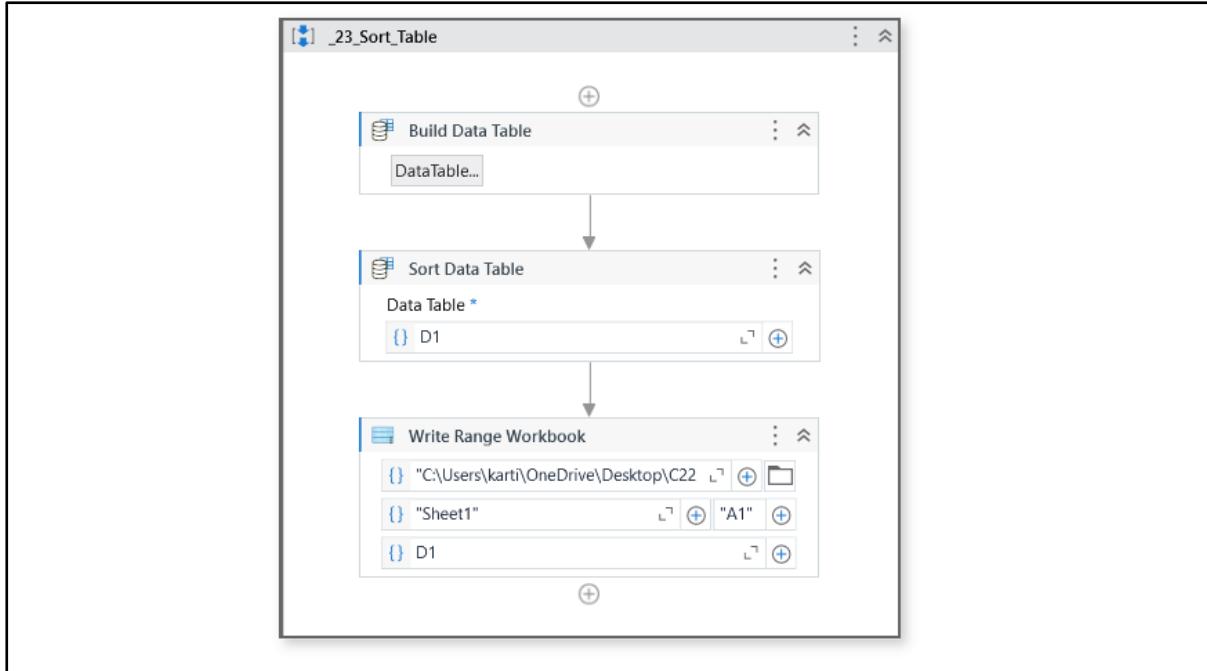
	RollNo (Int32)	Location (String)
x	1	Kandivali
x	2	Dahisar
x	3	Virar
x	4	Vasai Road
x	5	Dadar
x		

Join Wizard**Output:**

Merge_TwoTable	X	+
File Edit View		
<pre>RollNo,Names,Age,RollNo_1,Location 1,Kartik,22,1,Kandivali 2,Rohit,23,2,Dahisar 3,Jay,23,3,Virar 4,Karan,21,4,Vasai Road 5,Saurabh,21,5,Dadar</pre>		

Aim: Write a bot to sort data table

Screenshot:



Data Table:

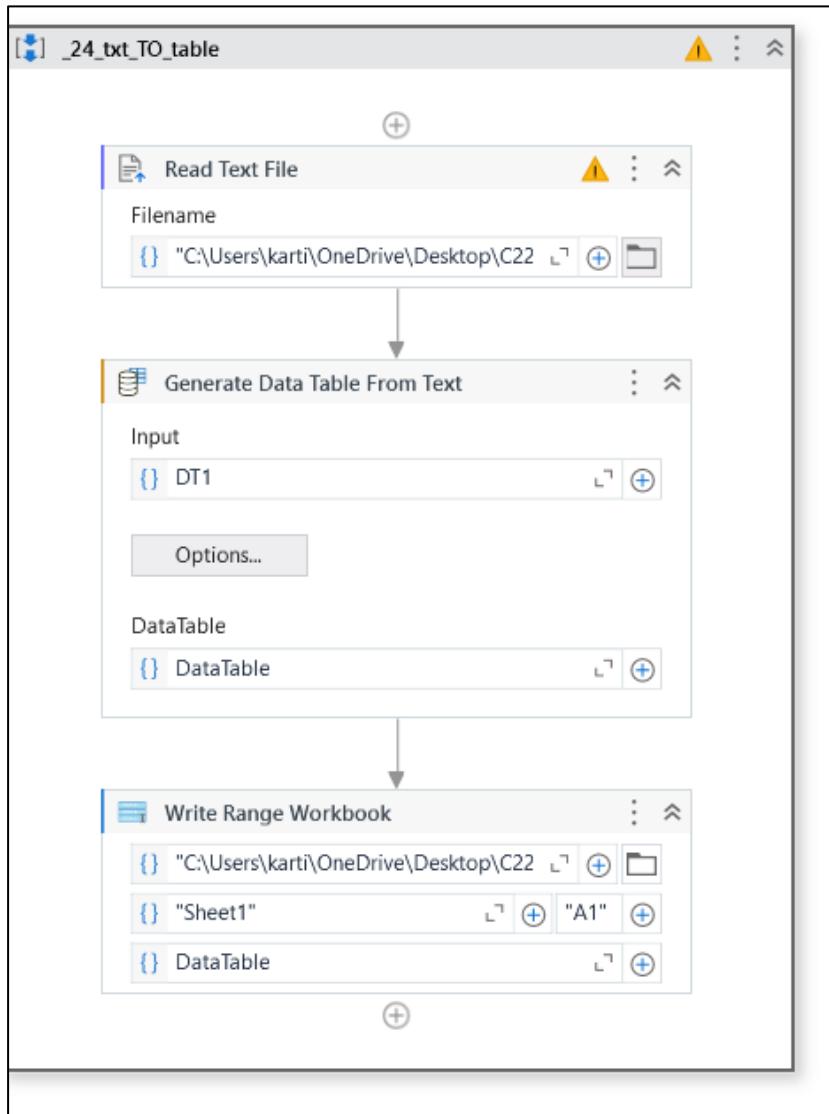
	ID (Int32)	Name (String)	Location (String)	CompanyName (String)
1	Carry	Mumbai	Blinkit	
2	Tom	Goa	Swiggy	
3	Omen	Delhi	Zomato	
4	Rage	Bengaluru	TCS	
5	Devil	Hyderabad	MNC	
6	Jhon	Mumbai	Top10	
7	Romen	Mumbai	Zara	

Output:

	A	B	C	D	E
1	1	Carry	Mumbai	Blinkit	
2	6	Jhon	Mumbai	Top10	
3	7	Romen	Mumbai	Zara	
4	5	Devil	Hyderabad	MNC	
5	2	Tom	Goa	Swiggy	
6	3	Omen	Delhi	Zomato	
7	4	Rage	Bengaluru	TCS	
8					
9					

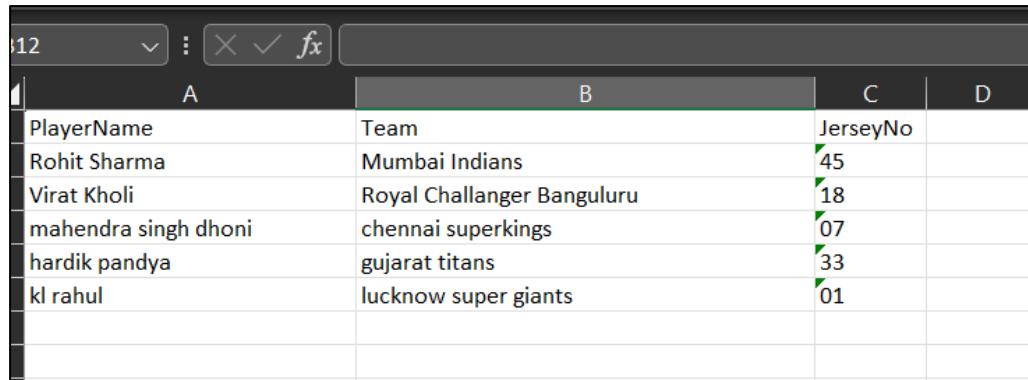
Aim: Write a bot to demonstrate following properties - Add data column, Add data row, Clear Data table, Generate Data table from text, Output data table, Remove Data Column, Remove Data row, Remove Duplicate Rows, Get row item, Update row item

Screenshot:

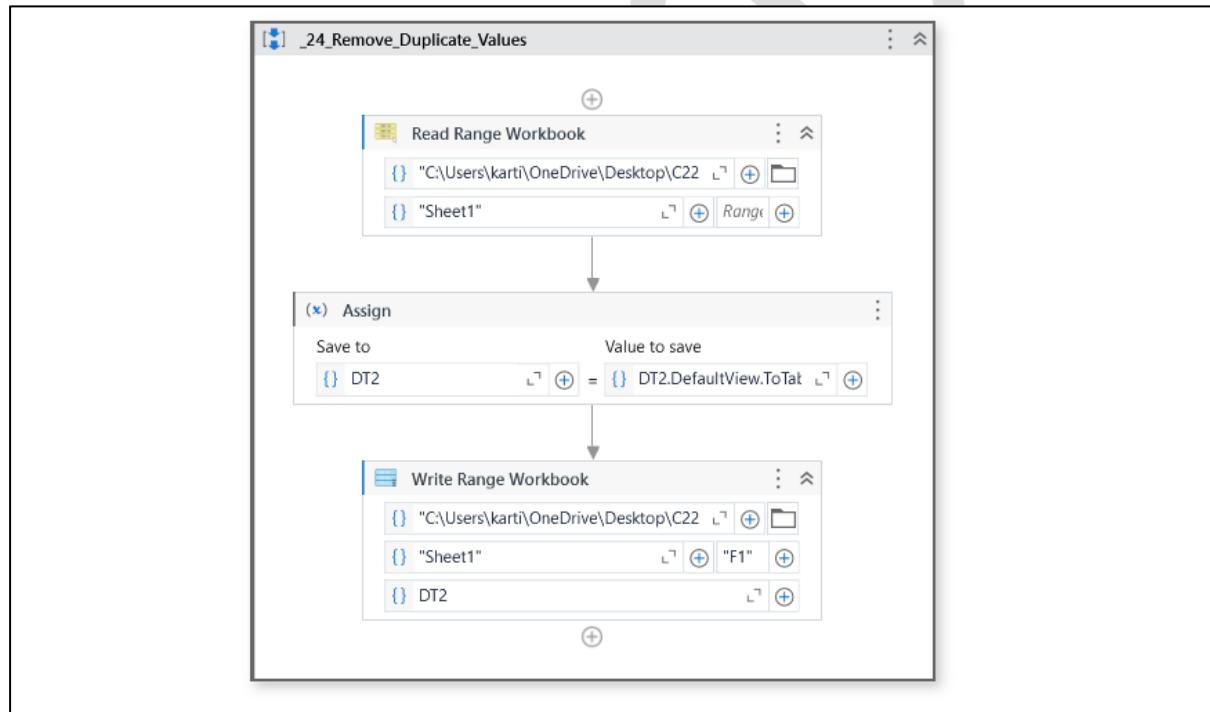
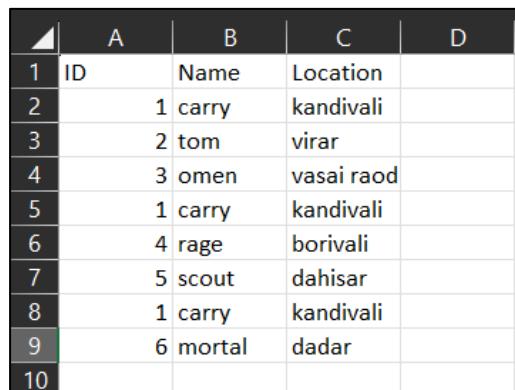


Txt File:

PlayerName	Team	JerseyNo
Rohit Sharma	Mumbai Indians	45
Virat Kohli	Royal Challanger Bangalore	18
mahendra singh dhoni	chennai superkings	07
hardik pandya	gujarat titans	33
kl rahul	lucknow super giants	01

Output:


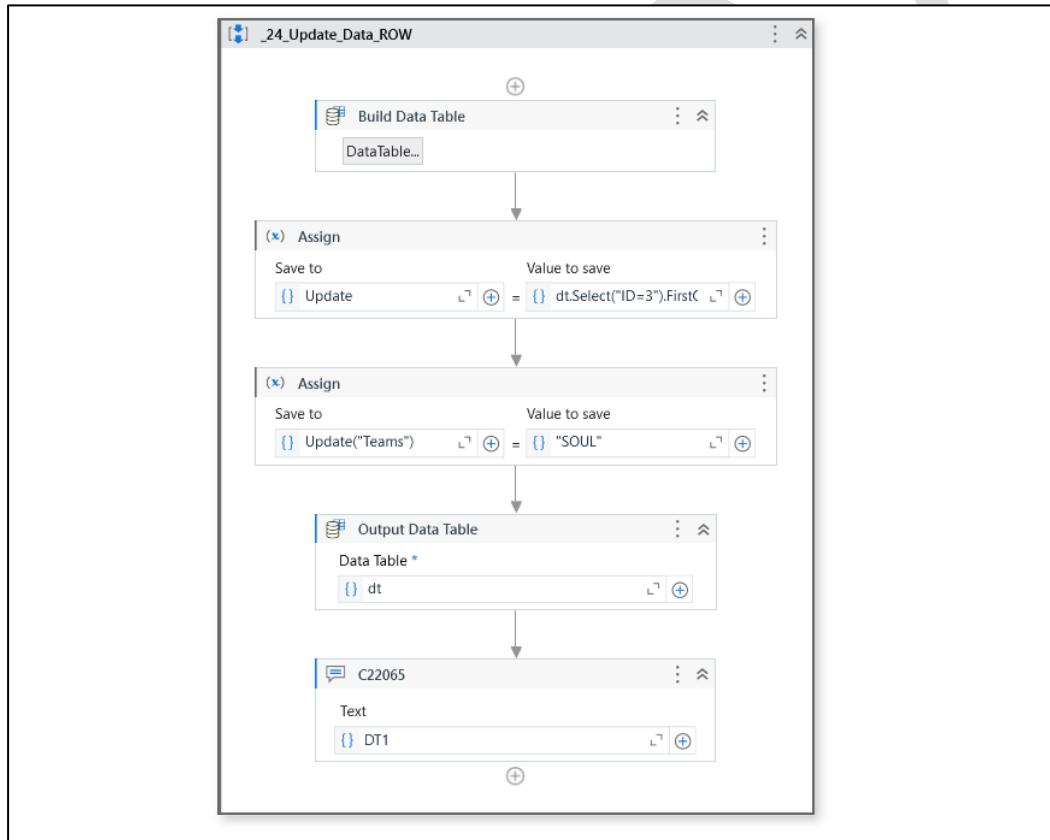
A	B	C	D
PlayerName	Team	JerseyNo	
Rohit Sharma	Mumbai Indians	45	
Virat Kohli	Royal Challanger Bangalore	18	
mahendra singh dhoni	chennai superkings	07	
hardik pandya	gujarat titans	33	
kl rahul	lucknow super giants	01	

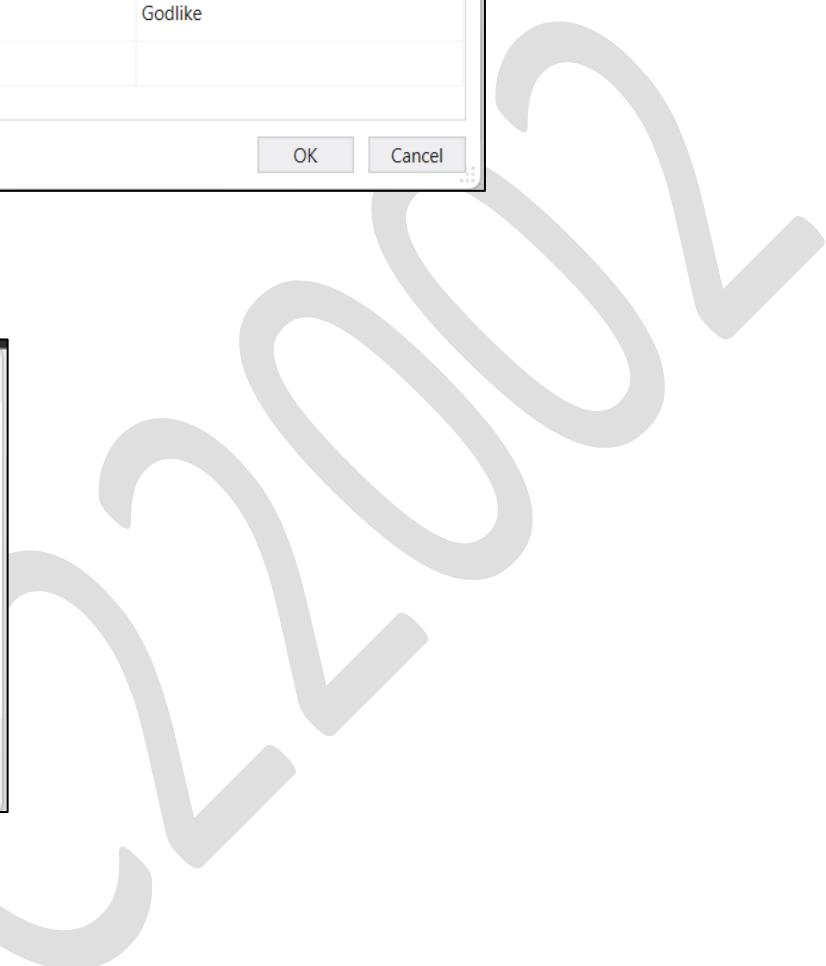
Remove Duplicate Rows**Data Table**


	A	B	C	D
1	ID	Name	Location	
2	1	carry	kandivali	
3	2	tom	virar	
4	3	omen	vasai raod	
5	1	carry	kandivali	
6	4	rage	borivali	
7	5	scout	dahisar	
8	1	carry	kandivali	
9	6	mortal	dadar	
10				

Output:

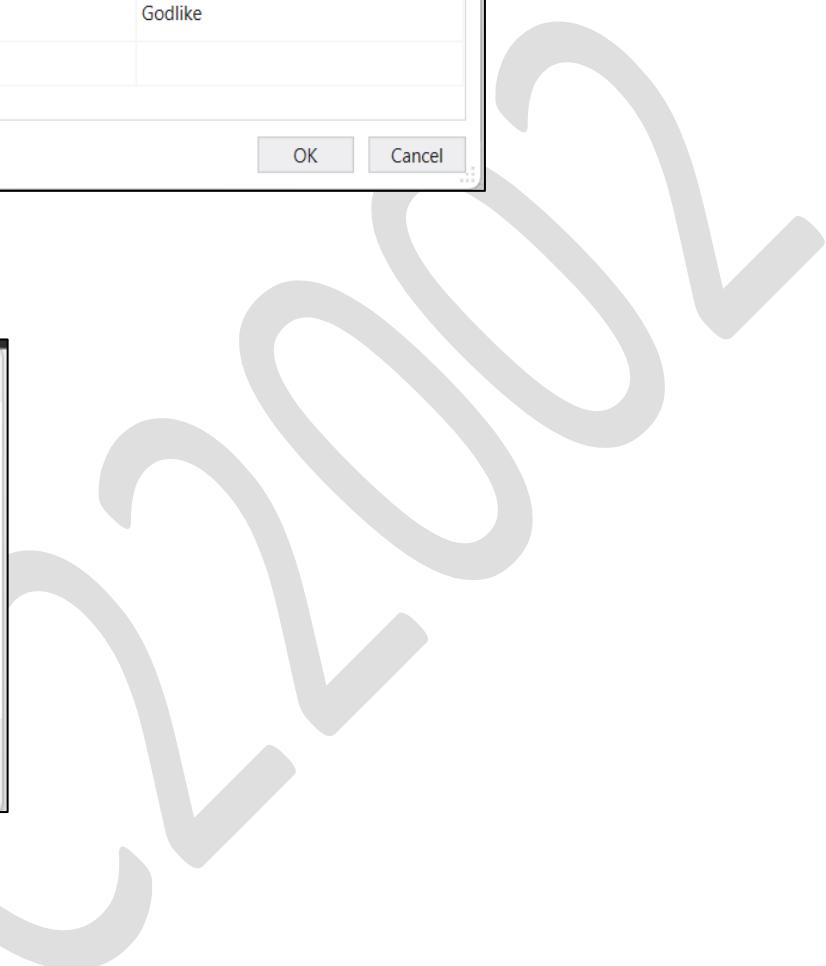
F	G	H	I
ID	Name	Location	
1	carry	kandivali	
2	tom	virar	
3	omen	vasai raod	
4	rage	borivali	
5	scout	dahisar	
6	mortal	dadar	

Update Row Item

Data Table:

	ID (Int32)	Teams (String)
x	1	Fnatic
x	2	Navi
x	3	Loud
x	4	Velocity
x	5	S8UL
x	6	Godlike
x		

OK Cancel

Output:**Update Row**

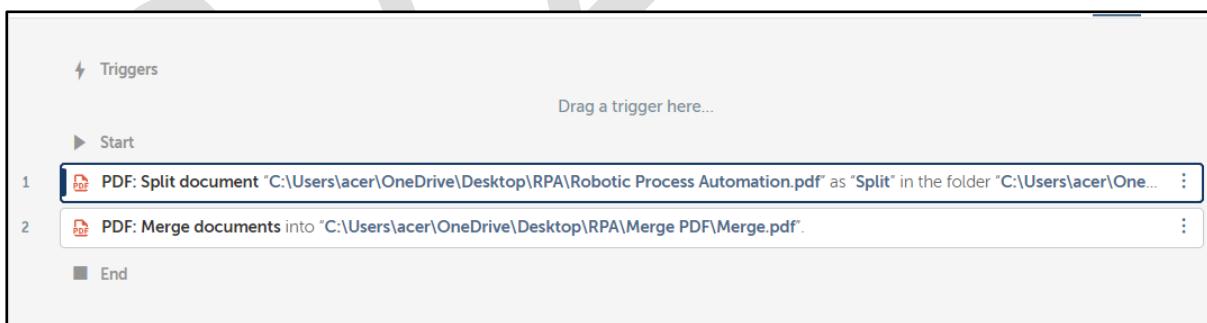
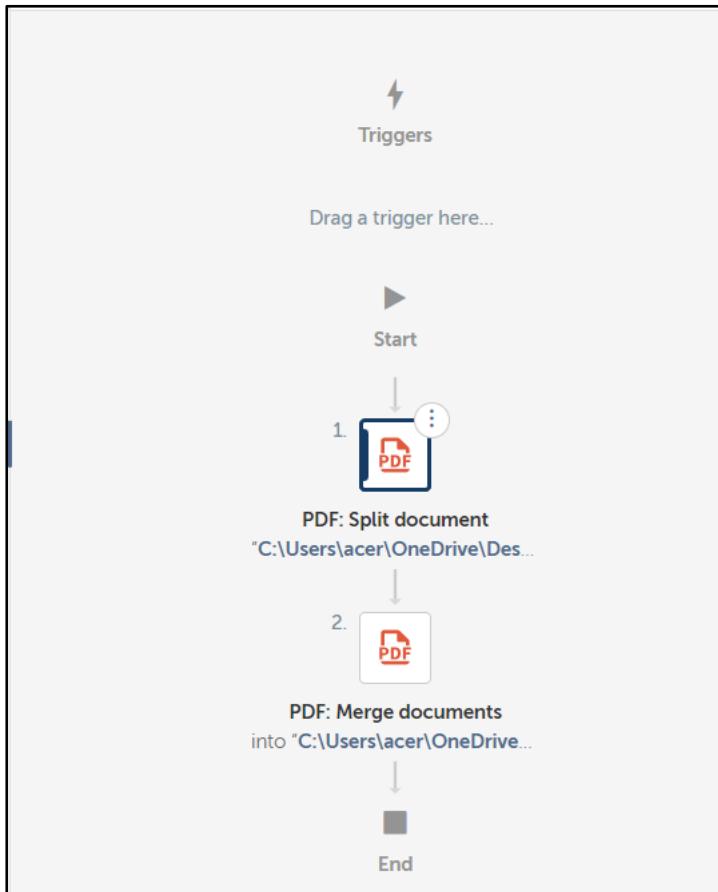
ID,Teams
1,Fnatic
2,Navi
3,SOUL
4,Velocity
5,S8UL
6,Godlike

OK

Category 5: Automation Anywhere

Aim: Write a bot to demonstrate PDF actions: merge document and split document.

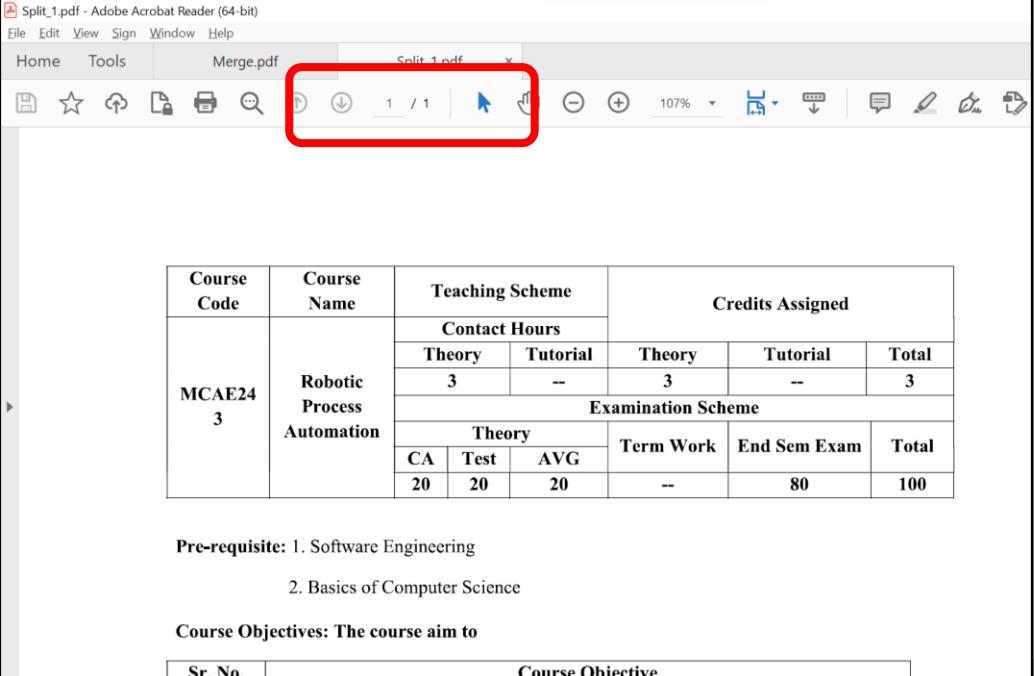
Screenshot:



Output:

This screenshot shows a Windows File Explorer window titled 'This PC > Desktop > RPA > Split PDF'. The table lists four files: 'Split_1.pdf', 'Split_2.pdf', 'Split_3.pdf', and 'Split_4.pdf'. Each file is an Adobe Acrobat Document (PDF) with a size of approximately 200 KB. The 'Name' column is the primary sorting column, with the files listed in descending order of creation date.

Name	Date modified	Type	Size
Split_1.pdf	26-06-2023 06:10	Adobe Acrobat Docu...	201 KB
Split_2.pdf	26-06-2023 06:10	Adobe Acrobat Docu...	210 KB
Split_3.pdf	26-06-2023 06:10	Adobe Acrobat Docu...	279 KB
Split_4.pdf	26-06-2023 06:10	Adobe Acrobat Docu...	428 KB



The screenshot shows a merged PDF document titled "Merge.pdf" in Adobe Acrobat Reader. The document contains course details for "MCAE24 3" (Robotic Process Automation). The merged content includes a teaching scheme table and an examination scheme table. Below the tables, there are pre-requisite and course objective sections.

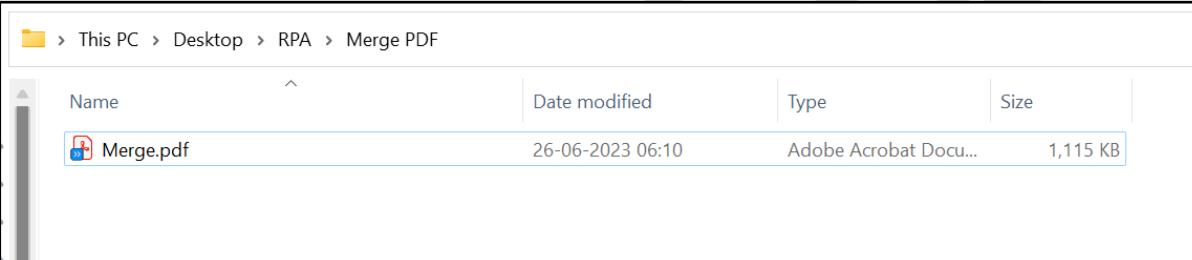
Course Code	Course Name	Teaching Scheme		Credits Assigned			
		Contact Hours		Theory	Tutorial	Total	
MCAE24 3	Robotic Process Automation	3	--	3	--	3	
		Examination Scheme					
		Theory		Term Work	End Sem Exam	Total	
		CA	Test	AVG	--	80	100

Pre-requisite:

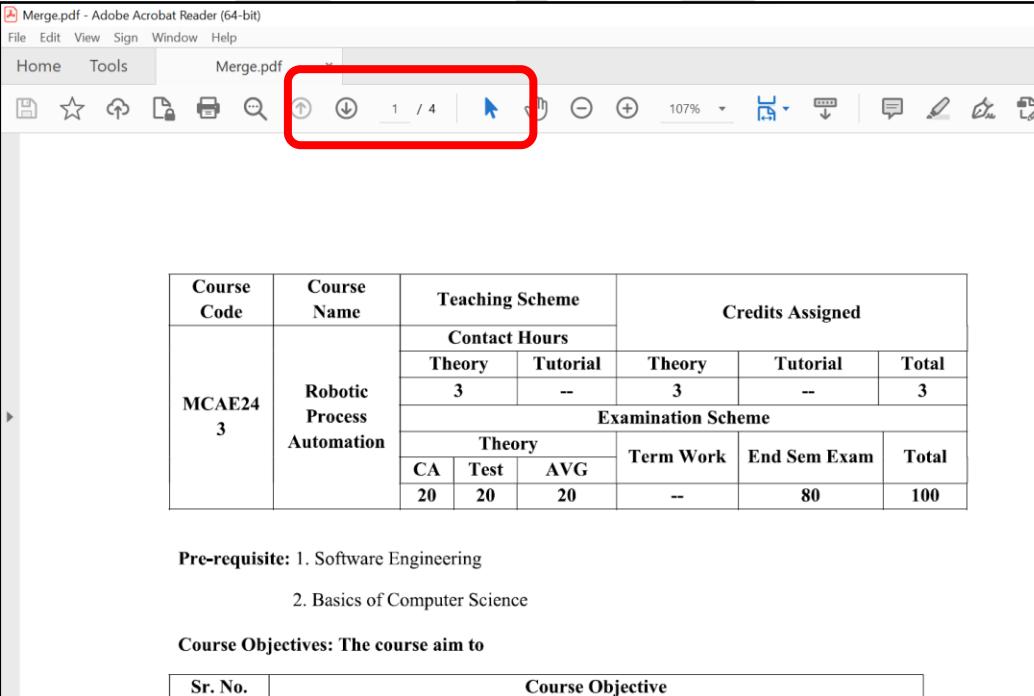
1. Software Engineering
2. Basics of Computer Science

Course Objectives: The course aim to

Sr. No.	Course Objective
---------	------------------



The screenshot shows a Windows File Explorer window displaying a folder structure: "This PC > Desktop > RPA > Merge PDF". Inside the folder, there is a single file named "Merge.pdf". The file details are shown: Date modified: 26-06-2023 06:10, Type: Adobe Acrobat Docu..., and Size: 1,115 KB.



The screenshot shows a merged PDF document titled "Merge.pdf" in Adobe Acrobat Reader. The document contains course details for "MCAE24 3" (Robotic Process Automation). The merged content includes a teaching scheme table and an examination scheme table. Below the tables, there are pre-requisite and course objective sections.

Course Code	Course Name	Teaching Scheme		Credits Assigned			
		Contact Hours		Theory	Tutorial	Total	
MCAE24 3	Robotic Process Automation	3	--	3	--	3	
		Examination Scheme					
		Theory		Term Work	End Sem Exam	Total	
		CA	Test	AVG	--	80	100

Pre-requisite:

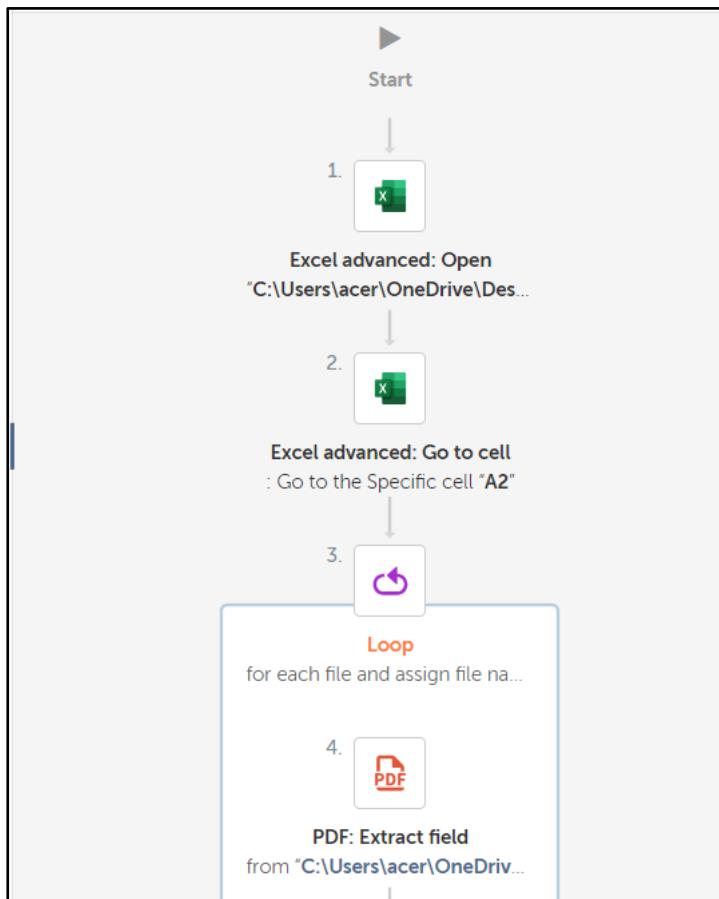
1. Software Engineering
2. Basics of Computer Science

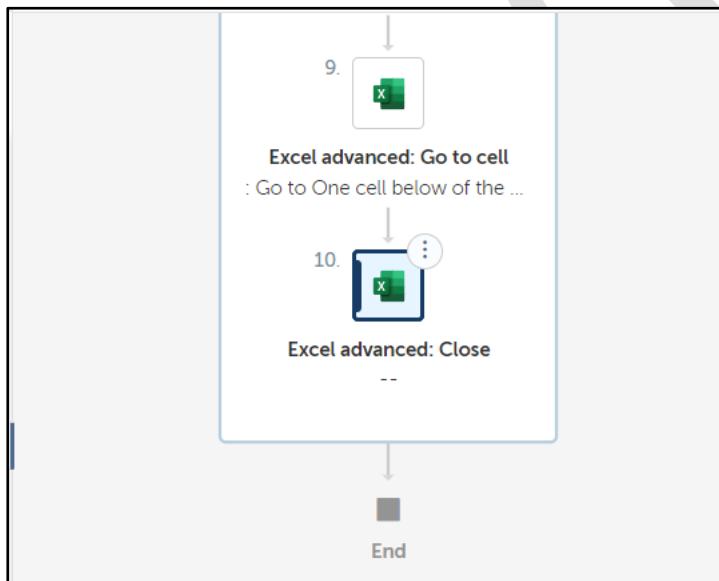
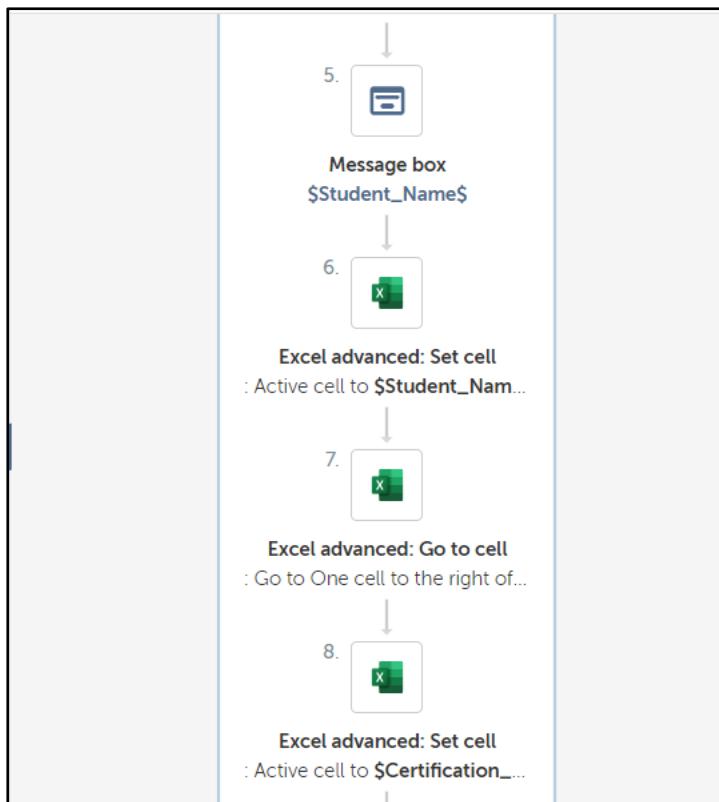
Course Objectives: The course aim to

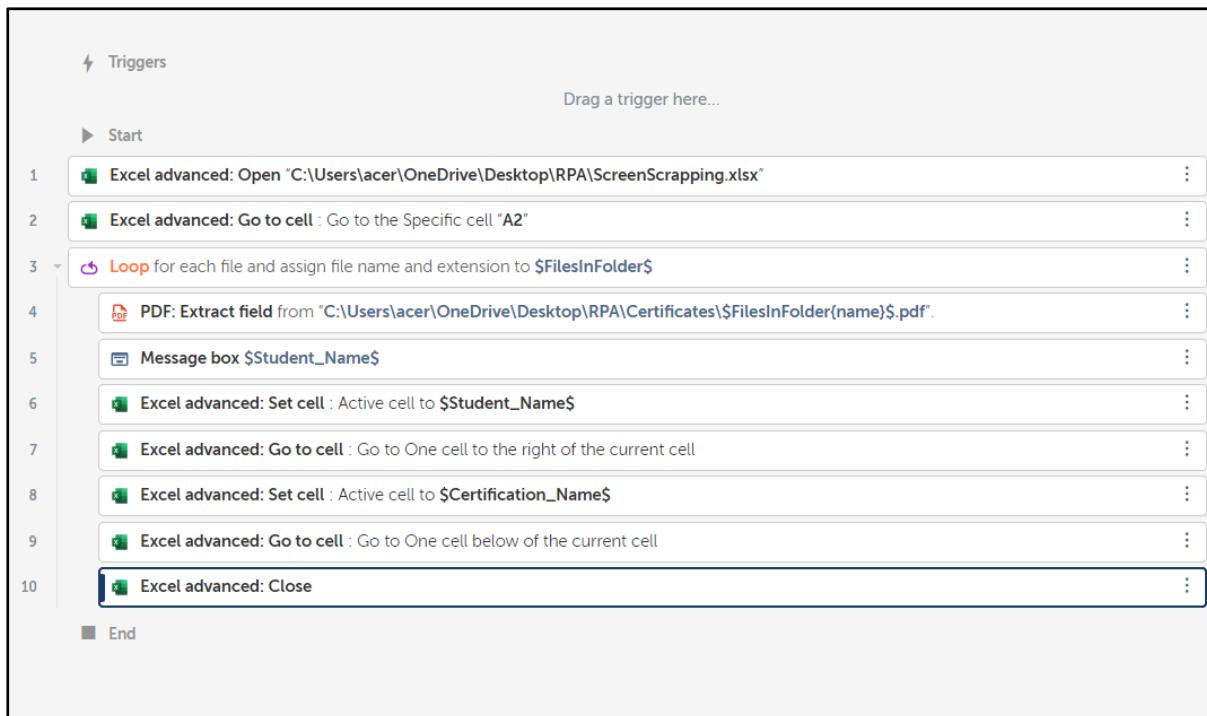
Sr. No.	Course Objective
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Aim: Write a bot to demonstrate screen scraping using extract field - The bot shall paste extracted strings into excel sheet

Screenshot:



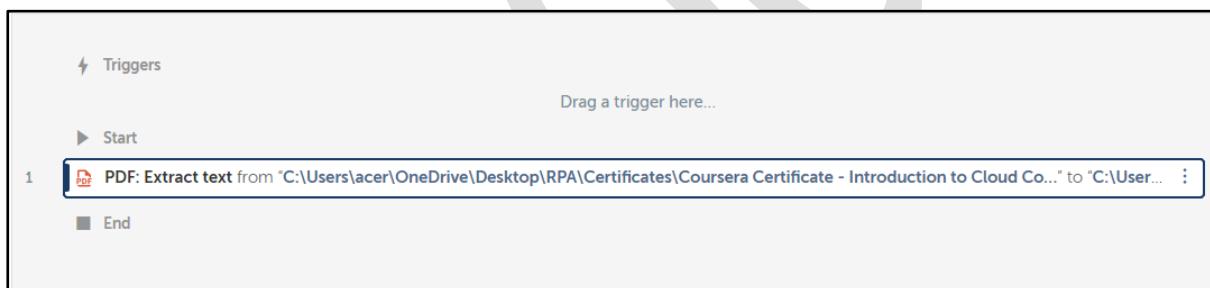
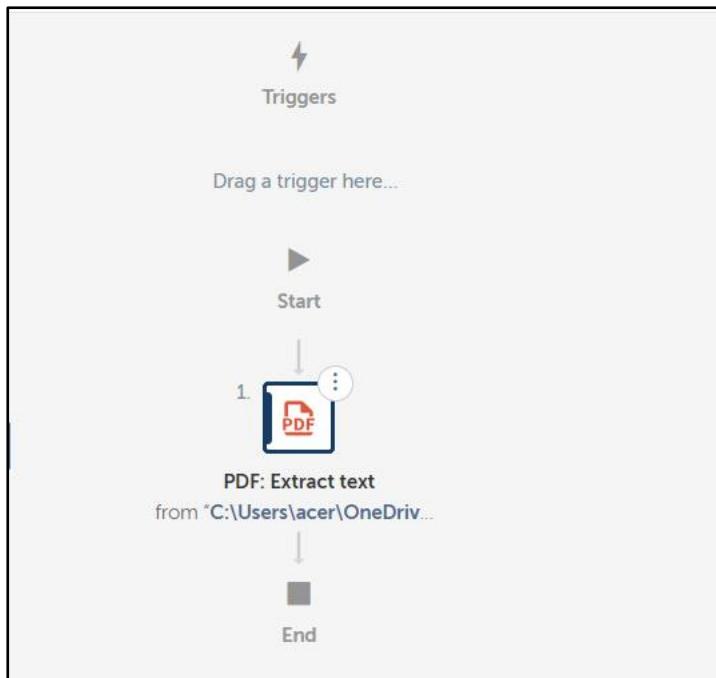


**Output:**

	A	B
1	Name of Student	Course Name
2	Jay Adavade	Introduction to Cloud Computing
3		

Aim: Write a bot to demonstrate screen scraping using extract text

Screenshot:



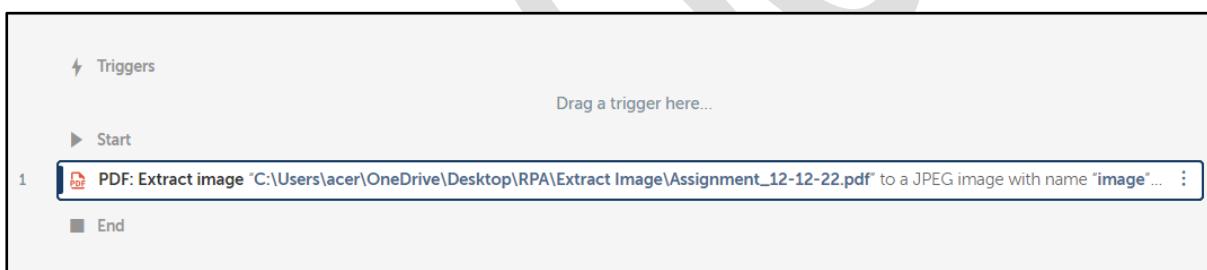
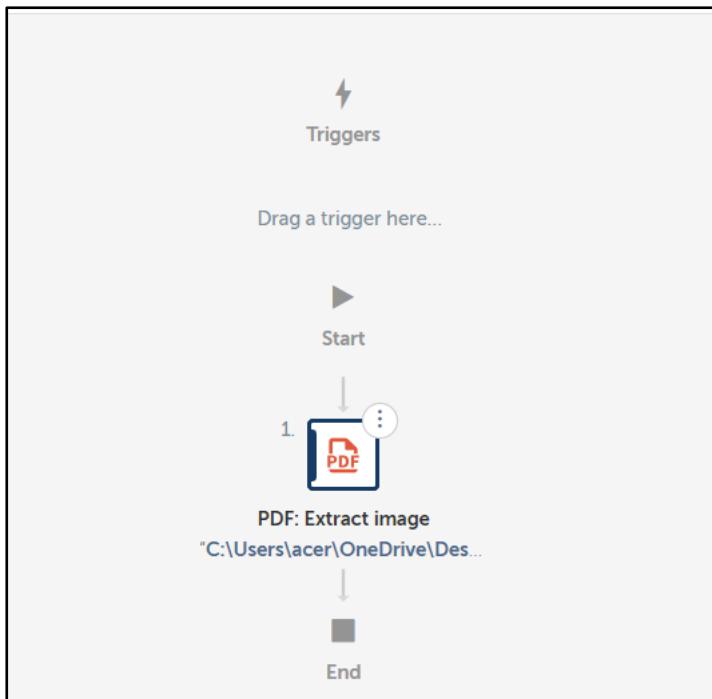
Output:

This screenshot shows a text editor window titled 'Jay.txt'. The window has a standard menu bar with 'File', 'Edit', and 'View'. The main content area displays the following text:

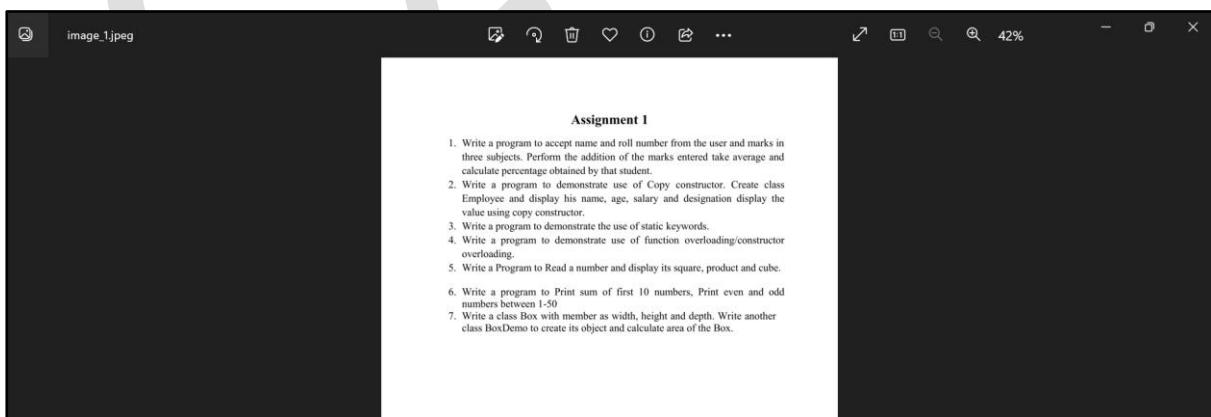
```
J un 23 , 2023
Jay Adavade
Introduction to Cloud Computing
an online non-credit course authorized by IBM and offered through Coursera
has successfully completed
Rav Ahuja
Global Program Director,
Skills Network
Verify at :
ht tps://coursera.org/veri fy/RKUYTB52L9CF
Cour ser a ha s conf ir med the identity of this individua l a nd the ir
pa r t icipa tion in the cour se .
```

Aim: Write a bot to demonstrate screen scraping using extract image

Screenshot:

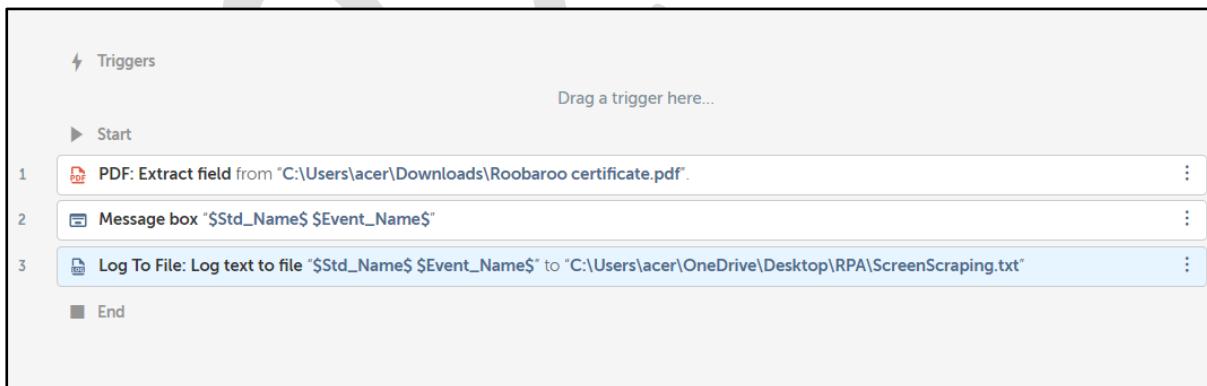


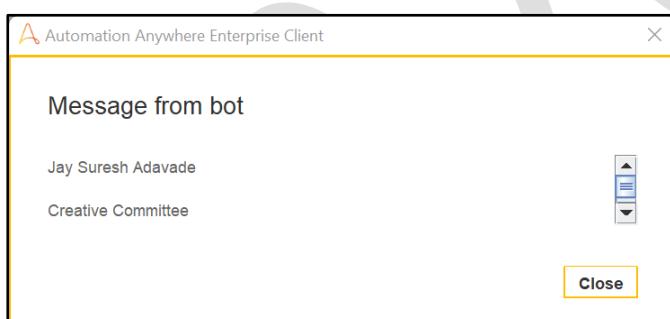
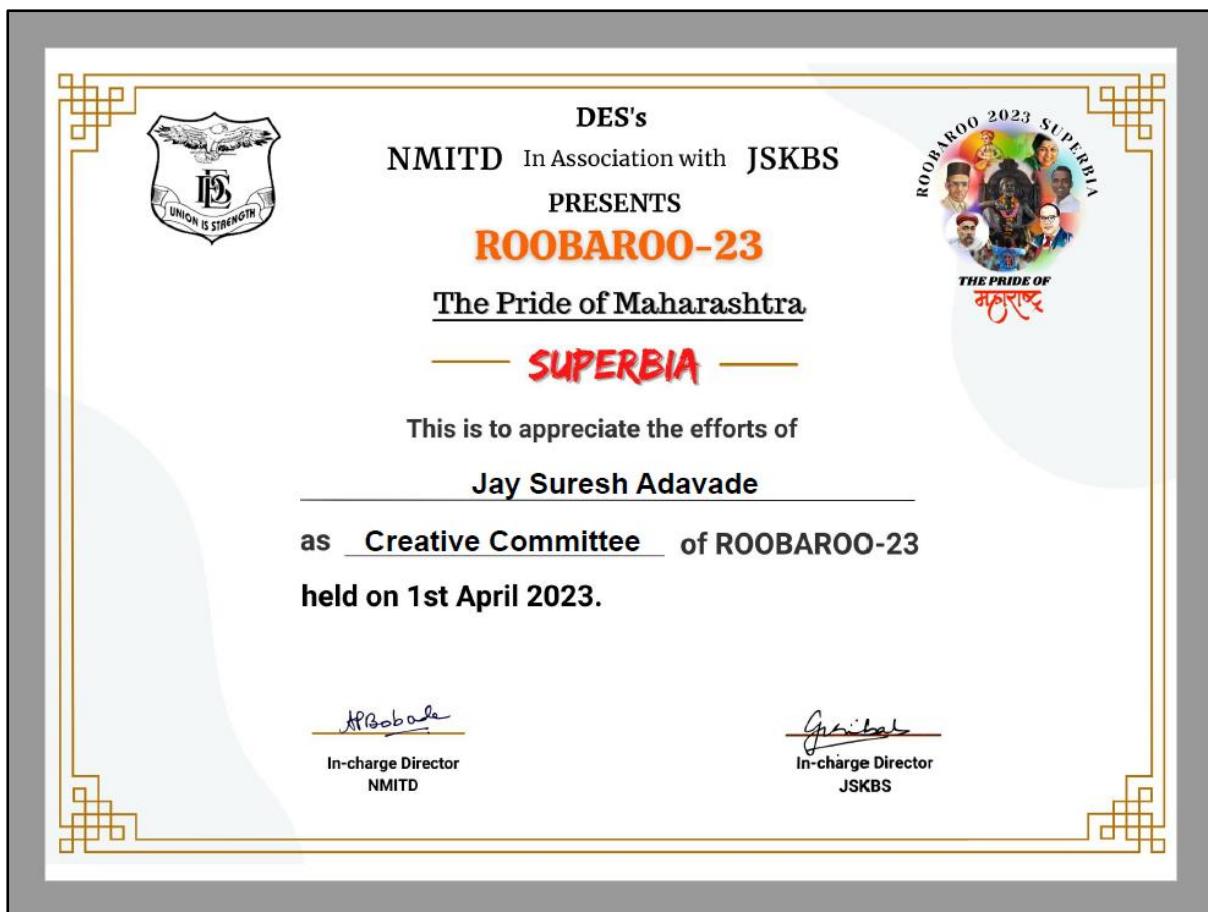
Output:



Aim: Demonstrate a bot to demonstrate screen scraping using extract field - The bot shall paste extracted strings into TXT file.

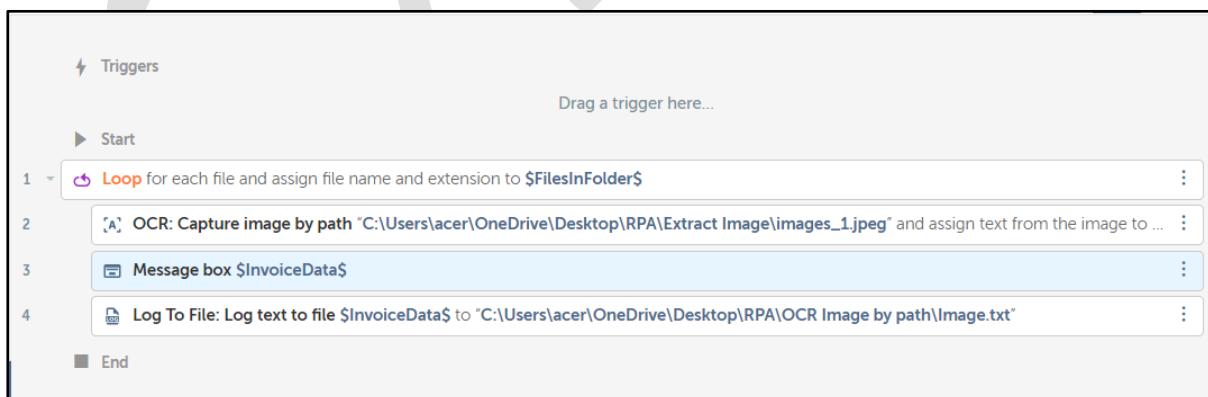
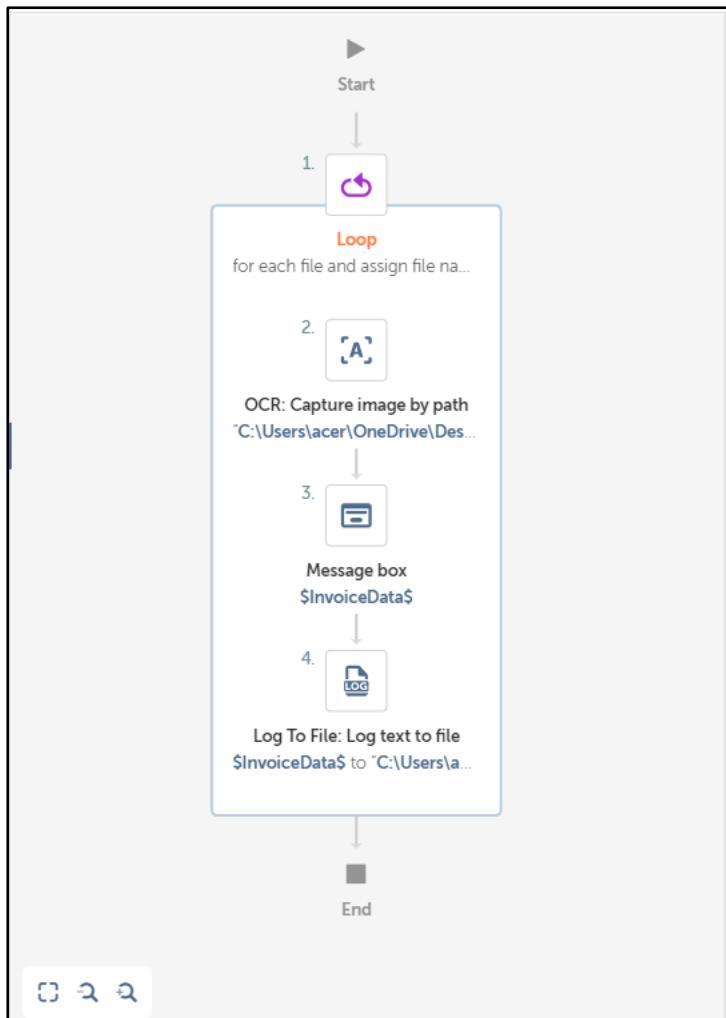
Screenshot:



Output:

Aim: Write a bot to demonstrate screen scraping using OCR – Capture image by path

Screenshot:



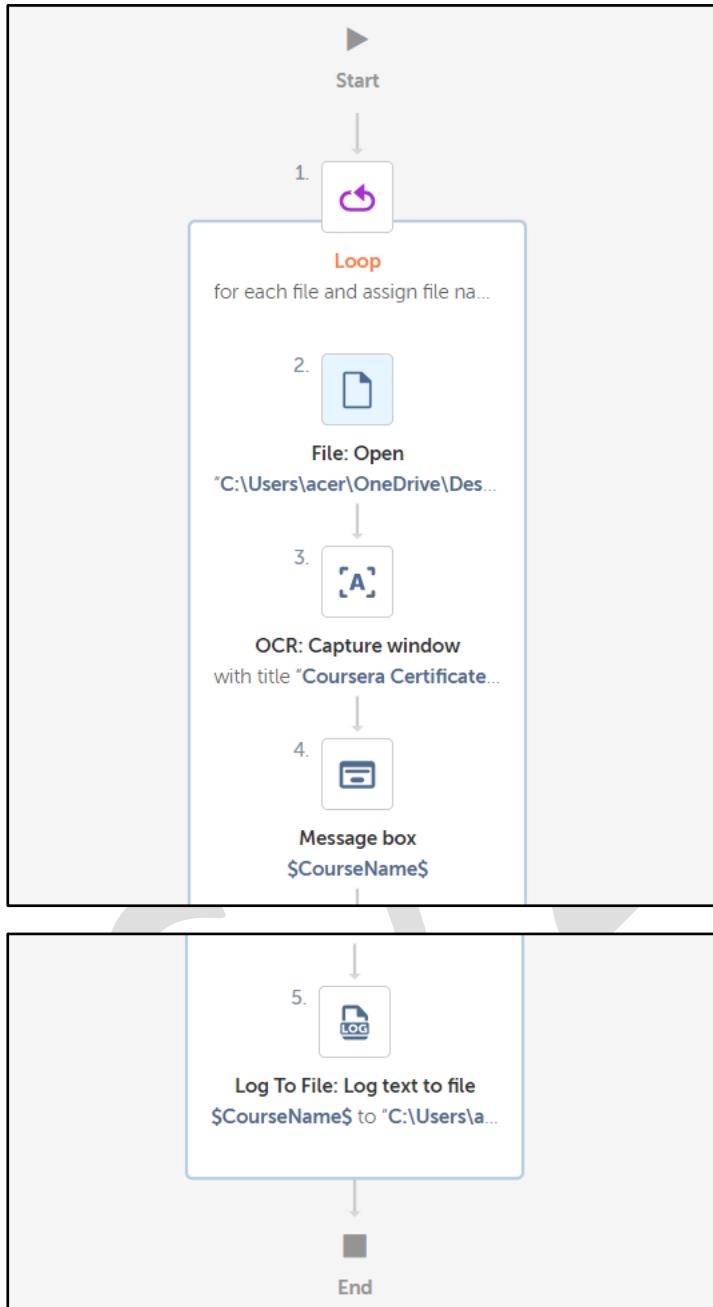
Output:

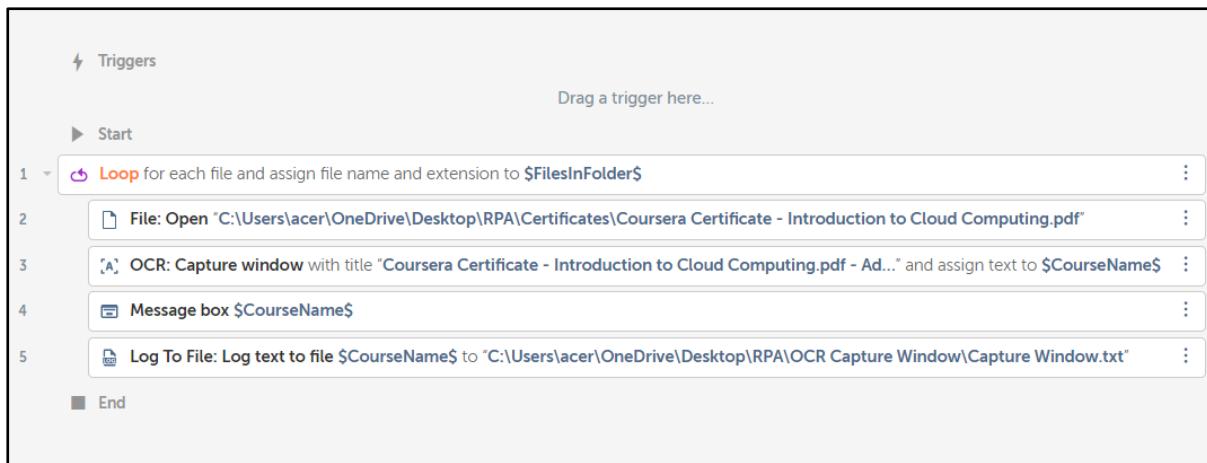
```
Image.txt
File Edit View
|
Jay Adavade
Jay Adavade
Jay Adavade
```

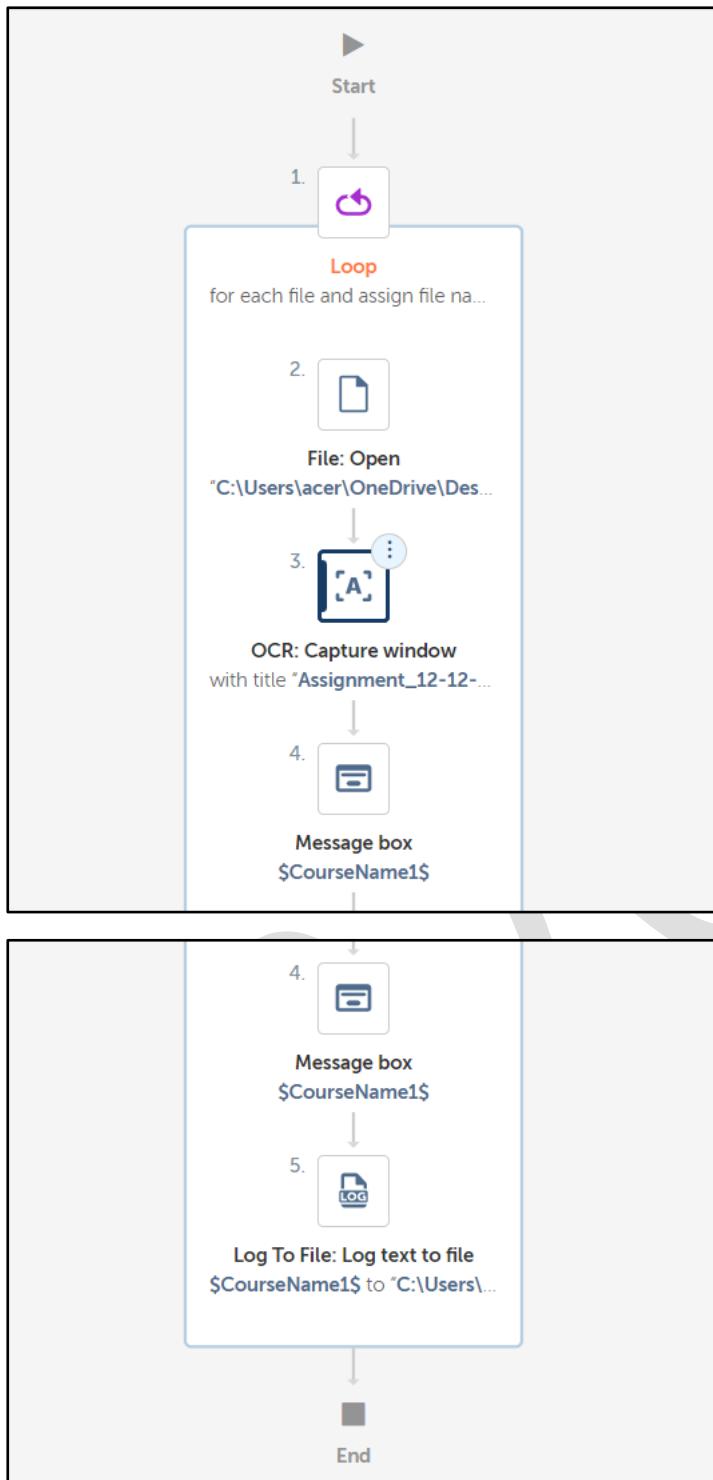
Aim: Write a bot to demonstrate screen scraping using OCR – Capture window with filter and without filter

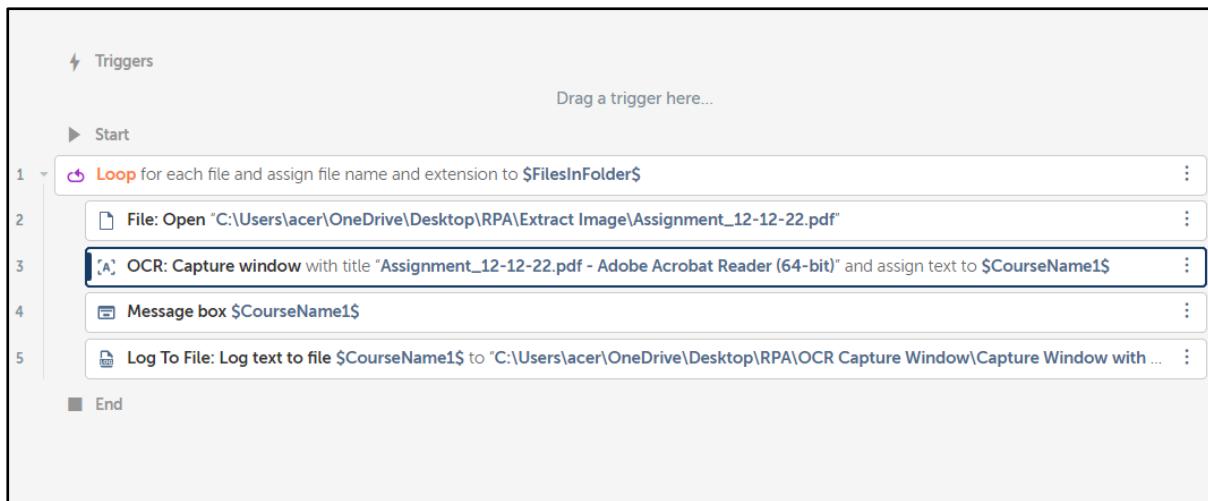
Screenshot:

A) Without Filter



**Output:**

B) With Filters

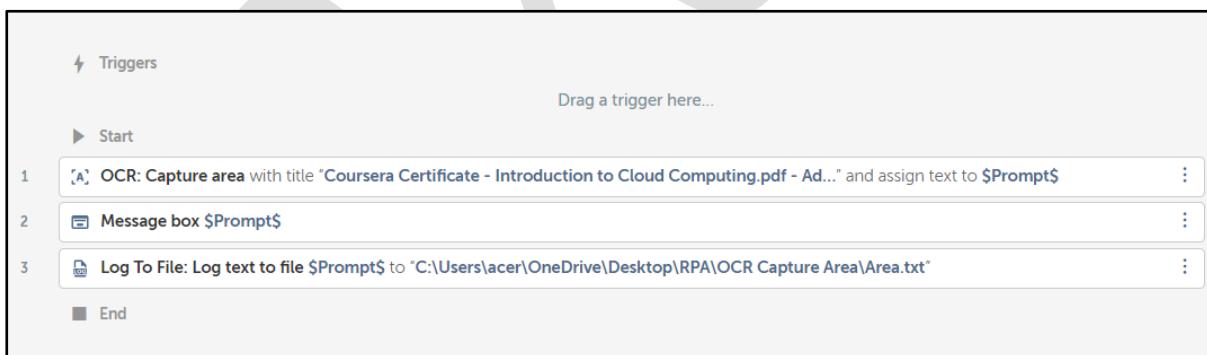
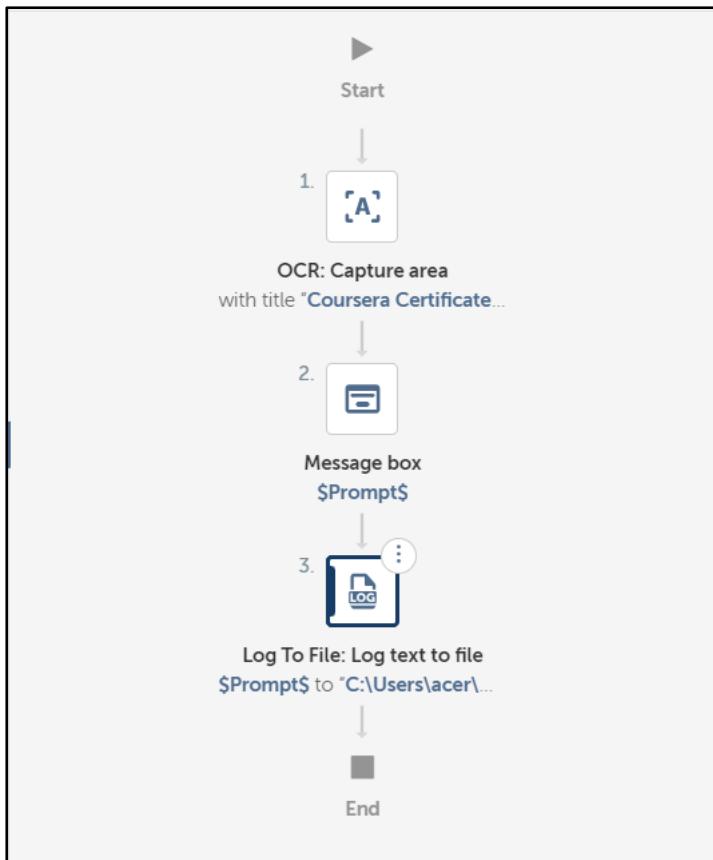


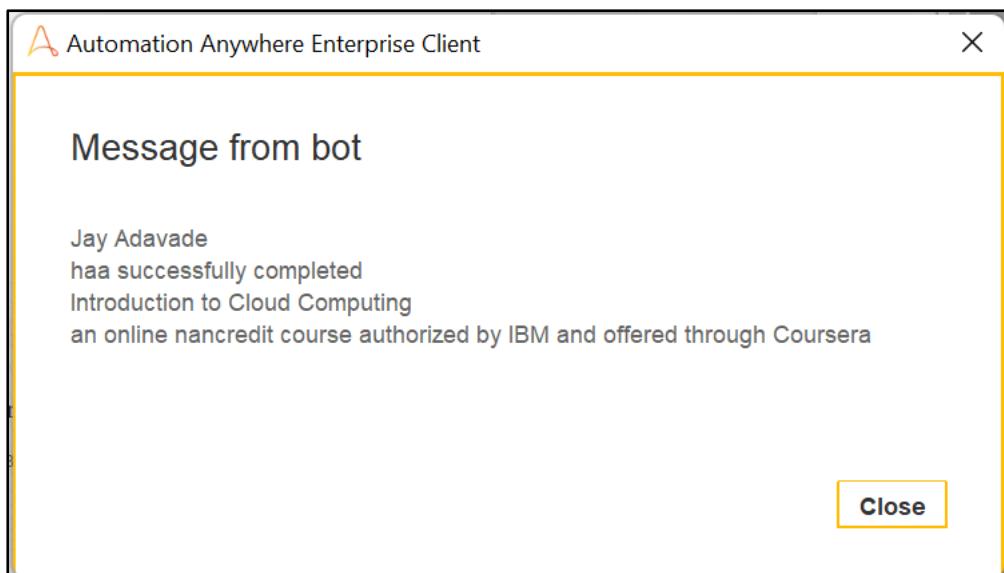
Output:

```
4. Write a program to demonstrate use of function overloading/constructor overloading.  
5. Write a Program to Read a number and display its square, product and cube.  
6. Write a program to Print sum of first 10 numbers. Print even and odd numbers between 1 -50  
7. Write a class Box with member as width, height and depth. Write another Search 'Draw Line'  
Eg Export PDF O /x  
Adobe Export PDF  
Convert PDF Files to Word  
or Excel Online  
Select PDF File  
Assignment...12-22.pdf X  
Convert to  
Microsoft Word (*.docx) v  
Document Language:  
English (U.S.) Change  
Convert, edit and e-sign P1)  
forms & agreements
```

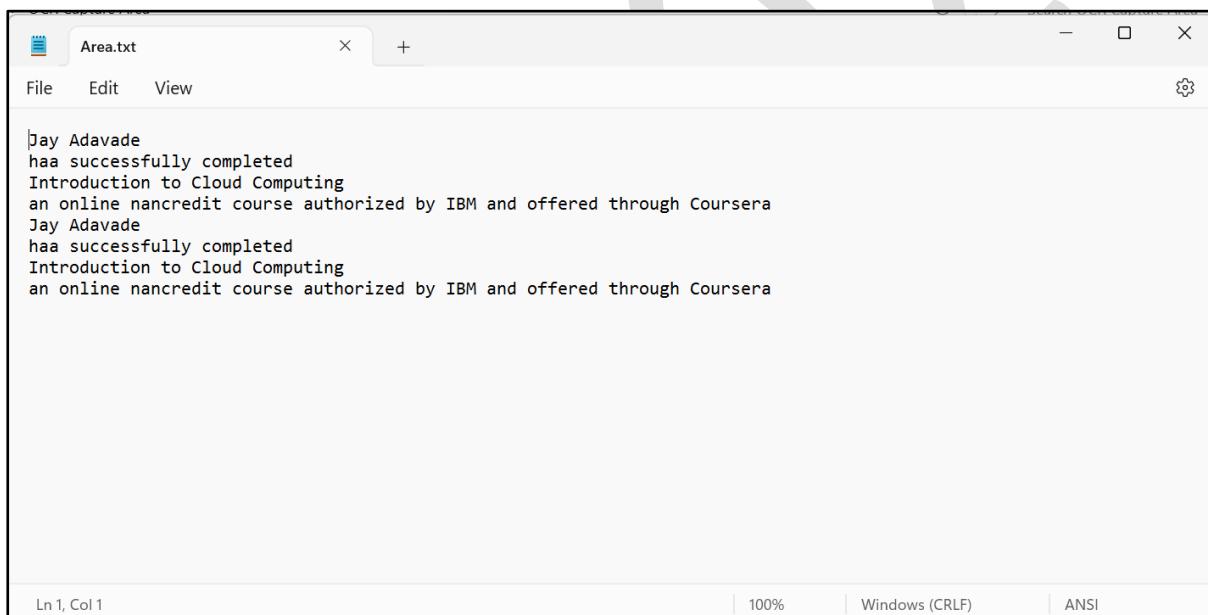
Aim: Write a bot to demonstrate screen scraping using OCR – Capture area

Screenshot:



Output:

Close



Ln 1, Col 1

100%

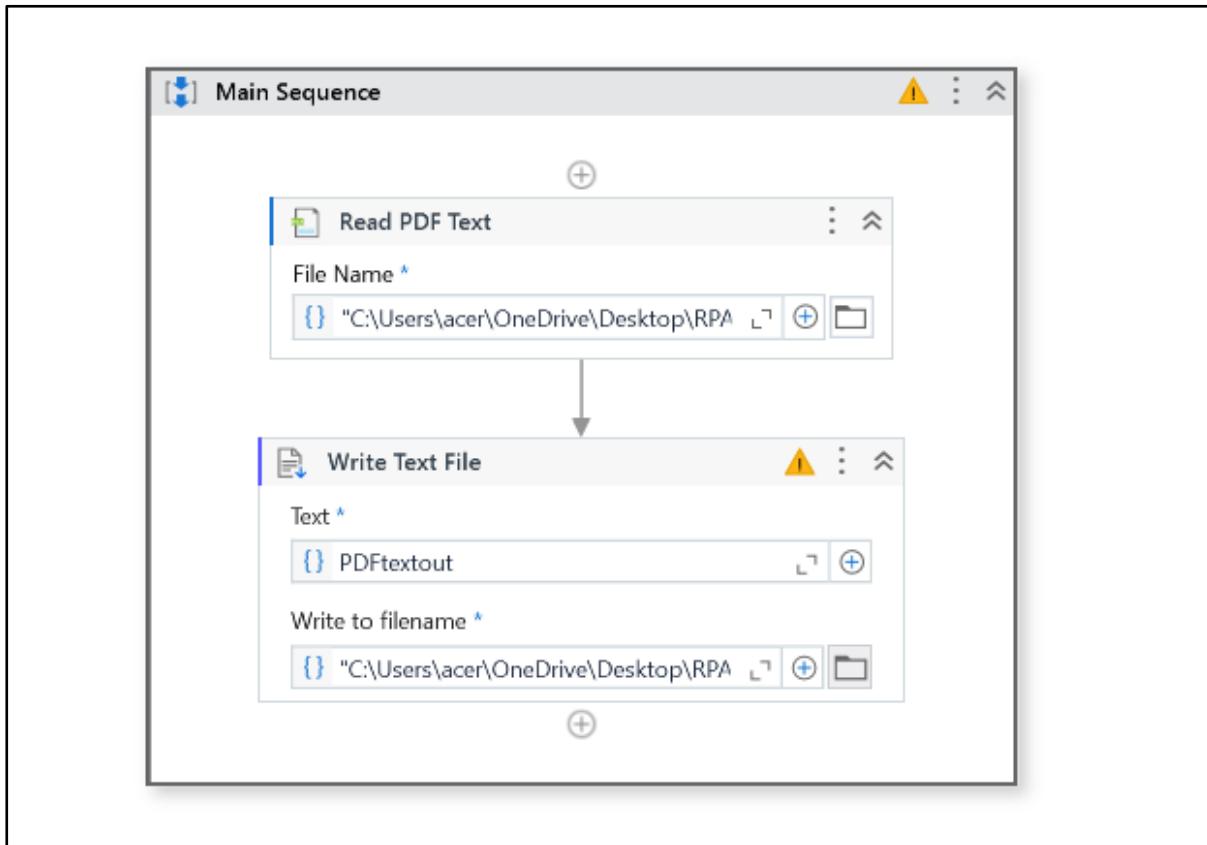
Windows (CRLF)

ANSI

Category 5: UiPath

Aim: Demonstrate a bot to convert PDF file into TXT file

Screenshot:



Output:

The screenshot shows a text editor window titled 'sample.txt'. The content of the file is as follows:

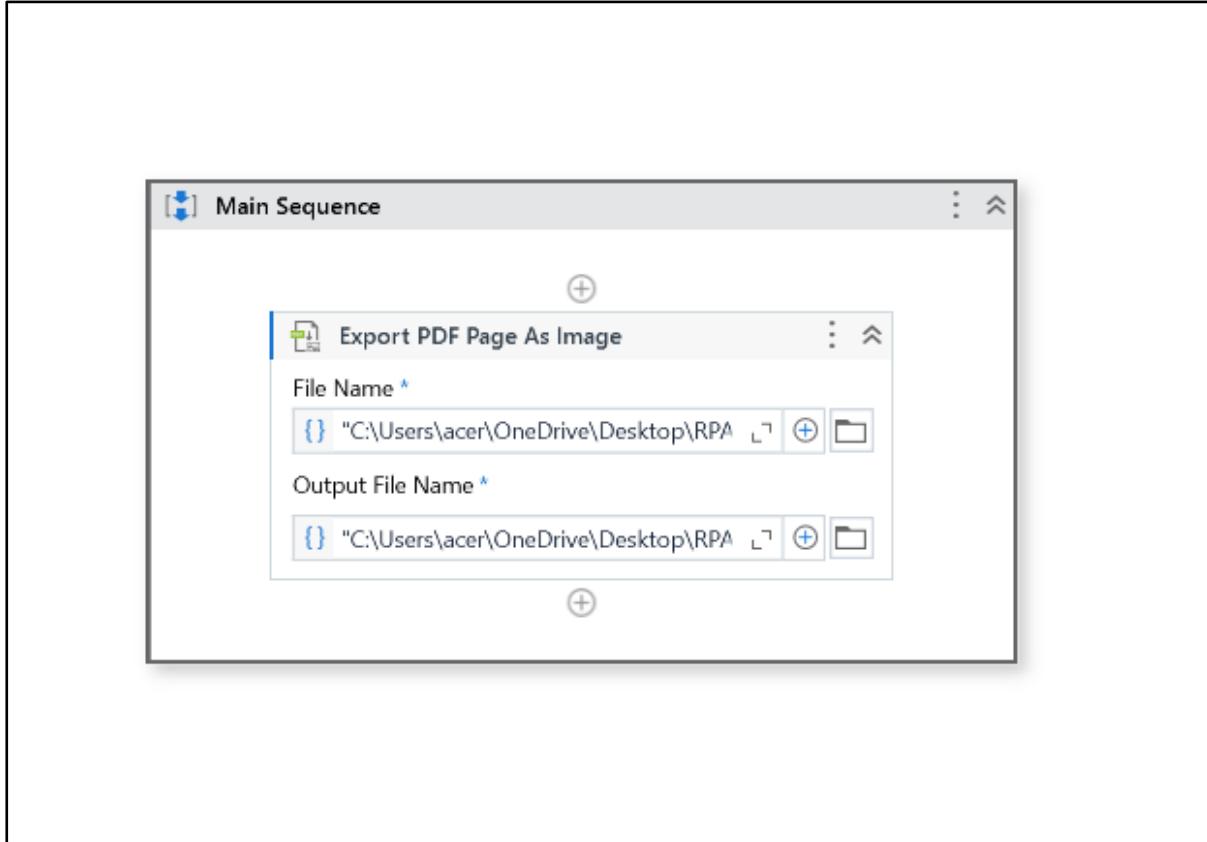
```
Assignment 1
1. Write a program to accept name and roll number from the user and marks in three subjects. Perform the addition of the marks entered take average and calculate percentage obtained by that student.
2. Write a program to demonstrate use of Copy constructor. Create class Employee and display his name, age, salary and designation display the value using copy constructor.
3. Write a program to demonstrate the use of static keywords.
4. Write a program to demonstrate use of function overloading/constructor overloading.
5. Write a Program to Read a number and display its square, product and cube.
6. Write a program to Print sum of first 10 numbers, Print even and odd numbers between 1-50
7. Write a class Box with member as width, height and depth. Write another class BoxDemo to create its object and calculate area of the Box.
```

The bottom status bar of the editor shows 'Ln 1, Col 1' on the left, and '100% Windows (CRLF) UTF-8' on the right.

Aim: Write a bot to demonstrate PDF package with following actions: Export PDF page as image, join PDF files

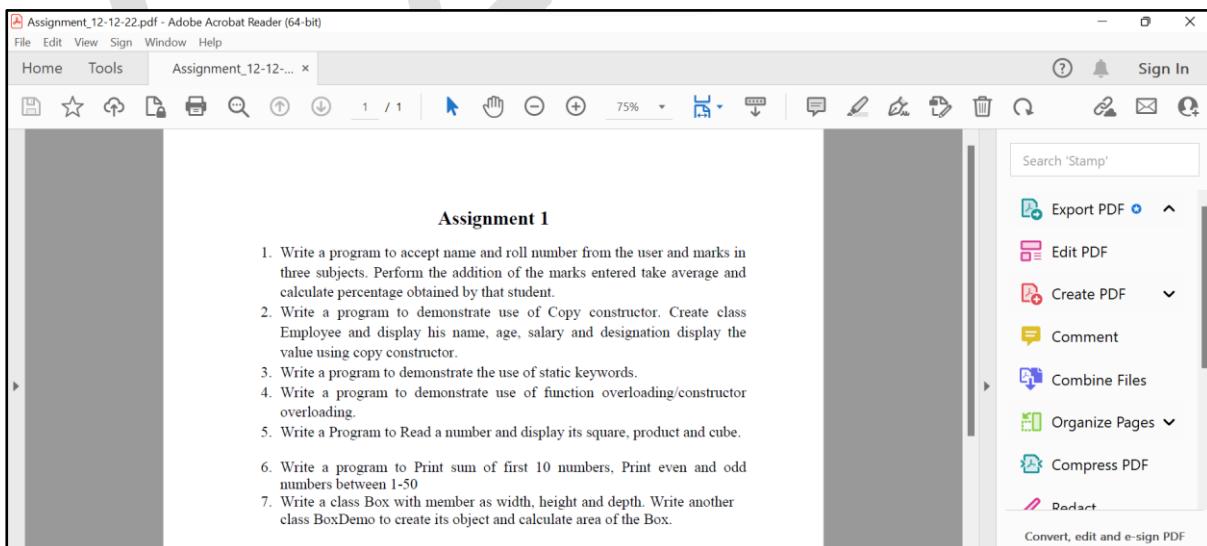
Screenshot:

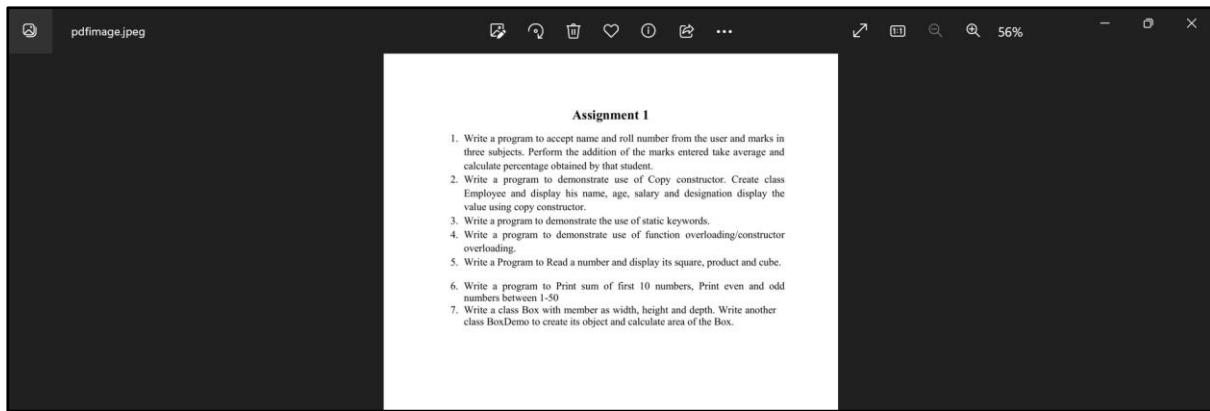
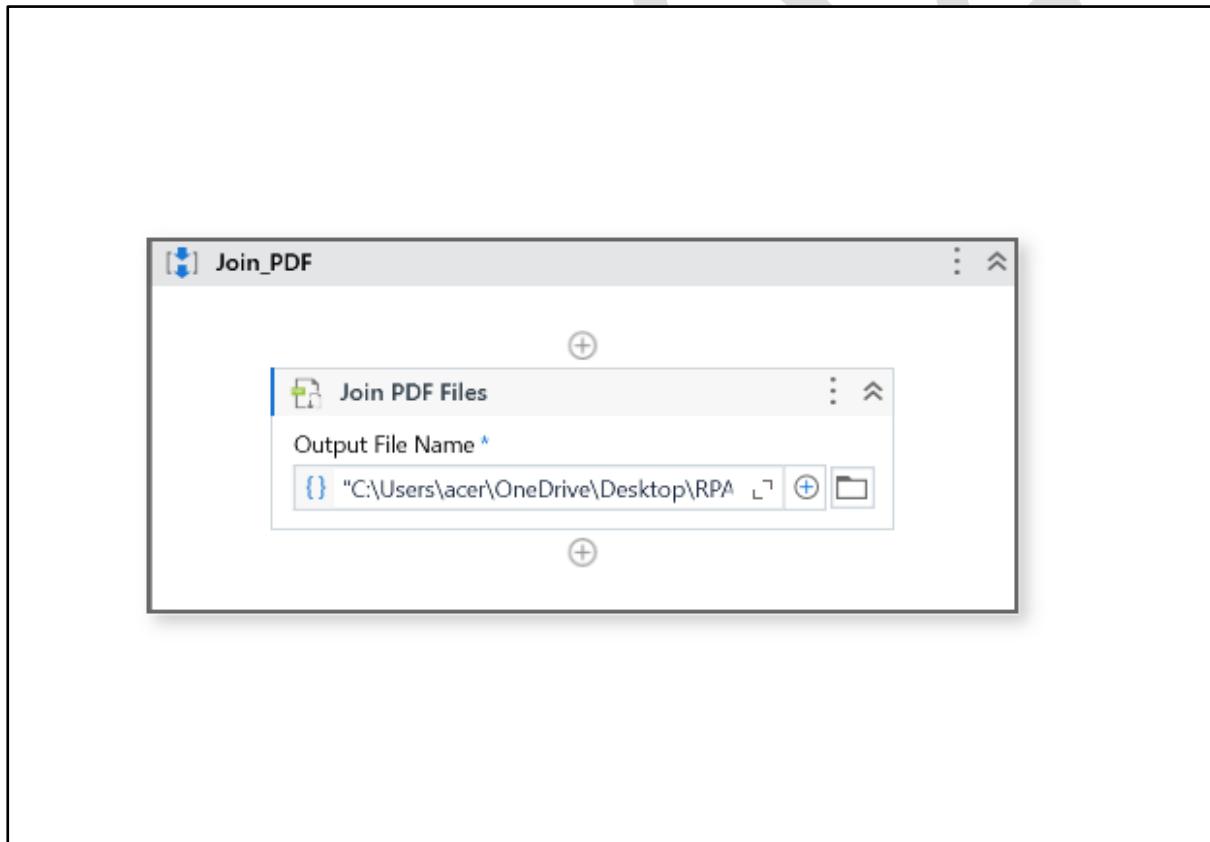
Export PDF page as Image



Output:

PDF File



Converted PDF file into Image File.**Join PDF Files****Screenshot:**

Output:

JoinPDF.pdf - Adobe Acrobat Reader (64-bit)

File Edit View Sign Window Help

Home Tools JoinPDF.pdf x

1 / 4

Hand Zoom In Out

66.7%

Print

Save

Share

Search

Download

Course Code Course Name Teaching Scheme Credits Assigned

MCAE24 3 Robotic Process Automation Contact Hours Theory Tutorial Theory Tutorial Total

3 -- 3 -- 3

Examination Scheme Theory CA Test AVG Term Work End Sem Exam Total

20 20 20 -- 80 100

Pre-requisite: 1. Software Engineering
2. Basics of Computer Science

Course Objectives: The course aim to

Sr. No.	Course Objective
1	Explain the concepts of Robotic Process Automation
2	Explain the process methodologies for BOT development
3	Apply knowledge BOT development for intelligent automation
4	Explore various RPA tools with their specifications

Course Outcomes: On successful completion of course learner/student will be able to

Sr. No.	Course Outcome	Bloom Level
CO1	Define the key concepts of Robotic Process Automation and its evolution	Remembering

Category 6: IQ BOT

C22002