

**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. / Miss. YASH UNHAWANE of M.C.A. Semester II with Roll No. C22129 has completed ALL practicals of Robotic Process Automation under my supervision in this college during the year 2022-2023.

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

Practical-in-charge  
Department

(NMITD)

Head of  
MCA Department

## MCALE233: Robotic Process Automation

| Sr. No.   | Title of Practical   | Course Outcome  | Date |
|-----------|--|-----------------|------|
|           | <b>Category 1:</b>   |                 |      |
| <b>1</b>  | AA: Demonstrate messagebox   | <b>CO2</b>      |      |
| <b>2</b>  | AA: Demonstrate prompts  | <b>CO2</b>      |      |
| <b>3</b>  | AA: Demonstrate list variables   | <b>CO2</b>      |      |
| <b>4</b>  | AA: Demonstrate logfile and keystroke  | <b>CO2</b>      |      |
| <b>5</b>  | File Operations- Demonstrate commands Open, copy, zip, create                                      | <b>CO2</b>      |      |
| <b>6</b>  | UIPath: Demonstrate basic recording in bot   | <b>CO2</b>      |      |
| <b>7</b>  | UIPath: Demonstrate declaration and use of int and string variables                                | <b>CO2</b>      |      |
| <b>8</b>  | UIPath: Demonstrate flowchart  | <b>CO2</b>      |      |
|           | <b>Category 2:</b>   |                 |      |
| <b>9</b>  | AA: Bot to demonstrate string functions  | <b>CO2</b>      |      |
| <b>10</b> | AA: Bot to demonstrate loop using Number package   | <b>CO2</b>      |      |
| <b>11</b> | AA: Bot to demonstrate increment and decrement actions on number and datetime variables            | <b>CO2, CO3</b> |      |
| <b>12</b> | UIPath: Demonstrate substring using string variable  | <b>CO2</b>      |      |
| <b>13</b> | UIPath: Demonstrate Boolean variable using flow decision   | <b>CO2</b>      |      |
| <b>14</b> | UIPath: Demonstrate flow decision for random numbers   | <b>CO2</b>      |      |
| <b>15</b> | UIPath: Design a bot to accept two strings in array and write it into notepad file.                | <b>CO2, CO3</b> |      |
| <b>16</b> | UIPath: Demonstrate generic value variables  | <b>CO2</b>      |      |
|           | <b>Category 3:</b>   |                 |      |
| <b>17</b> | AA: Bot to demonstrate loop for reading file names in a folder and writing those into notepad file | <b>CO3</b>      |      |
| <b>18</b> | AA: Bot to demonstrate list variable using list package  | <b>CO2, CO3</b> |      |
| <b>19</b> | UIPath: Write a bot to check year is a leap year and elseIf  | <b>CO2, CO3</b> |      |
| <b>20</b> | UIPath: Demonstrate while loop and do while loop   | <b>CO2</b>      |      |

|           |   |                 |  |
|-----------|---|-----------------|--|
| <b>21</b> | UIPath: Demonstrate ForEach for list variable   | <b>CO2</b>      |  |
| <b>22</b> | UIPath: Demonstrate ForEach for files in a folder   | <b>CO2, CO3</b> |  |
| <b>23</b> | UIPath: Demonstrate switch  | <b>CO2, CO3</b> |  |
|           | <b>Category 4:</b>  |                 |  |
| <b>24</b> | AA: Bot for Excel operations : Compare and Update Excel Sheet   | <b>CO3, CO4</b> |  |
| <b>25</b> | AA: Bot to demonstrate Data Table Package with Excel/ Advanced Excel package  | <b>CO3, CO4</b> |  |
| <b>26</b> | AA: Bot To copy data from TXT file and write it into Excel  | <b>CO3, CO4</b> |  |
| <b>27</b> | AA: Bot to copy files from one folder to another  | <b>CO3, CO4</b> |  |
| <b>28</b> | UIPath: 1. Write a bot to create array of string and to copy the contents of array to string  | <b>CO3, CO4</b> |  |
| <b>29</b> | UIPath: Demonstrate array variable with different functions   | <b>CO3, CO4</b> |  |
| <b>30</b> | UIPath: Write a bot to convert text file to Excel file  | <b>CO3, CO4</b> |  |
| <b>31</b> | UIPath: Write a bot to apply filter on single data table and on two data tables   | <b>CO3, CO4</b> |  |
| <b>32</b> | 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.                             | <b>CO3, CO4</b> |  |
| <b>33</b> | UIPath: Write a bot to sort data table  | <b>CO3</b>      |  |
| <b>34</b> | UIPath: Write a bot to demonstrate properties of Data Table   | <b>CO3</b>      |  |
|           | <b>Category 5:</b>  |                 |  |
| <b>35</b> | AA: Write a bot to demonstrate PDF actions: merge document and split document   | <b>CO4</b>      |  |
| <b>36</b> | AA: Write a bot to demonstrate screen scraping using <ul style="list-style-type: none"> <li>i. extract field</li> <li>ii. extract text</li> <li>iii. extract image</li> </ul>                   | <b>CO4</b>      |  |
| <b>37</b> | AA:Write a bot to demonstrate screen scraping using OCR – <ul style="list-style-type: none"> <li>i. Capture image by path</li> <li>ii. Capture window with filter and without filter</li> </ul> | <b>CO4</b>      |  |

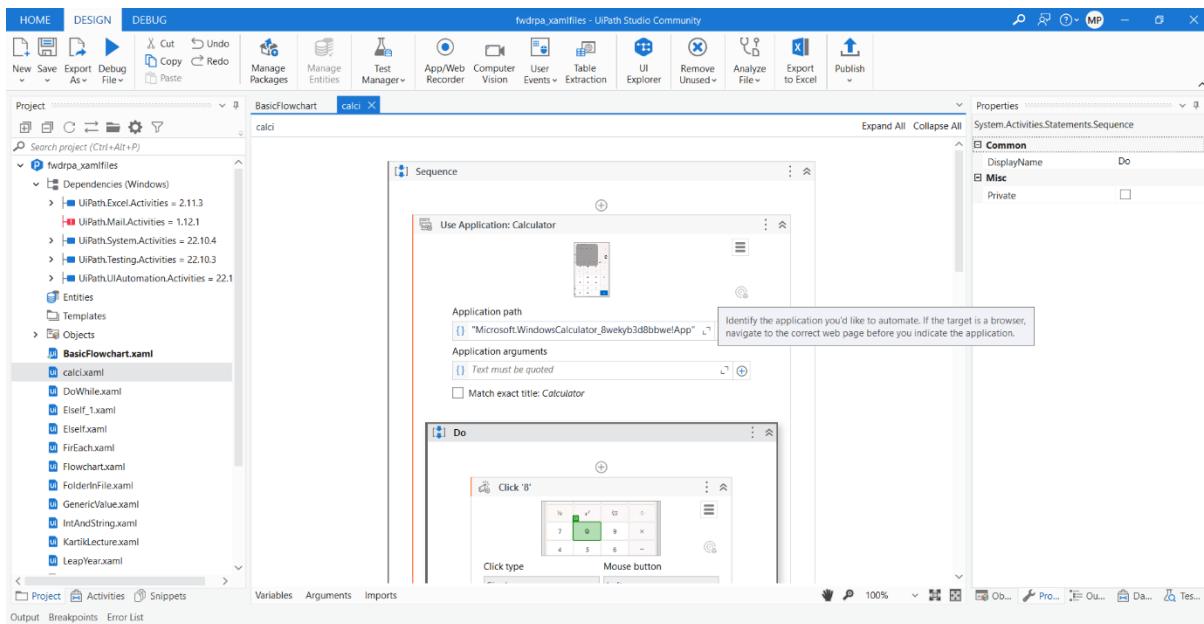
|           |  |            |  |
|-----------|--|------------|--|
| <b>38</b> | UIPath: Write a bot to convert PDF file into TXT file  | <b>CO4</b> |  |
| <b>39</b> | UIPath: Write a bot to demonstrate PDF package with following actions: Export PDF page as image, join PDF files. | <b>CO4</b> |  |
| <b>40</b> | <b>Category 6:<br/>Design IQ Bot using Automation Anywhere</b>   | <b>CO4</b> |  |

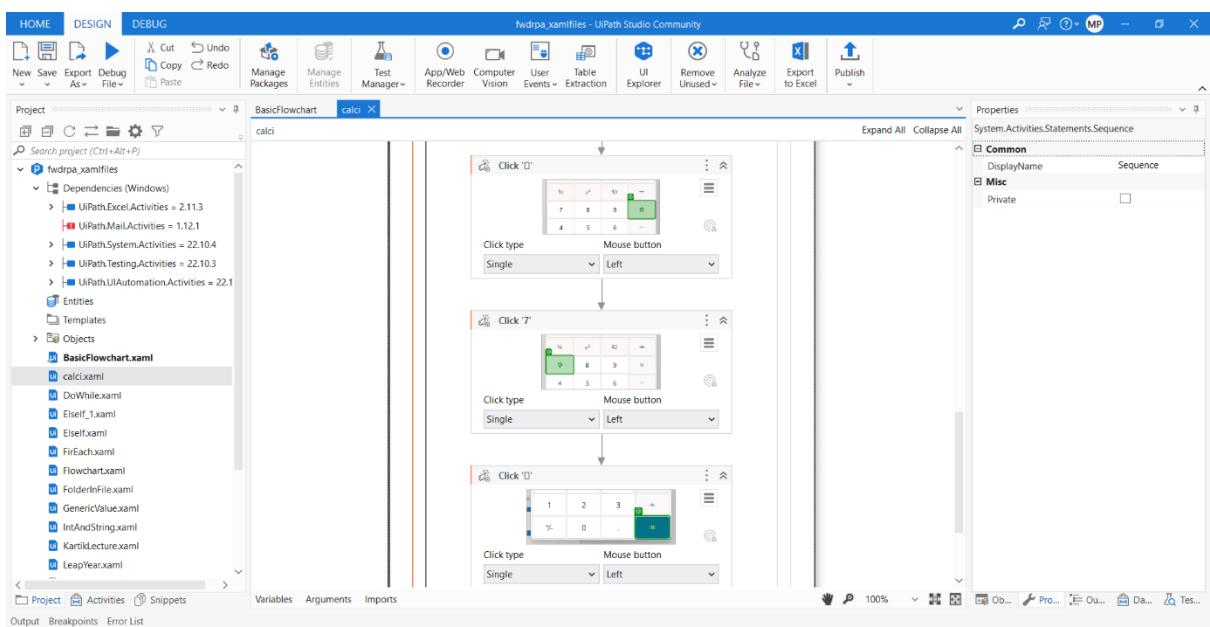
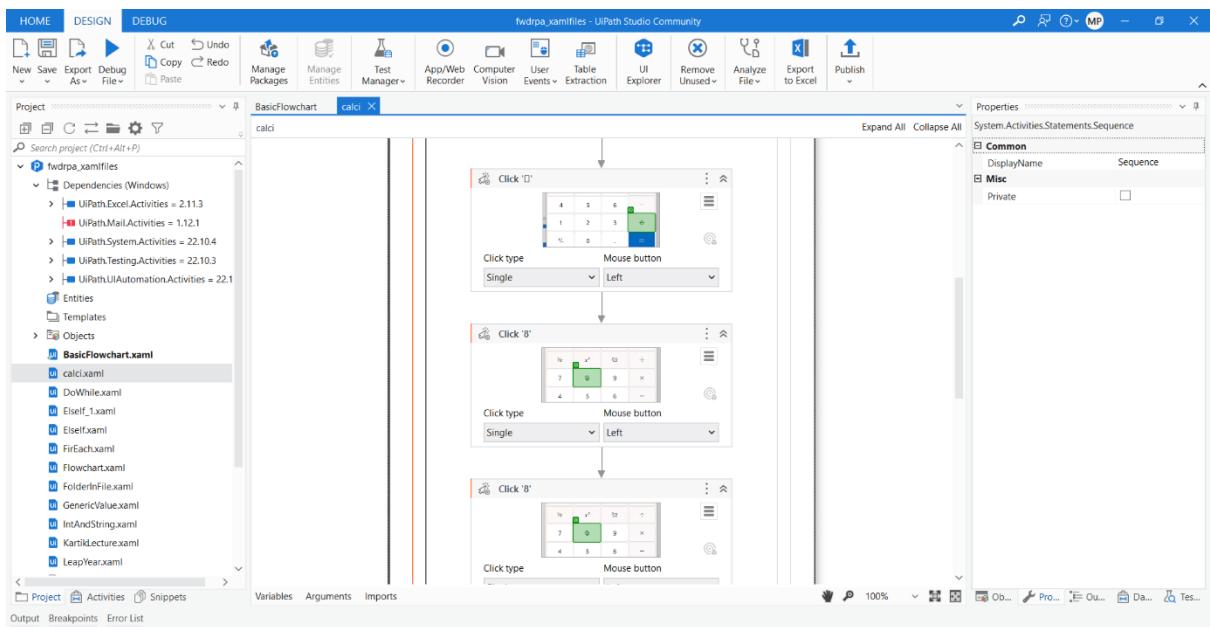
## CATEGORY 1

### UiPath:

 Demonstrate basic recording in bot.

### Process:

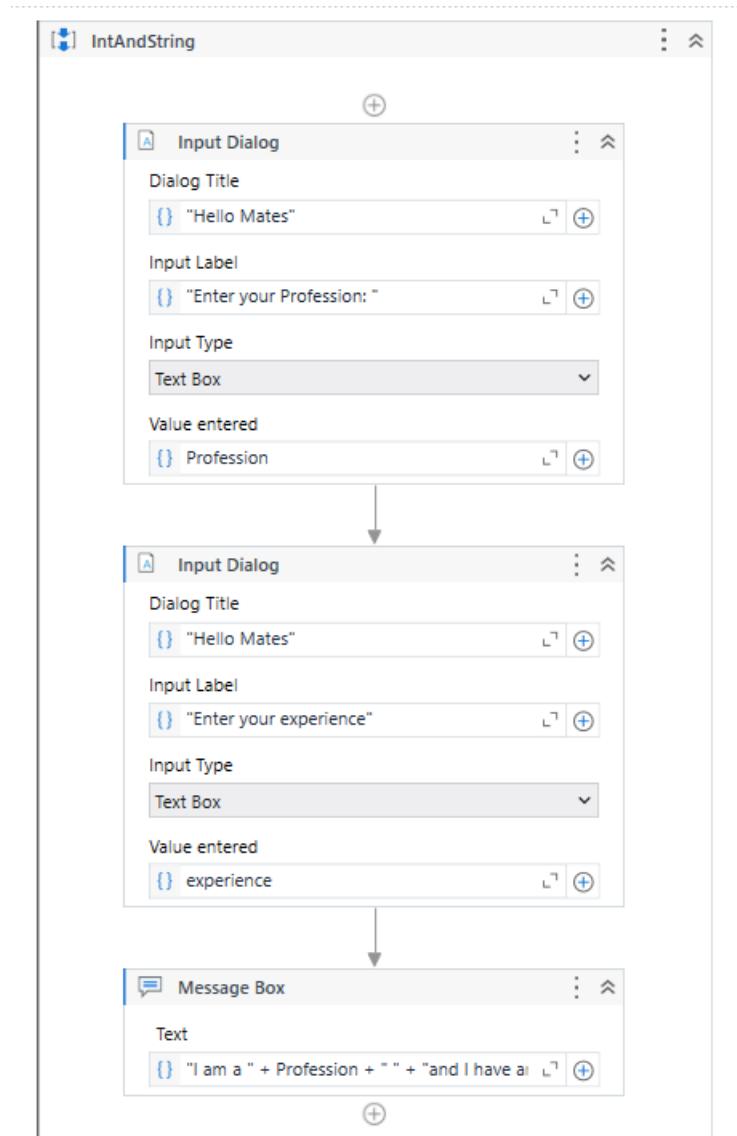


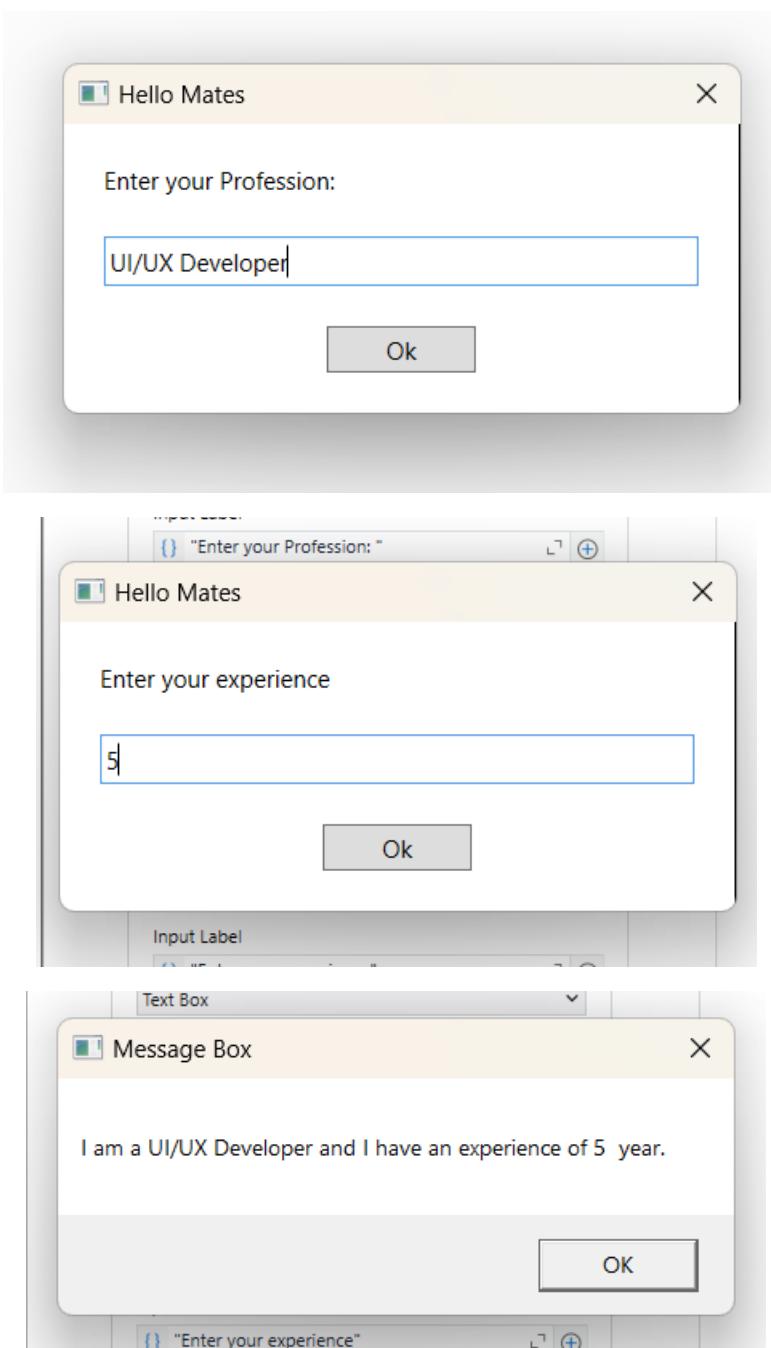


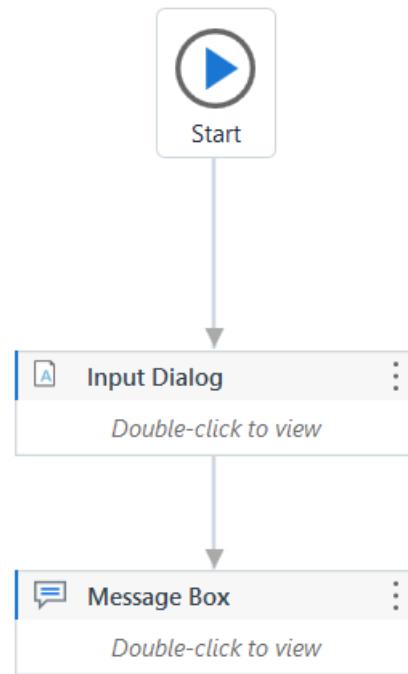
Output:

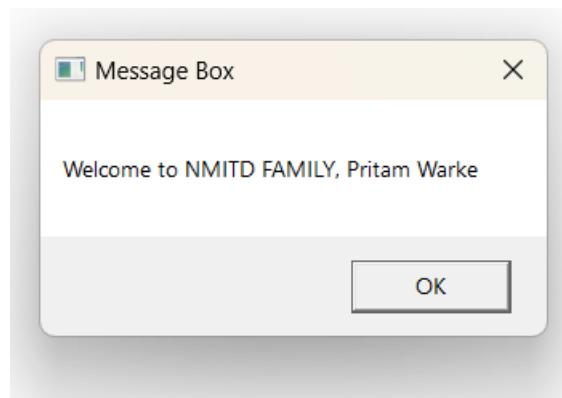
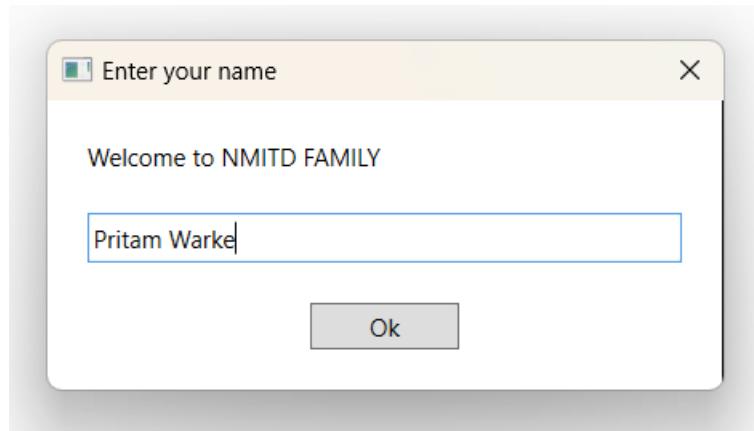
## ⊕ Demonstrate declaration and use of int and string variables

Process:



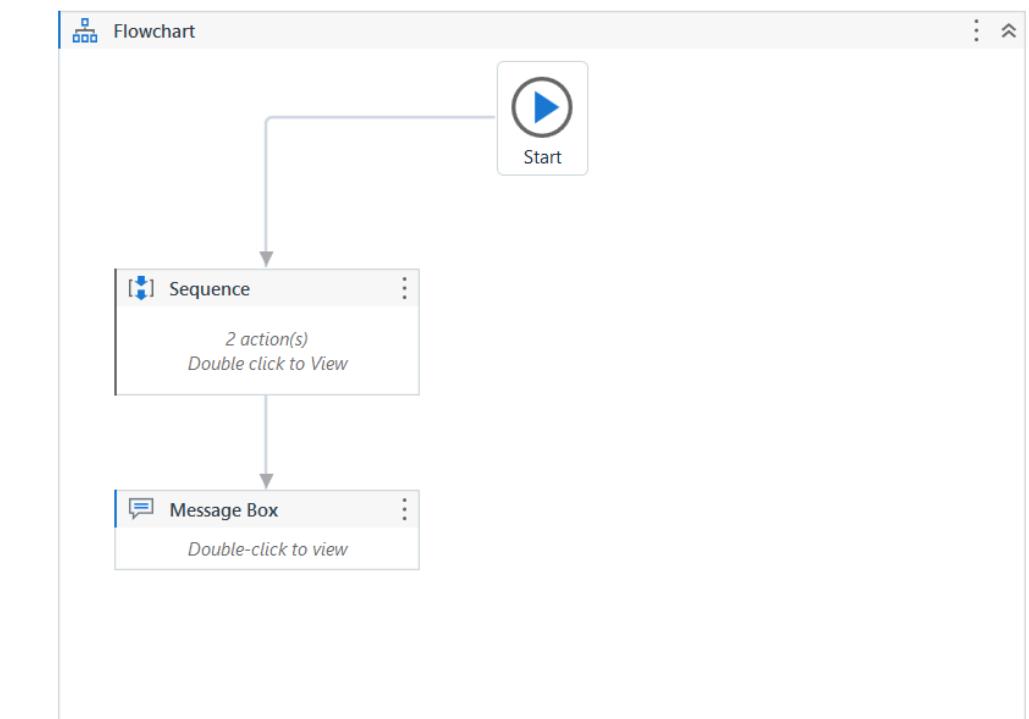
Output:

 **Demonstrate flowchart.**Process:

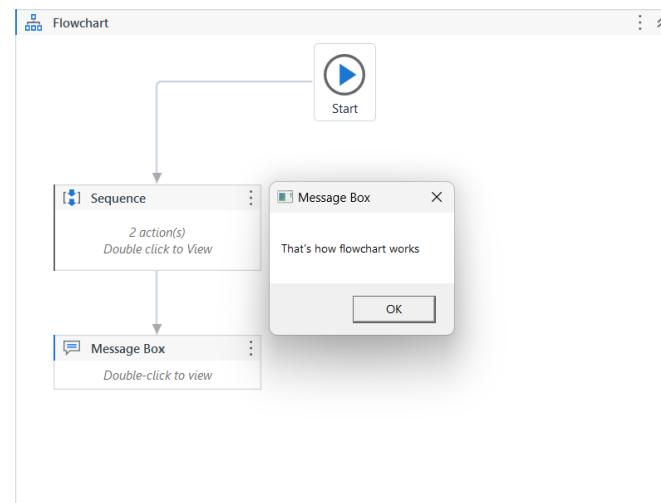
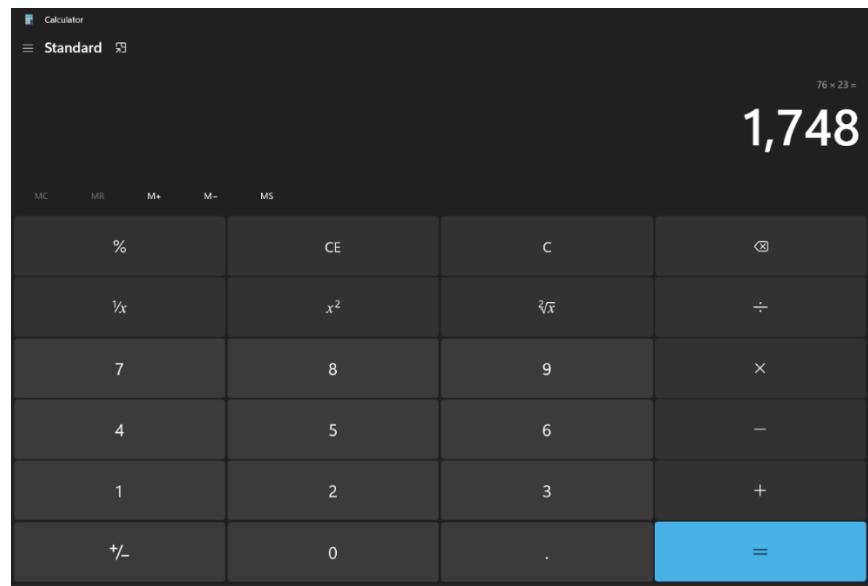
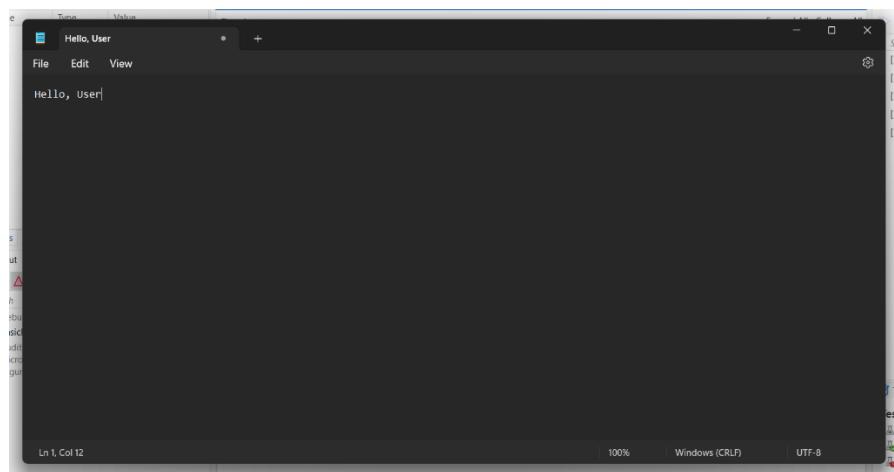
Output:

## ⊕ Demonstrate flowchart with recording

Process:



## Output:

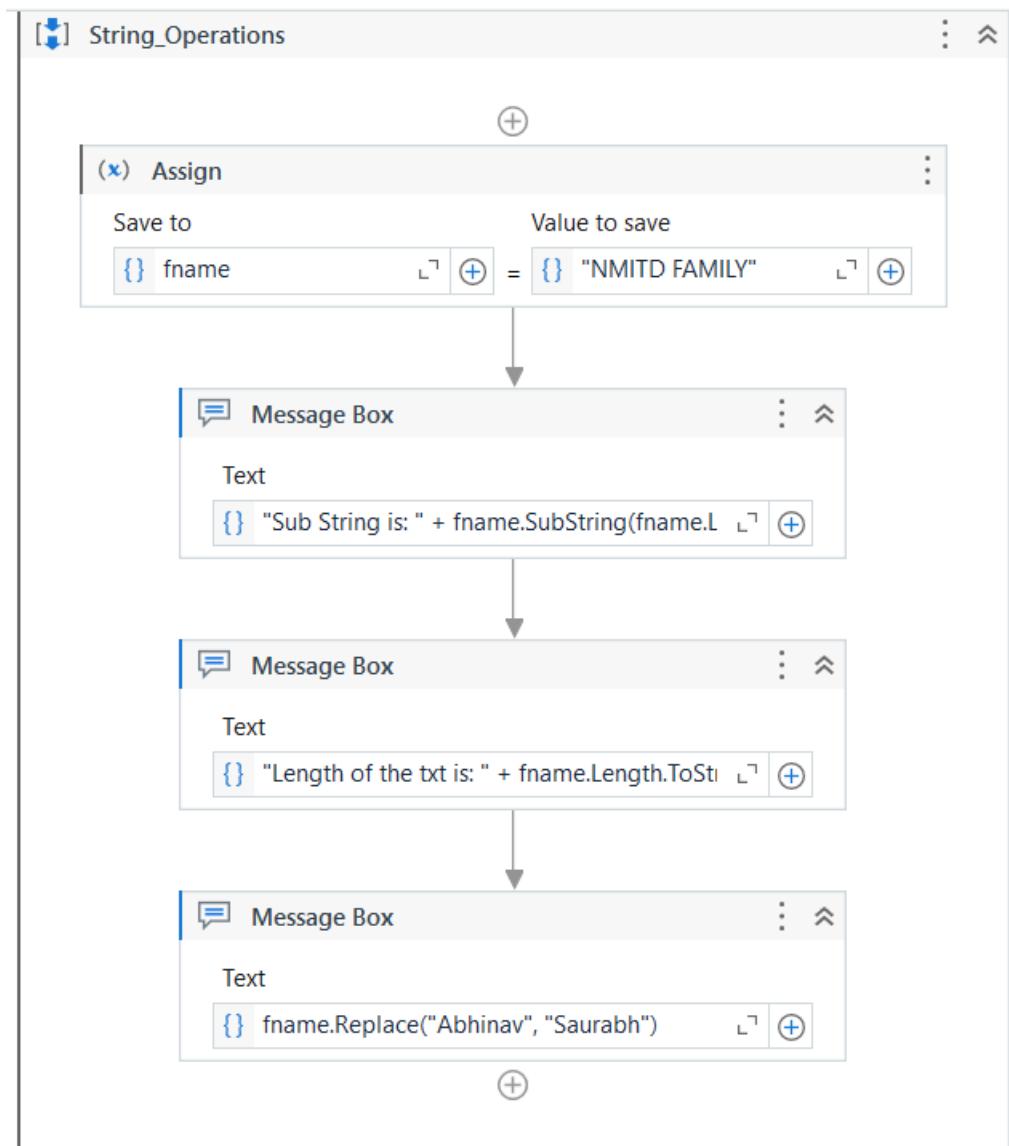


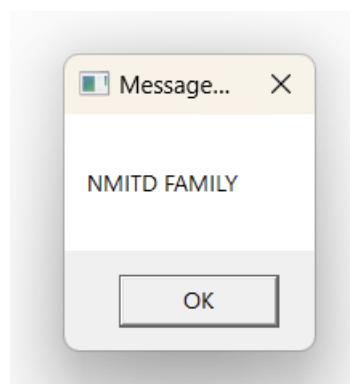
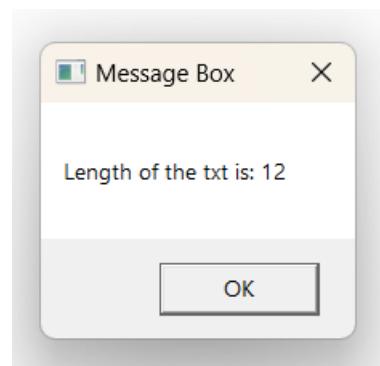
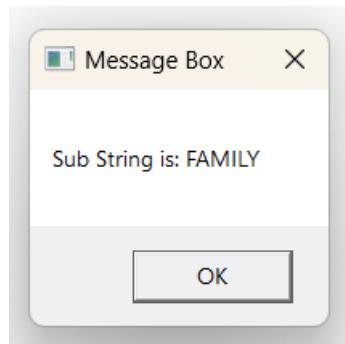
## CATEGORY 2

### UIPath:

⊕ Demonstrate substring using string variable

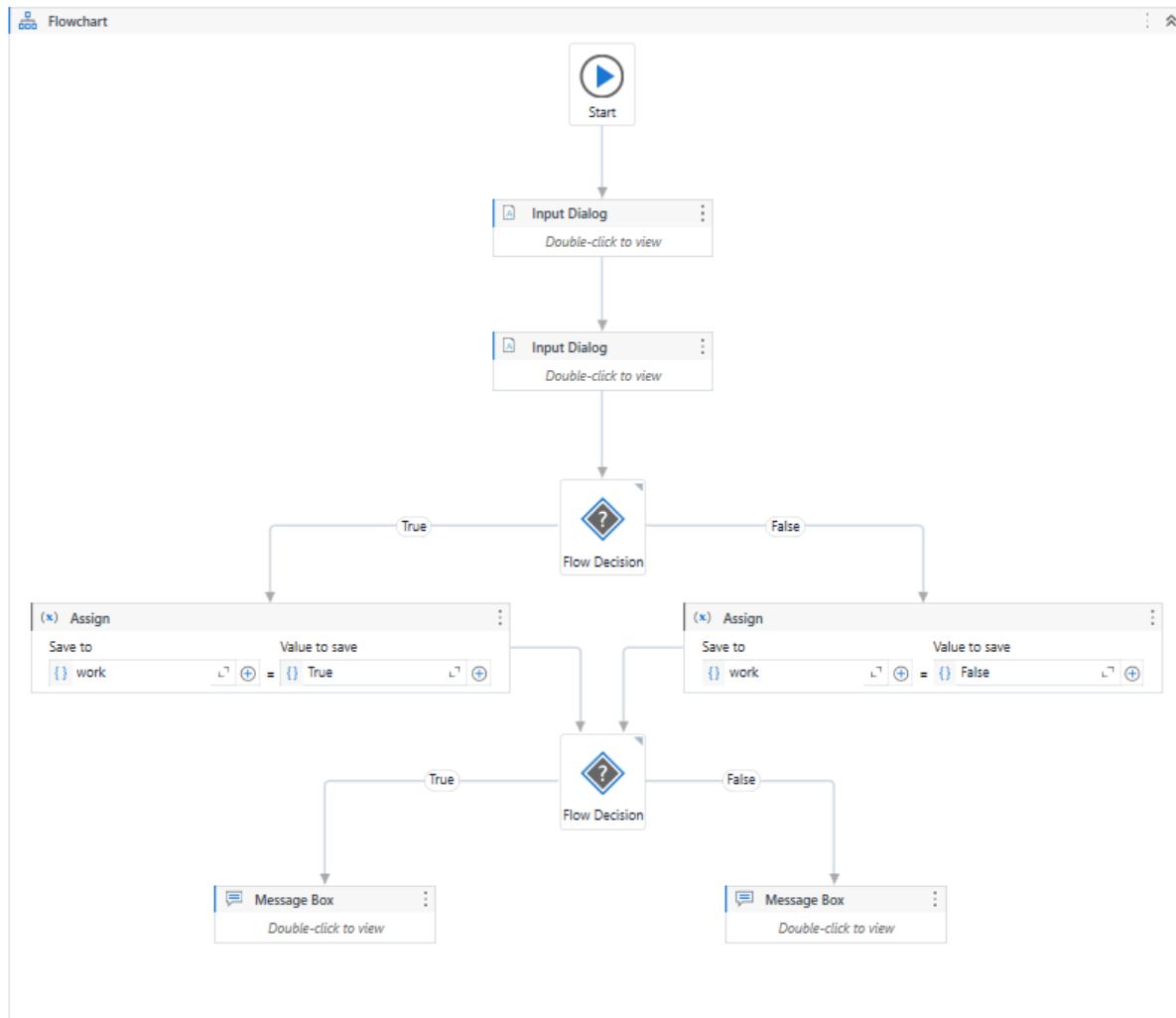
#### Process:

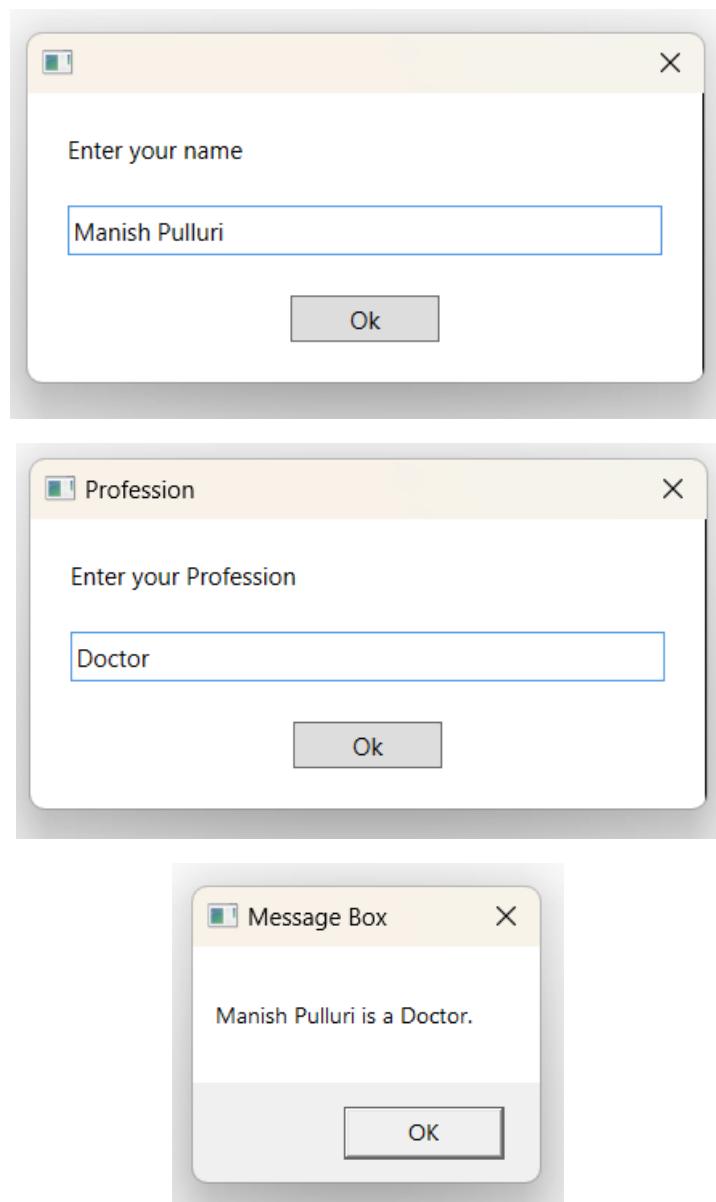


Output:

## ⊕ Demonstrate Boolean variable using flow decision

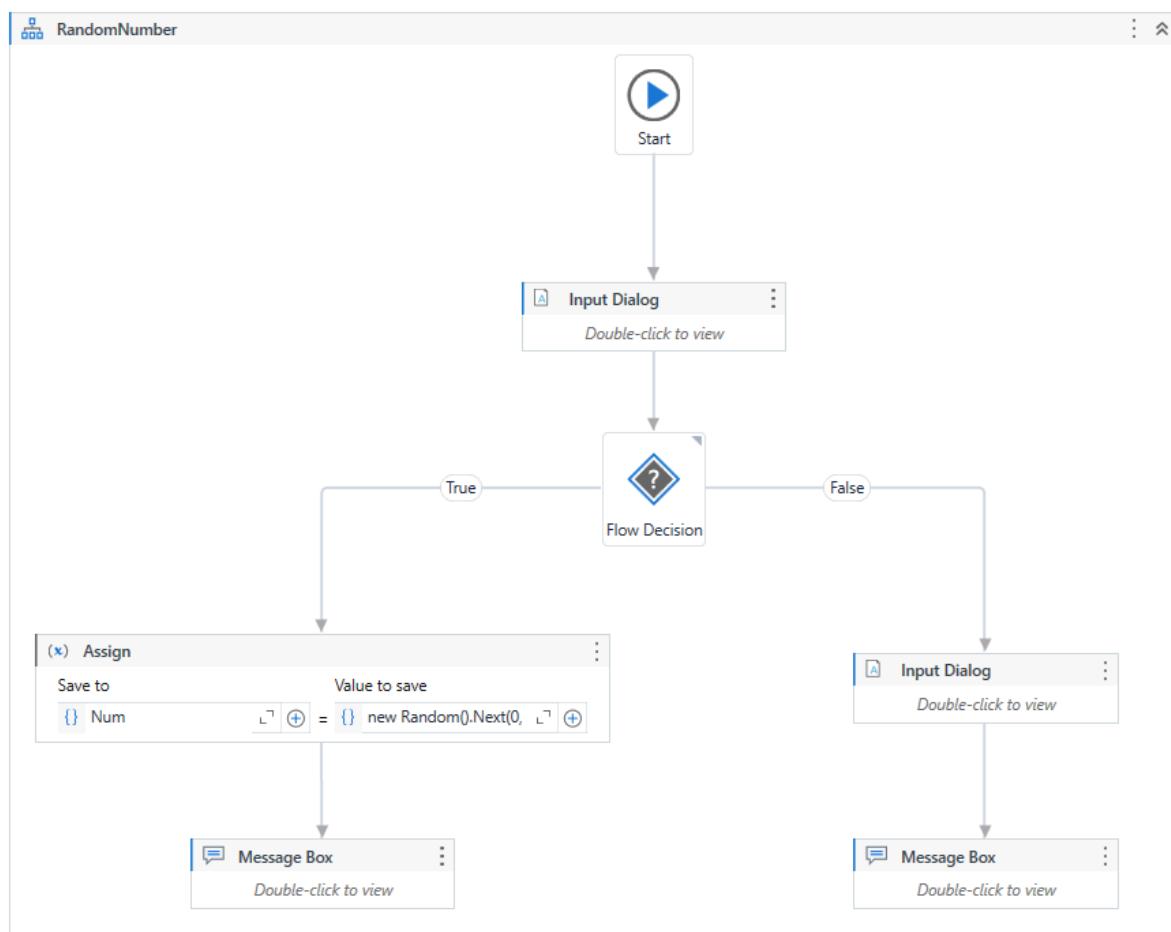
Process:



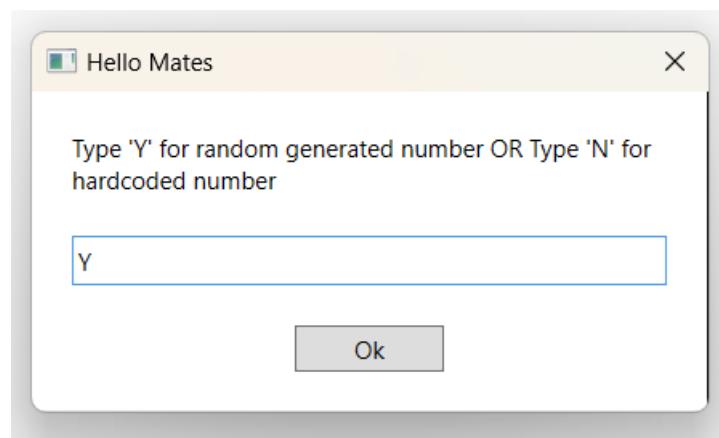
Output:

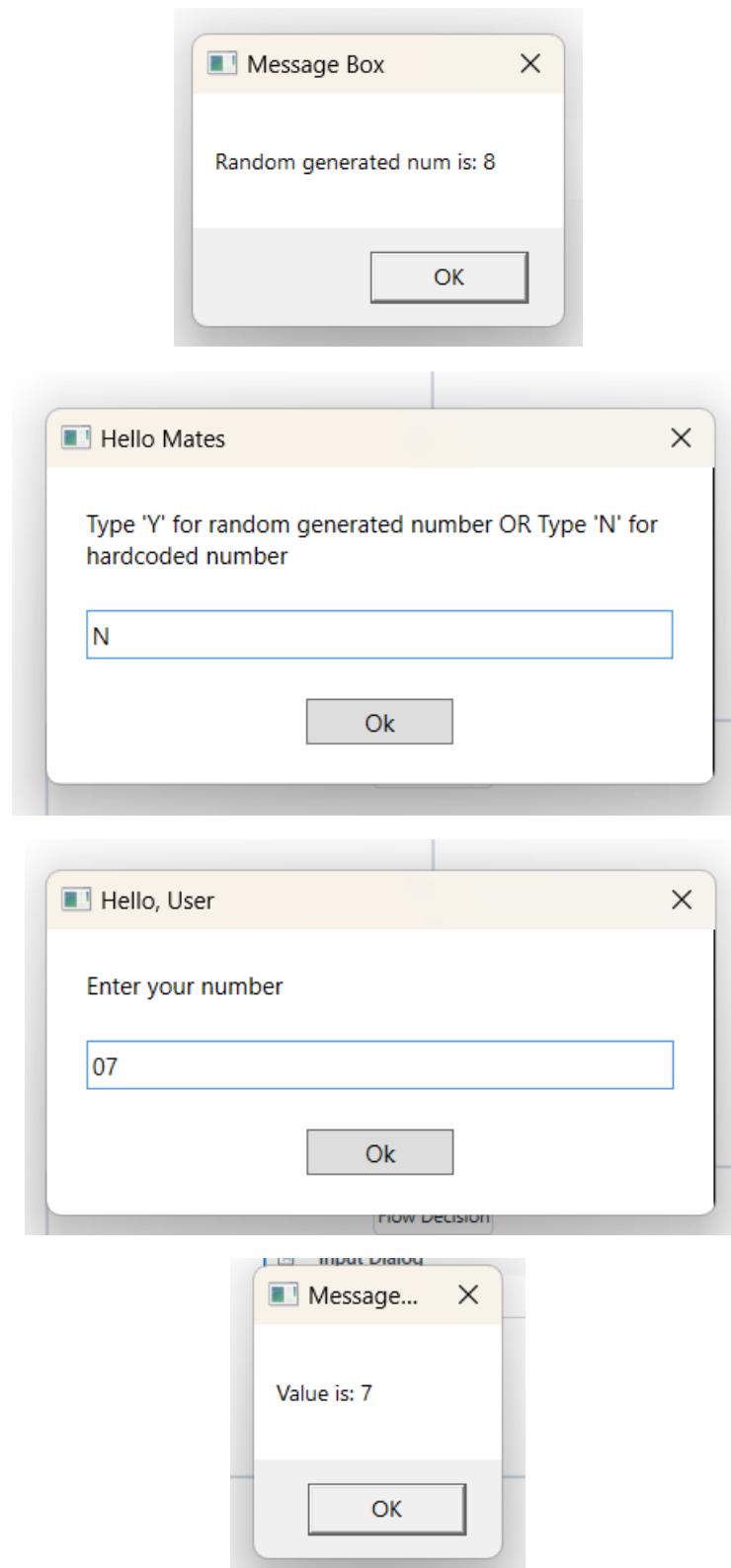
## ⊕ Demonstrate flow decision for random numbers

### Process:



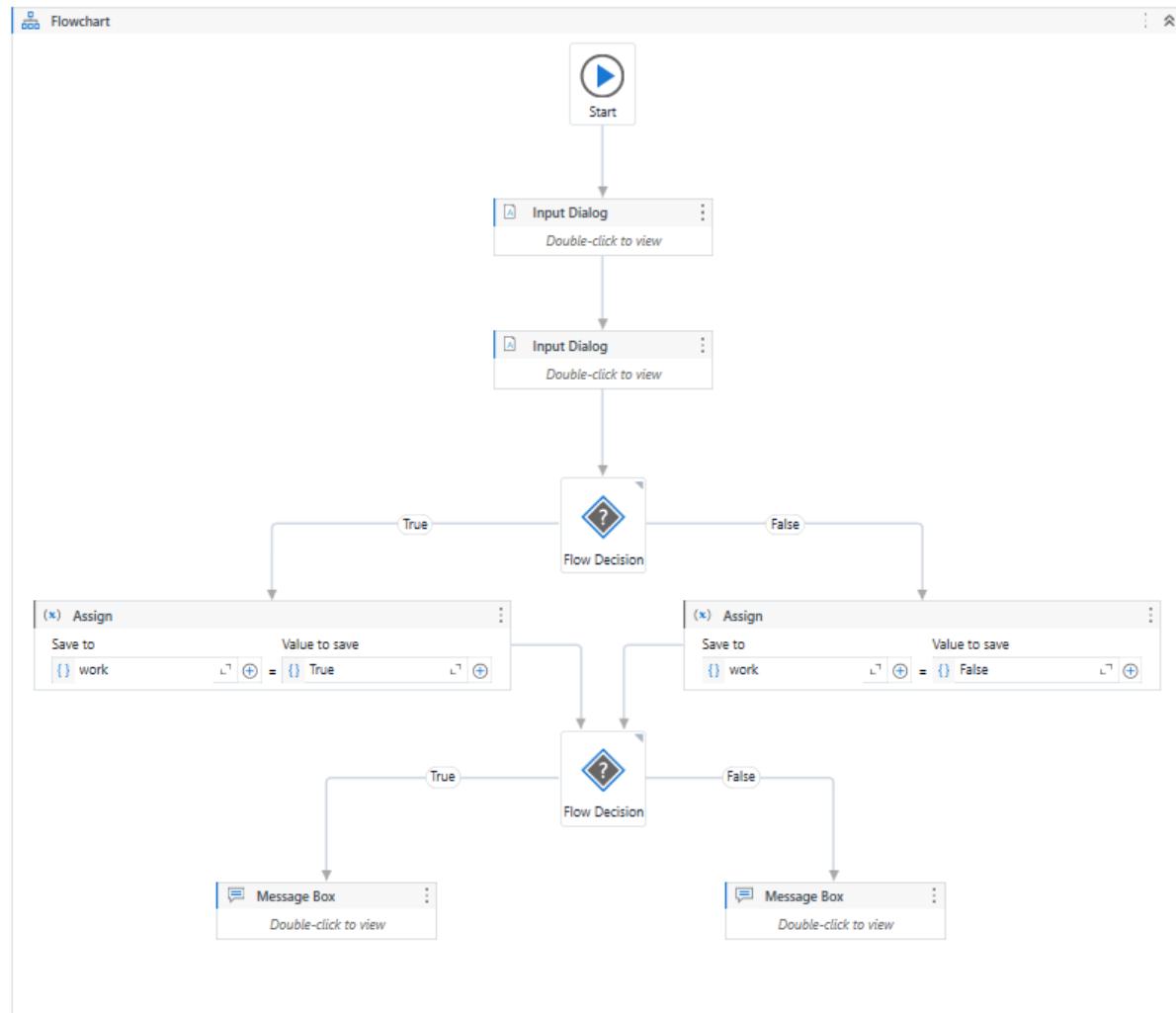
### Output:

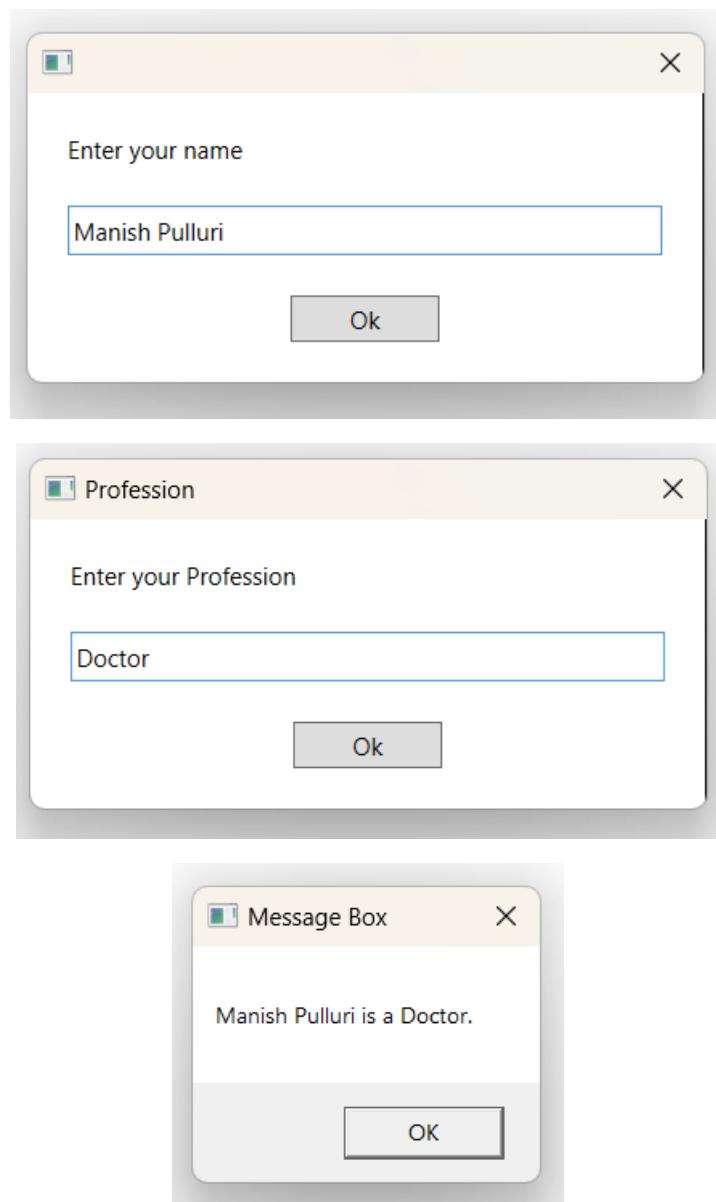




Design a bot to accept two strings: name and age, store it into array and write it into notepad file.

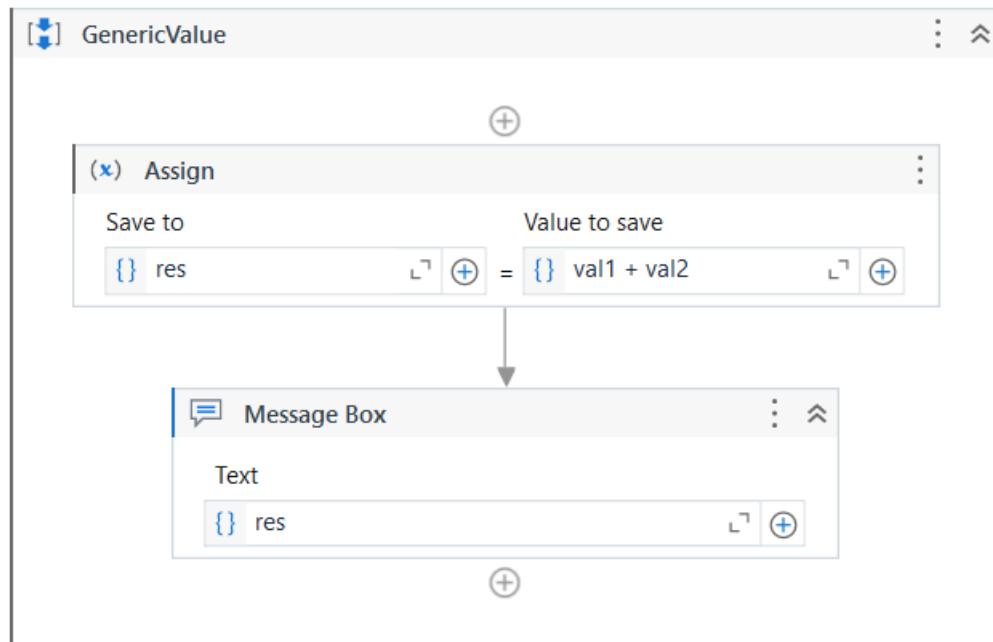
### Process:



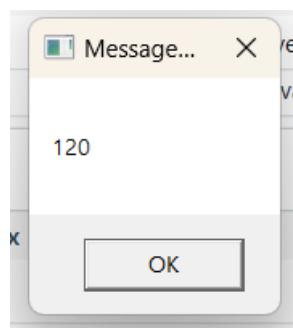
Output:

## ⊕ Demonstrate generic value variables

Process:



Output:

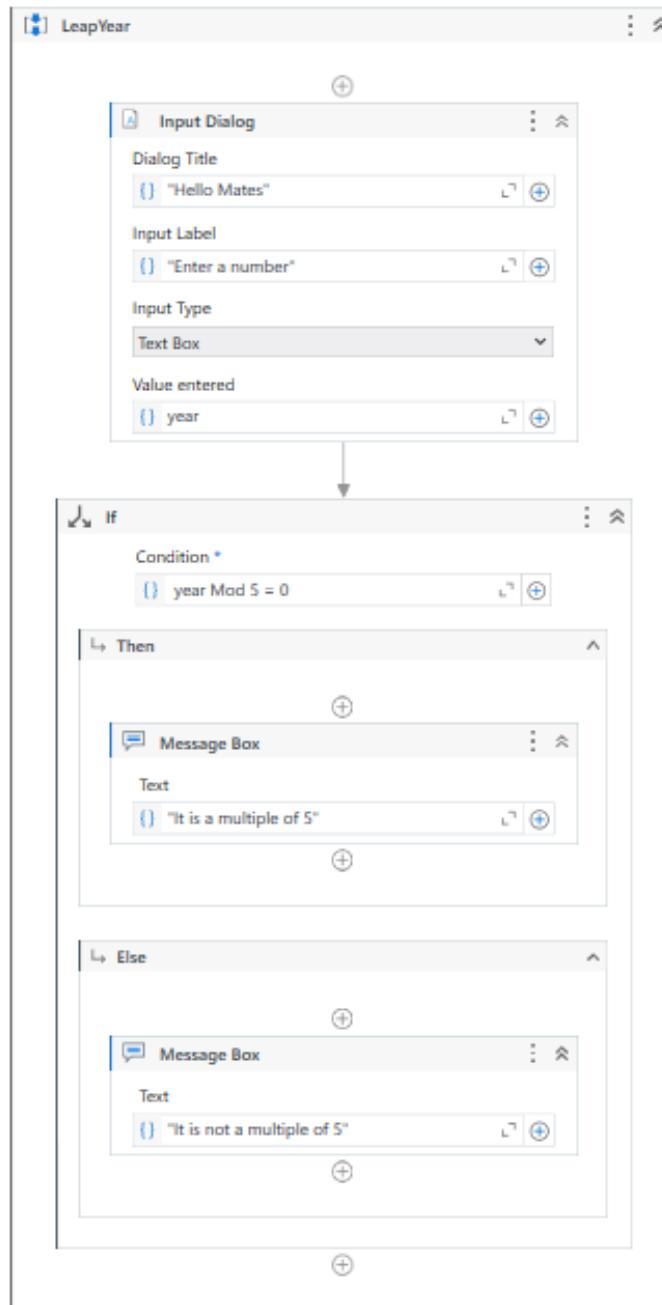


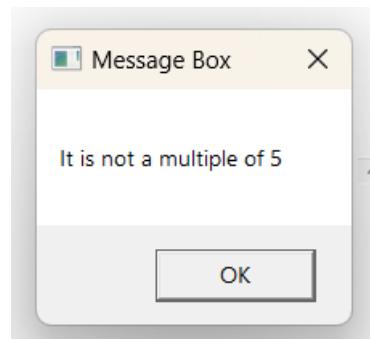
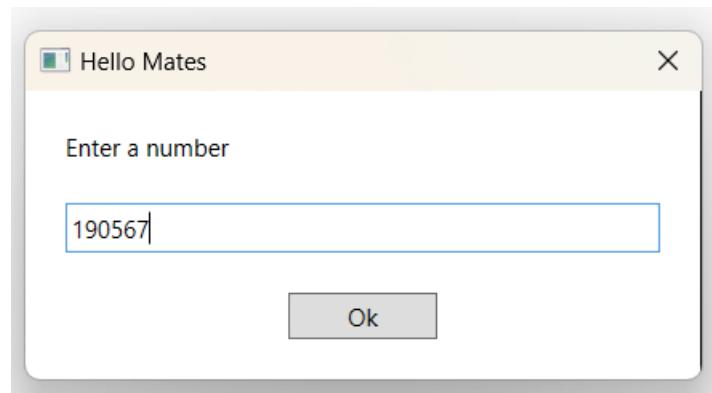
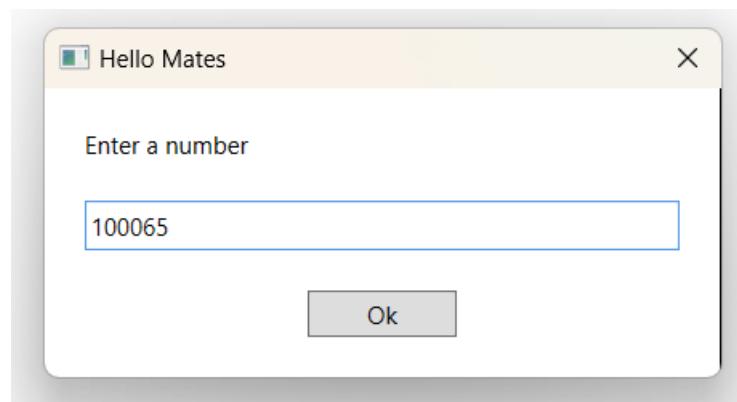
## CATEGORY 3

### UIPath:

✍ Write a bot to check if number is a multiple of 5 or not.

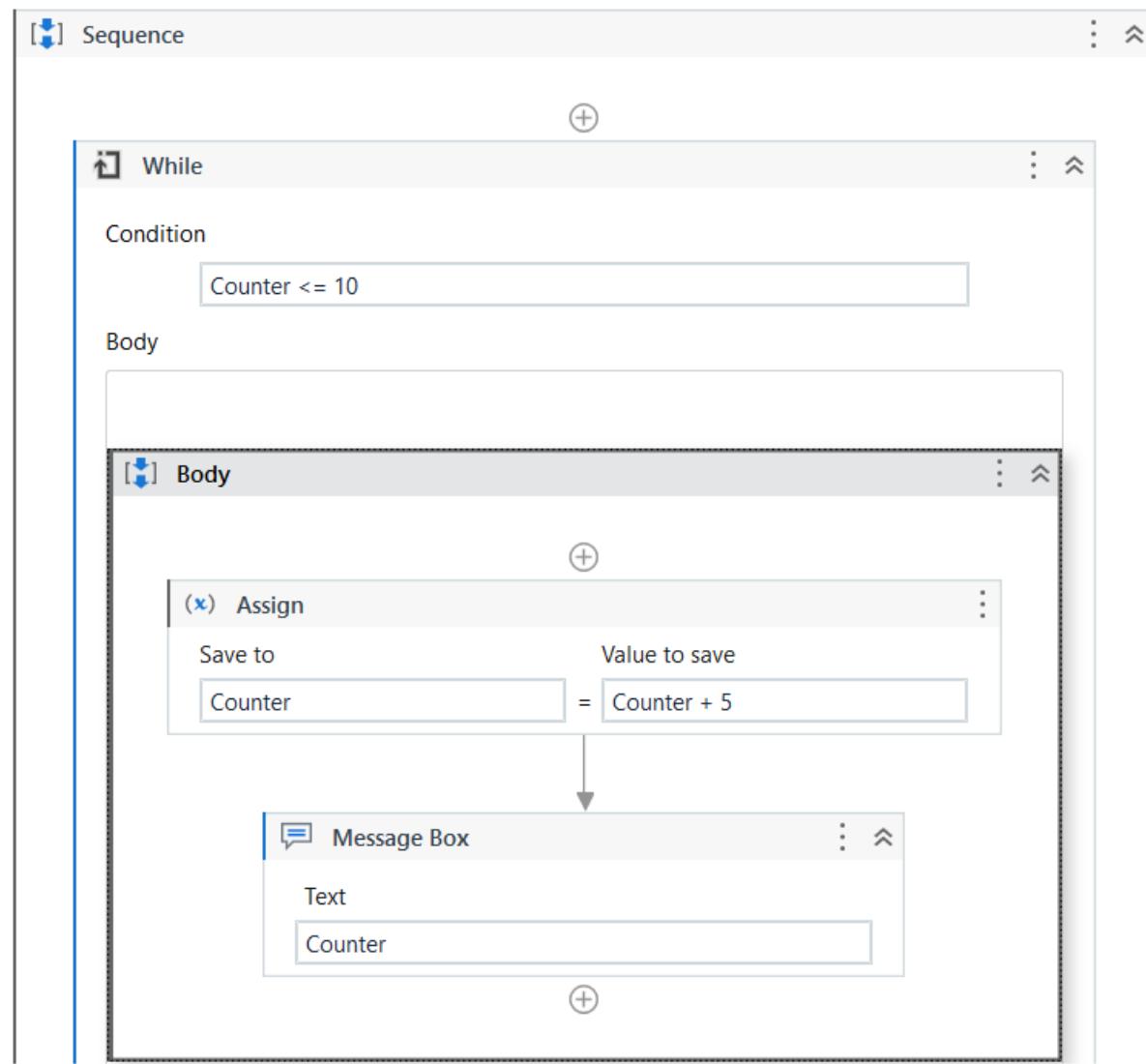
#### Process:

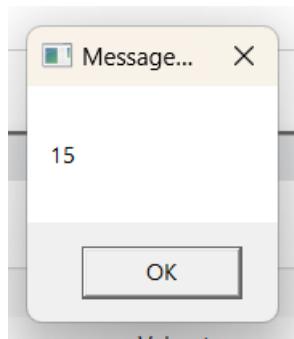
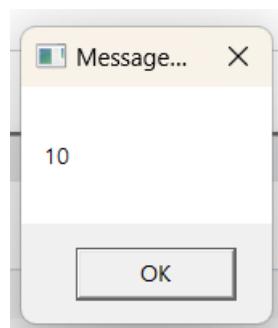


Output:

## ⊕ Demonstrate while loop

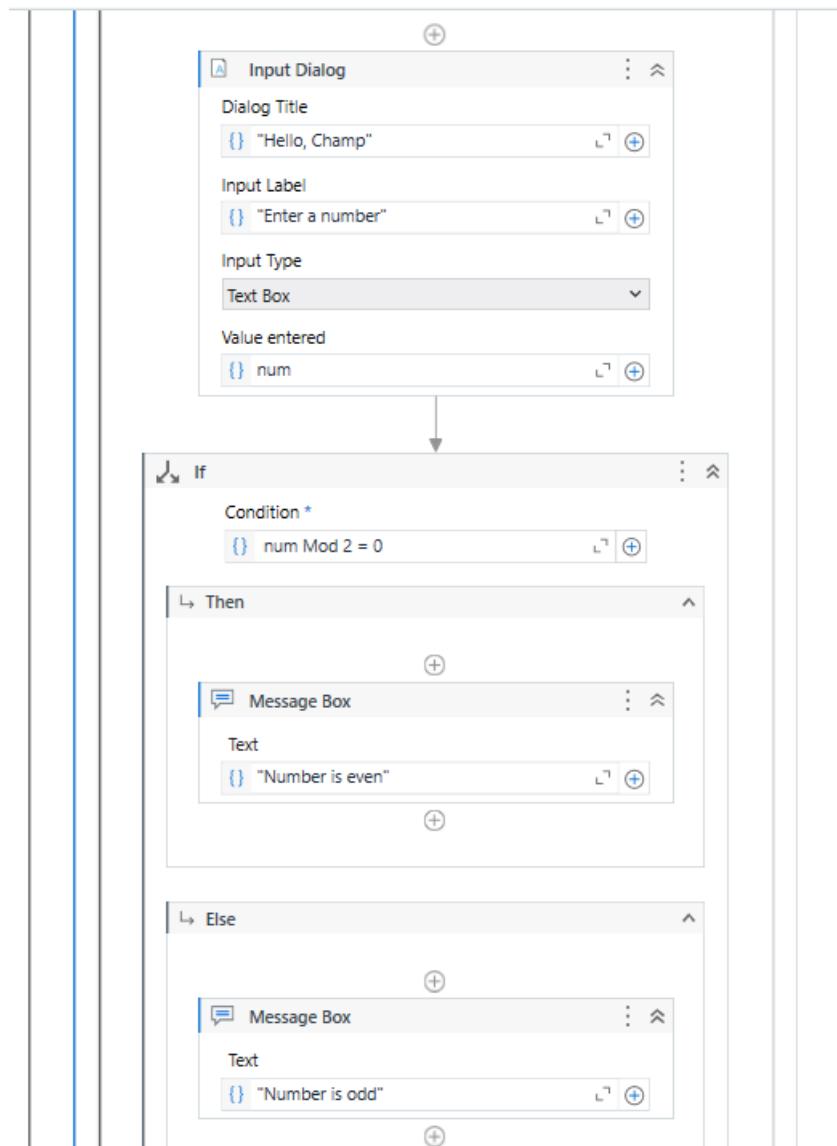
Process:

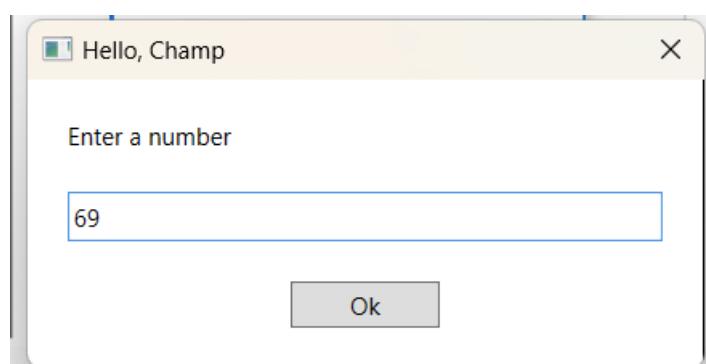
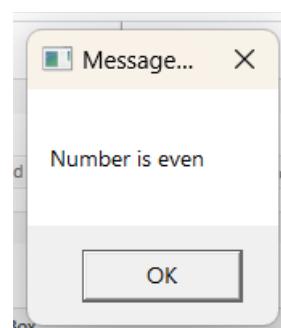
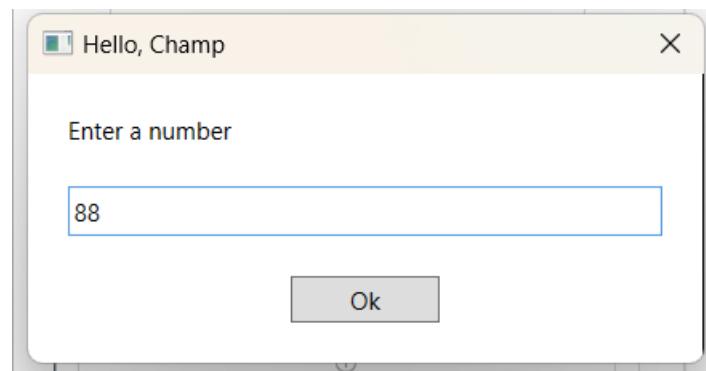


Output:

## ⊕ Demonstrate do while loop

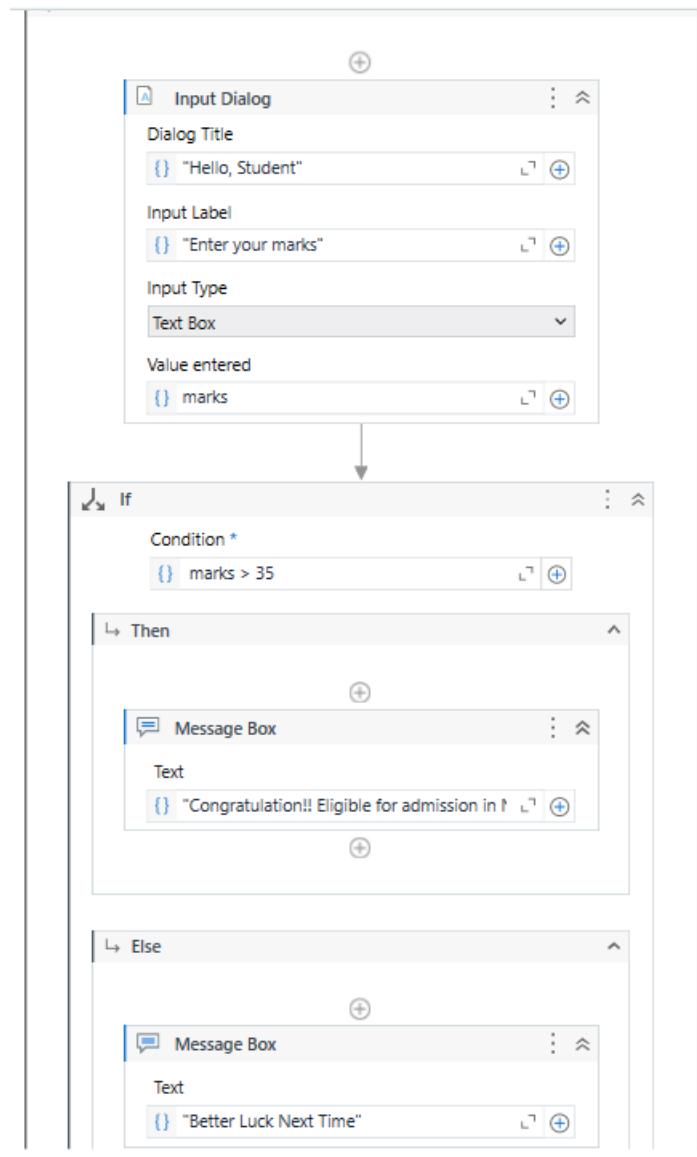
Process:

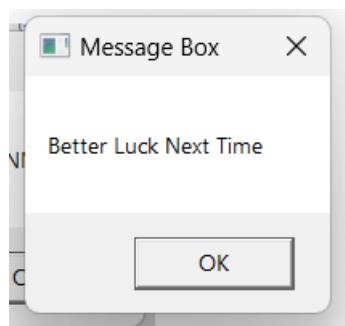
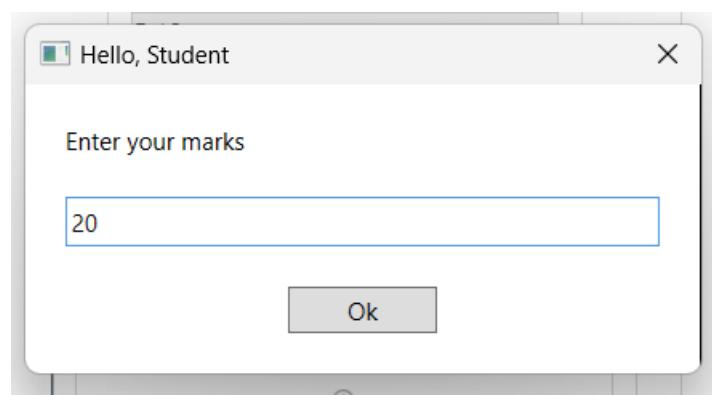
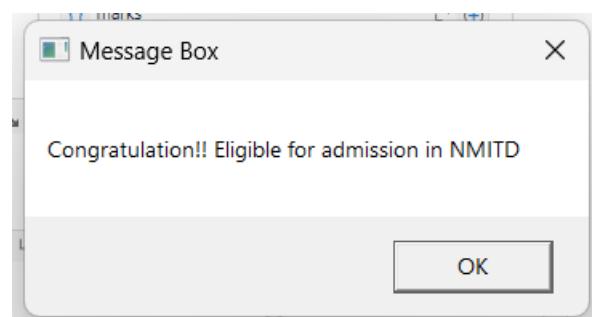
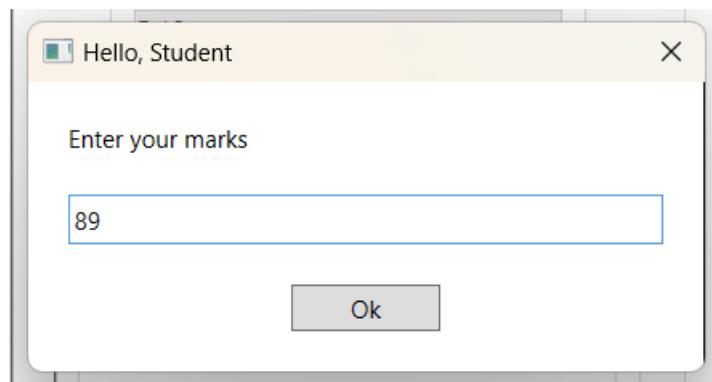


Output:

## ⊕ Demonstrate else-if

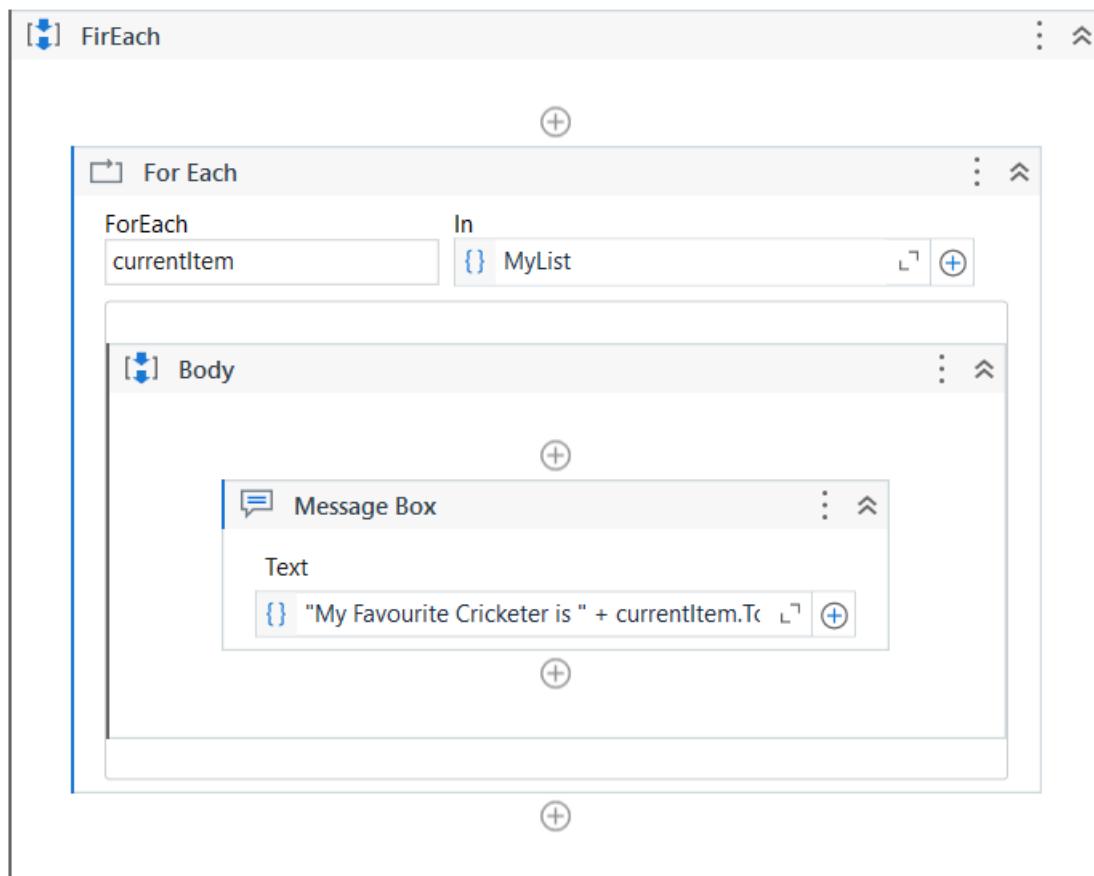
Process:



**Output:**

## ⊕ Demonstrate ForEach for list variable

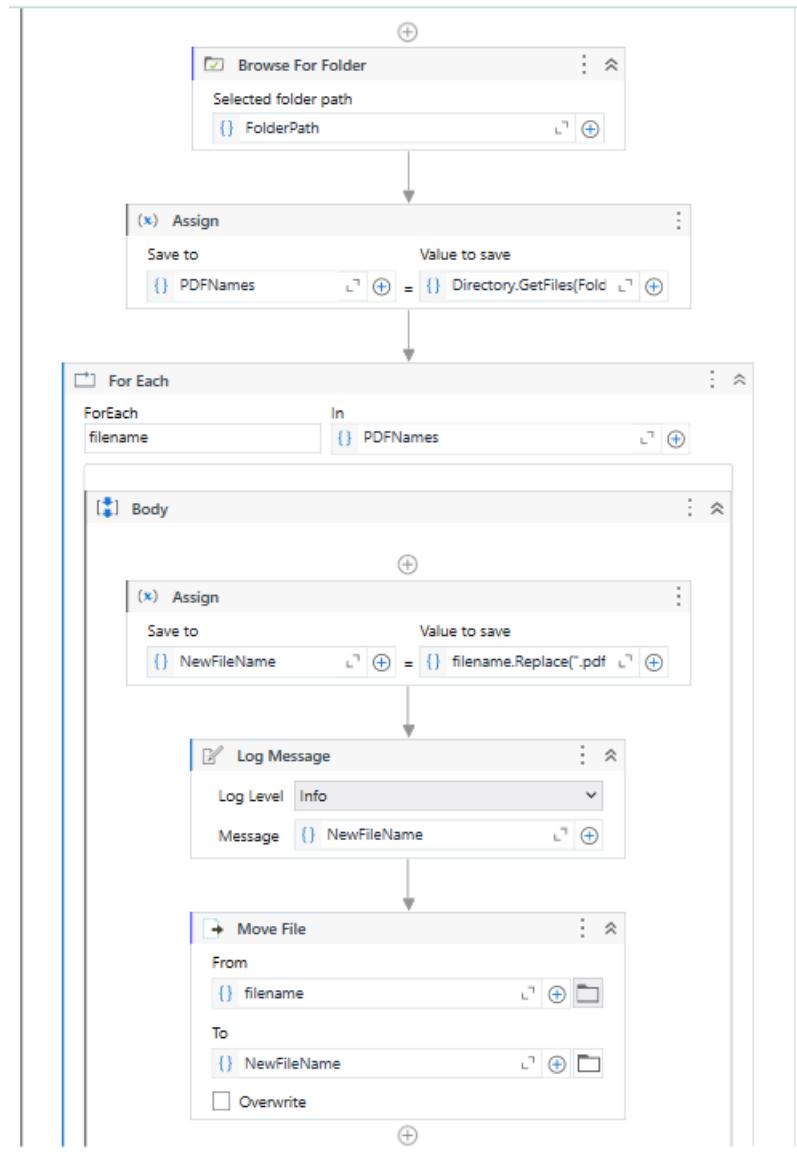
Process:



Output:

## ⊕ Demonstrate For-Each for files in a folder

Process:



**Output:**

Name

 C22102\_ManishPulluri\_NLP105\_19

 C22102\_ManishPulluri\_NLP205\_19

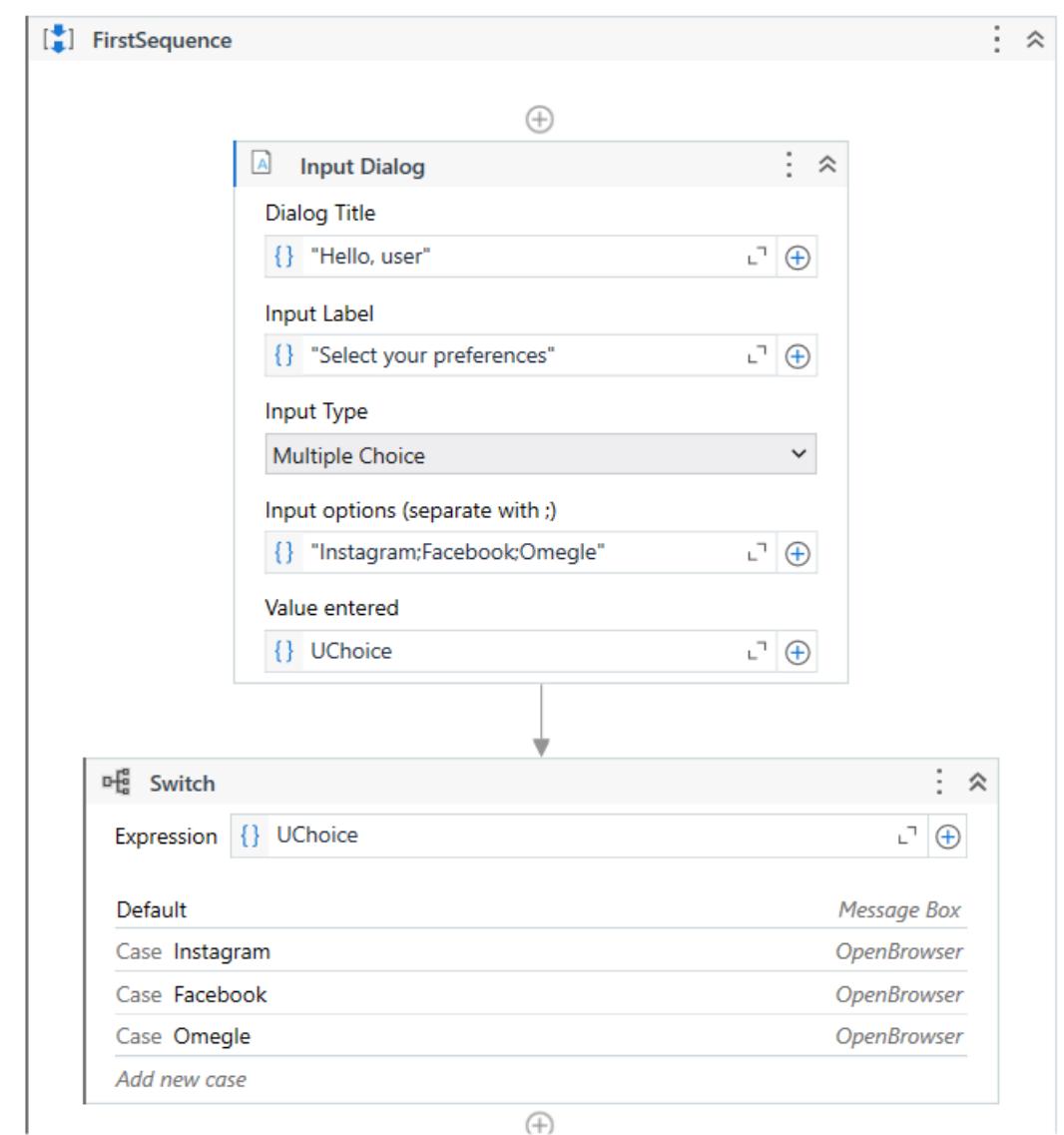
 C22102\_ManishPulluri\_NLP305\_19

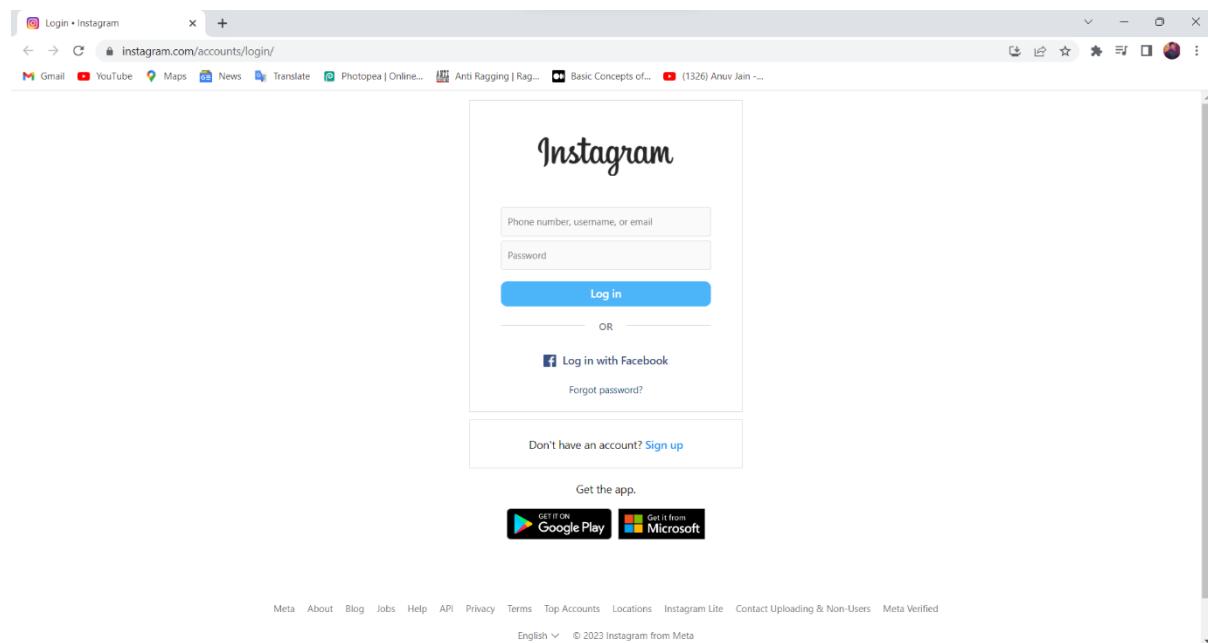
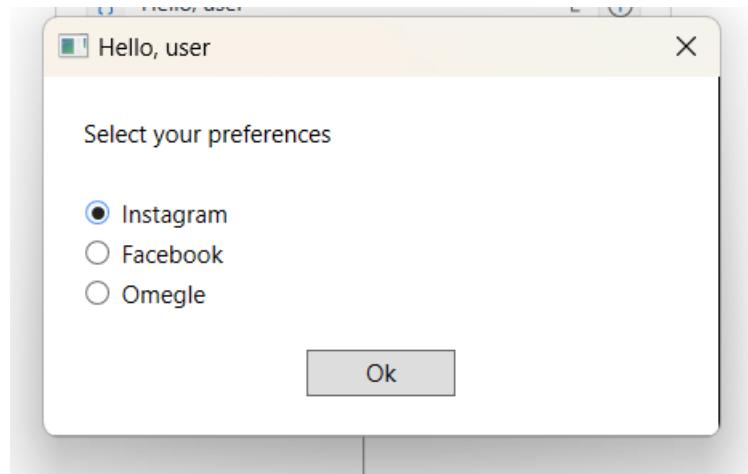
 C22102\_ManishPulluri\_NLP405\_19

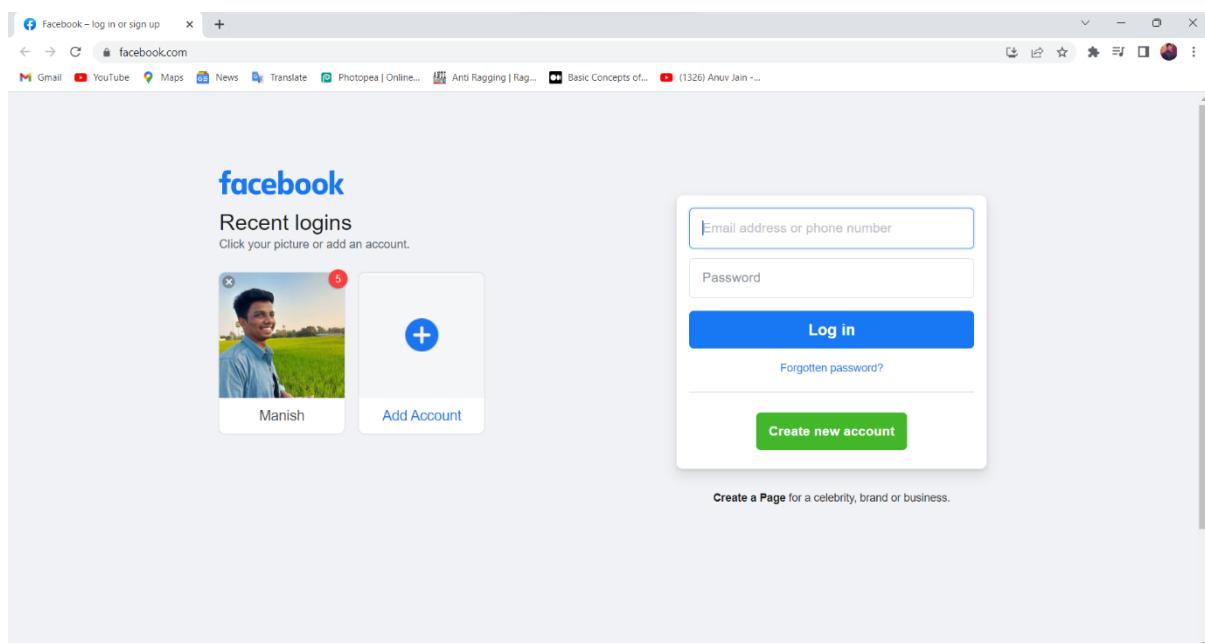
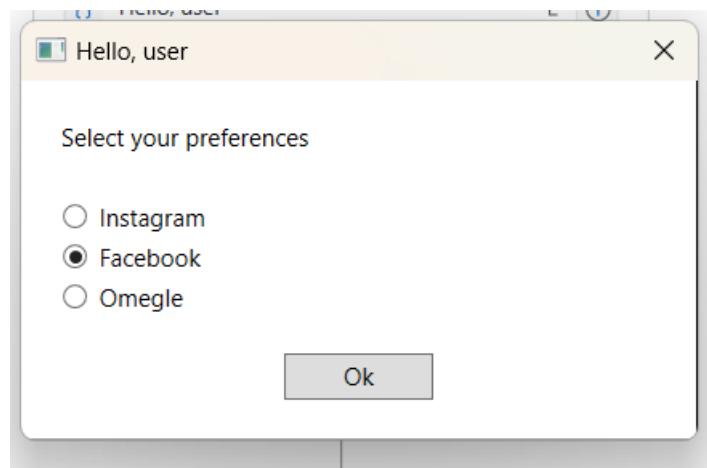
 C22102\_ManishPulluri05\_19

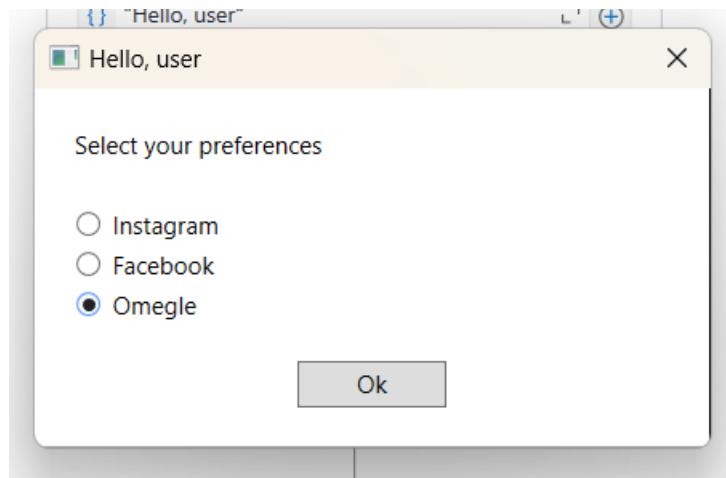
## ⊕ Demonstrate switch

Process:



Output:





Omegle: Talk to strangers! +

[omegle.com](http://omegle.com)

Gmail YouTube Maps News Translate Photoshop | Online... Anti Ragging | Rag... Basic Concepts of... (1326) Anuv Jain ~...

**Omegle** **Talk to strangers!** **33,000+ online now**

You don't need an app to use Omegle on your phone or tablet! The web site works great on mobile.

Omegle (*oh meg-ull*) is a great way to meet new friends. When you use Omegle, you are paired randomly with another person to talk one-on-one. If you prefer, you can add your interests and you'll be randomly paired with someone who selected some of the same interests.

To help you stay safe, chats are anonymous unless you tell someone who you are (not recommended), and you can stop a chat at any time. See our [Terms of Service](#) and [Community Guidelines](#) for more info about the do's and don'ts in using Omegle. Omegle video chat is moderated but no moderation is perfect. Users are solely responsible for their behavior while using Omegle.

**YOU MUST BE 18 OR OLDER TO USE OMEGLE.** See Omegle's [Terms of Service](#) for more info. Parental control protections that may assist parents are commercially available and you can find more info at <https://www.connectsafely.org/controls/> as well as other sites.

**Video is monitored. Keep it clean!**

Leave Omegle and visit an [adult site](#) instead if that's what you're looking for, and you are 18 or older.

What do you wanna talk about? Start chatting:

Add your interests (optional)

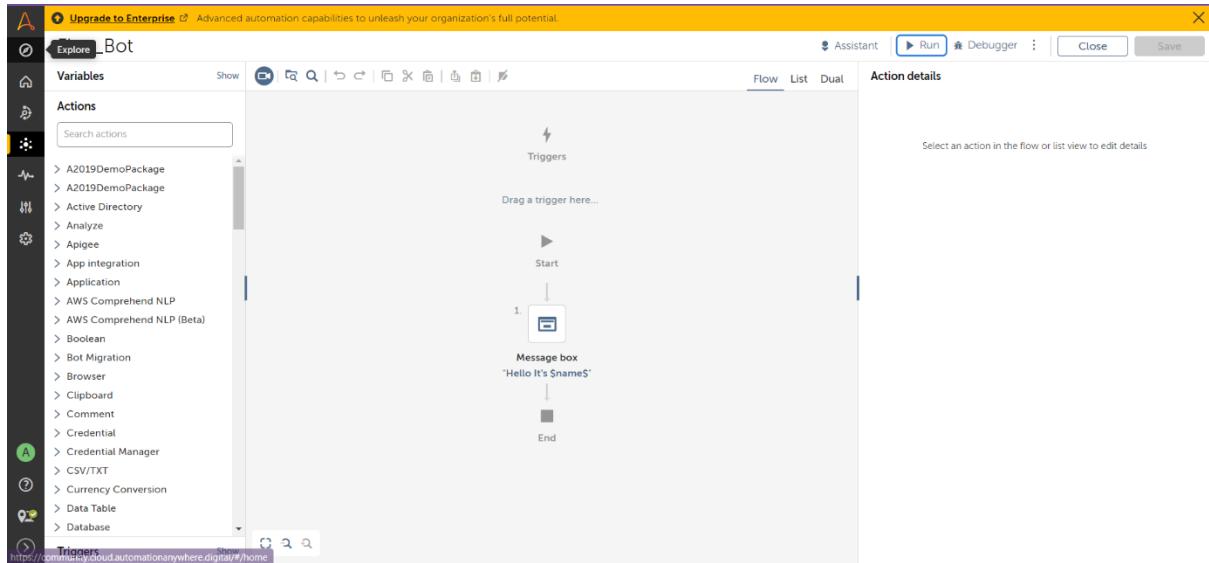
Text or Video

## CATEGORY 1:

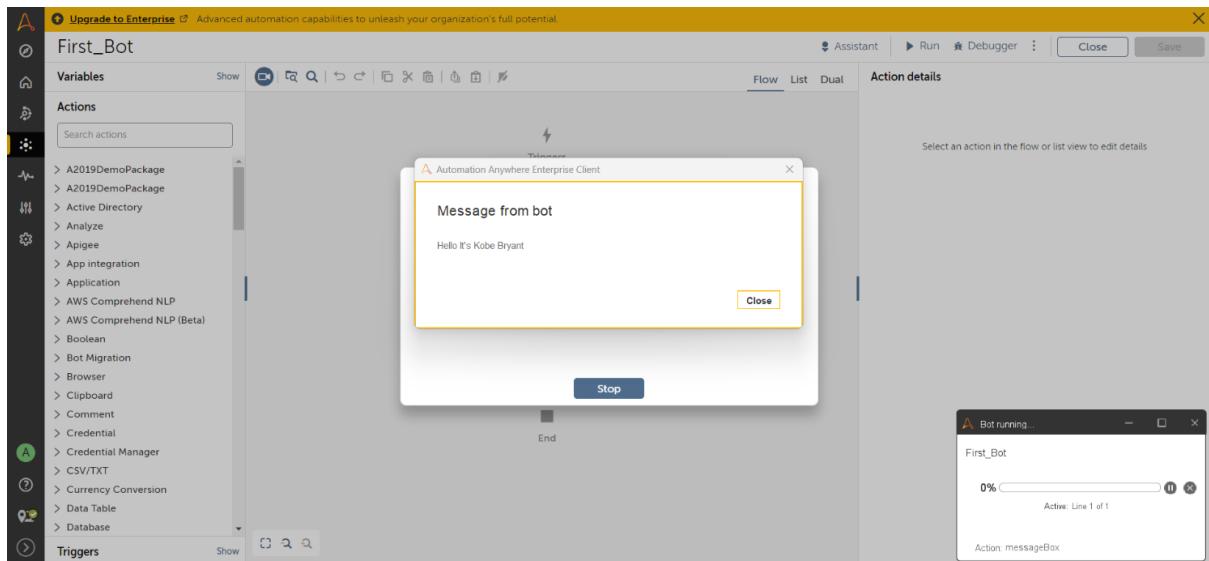
AA:

### Demonstrate Message Box

#### Process:

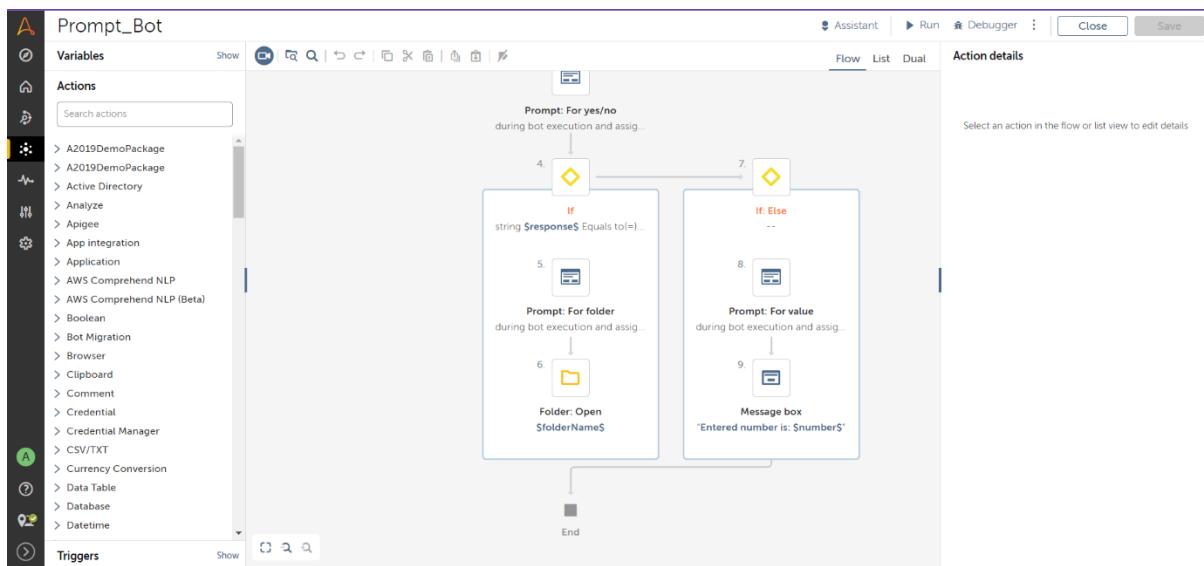
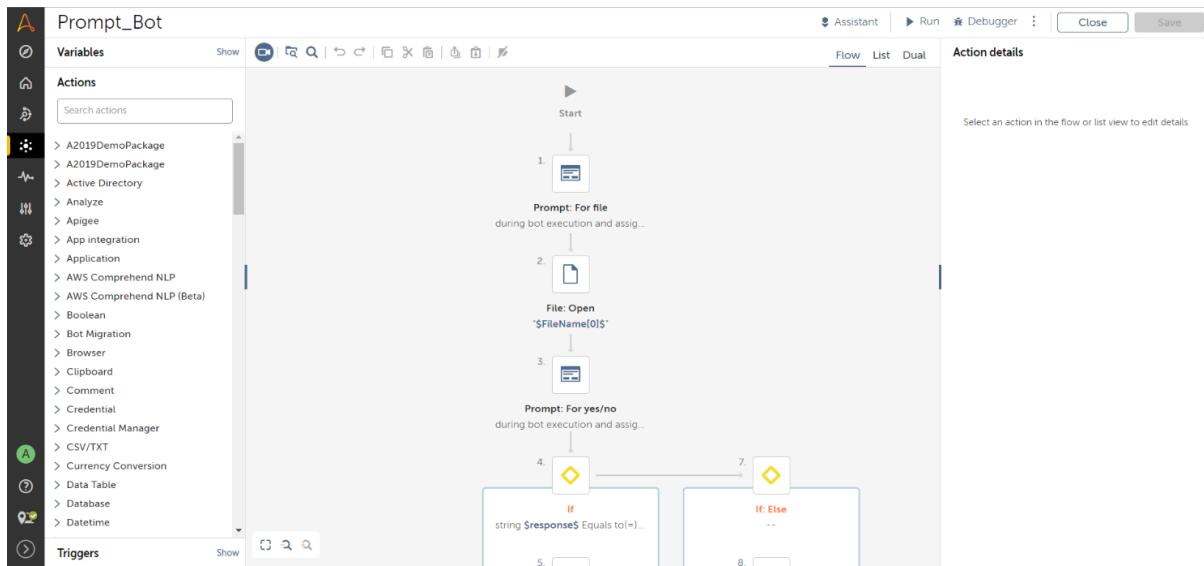


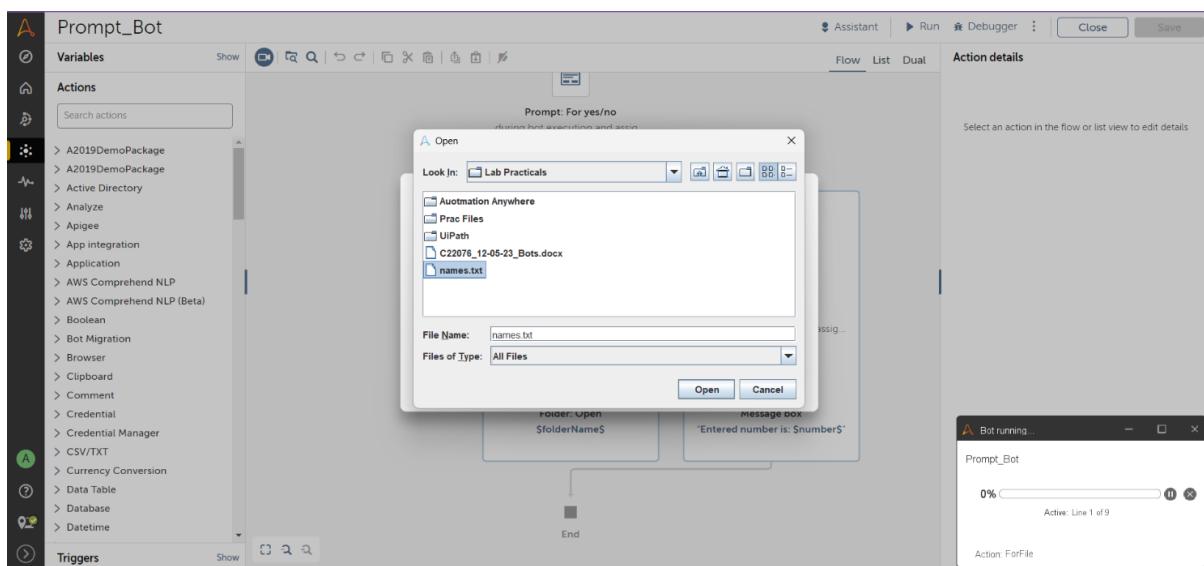
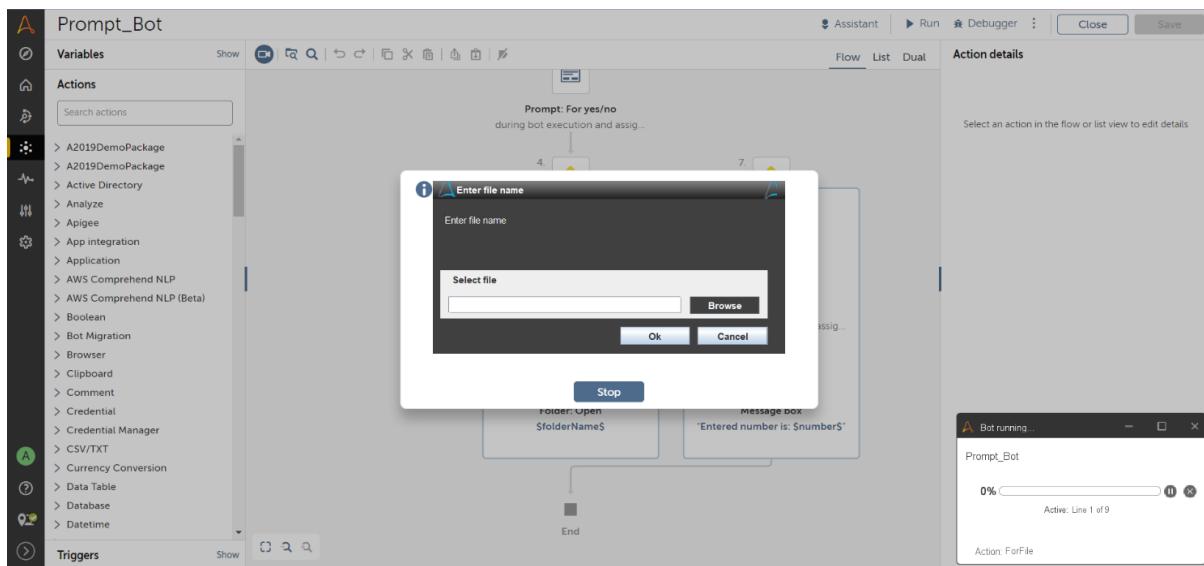
#### Output:

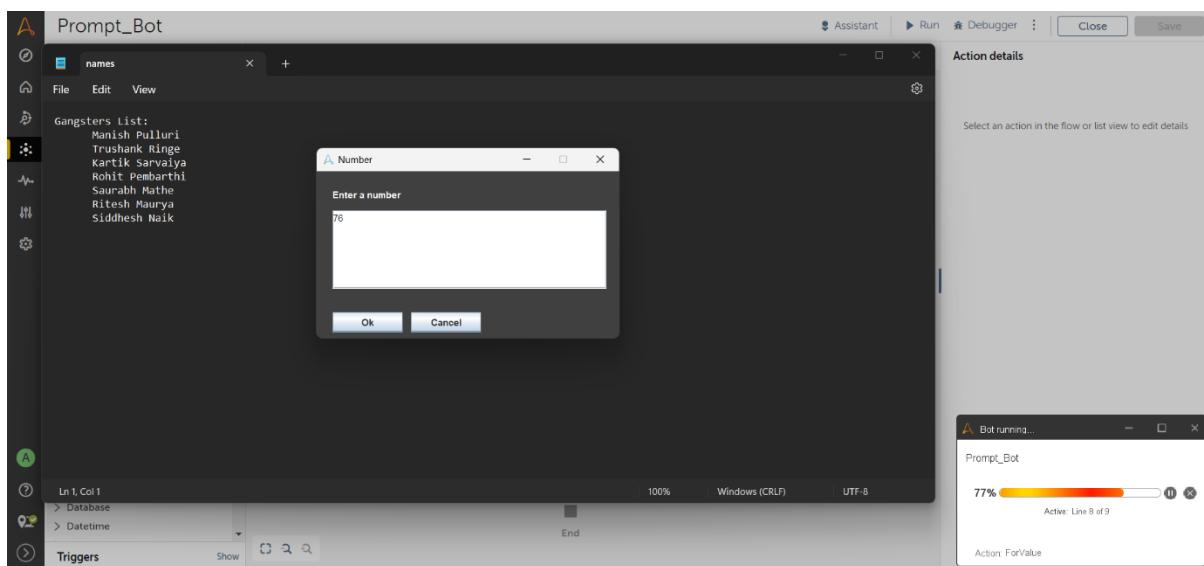
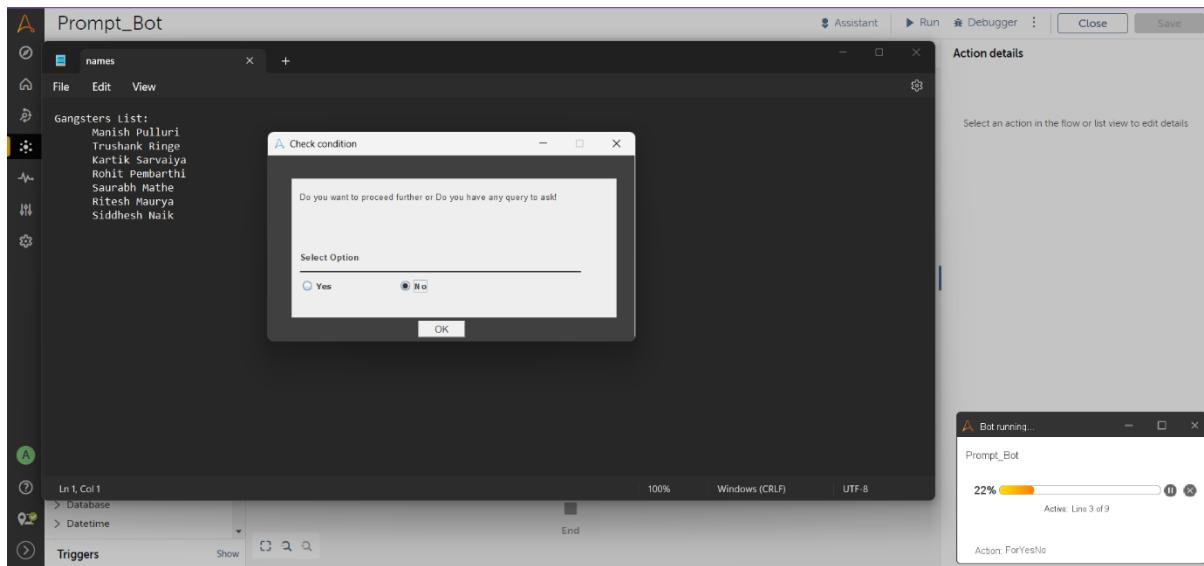


## Demonstrate Prompts

### Process:



Output:



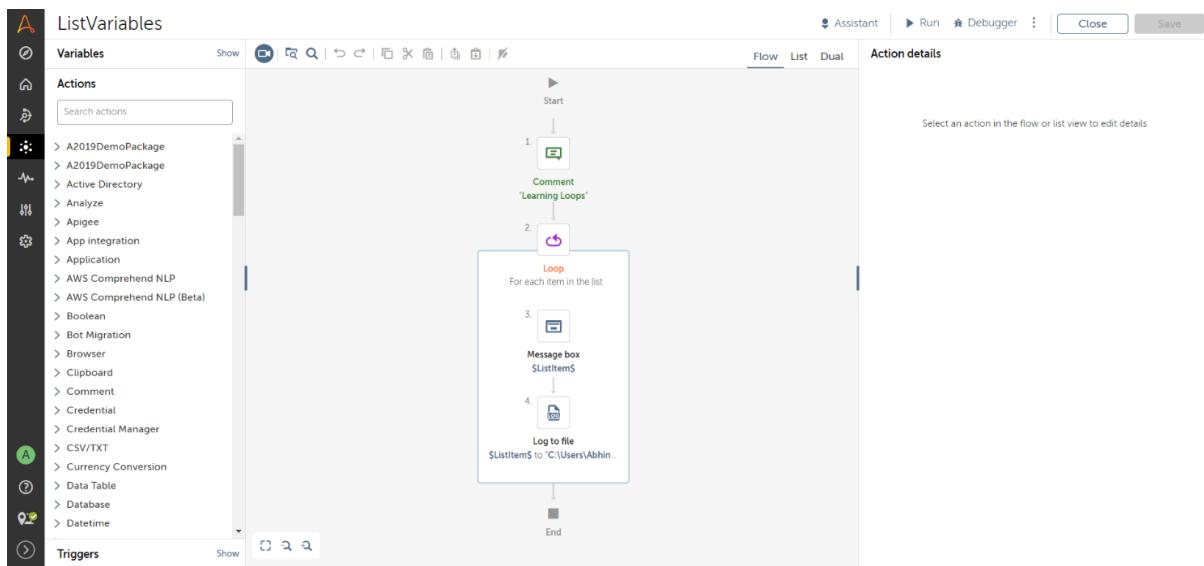
The image consists of three vertically stacked screenshots of the Automation Anywhere RPA Studio interface, all titled "Prompt\_Bot".

- Screenshot 1:** Shows a "Check condition" dialog box asking "Do you want to proceed further or Do you have any query to ask?". It has two radio buttons: "Yes" (selected) and "No". Below the buttons are "OK" and "Cancel" buttons.
- Screenshot 2:** Shows a "File Explorer" dialog box asking "Select a folder to open". It contains a "Select folder" input field with "C:\Users\Abhinav\Music" and "Browse" and "Ok" buttons.
- Screenshot 3:** Shows a "File Explorer" dialog box displaying a list of files and folders. One folder, "Music", is highlighted. Other visible items include "Desktop", "Downloads", "Documents", "Pictures", "Videos", and "Prac Files".

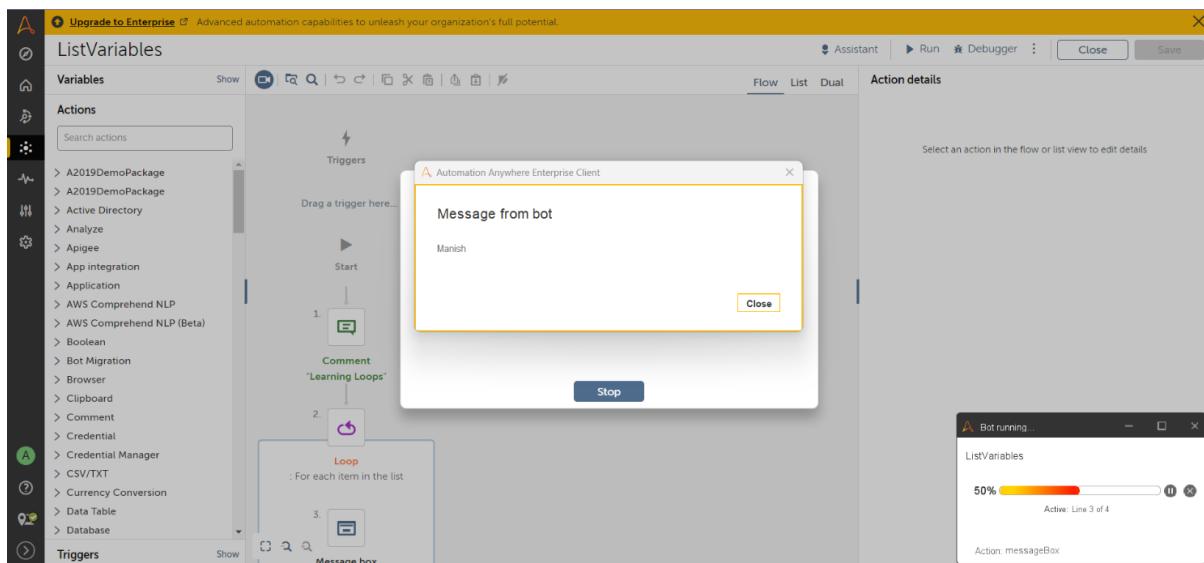
Each screenshot includes a status bar at the bottom with "Ln 1, Col 1", "Triggers", "Show", and search icons. On the right side of each screenshot, there is an "Action details" panel and a "Bot running..." window showing progress (e.g., 22%, 44%) and active lines (e.g., Line 3 of 9, Line 5 of 9). The main workspace shows a list of "Gangsters List" with names like Manish Pulluri, Trushank Ringe, Kartik Sarvaiya, Rohit Pembarthi, Saurabh Mathe, Ritesh Maurya, and Siddhesh Naik.

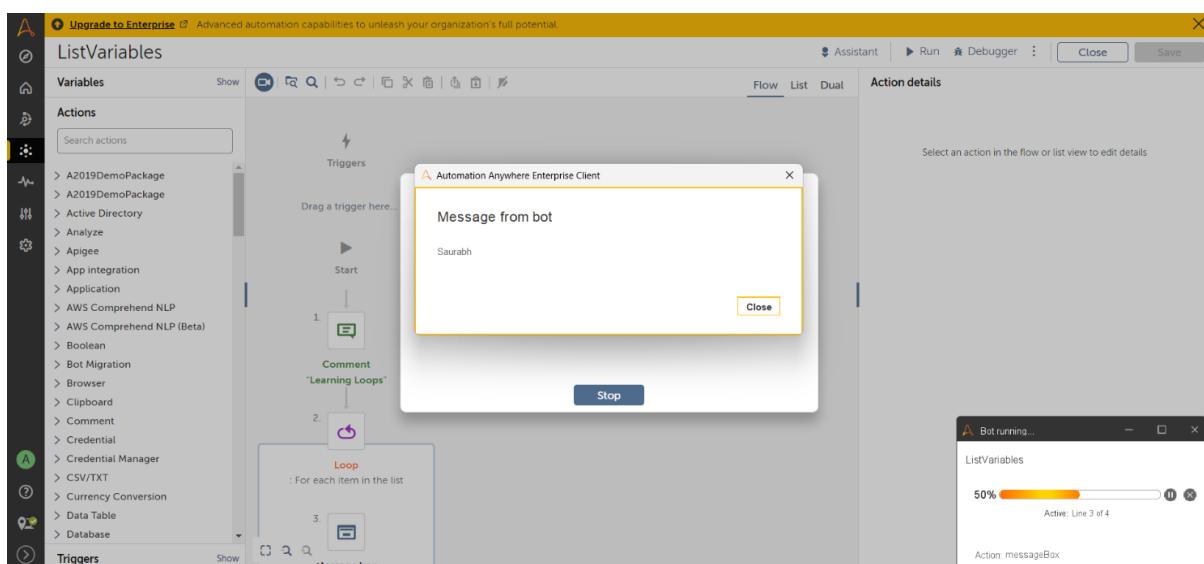
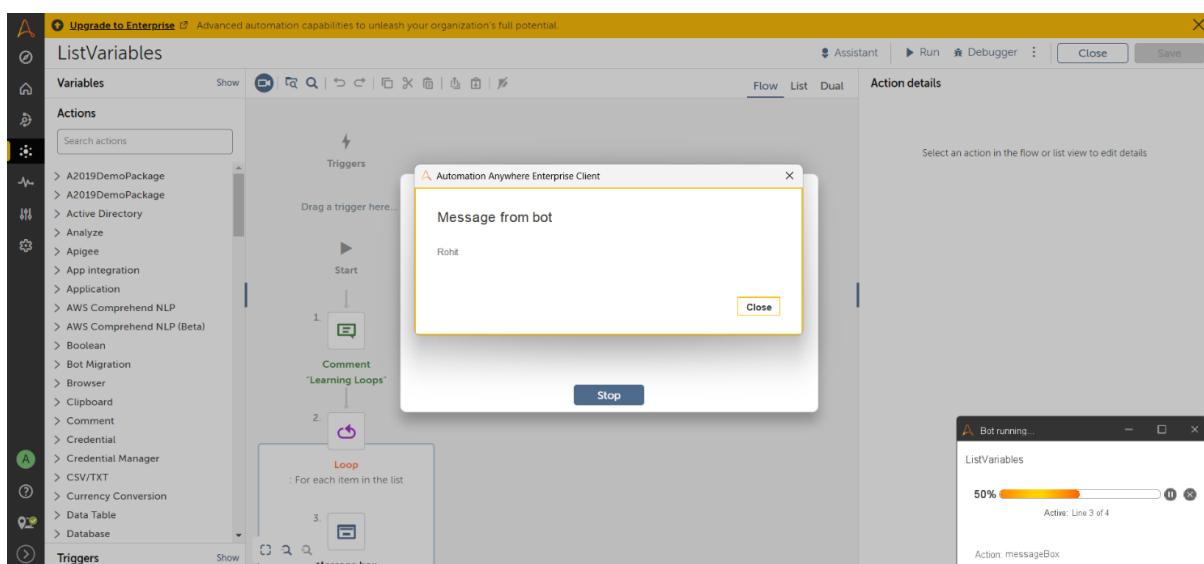
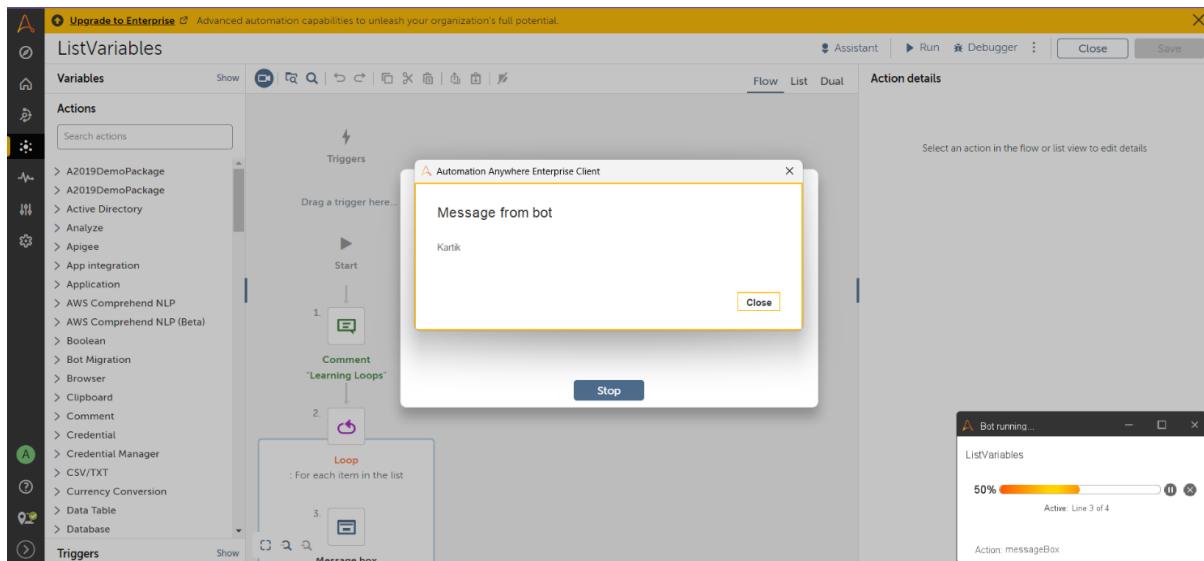
 Demonstrate list variables

## Process:



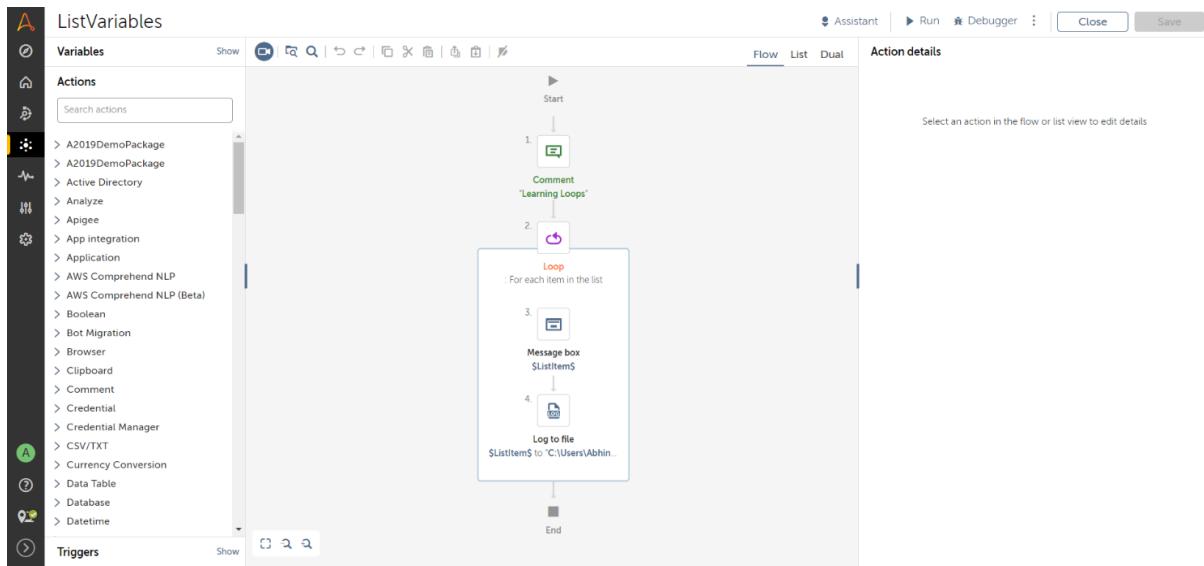
## Output:



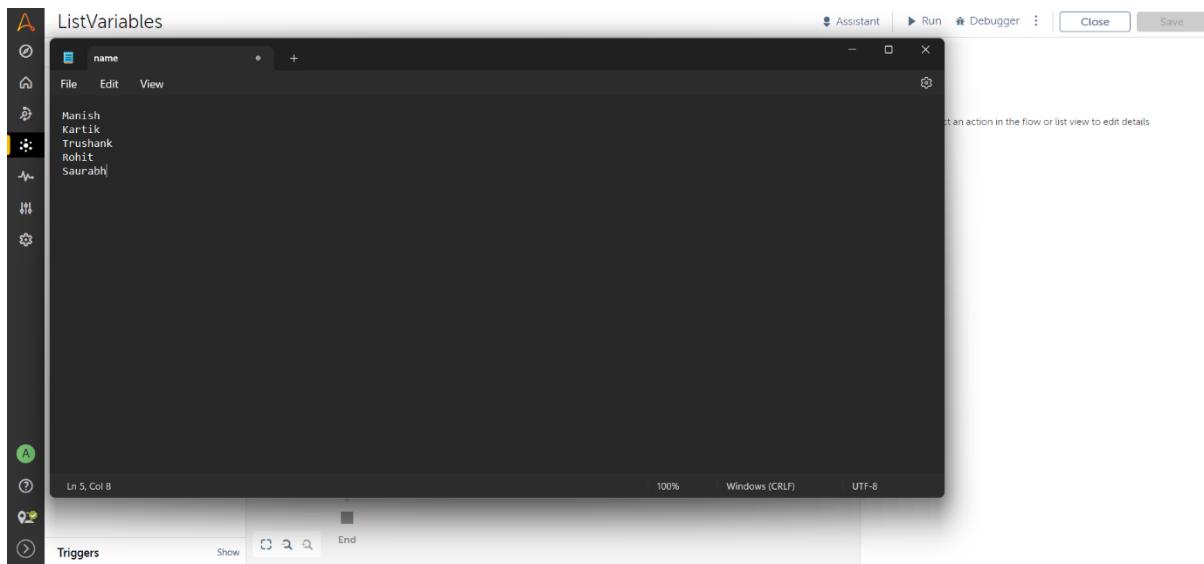


## + Demonstrate logfile

### Process:

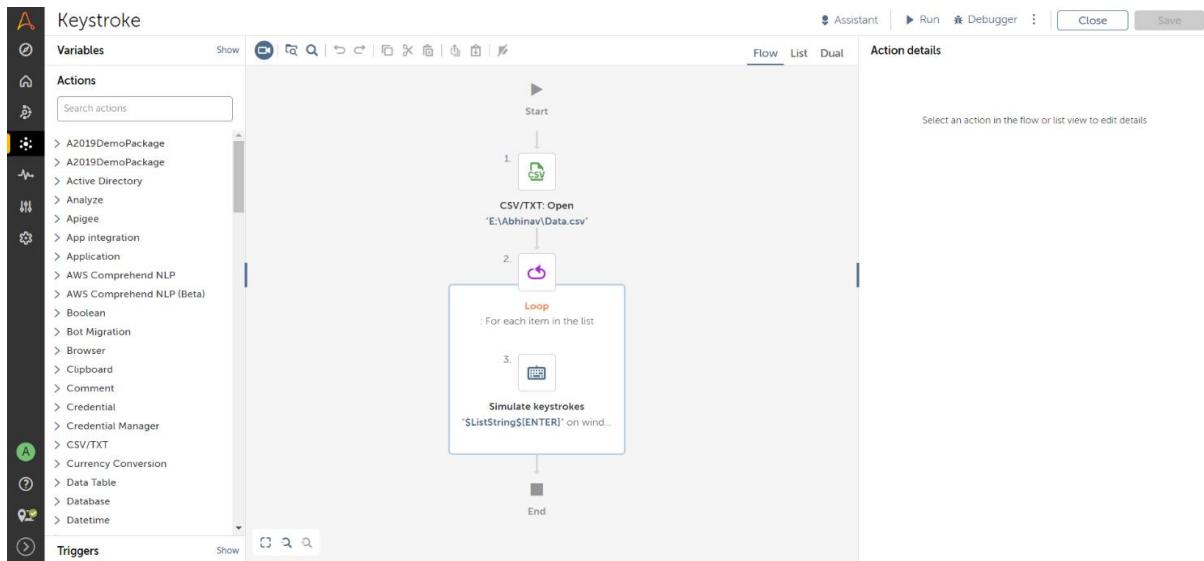


### Output:

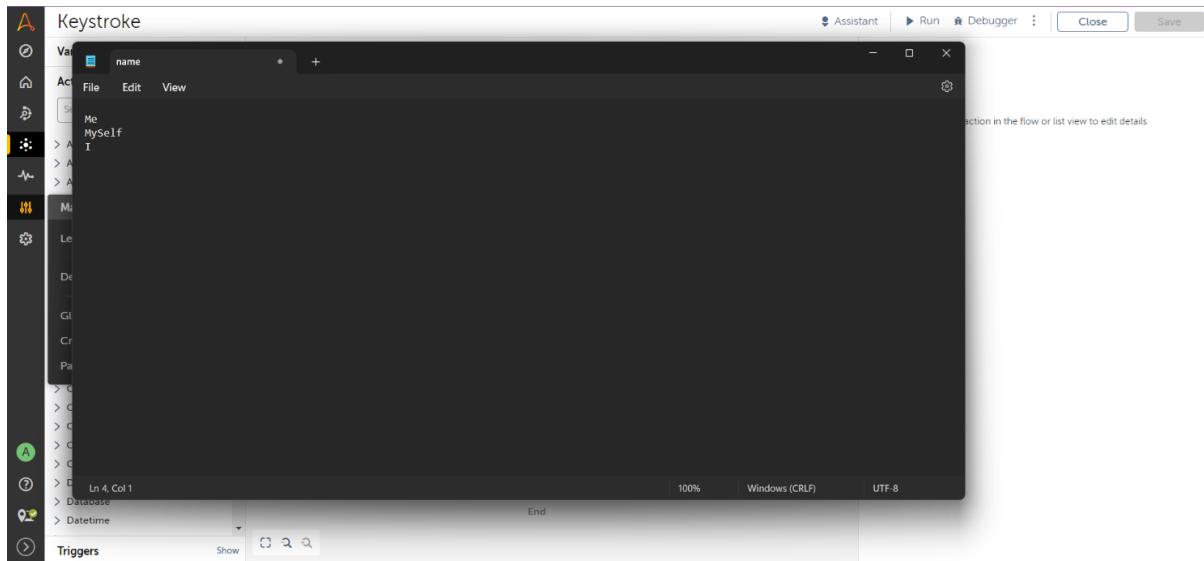


## Demonstrate keystroke

### Process:



### Output:

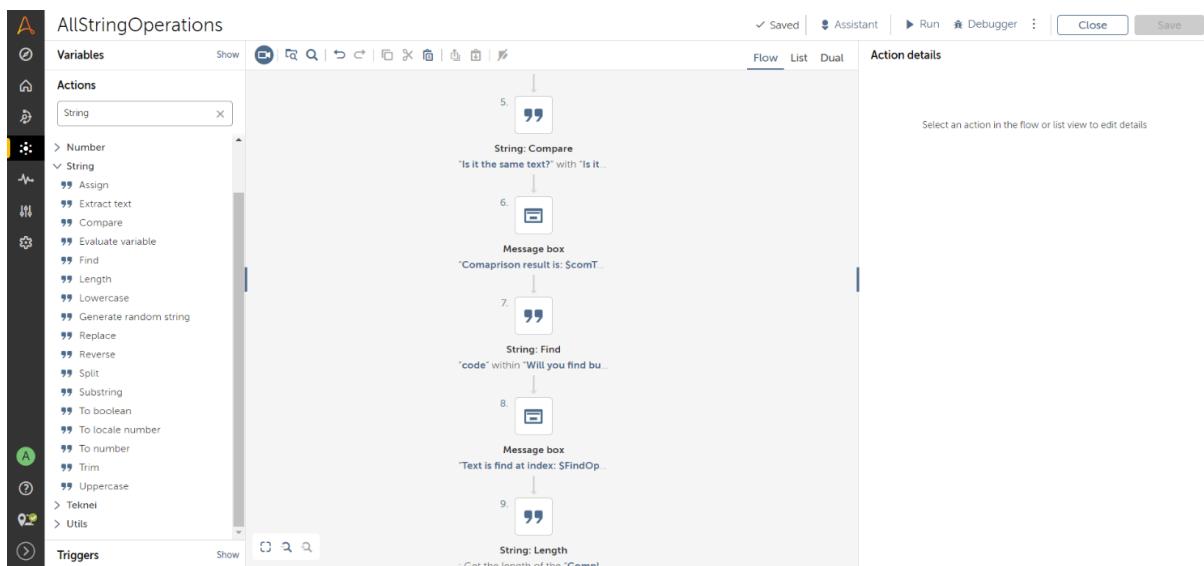
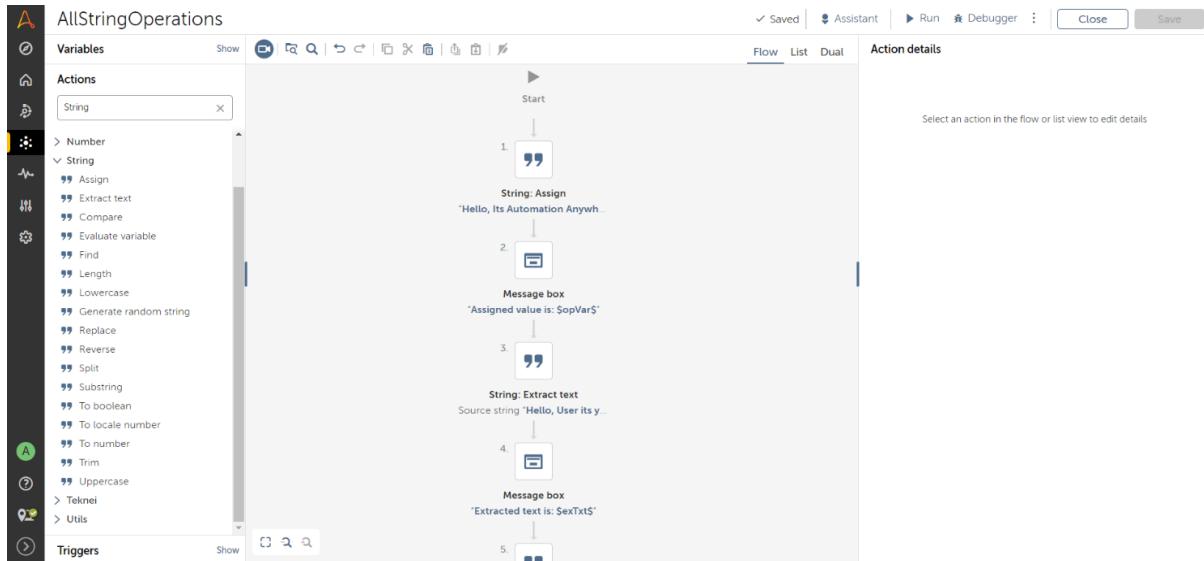


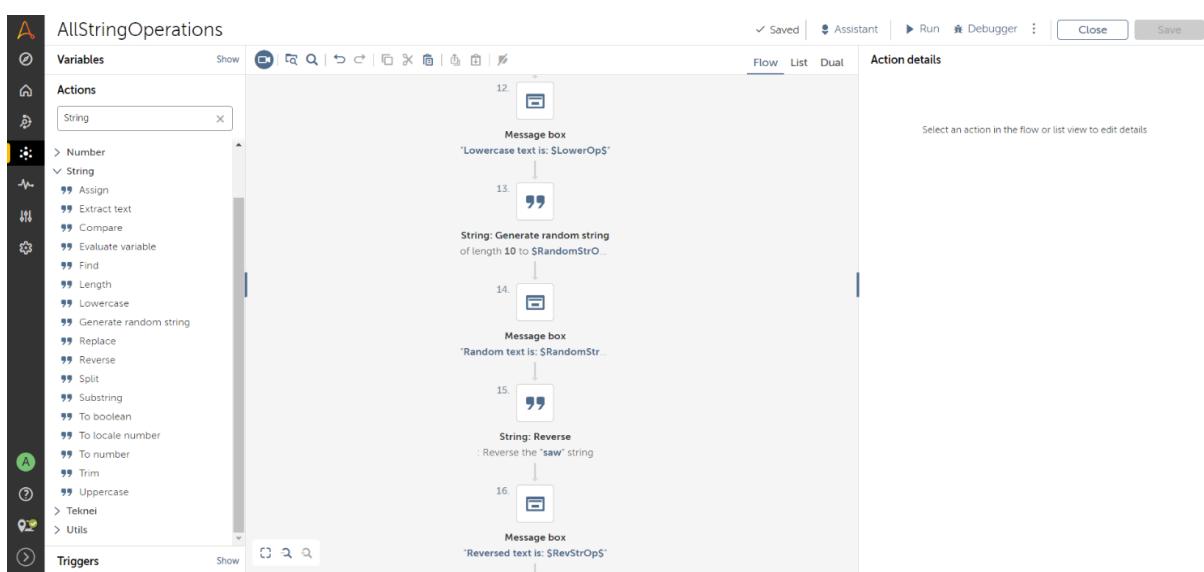
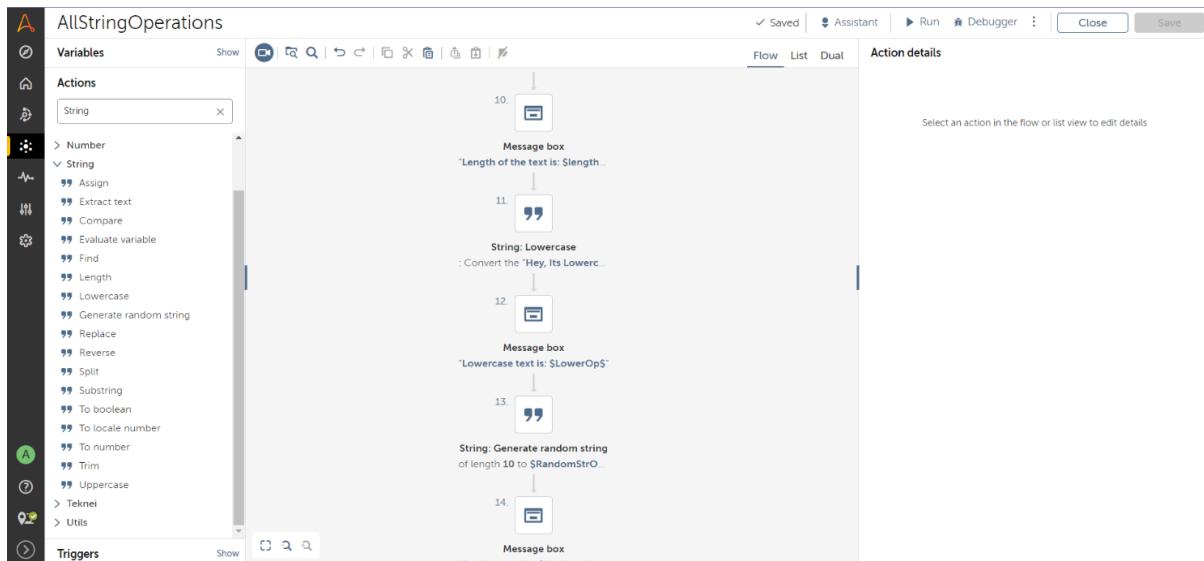
## CATEGORY 2:

AA:

### Bot to demonstrate string functions

Process:





## Output:

The screenshot displays three separate runs of an RPA flow named "AllStringOperations". Each run shows a message box output.

**Run 1 Output:**

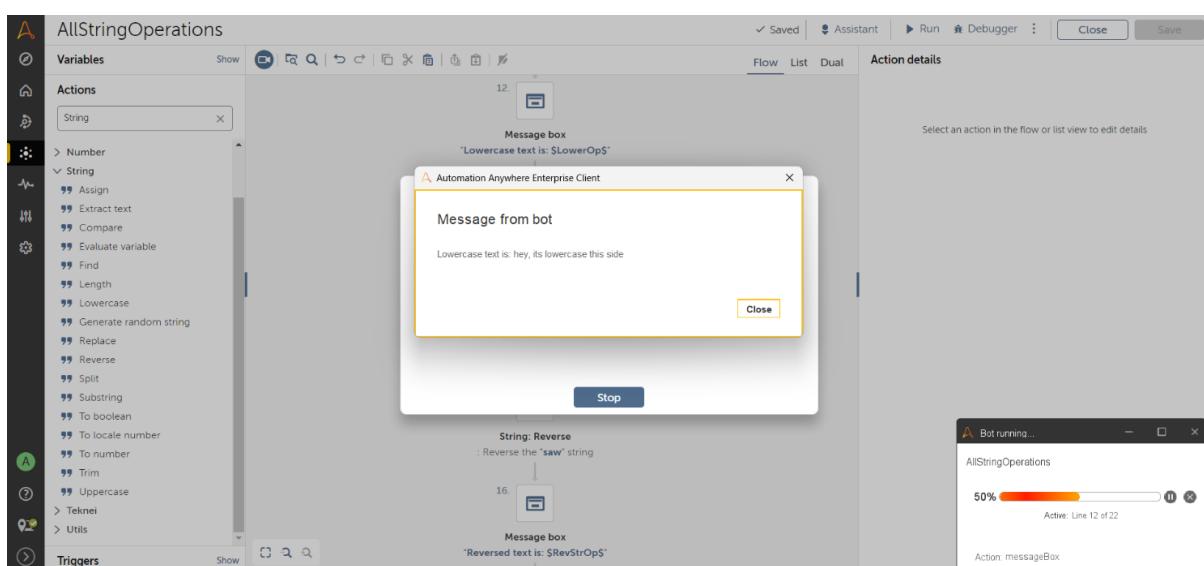
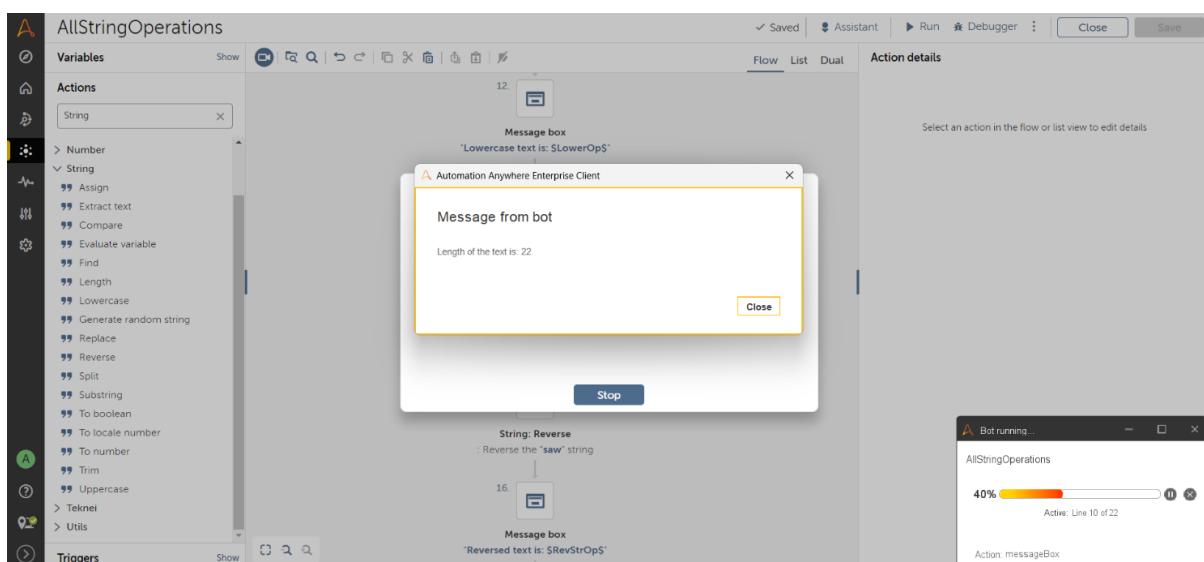
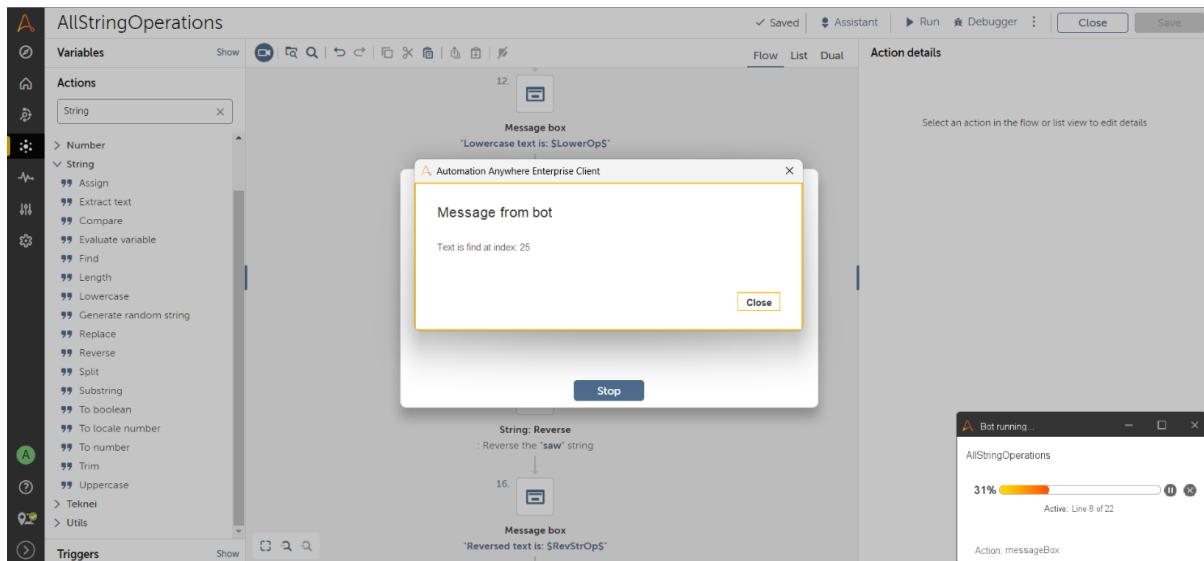
- Action 12: Message box - "Lowercase text is: \$LowerOp\$"
- Action 16: Message box - "Reversed text is: \$RevStrOp\$"
- Bot running progress: 4% (Active: Line 2 of 22)
- Action: messageBox

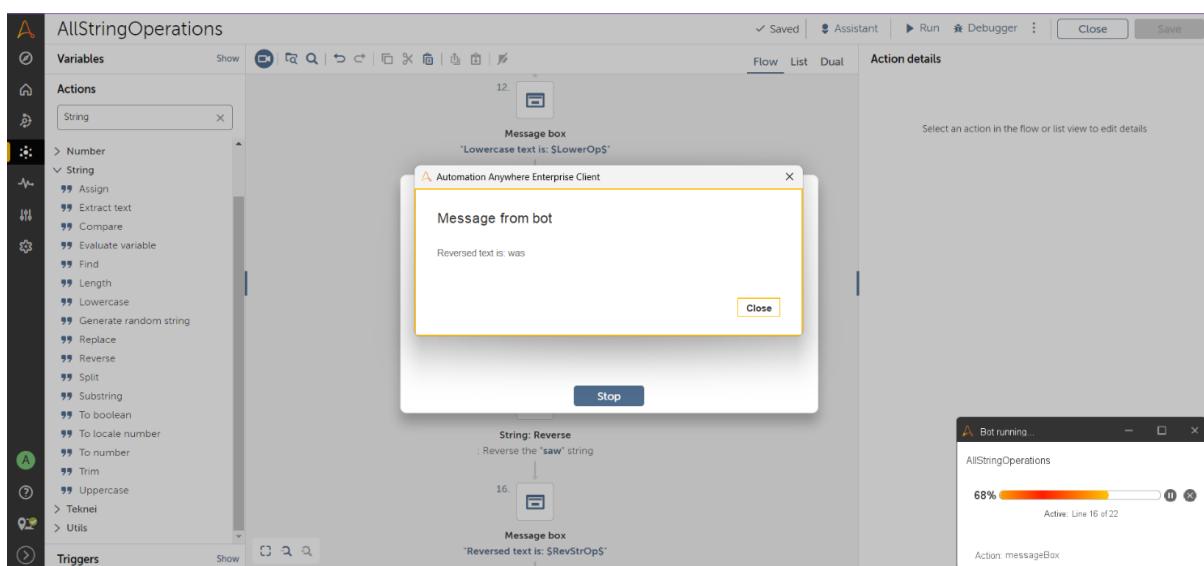
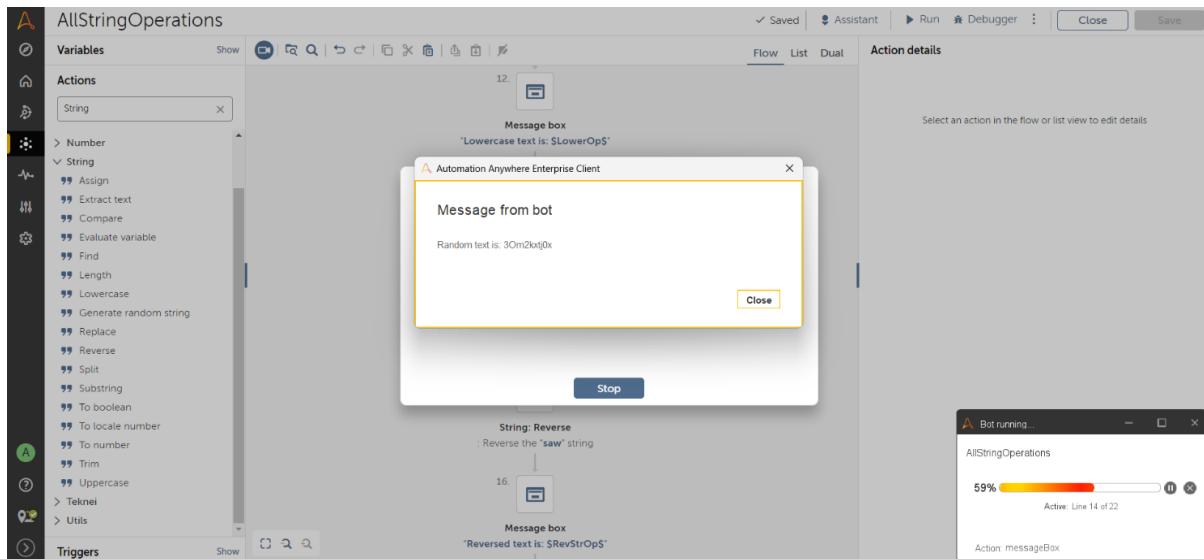
**Run 2 Output:**

- Action 12: Message box - "Lowercase text is: \$LowerOp\$"
- Action 16: Message box - "Reversed text is: \$RevStrOp\$"
- Bot running progress: 13% (Active: Line 4 of 22)
- Action: messageBox

**Run 3 Output:**

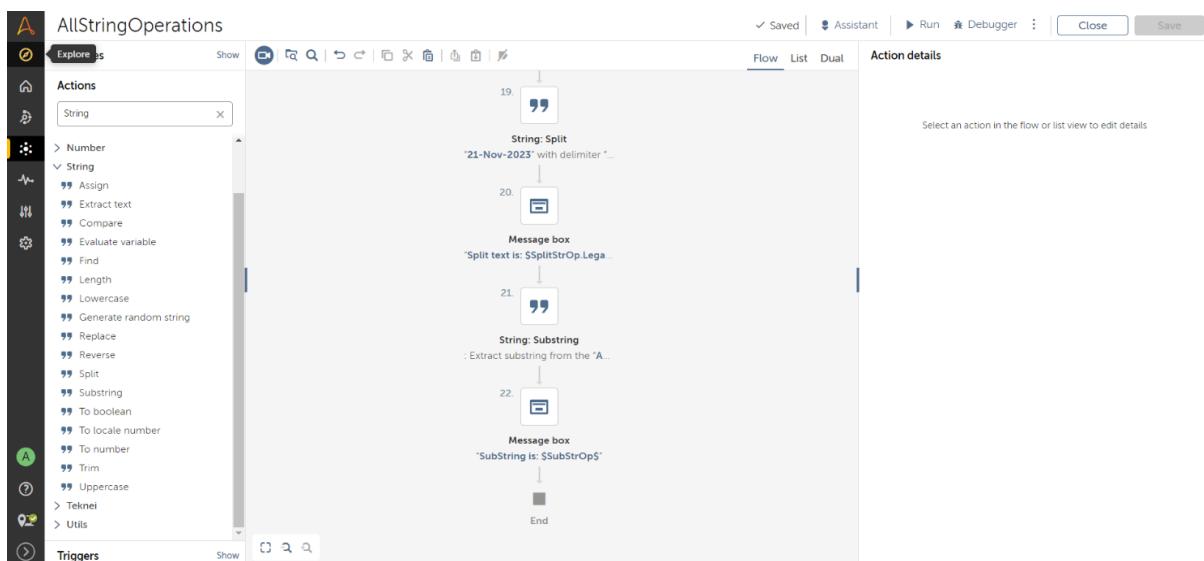
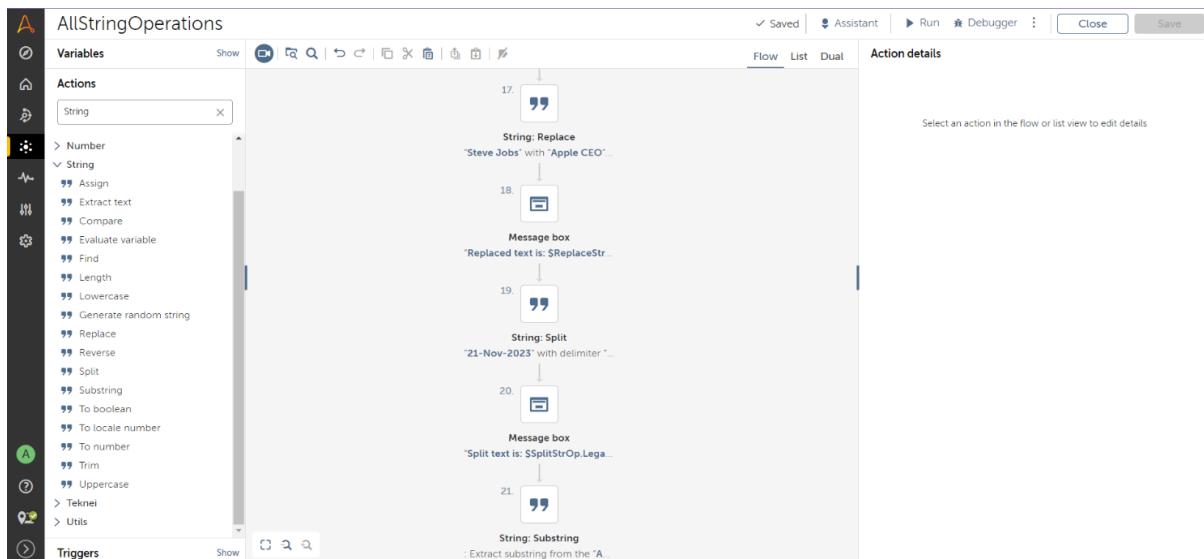
- Action 12: Message box - "Lowercase text is: \$LowerOp\$"
- Action 16: Message box - "Reversed text is: \$RevStrOp\$"
- Bot running progress: 22% (Active: Line 6 of 22)
- Action: messageBox





## Bot for string functions: split, extract a substring, replace

Process:



Output:

**AllStringOperations**

**Variables**

**Actions**

- String
  - Assign
  - Extract text
  - Compare
  - Evaluate variable
  - Find
  - Length
  - Lowercase
  - Generate random string
  - Replace
  - Reverse
  - Split
  - Substring
  - To boolean
  - To locale number
  - To number
  - Trim
  - Uppercase
  - Teknei
  - Utils

**Triggers**

Flow List Dual Action details

Select an action in the flow or list view to edit details

Bot running... AllStringOperations 77% Active: Line 18 of 22 Action: messageBox

**AllStringOperations**

**Variables**

**Actions**

- String
  - Assign
  - Extract text
  - Compare
  - Evaluate variable
  - Find
  - Length
  - Lowercase
  - Generate random string
  - Replace
  - Reverse
  - Split
  - Substring
  - To boolean
  - To locale number
  - To number
  - Trim
  - Uppercase
  - Teknei
  - Utils

**Triggers**

Flow List Dual Action details

Select an action in the flow or list view to edit details

Bot running... AllStringOperations 86% Active: Line 20 of 22 Action: messageBox

**AllStringOperations**

**Variables**

**Actions**

- String
  - Assign
  - Extract text
  - Compare
  - Evaluate variable
  - Find
  - Length
  - Lowercase
  - Generate random string
  - Replace
  - Reverse
  - Split
  - Substring
  - To boolean
  - To locale number
  - To number
  - Trim
  - Uppercase
  - Teknei
  - Utils

**Triggers**

Flow List Dual String: Substring

String: Replace "Steve Jobs" with "Apple CEO" ...

18. Message from bot SubString is: Let's Code

21. String: Substring : Extract substring from the 'H...' ...

22. Bot running... AllStringOperations 95% Active: Line 22 of 22 Action: messageBox

Extracts a substring from a string.  
Required bot agent version: 20.11 or above  
Source string (optional): # Hello, Let's Code  
Start from: # 8  
Length (optional): #  
 Return blank if the range is not found  
Assign the output to variable: # SubStrOp

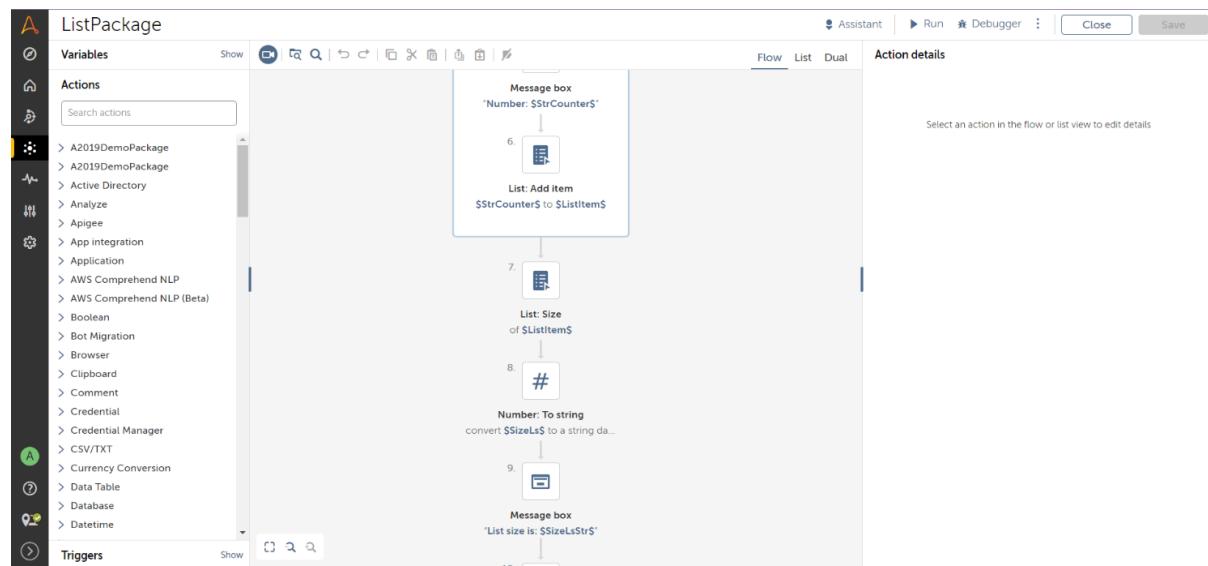
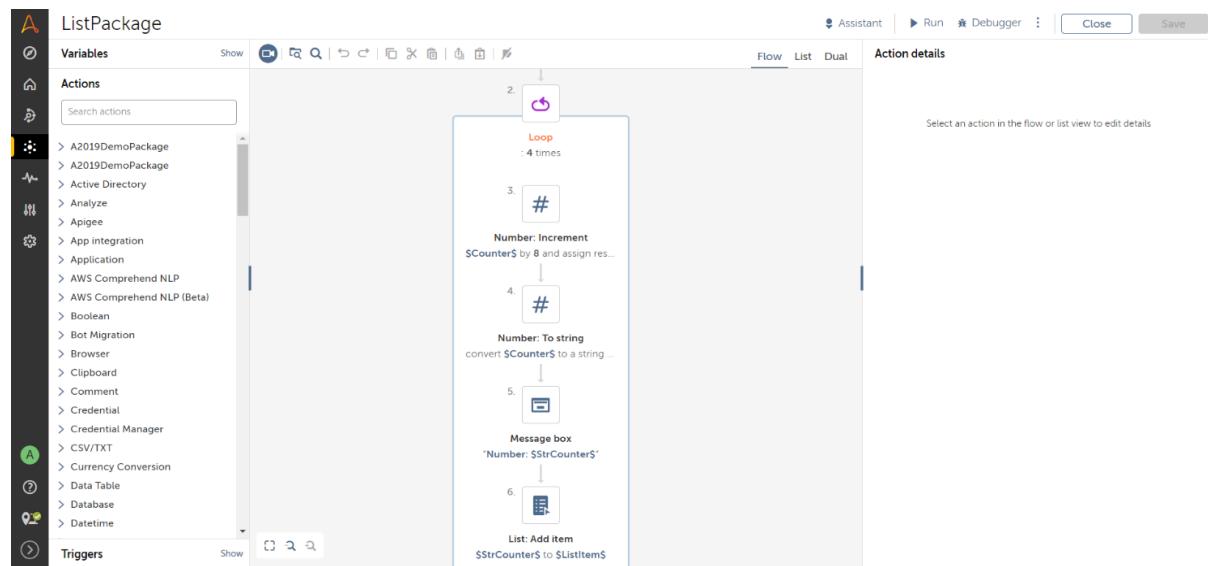
C22129

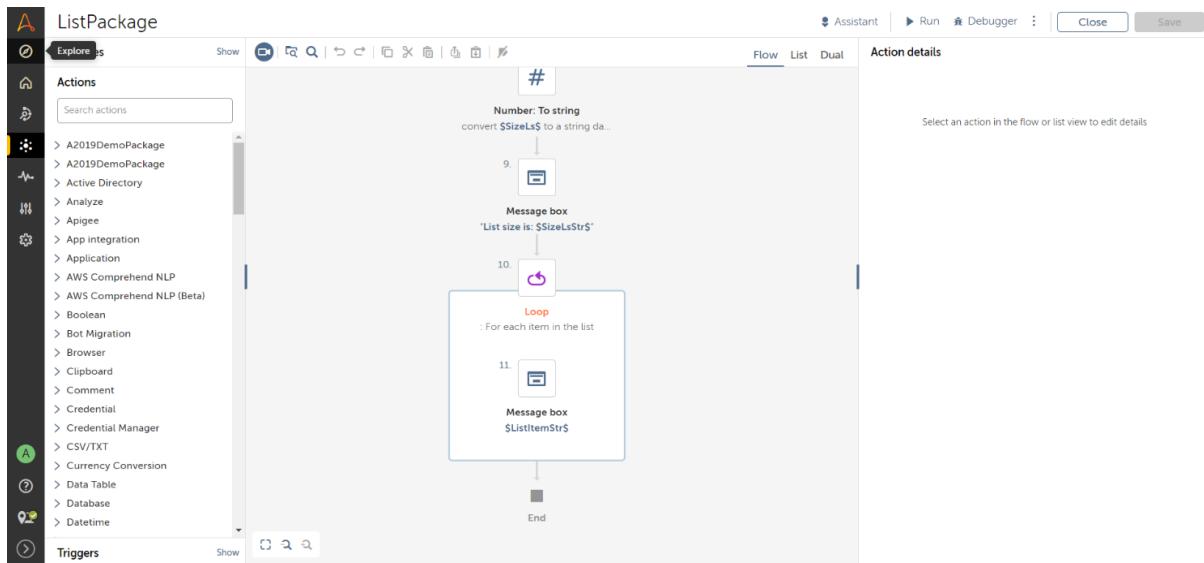
RPA Jurnal

Yash Unhwane

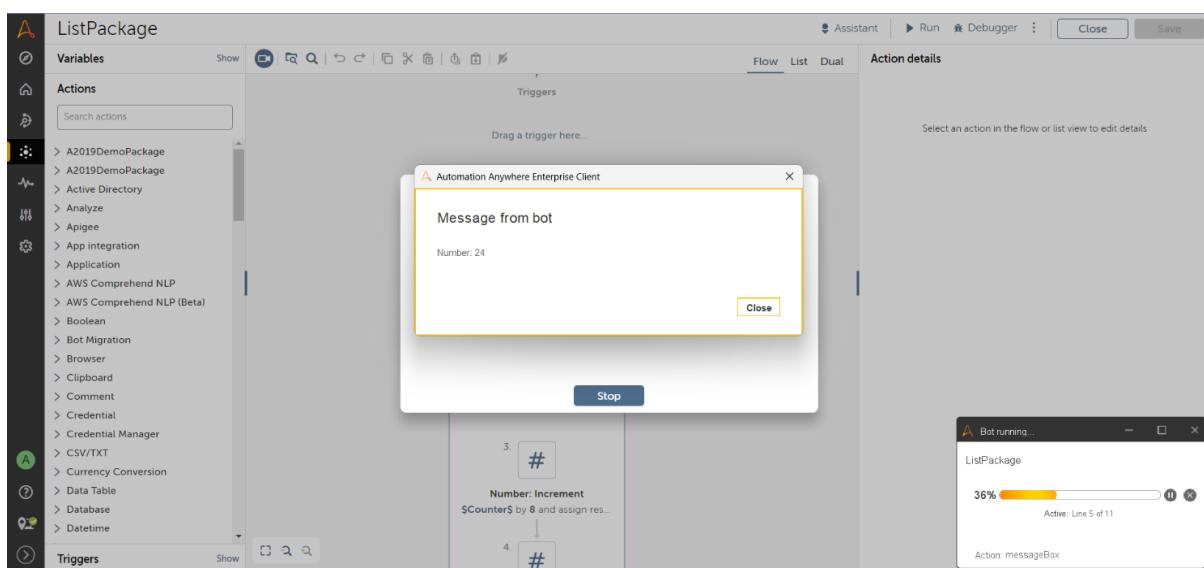
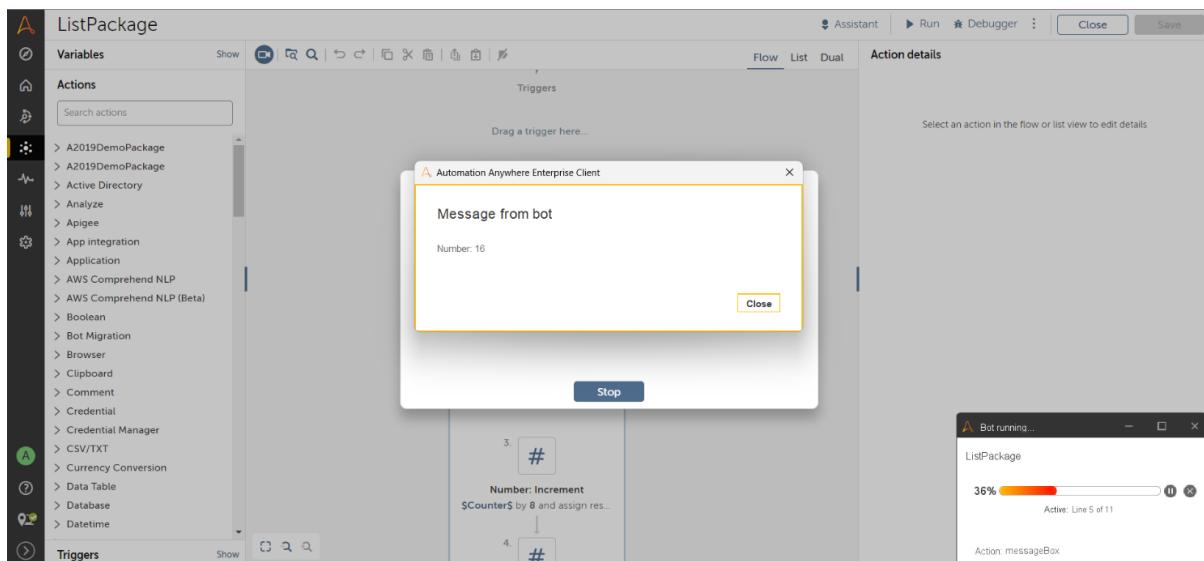
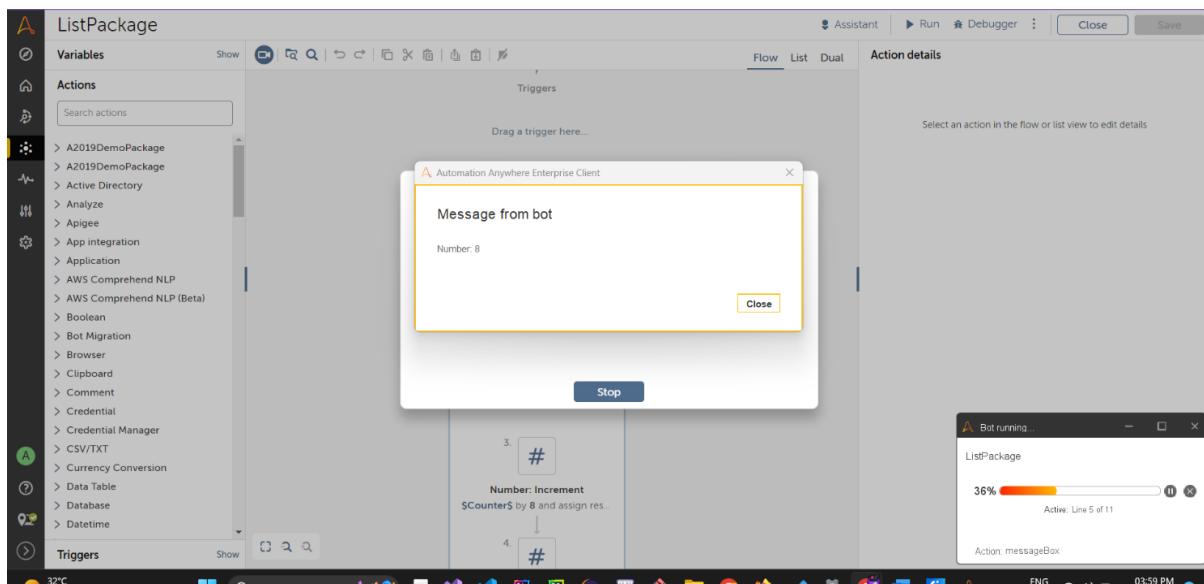
## Bot to demonstrate loop using Number package

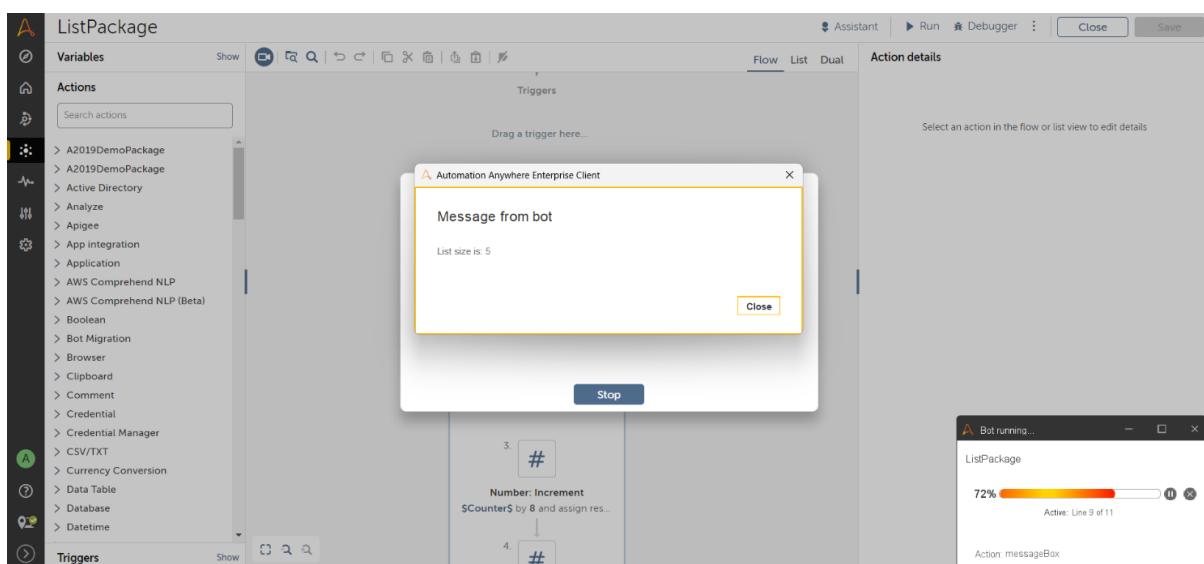
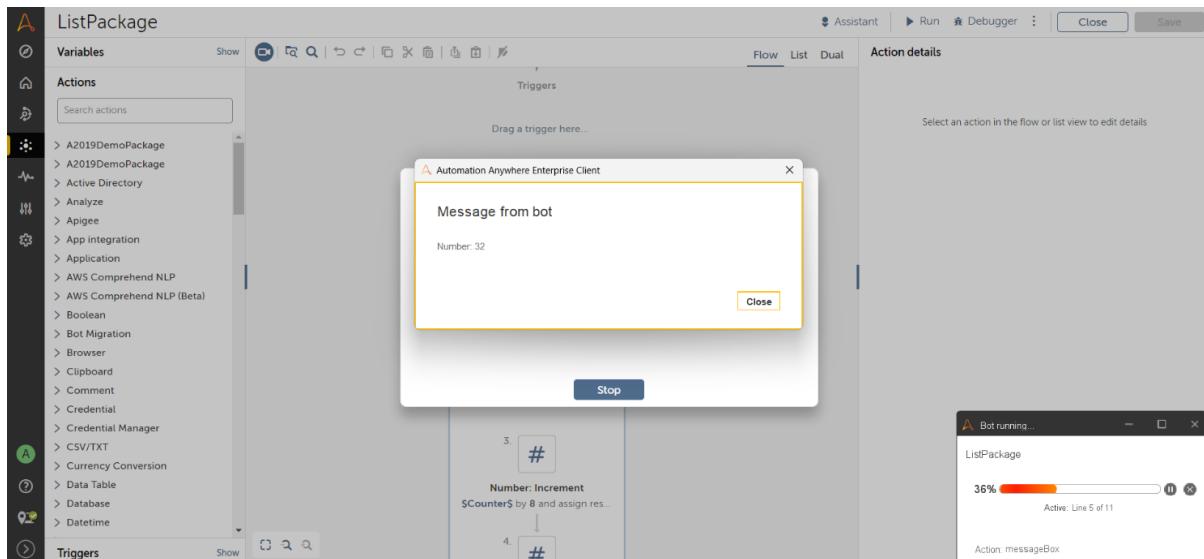
### Process:





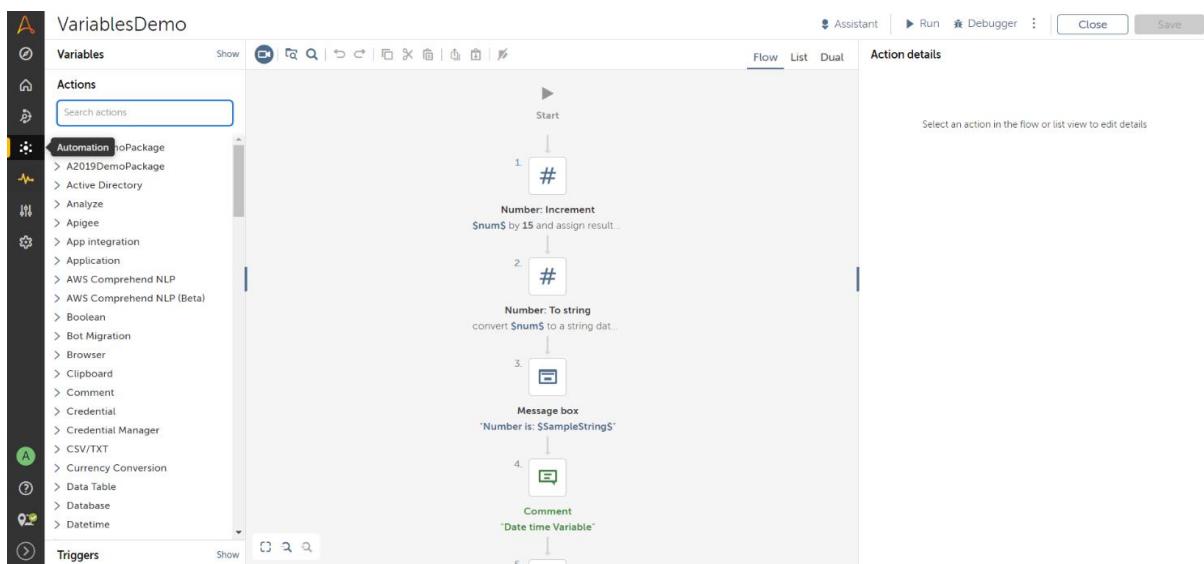
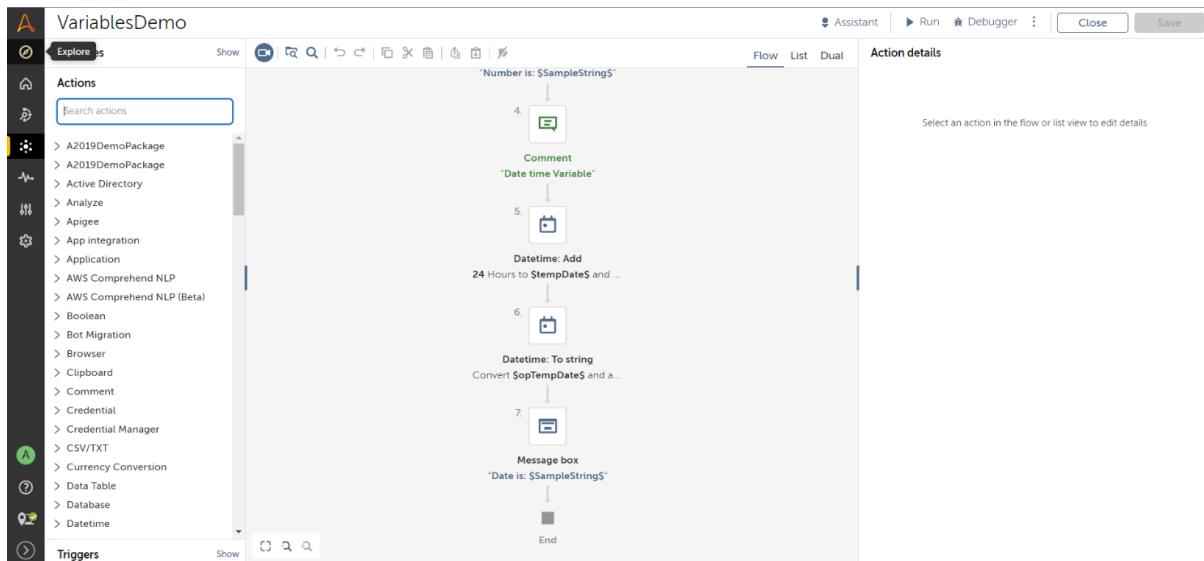
## Output:



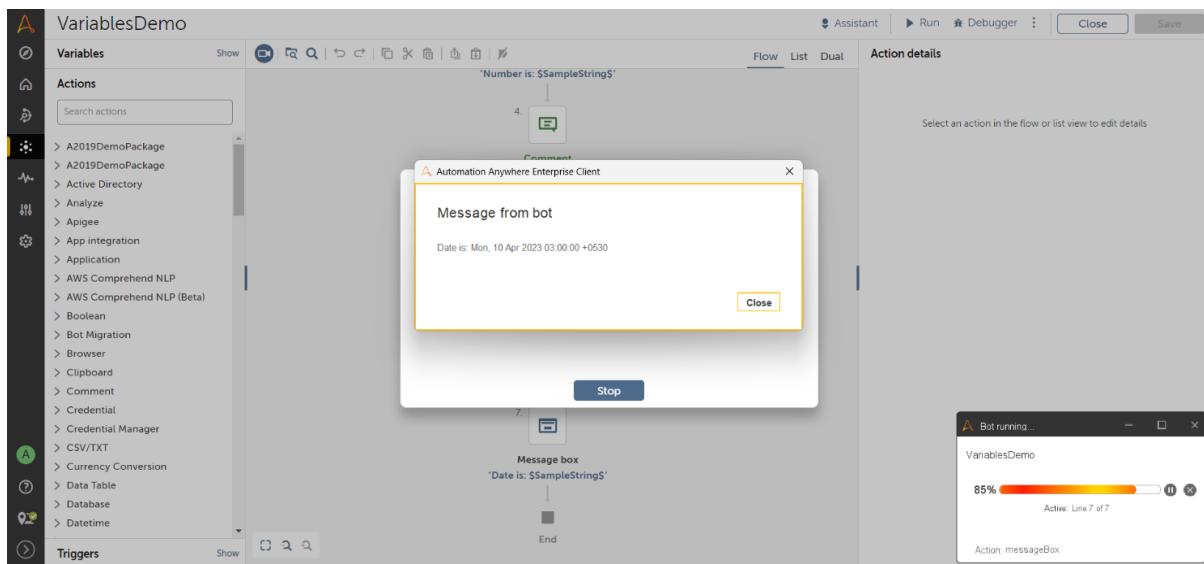
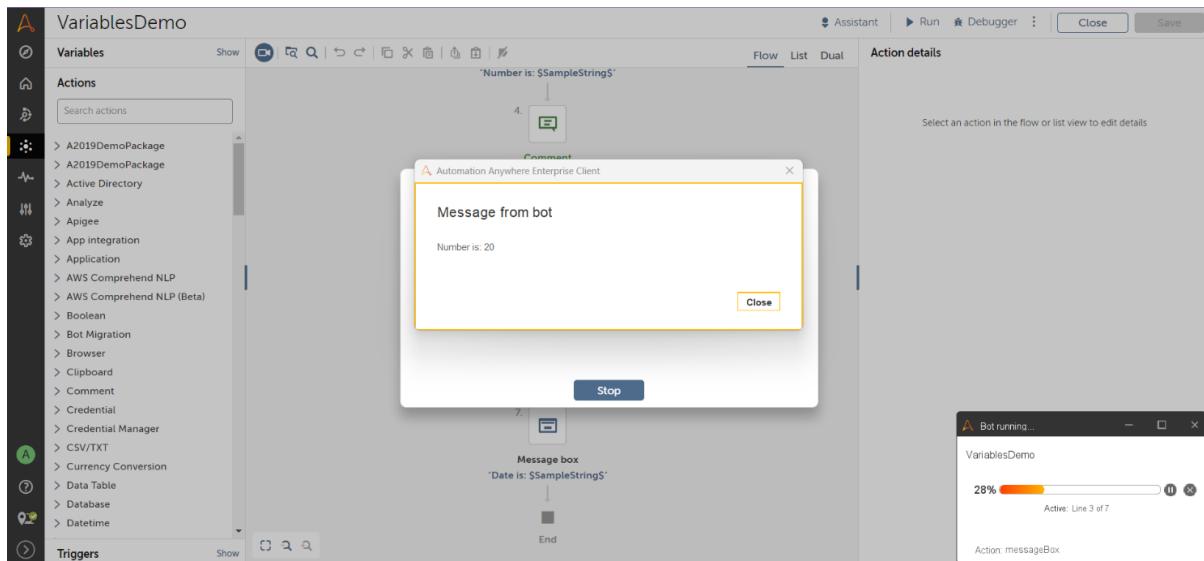


## Bot to demonstrate increment and decrement actions on number and datetime variables

Process:



Output:

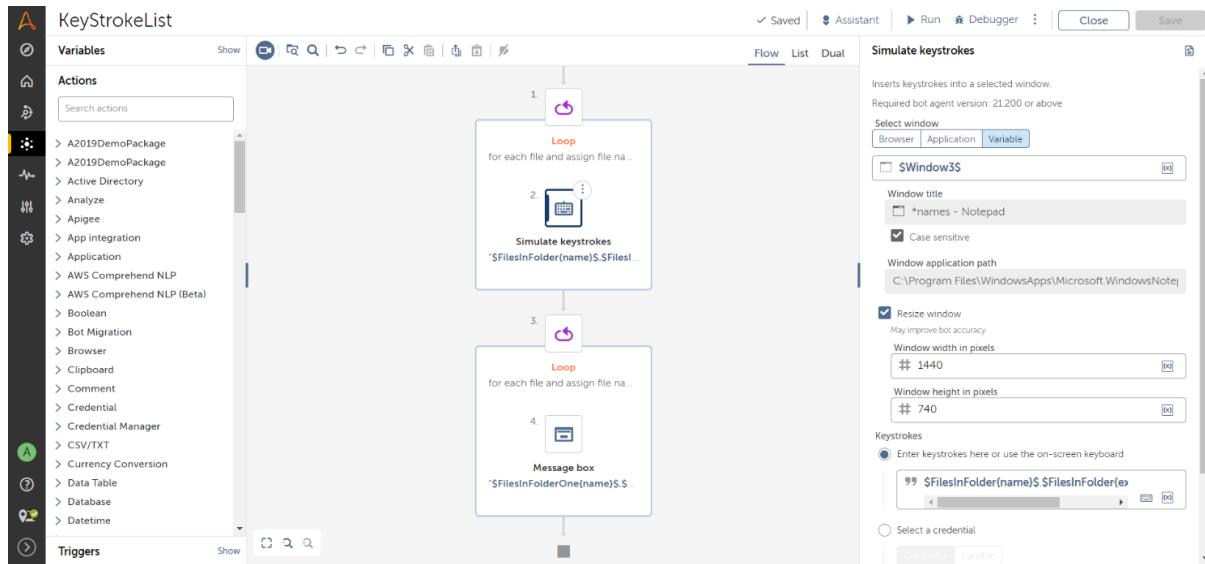


## CATEGORY 3

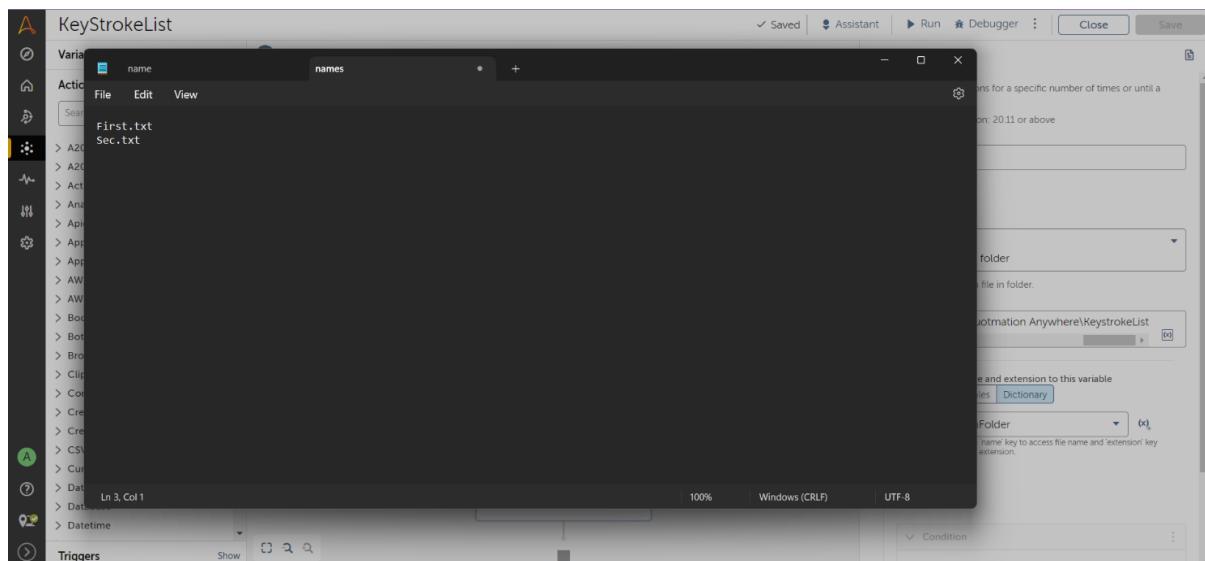
AA

### Bot to demonstrate loop for reading file names in folder and writing those into notepad file

Process:

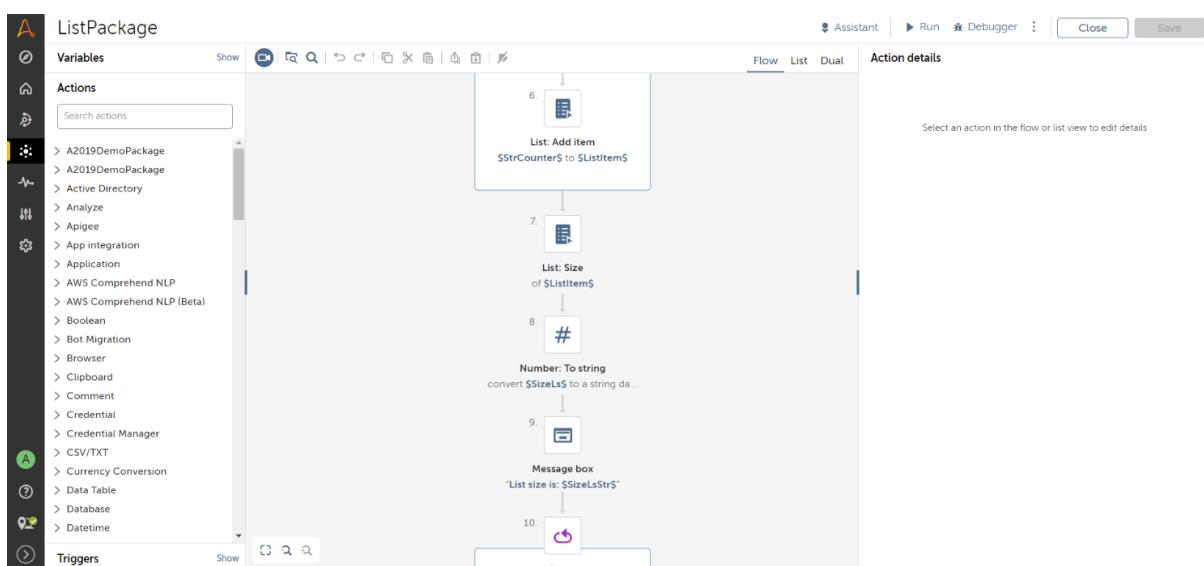
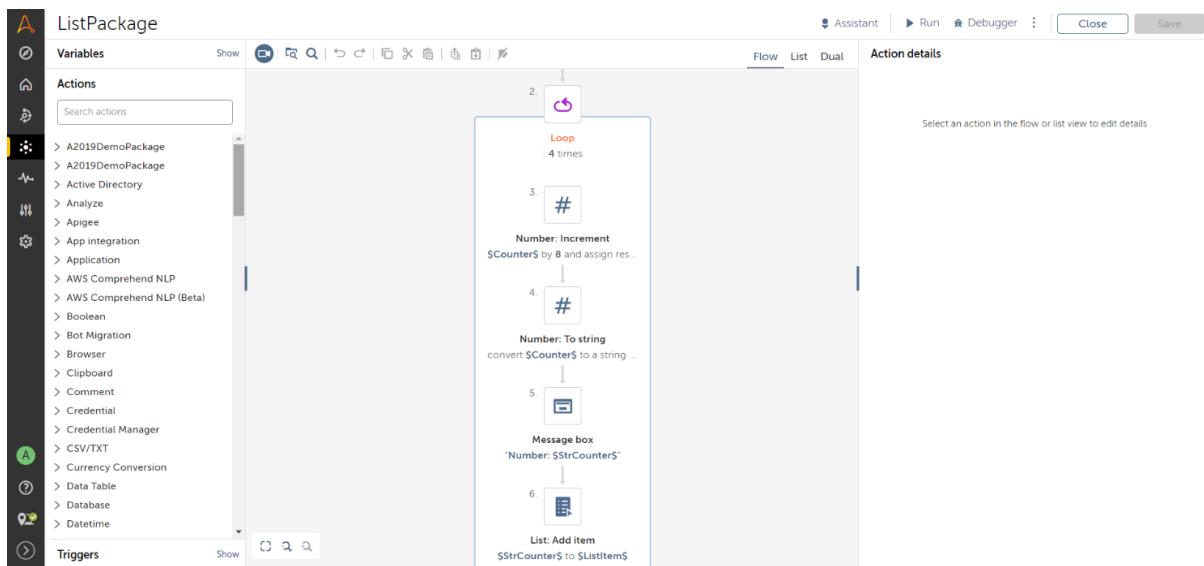


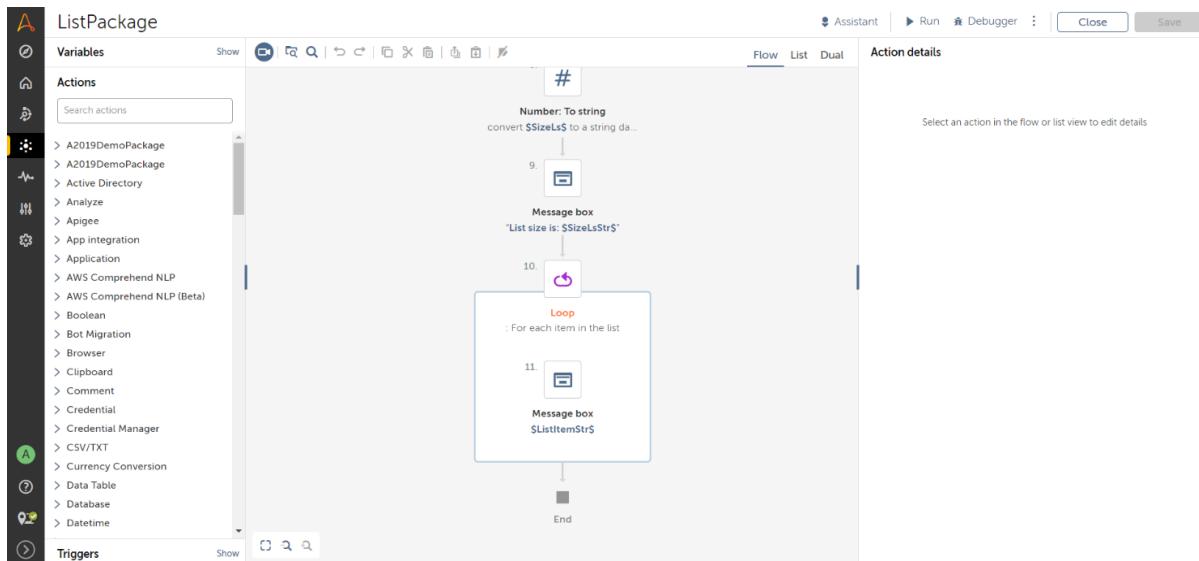
Output:



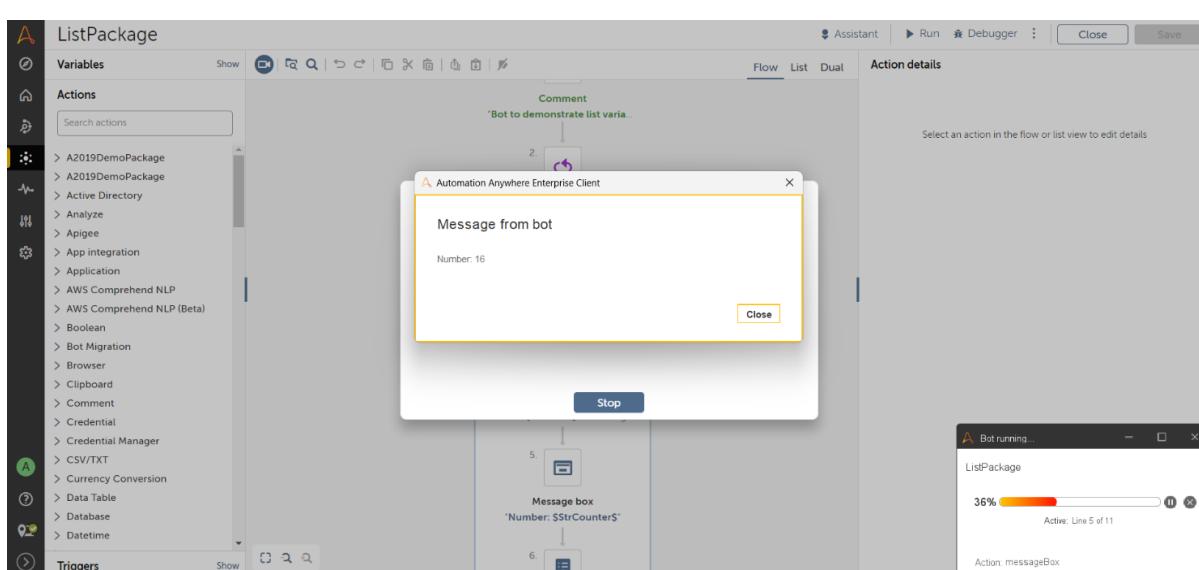
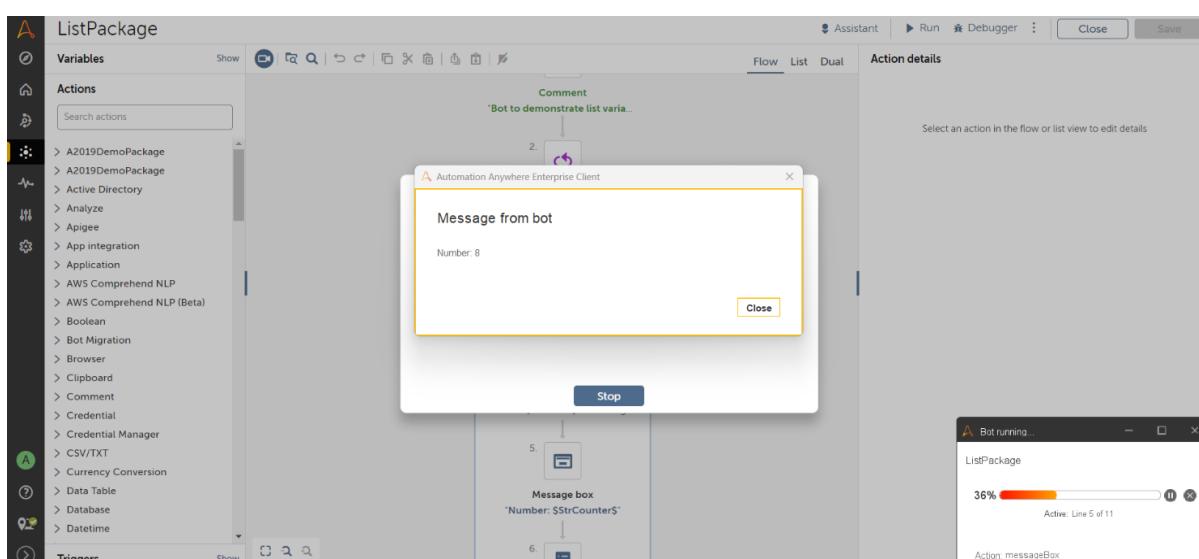
### Bot to demonstrate list variable using list package

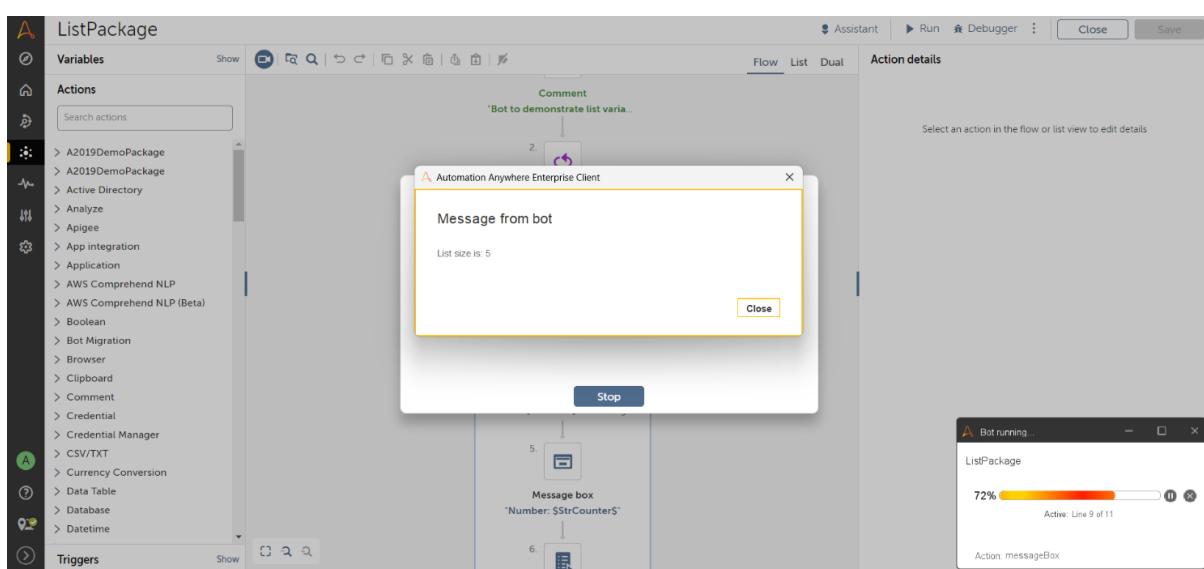
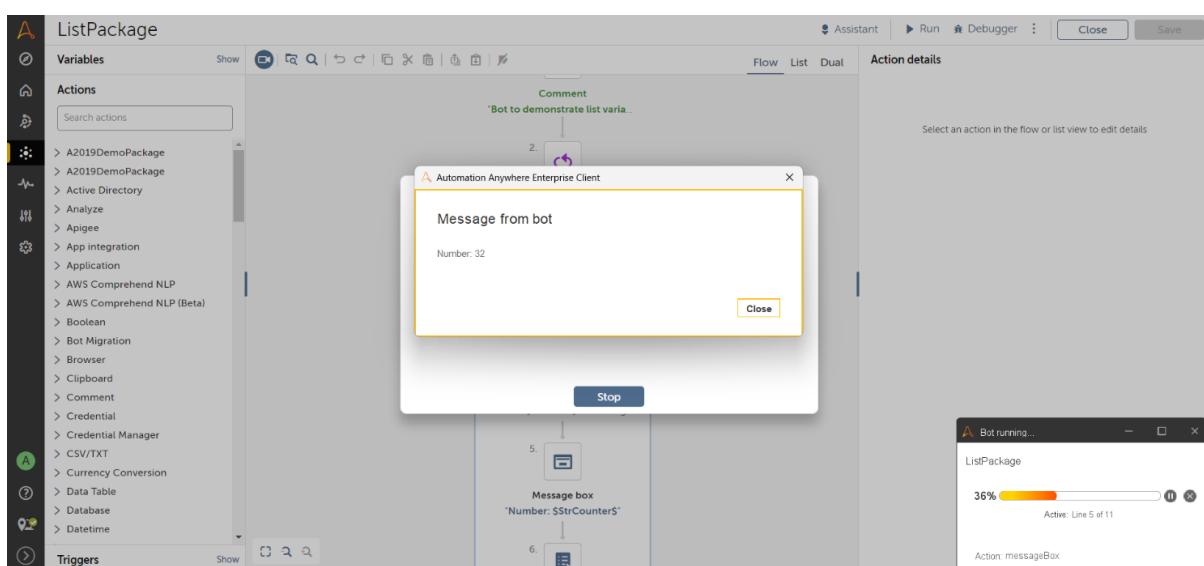
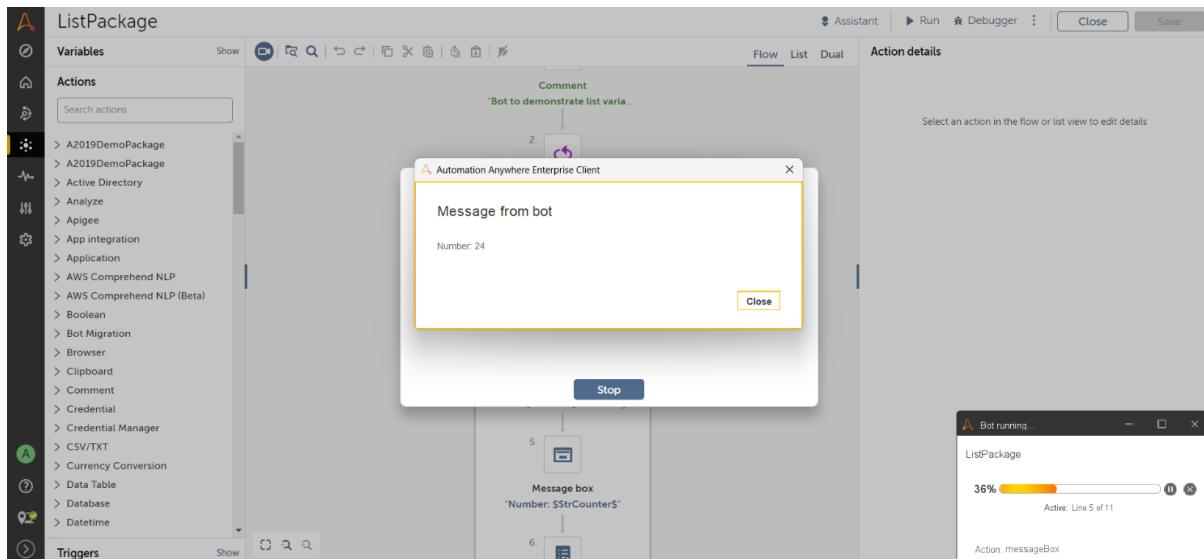
## Process:

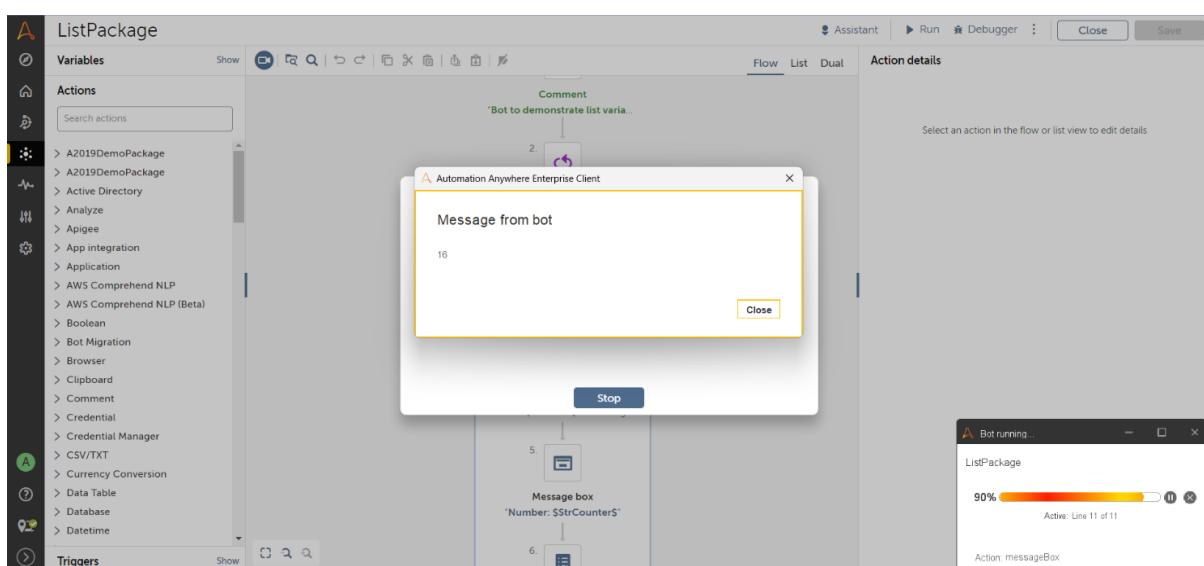
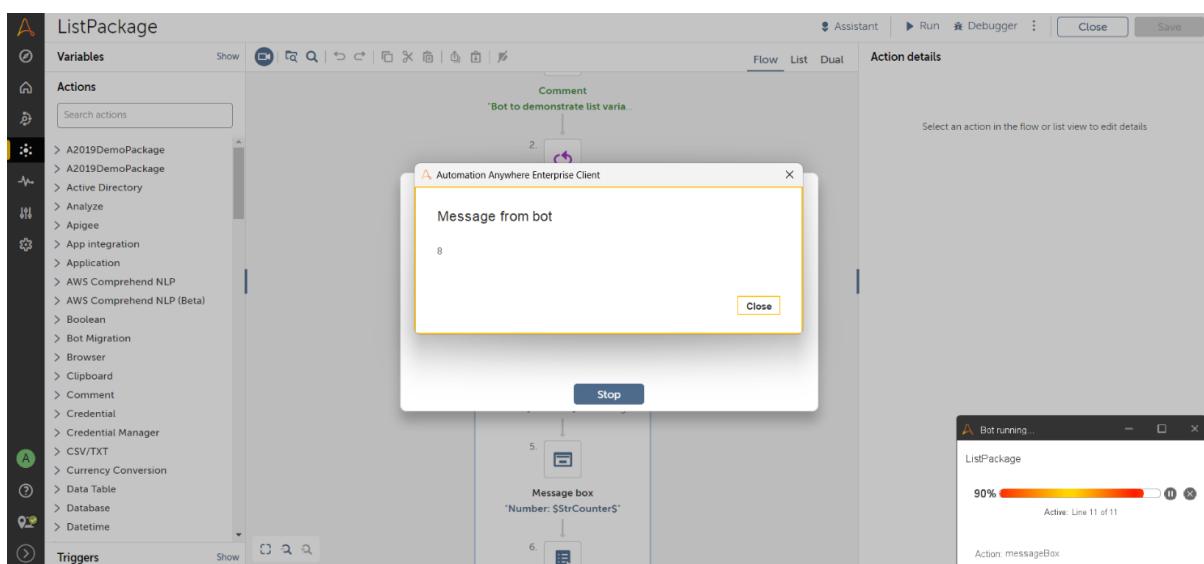
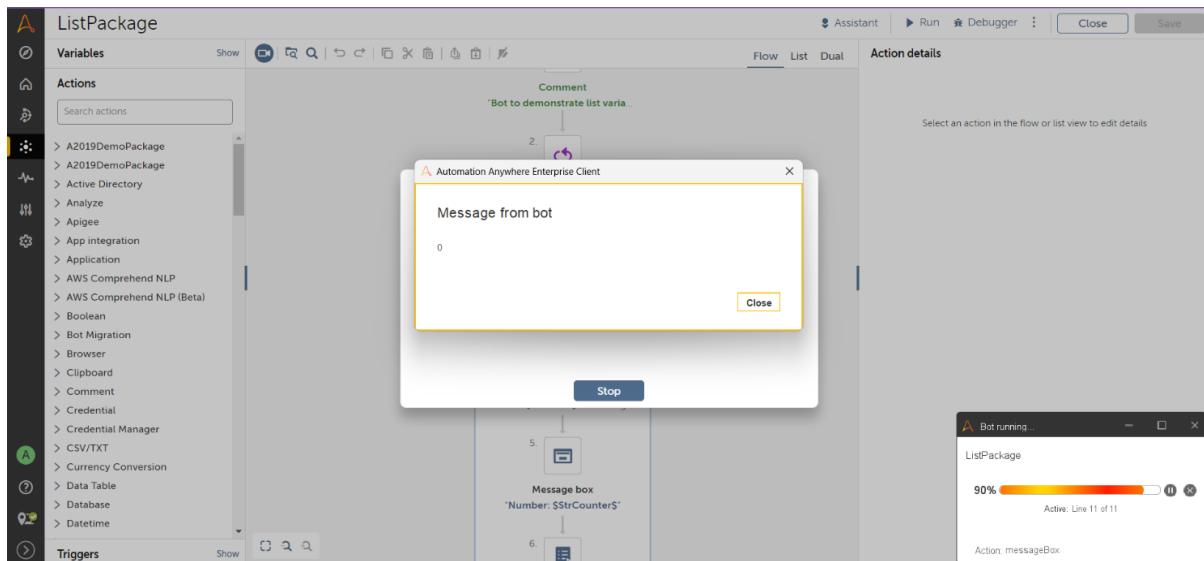




## Output:







**ListPackage**

**Variables**

**Actions**

Search actions

- > A2019DemoPackage
- > A2019DemoPackage
- > Active Directory
- > Analyze
- > Apigee
- > App integration
- > Application
- > AWS Comprehend NLP
- > AWS Comprehend NLP (Beta)
- > Boolean
- > Bot Migration
- > Browser
- > Clipboard
- > Comment
- > Credential
- > Credential Manager
- > CSV/TXT
- > Currency Conversion
- > Data Table
- > Database
- > Datetime

**Triggers**

Show

Flow List Dual

Action details

Select an action in the flow or list view to edit details

Comment  
'Bot to demonstrate list varia...'

2. Automation Anywhere Enterprise Client

Message from bot

16

Close

Stop

5. Message box  
'Number: \$\$strCounter\$'

6.

Bot running... ListPackage 90% Active: Line 11 of 11 Action: messageBox

**ListPackage**

**Variables**

**Actions**

Search actions

- > A2019DemoPackage
- > A2019DemoPackage
- > Active Directory
- > Analyze
- > Apigee
- > App integration
- > Application
- > AWS Comprehend NLP
- > AWS Comprehend NLP (Beta)
- > Boolean
- > Bot Migration
- > Browser
- > Clipboard
- > Comment
- > Credential
- > Credential Manager
- > CSV/TXT
- > Currency Conversion
- > Data Table
- > Database
- > Datetime

**Triggers**

Show

Flow List Dual

Action details

Select an action in the flow or list view to edit details

Comment  
'Bot to demonstrate list varia...'

2. Automation Anywhere Enterprise Client

Message from bot

24

Close

Stop

5. Message box  
'Number: \$\$strCounter\$'

6.

Bot running... ListPackage 90% Active: Line 11 of 11 Action: messageBox

**ListPackage**

**Variables**

**Actions**

Search actions

- > A2019DemoPackage
- > A2019DemoPackage
- > Active Directory
- > Analyze
- > Apigee
- > App integration
- > Application
- > AWS Comprehend NLP
- > AWS Comprehend NLP (Beta)
- > Boolean
- > Bot Migration
- > Browser
- > Clipboard
- > Comment
- > Credential
- > Credential Manager
- > CSV/TXT
- > Currency Conversion
- > Data Table
- > Database
- > Datetime

**Triggers**

Show

Flow List Dual

Action details

Select an action in the flow or list view to edit details

Comment  
'Bot to demonstrate list varia...'

2. Automation Anywhere Enterprise Client

Message from bot

32

Close

Stop

5. Message box  
'Number: \$\$strCounter\$'

6.

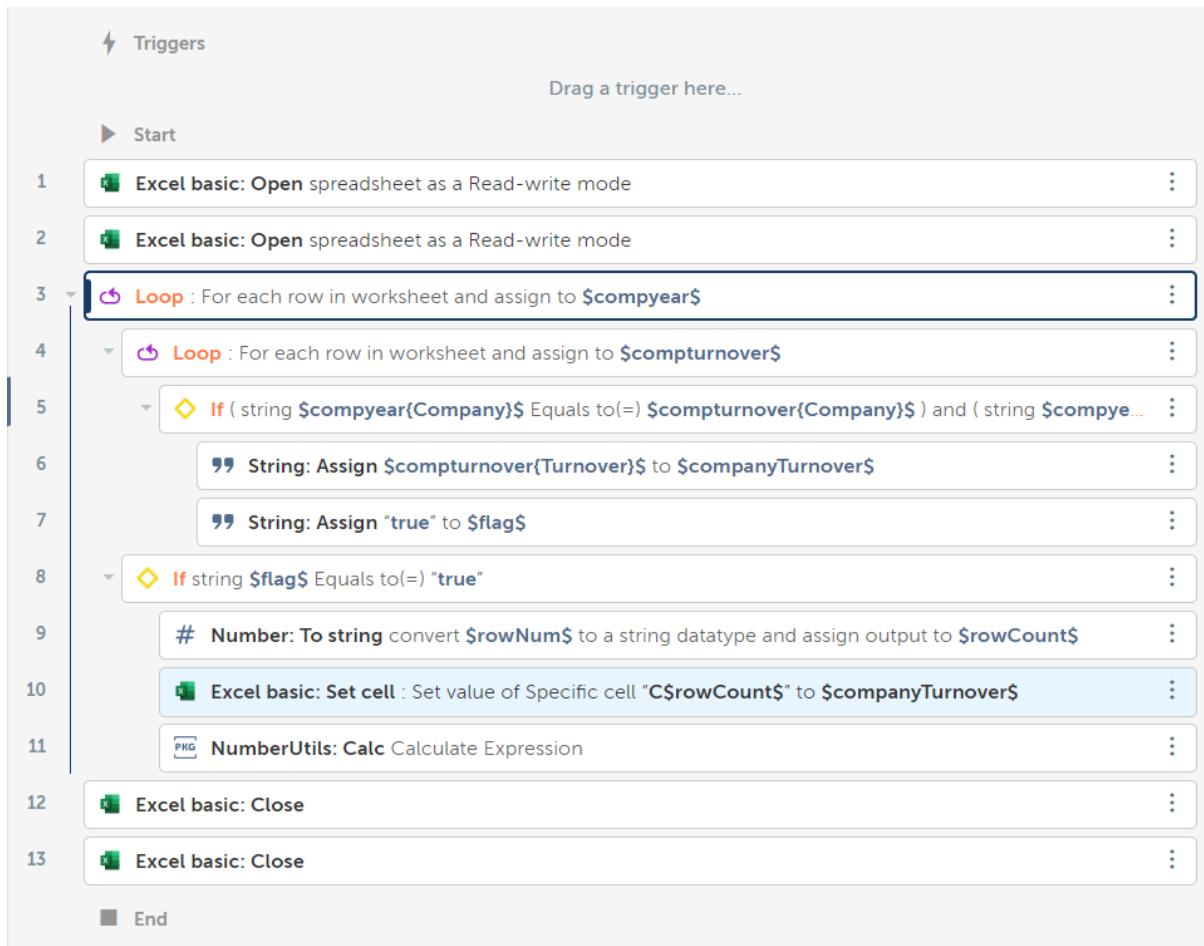
Bot running... ListPackage 90% Active: Line 11 of 11 Action: messageBox

## CATEGORY 4

### AA:

#### Bot for Excel operations: Compare and Update Excel Sheet

#### Process:



**Excel basic: Open**

File path

Control Room file Desktop file Variable

D:\College\Journals\RPA\Trial\C

Required extension: ".xlsx"  
e.g. C:\Working\Excel1.xlsx

Sheet contains a header  
 Specific sheet name  
 e.g. Sheet1 or SHEET1

Open in

Read-only mode  
 Read-write mode  
 Password is required

To open

Credential Variable Insecure string

Create Excel session

Local session Global session Variable

Local session name can only be used in this bot.

year 

**Excel basic: Open**

File path

Control Room file Desktop file Variable

D:\College\Journals\RPA\Trial\C

Required extension: ".xlsx"  
e.g. C:\Working\Excel1.xlsx

Sheet contains a header  
 Specific sheet name  
 e.g. Sheet1 or SHEET1

Open in

Read-only mode  
 Read-write mode  
 Password is required

To open

Credential Variable Insecure string

Create Excel session

Local session Global session Variable

Local session name can only be used in this bot.

turnover 

**Loop**

Label (optional)

⚓

Loop Type

Iterator

Iterator

Excel basic  
For each row in worksheet

Iterator for each row in Excel. Output(s) will be assigned to a record variable

Loop through

All rows

Session name

Session name Variable

year

The name you gave the session when you opened it.

Assign the current value to this variable

Multiple variables Record

compyear

**Loop**

Label (optional)

⚓

Loop Type

Iterator

Iterator

Excel basic  
For each row in worksheet

Iterator for each row in Excel. Output(s) will be assigned to a record variable

Loop through

All rows

Session name

Session name Variable

turnover

The name you gave the session when you opened it.

Assign the current value to this variable

Multiple variables Record

compturnover

**If**

Specifies a condition and holds a sequence of actions to run if the condition is true.

Required bot agent version: 20.11 or above

Condition

**Condition**

String  
String condition

Checks the string variable condition.

Source value (optional)  
" \$compyear{Company}\$ "

Operator  
Equals to(=)

Target value (optional)  
" \$compturnover{Company}\$ "

Match case  
 Ignore carriage return

**If**

And Or

**Condition**

String  
String condition

Checks the string variable condition.

Source value (optional)  
" \$compyear{Year}\$ "

Operator  
Equals to(=)

Target value (optional)  
" \$compturnover{Year}\$ "

Match case  
 Ignore carriage return

Add condition Add group

**String: Assign**

Assigns or concatenates strings.

Required bot agent version: 20.11 or above

Select the source string variable(s)/ value (optional)  
" \$compturnover{Turnover}\$ "

Select the destination string variable  
" companyTurnover "

**String: Assign**

Assigns or concatenates strings.

Required bot agent version: 20.11 or above

Select the source string variable(s)/ value (optional)  
" true "

Select the destination string variable  
" flag "

**If**

Specifies a condition and holds a sequence of actions to run if the condition is true.

Required bot agent version: 20.11 or above

Condition

**Condition**

**String**  
String condition  
Checks the string variable condition.

Source value (optional)  
`# $flag$`

Operator  
Equals to (=)

Target value (optional)  
`# true`

Match case  
 Ignore carriage return

**Add condition****Add group****Number: To string**

Converts a user-specified number to a string

Required bot agent version: 20.18 or above

Enter a number

`# $rowNum$`

Specify number to convert to string e.g. 35

Enter number of digits after decimal (number format)

`# 0`

e.g for number 35.265, enter the number of digits after decimal as 3

Assign the output to variable

`# rowCount`

**(x)****(x)****(x)****(x)**

### Excel basic: Set cell

Sets the value you have specified in a cell in a Microsoft Excel spreadsheet.

Required bot agent version: 21.112 or above

Use

Active cell

Specific cell

`# C$rowCount$`

e.g., A5 or B10

Value to set

`# $companyTurnover$`

e.g., Original

Session name

Session name  Variable

`# year`

The name you gave the session when you opened it.

### NumberUtils: Calc

Calculate Expression

Expression to be calculated

`# $rowNum$+1`

**(x)**

Calculated Expression

`# rowNum`

**(x)****(x)**

**Excel basic: Close**

Closes an Excel spreadsheet and save changes when closing the file.

Required bot agent version: 21.112 or above

Save changes when closing file

Session name

Session name  Variable

year (x)

The name you gave the session when you opened it.

**Excel basic: Close**

Closes an Excel spreadsheet and save changes when closing the file.

Required bot agent version: 21.112 or above

Save changes when closing file

Session name

Session name  Variable

turnover (x)

The name you gave the session when you opened it.

| A           | B    | C        | D | E | F |
|-------------|------|----------|---|---|---|
| 1 Company   | Year | Turnover |   |   |   |
| 2 Accenture | 1980 | 25Cr     |   |   |   |
| 3 IBM       | 2000 | 90Cr     |   |   |   |
| 4 Tata      | 1967 | 76Cr     |   |   |   |
| 5 BMW       | 1990 | 50Cr     |   |   |   |
| 6 Delloite  | 1934 | 24Cr     |   |   |   |
| 7 Google    | 1890 | 76Cr     |   |   |   |
| 8 Microsoft | 1990 | 98Cr     |   |   |   |
| 9 Cisco     | 1987 | 87Cr     |   |   |   |
| 10 Oracle   | 1976 | 54Cr     |   |   |   |
| 11          |      |          |   |   |   |
| 12          |      |          |   |   |   |

| A           | B    | C        | D | E |
|-------------|------|----------|---|---|
| 1 Company   | Year | Turnover |   |   |
| 2 Accenture | 1980 |          |   |   |
| 3 IBM       | 2000 |          |   |   |
| 4 Tata      | 1967 |          |   |   |
| 5 BMW       | 1990 |          |   |   |
| 6 Delloite  | 1934 |          |   |   |
| 7 Google    | 1890 |          |   |   |
| 8 Microsoft | 1990 |          |   |   |
| 9 Cisco     | 1987 |          |   |   |
| 10 Oracle   | 1976 |          |   |   |
| 11          |      |          |   |   |
| 12          |      |          |   |   |

Output:

Your bot has run successfully!

Close

data tables \$T1\$ and \$T2\$ into \$T3\$

AutoSave Off Company Year

File Home Insert Page Layout Formulas Data Review

Paste Clipboard

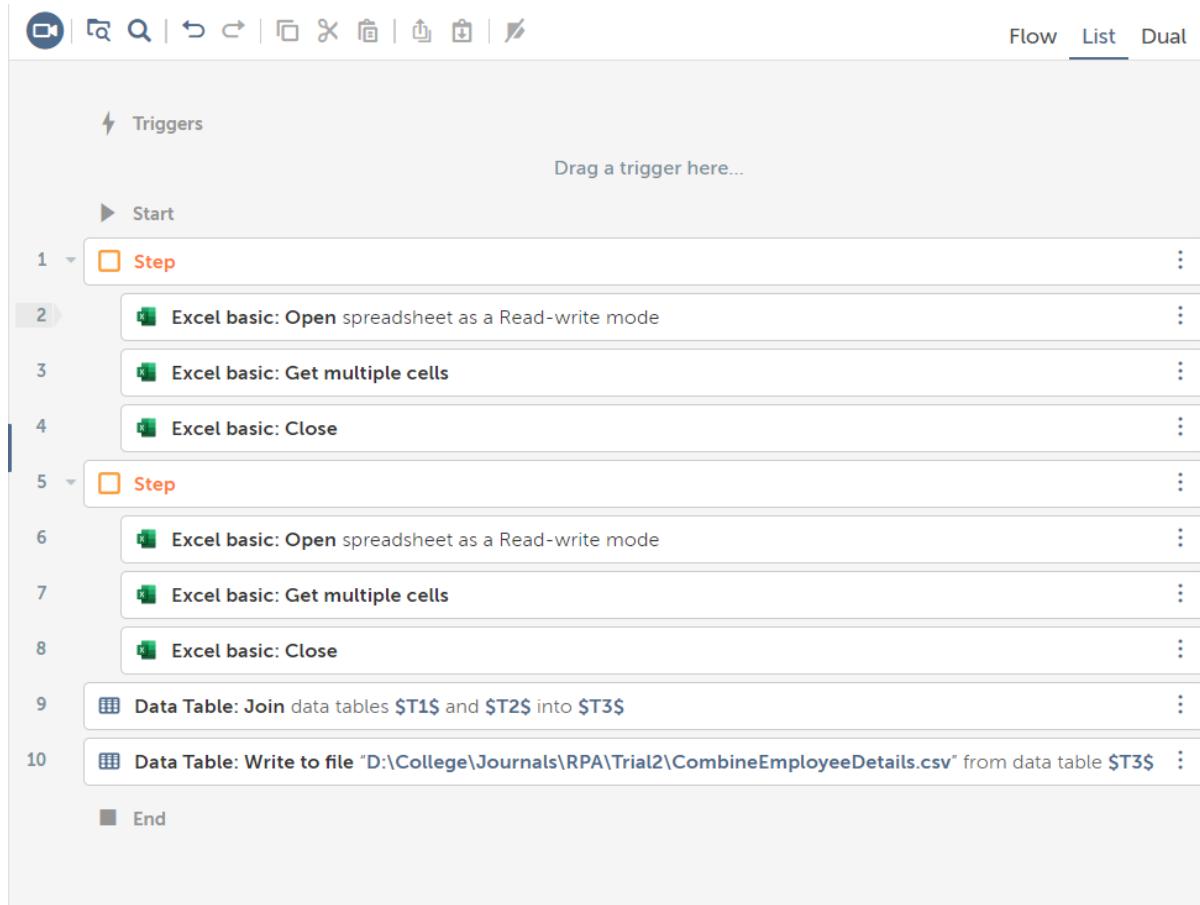
Font

C10

54Cr

|    | A         | B    | C        | D | E | F |
|----|-----------|------|----------|---|---|---|
| 1  | Company   | Year | Turnover |   |   |   |
| 2  | Accenture | 1980 | 25Cr     |   |   |   |
| 3  | IBM       | 2000 | 90Cr     |   |   |   |
| 4  | Tata      | 1967 | 76Cr     |   |   |   |
| 5  | BMW       | 1990 | 50Cr     |   |   |   |
| 6  | Delloite  | 1934 | 24Cr     |   |   |   |
| 7  | Google    | 1890 | 76Cr     |   |   |   |
| 8  | Microsoft | 1990 | 98Cr     |   |   |   |
| 9  | Cisco     | 1987 | 87Cr     |   |   |   |
| 10 | Oracle    | 1976 | 54Cr     |   |   |   |
| 11 |           |      |          |   |   |   |
| 12 |           |      |          |   |   |   |

## Bot to demonstrate Data Table Package with Excel/ Advanced Excel package.



### Excel basic: Open

File path

Control Room file Desktop file Variable

D:\College\Journals\RPA\Trial2\

Browse... Required extension: \*.xlsx\* e.g. C:\Working\Excel1.xlsx

Sheet contains a header

Specific sheet name

e.g. Sheet1 or SHEET1

Open in

Read-only mode

Read-write mode

Password is required

To open

Credential Variable Insecure string

Pick...

### Excel basic: Get multiple cells

Retrieves the values from cells in a Microsoft Excel spreadsheet and stores them in a table variable.

Required bot agent version: 21.112 or above

Select range of cells to be returned

All rows

Session name

Session name Variable

\$S1\$

Excel basic session variable from Set session variable action or from parent bot

Assign value to the variable (optional)

T1

### Excel basic: Close

Closes an Excel spreadsheet and save changes when closing the file.

Required bot agent version: 21.112 or above

Save changes when closing file

Session name

Session name Variable

\$S1\$

e.g. Session1 or S1

### Create Excel session

Local session Global session Variable

S1

**Excel basic: Open**

**File path**

Control Room file Desktop file Variable

D:\College\Journals\RPA\Trial2\Employee Salary.xlsx

Required extension: ".xlsx"  
e.g. C:\Working\Excel1.xlsx

Sheet contains a header  
 Specific sheet name  
 e.g. Sheet1 or SHEET1

**Open in**

Read-only mode  
 Read-write mode  
 Password is required

**To open**

Credential Variable Insecure string

**Create Excel session**

Local session Global session Variable

S2 

**Excel basic: Get multiple cells**

Retrieves the values from cells in a Microsoft Excel spreadsheet and stores them in a table variable.

Required bot agent version: 21.112 or above

Select range of cells to be returned  
 All rows

Session name  
Session name Variable

\$S2\$

Excel basic session variable from Set session variable action or from parent bot

Assign value to the variable (optional)  
 T2

**Excel basic: Close**

Closes an Excel spreadsheet and save changes when closing the file.

Required bot agent version: 21.112 or above

Save changes when closing file

Session name  
Session name Variable

\$S2\$

e.g. Session1 or S1

**Data Table: Join**

Combines content from two table variables.

Required bot agent version: 20.11 or above

Enter first data table name  
 T1

Enter column name for first table  
 Employee Name

Enter second data table name  
 T2

Enter column name for second table  
 Employee Name

Select type of join

inner join: Returns records that have matching values in both tables  
 left outer join: Returns all records from the first table, and the matched records from the second table  
 right outer join: Returns all records from the second table, and the matched records from the first table  
 full outer join: Returns all records when there is a match in either left or right table

Enter name of data table in which to join  
 T3

**Data Table: Write to file**

Writes data from a Table type variable to a CSV or TXT file.

Required bot agent version: 20.11 or above

Data table name  
 T3

Enter file name  
 D:\College\Journals\RPA\Trial2\Cc   
Required extensions: ".csv", ".txt"

Create folders/files if it doesn't exist

When writing

Append to the existing file  
 Overwrite existing file

Row delimiter  
 new line

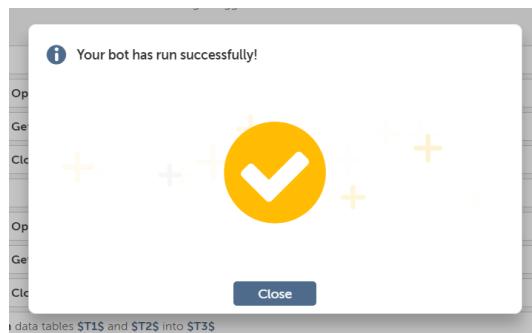
Column delimiter  
 comma

Encoding  
 ANSI

|   | A             | B          | C | D |
|---|---------------|------------|---|---|
| 1 | Employee Name | Department |   |   |
| 2 | Manish        | HR         |   |   |
| 3 | Abhinav       | IT         |   |   |
| 4 | Trushank      | Marketing  |   |   |
| 5 | Rohit         | Finance    |   |   |
| 6 | Nimesh        | Operations |   |   |
| 7 | Kartik        | Sales      |   |   |
| 8 |               |            |   |   |

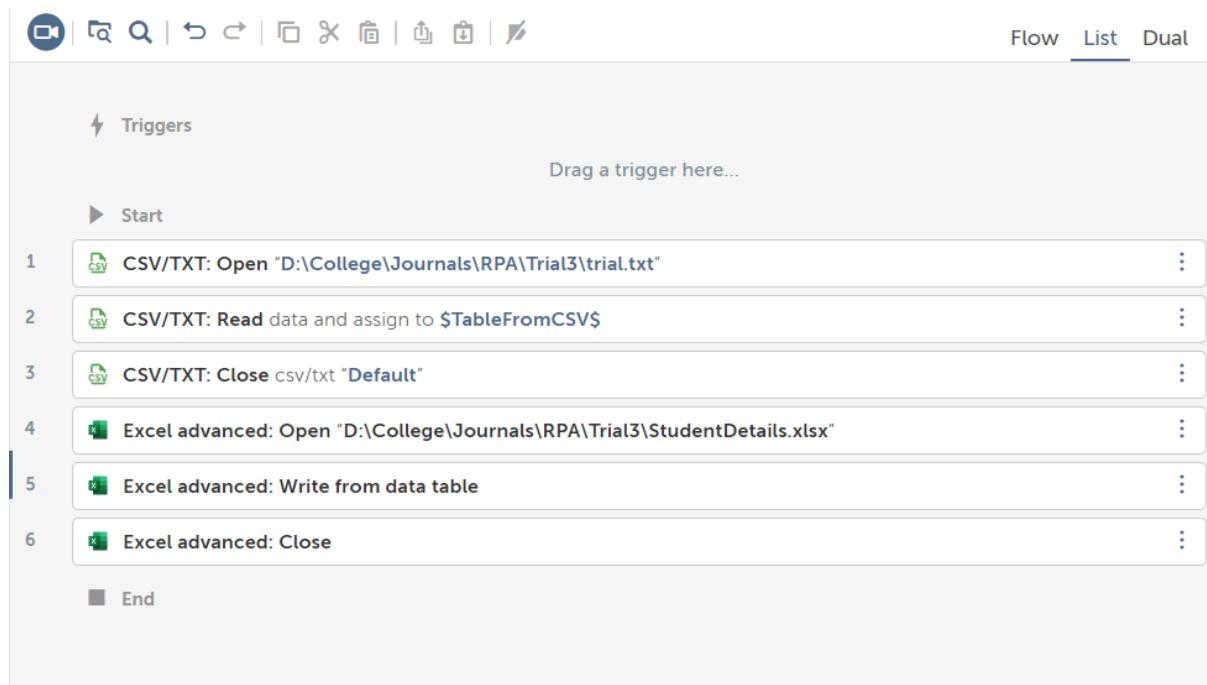
|    | A             | B      | C | D | E |
|----|---------------|--------|---|---|---|
| 1  | Employee Name | Salary |   |   |   |
| 2  | Manish        | 40k    |   |   |   |
| 3  | Abhinav       | 80k    |   |   |   |
| 4  | Trushank      | 65k    |   |   |   |
| 5  | Rohit         | 49k    |   |   |   |
| 6  | Nimesh        | 58k    |   |   |   |
| 7  | Kartik        | 90k    |   |   |   |
| 8  |               |        |   |   |   |
| 9  |               |        |   |   |   |
| 10 |               |        |   |   |   |

### Output:



|   | A        | B          | C      | D | E | F | G |
|---|----------|------------|--------|---|---|---|---|
| 1 | Employee | Department | Salary |   |   |   |   |
| 2 | Manish   | HR         | 40k    |   |   |   |   |
| 3 | Abhinav  | IT         | 80k    |   |   |   |   |
| 4 | Trushank | Marketing  | 65k    |   |   |   |   |
| 5 | Rohit    | Finance    | 49k    |   |   |   |   |
| 6 | Nimesh   | Operations | 58k    |   |   |   |   |
| 7 | Kartik   | Sales      | 90k    |   |   |   |   |
| 8 |          |            |        |   |   |   |   |
| 9 |          |            |        |   |   |   |   |

## Bot To copy data from TXT file and write it into Excel.



### CSV/TXT: Open

Session name  
 (x)

File path

Browse...

Required extensions: ".csv", ".txt", ".tsv"

Contains header

Delimiter  
 Comma  
 Tab  
 Regional list separator  
 Newline  
 Other

Specific Delimiter (optional)  
 ▼

Trim leading spaces  
 Trim trailing spaces

Encoding

### CSV/TXT: Read

Retrieves values from a CSV or TXT file, and insert them into a Table variable for operations with the data values

Required bot agent version: 20.11 or above

Session name  
 (x)

Assign value to the variable  
 ▼

### CSV/TXT: Close

Closes the CSV or text file

Required bot agent version: 20.11 or above

Session name  
 (x)

**Excel advanced: Open**

Control Room file Desktop file Variable

D:\College\Journals\RPA\Tria  (x)  Browse...

e.g. C:\Working\Excel1.xlsx

Sheet contains a header

Specific sheet name

Sheet1  (x)

e.g. Sheet1 or SHEET1

Open in

Read-only mode

Read-write mode

Password is required

To open (optional)

Credential Variable Insecure string

Pick...

To edit (optional)

Credential Variable Insecure string

Pick...

Load Add-ins

Exclude hidden sheets

Excel contains charts


**Excel advanced: Open**

- Load Add-ins
- Exclude hidden sheets
- Excel contains charts

**Create Excel session**

Local session Global session Variable

S3  (x)

**Excel advanced: Write from data table**

Write values from a data table into a worksheet.

Required bot agent version: 21.112 or above

**Enter data table variable**

TableFromCSV  (x)

**Enter worksheet name:**

Active worksheet

Specific worksheet

Sheet1  (x)

**Specify the first cell**

A1  (x)

e.g. A5 or B10

**Session name**

Session name Variable

\$S3\$  (x)

Excel advanced session variable from Set session variable action or from parent bot

**Excel advanced: Close**

Closes the current workbook and provides an option to save the changes when closing the file.

Required bot agent version: 21.112 or above

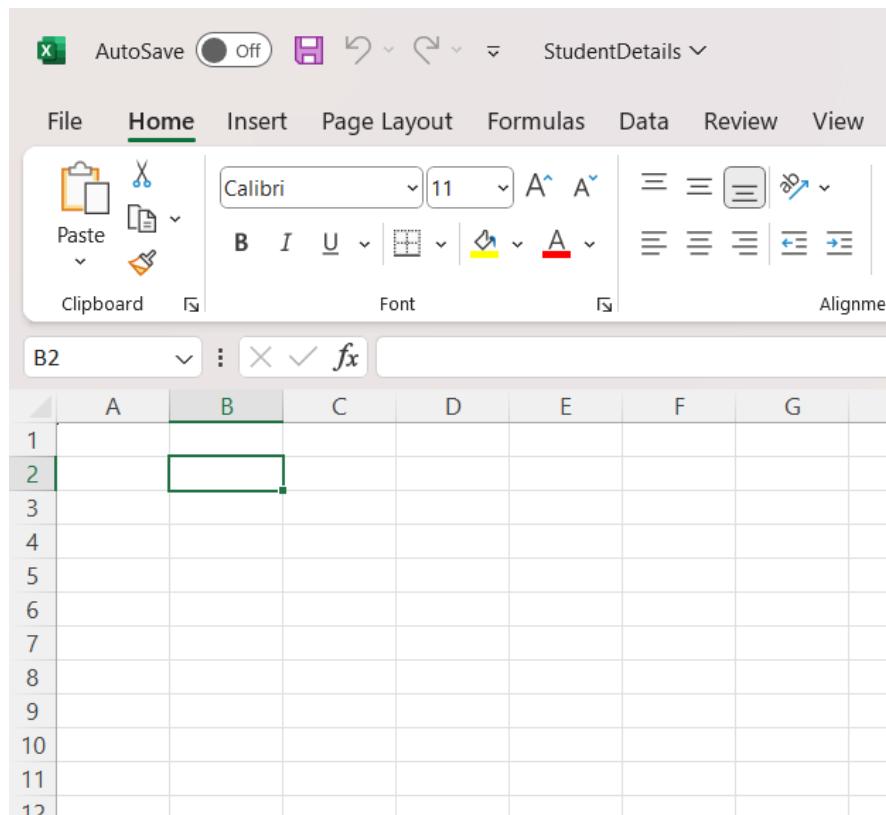
Save changes when closing file

**Session name**

Session name Variable

\$S3\$  (x)

e.g. Session1 or S1

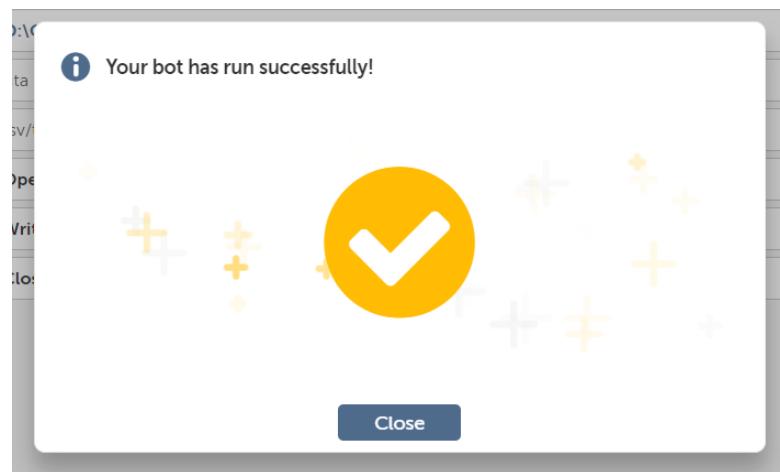


```
Name,RollNo,Marks
Manish,102,46
Abhinav,76,50
Kartik,108,78
Trushank,106,76
Rohit,99,90
```

A screenshot of a Notepad window titled "trial". The window contains a CSV file with five rows of data. The data is as follows:

| Name     | RollNo | Marks |
|----------|--------|-------|
| Manish   | 102    | 46    |
| Abhinav  | 76     | 50    |
| Kartik   | 108    | 78    |
| Trushank | 106    | 76    |
| Rohit    | 99     | 90    |

The status bar at the bottom of the Notepad window shows "Ln 1, Col 1", "100%", "Windows (CRLF)", and "UTF-8".

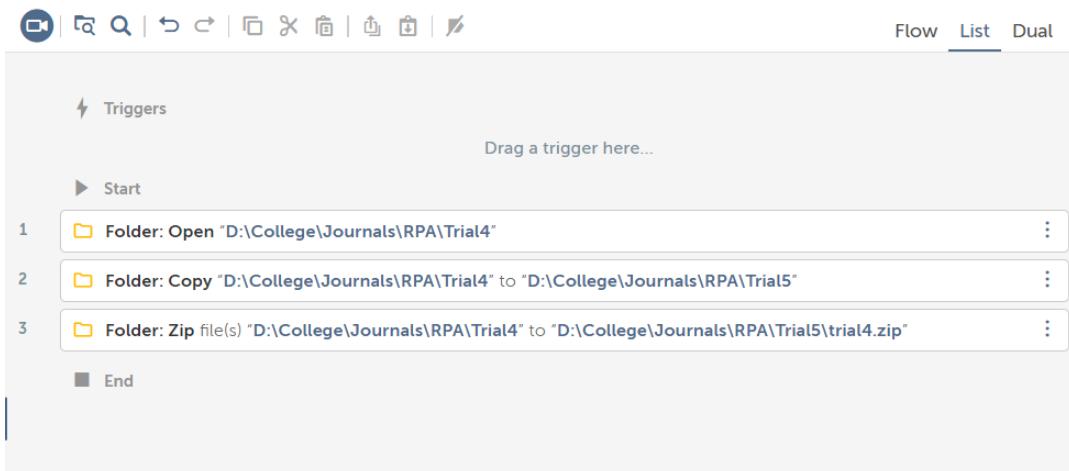
**Output:**A screenshot of a Microsoft Excel spreadsheet titled "StudentDetails". The data is organized into columns: Name, RollNo, and Marks. The rows contain the following data:

|   | A        | B      | C     | D | E | F | G |
|---|----------|--------|-------|---|---|---|---|
| 1 | Name     | RollNo | Marks |   |   |   |   |
| 2 | Manish   | 102    | 46    |   |   |   |   |
| 3 | Abhinav  | 76     | 50    |   |   |   |   |
| 4 | Kartik   | 108    | 78    |   |   |   |   |
| 5 | Trushank | 106    | 76    |   |   |   |   |
| 6 | Rohit    | 99     | 90    |   |   |   |   |
| 7 |          |        |       |   |   |   |   |
| 8 |          |        |       |   |   |   |   |

The "Home" tab is selected in the ribbon. The font settings show "Calibri" and "11". The formula bar shows "C7".

## Bot to copy files from one folder to another.

### Process:



### Folder: Copy

#### Folder: Open

Opens a folder from a specified location

Required bot agent version: 20.11 or above

#### Folder

(x)

e.g. C:\MyFolder

Copies an existing folder to a specified location

Required bot agent version: 20.11 or above

#### Source folder

(x)

e.g. C:\MyDoc

#### Destination folder

(x)

e.g. C:\Backup

Overwrite existing files/folders

Size

▼

#### Size (KB)

(x)

Date

▼

▼

**Folder: Zip**

Compresses files and folders into a .zip format

Required bot agent version: 20.11 or above

Specify file(s)/folder(s) to compress

 D:\College\Journals\RPA\Trial4 

e.g. C:\My Folder\

Specify file type(s) to compress

 String  Regex " "

Only files of the specified type will be compressed. Separate different file types using semicolon e.g. \*.doc or \*.doc;\*.txt

Specify destination filename and location

 D:\College\Journals\RPA\Trial5\trial 

Required extension: ".zip"

e.g. C:\My Folder\myfile.zip

 Update only if newer Delete original files

Compression

 ▾

Password protection (optional)

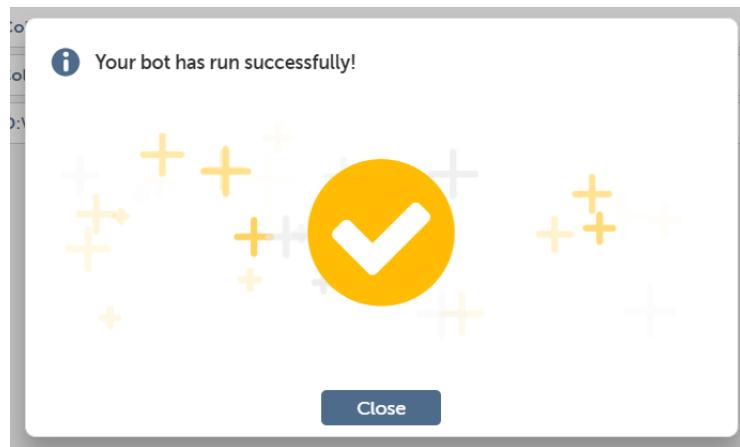
 Credential  Variable  Insecure string

&gt; This PC &gt; New Volume (D:) &gt; College &gt; Journals &gt; RPA &gt; Trial4

| Name  | Date modified    | Type          | Size |
|-------|------------------|---------------|------|
| trial | 29-06-2023 17:25 | Text Document | 1 KB |

&gt; This PC &gt; New Volume (D:) &gt; College &gt; Journals &gt; RPA &gt; Trial5

| Name | Date modified         | Type | Size |
|------|-----------------------|------|------|
| —    | This folder is empty. |      |      |

Output:

| File Explorer View |          |                  |                      |      |
|--------------------|----------|------------------|----------------------|------|
|                    | Name     | Date modified    | Type                 | Size |
| nal                | 📁 Trial4 | 29-06-2023 18:40 | File folder          |      |
| —                  | 📁 trial4 | 29-06-2023 18:40 | Compressed (zipp...) | 1 KB |

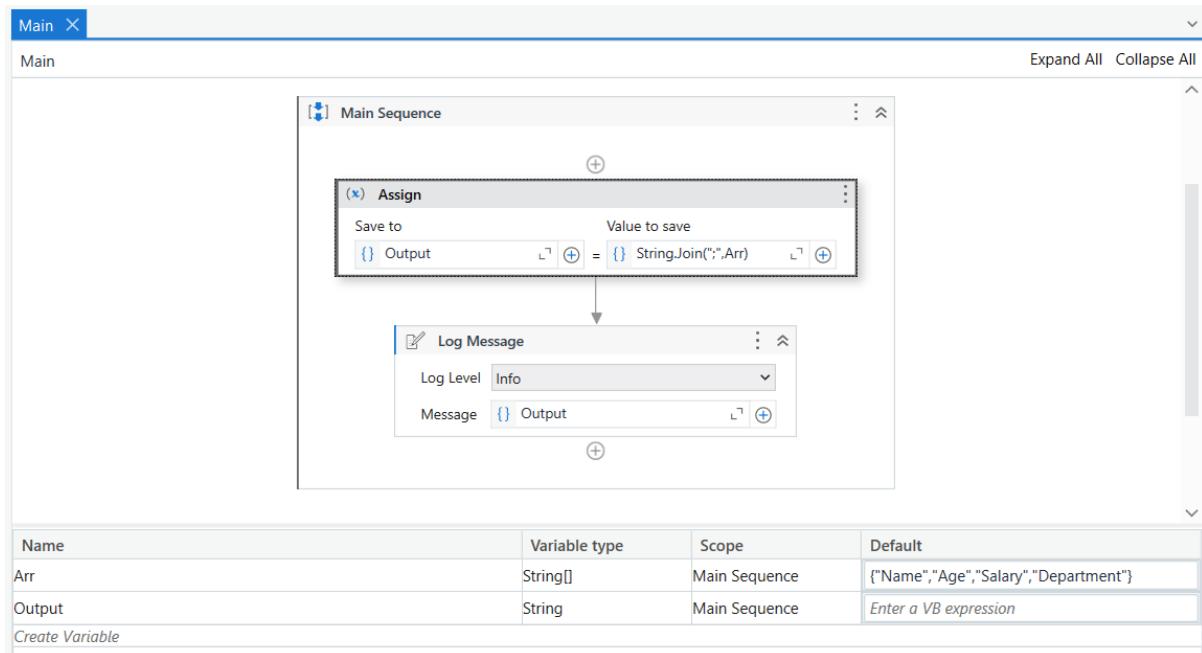
| File Explorer View |       |                  |               |  |
|--------------------|-------|------------------|---------------|--|
|                    | Name  | Date modified    | Type          |  |
| ial                | trial | 29-06-2023 17:25 | Text Document |  |

## CATEGORY 4

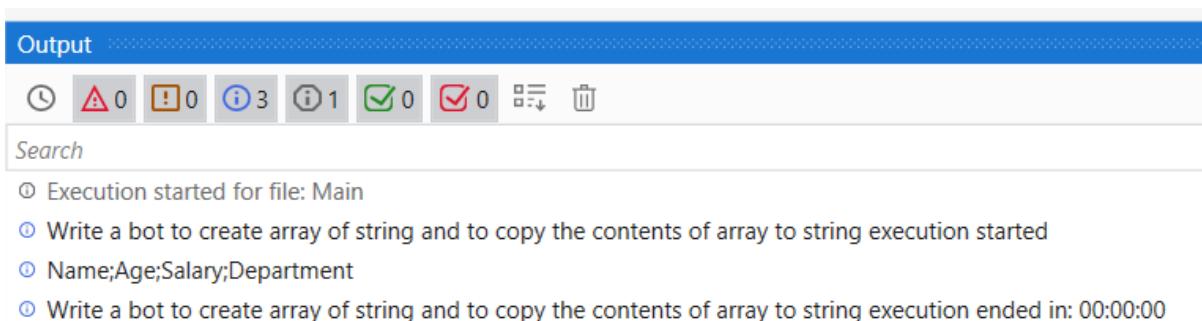
### UiPath:

 **Demonstrate array variable with different functions.**

#### Process:

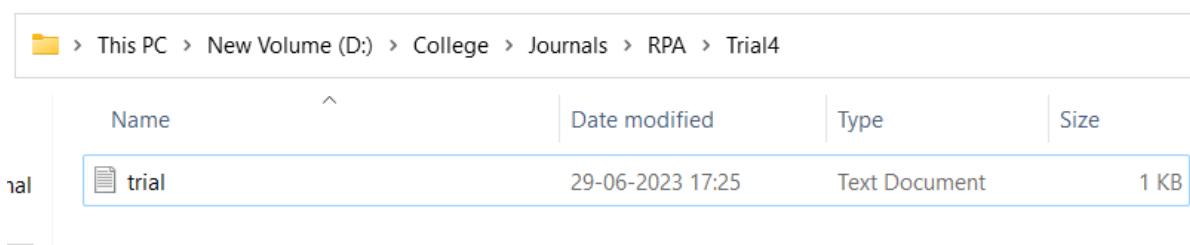
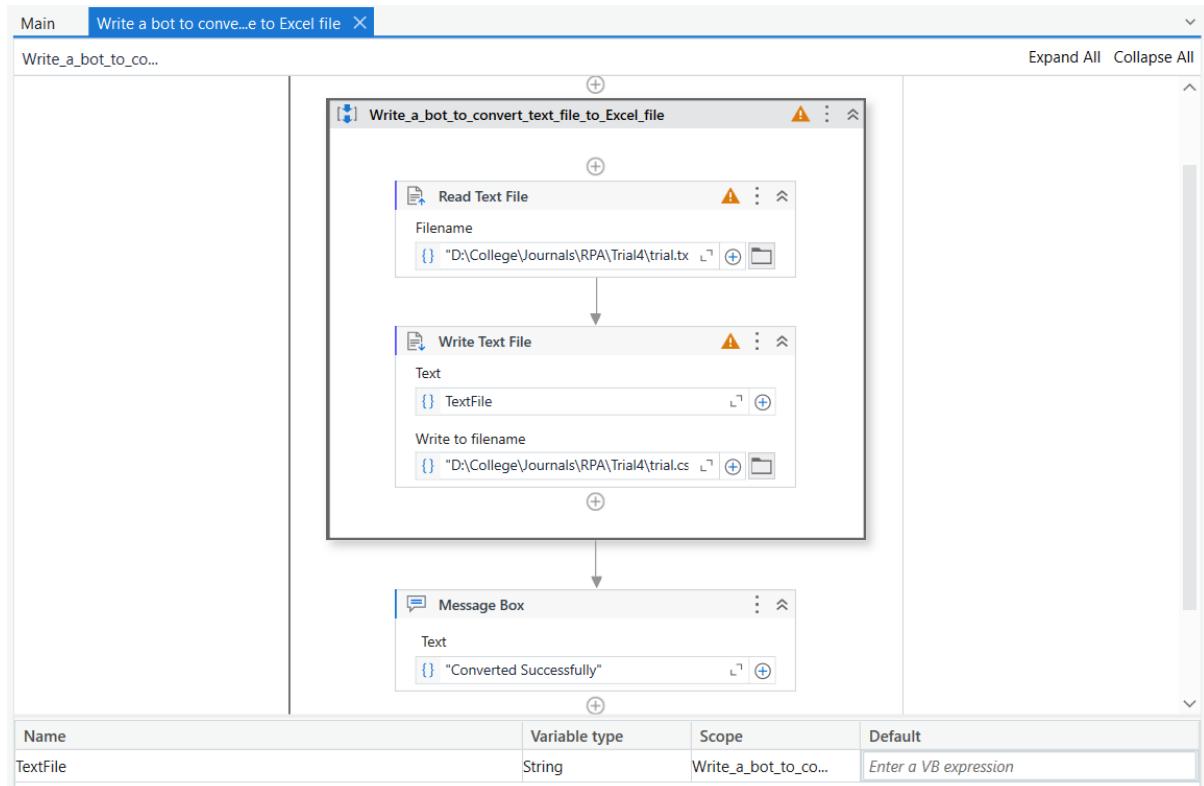


#### Output:

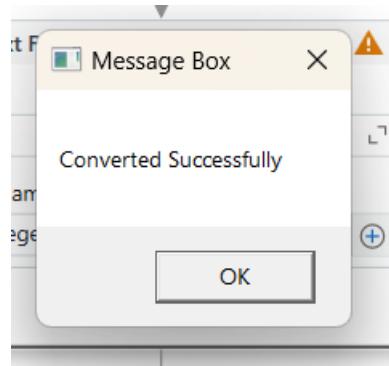


## Write a bot to convert text file to Excel file.

### Process:



### Output:

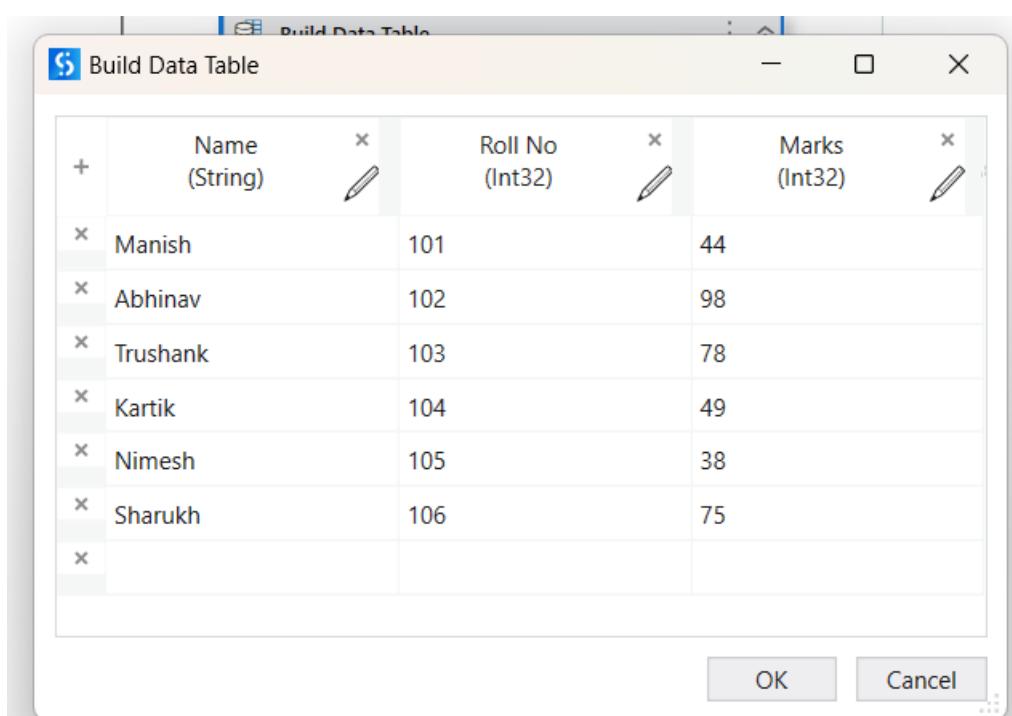
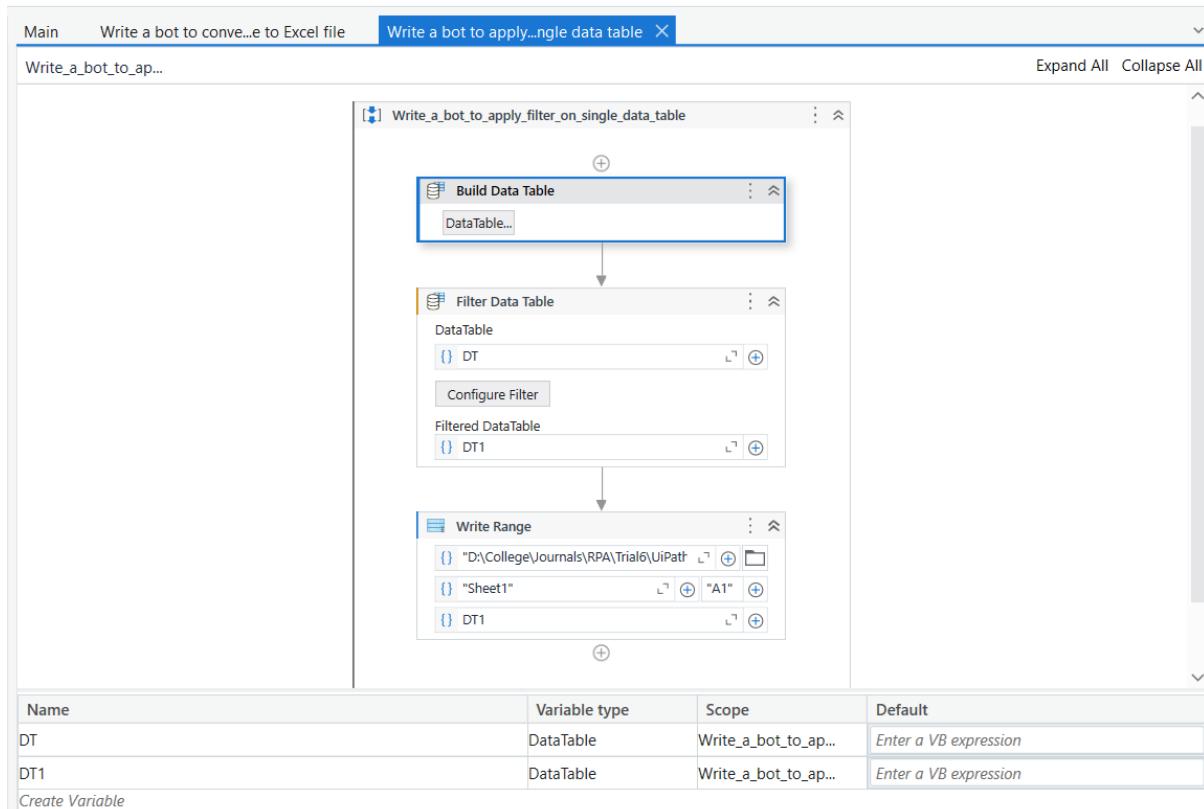


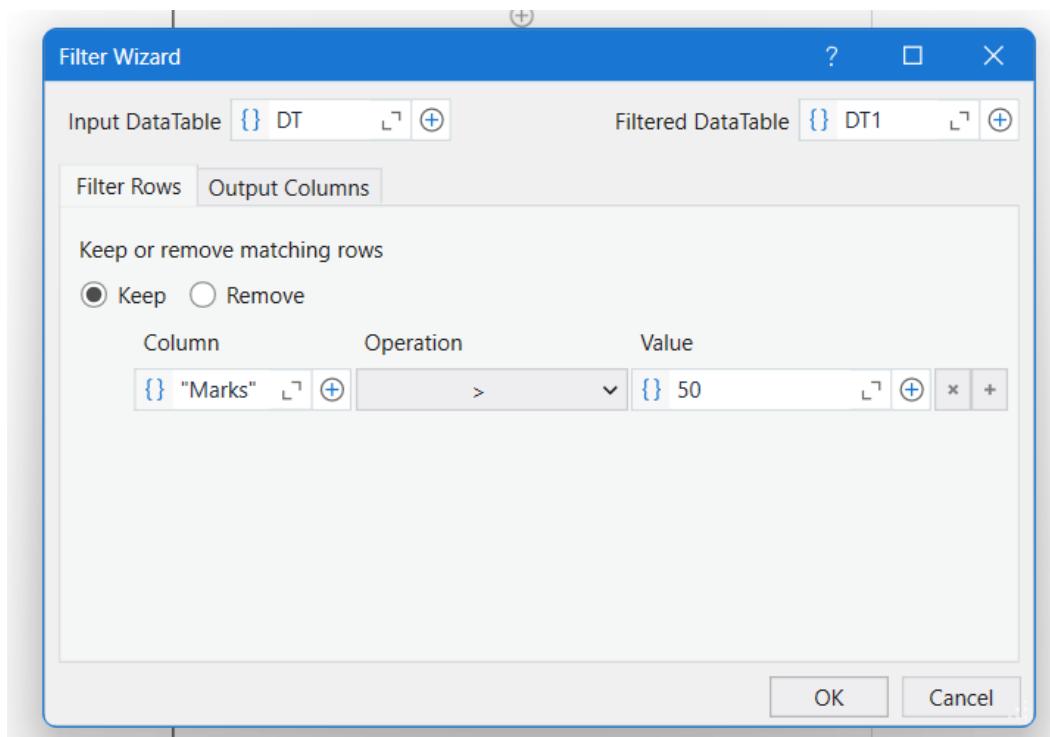
File > This PC > New Volume (D:) > College > Journals > RPA > Trial4

| Name  | Date modified    | Type                  | Size |
|-------|------------------|-----------------------|------|
| trial | 29-06-2023 21:03 | Microsoft Excel Co... | 1 KB |
| trial | 29-06-2023 17:25 | Text Document         | 1 KB |

## Write a bot to apply filter on single data table.

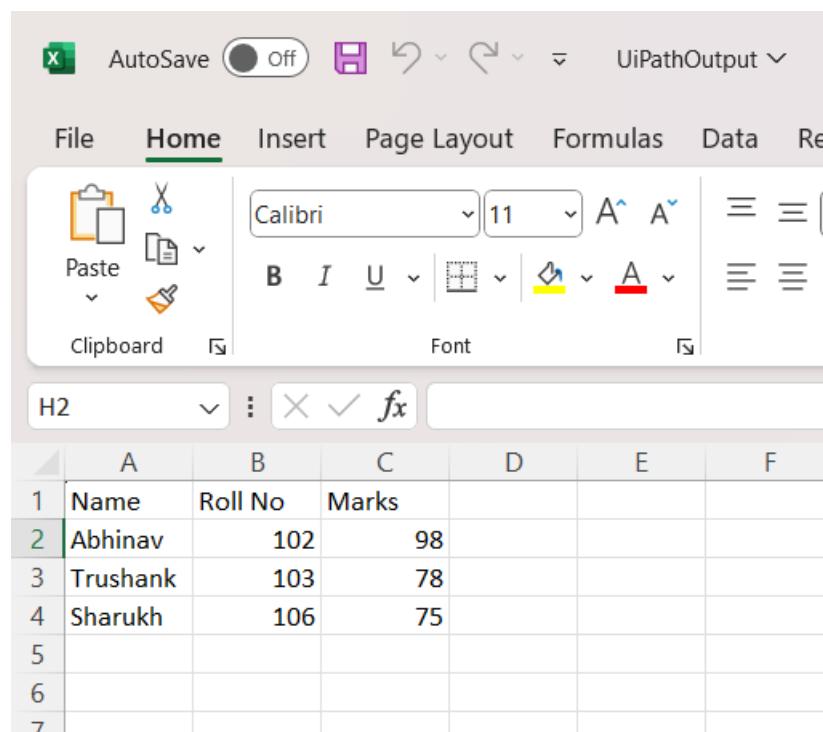
Process:





The screenshot shows a Microsoft Excel spreadsheet. The ribbon is visible with tabs for File, Home, Insert, Page Layout, Formulas, Data, and Re. The 'Home' tab is selected. The 'Clipboard' group on the ribbon shows 'Paste' and 'Clipboard' buttons. The 'Font' group shows 'Calibri' and '11' font settings, along with bold (B), italic (I), underline (U), and other font style buttons. The main area shows a table with columns A through F and rows 1 through 10. Row 2 is currently selected. The table data is as follows:

|    | A | B | C | D | E | F |
|----|---|---|---|---|---|---|
| 1  |   |   |   |   |   |   |
| 2  |   |   |   |   |   |   |
| 3  |   |   |   |   |   |   |
| 4  |   |   |   |   |   |   |
| 5  |   |   |   |   |   |   |
| 6  |   |   |   |   |   |   |
| 7  |   |   |   |   |   |   |
| 8  |   |   |   |   |   |   |
| 9  |   |   |   |   |   |   |
| 10 |   |   |   |   |   |   |

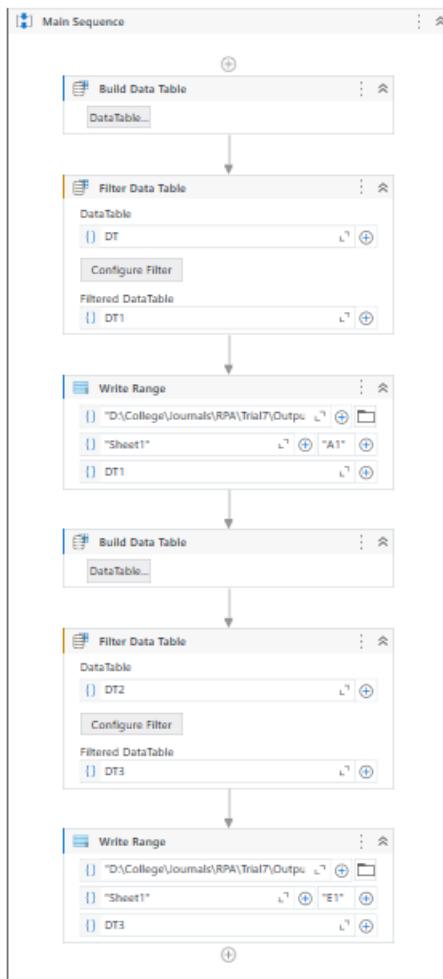
Output:

A screenshot of Microsoft Excel showing a table with student data. The table has columns labeled A, B, C, D, E, and F. The data is as follows:

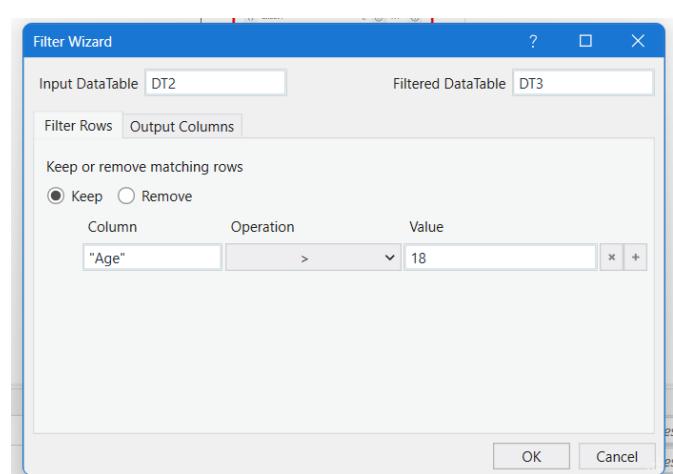
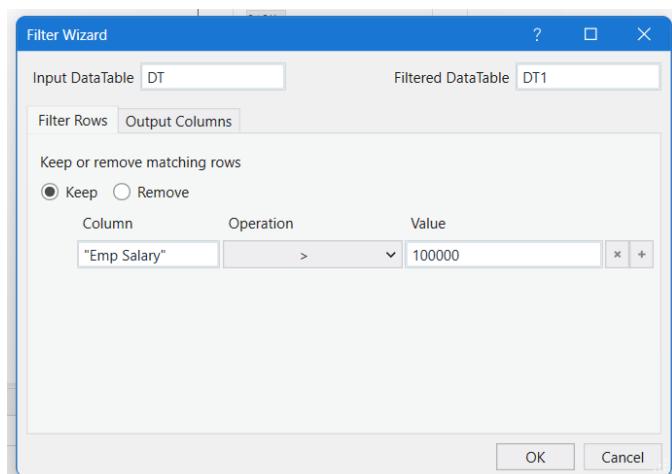
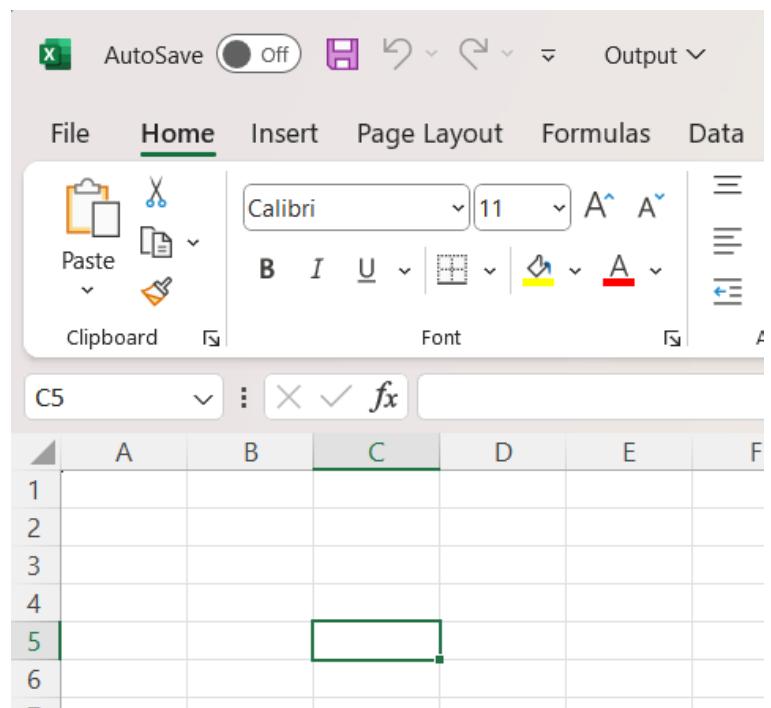
|   | Name     | Roll No | Marks |  |  |
|---|----------|---------|-------|--|--|
| 1 | Abhinav  | 102     | 98    |  |  |
| 2 | Trushank | 103     | 78    |  |  |
| 3 | Sharukh  | 106     | 75    |  |  |
| 4 |          |         |       |  |  |
| 5 |          |         |       |  |  |
| 6 |          |         |       |  |  |
| 7 |          |         |       |  |  |

## Write a bot to apply filter on two data table.

Process:



| Name            | Variable type |
|-----------------|---------------|
| DT              | DataTable     |
| DT1             | DataTable     |
| DT2             | DataTable     |
| DT3             | DataTable     |
| Create Variable |               |



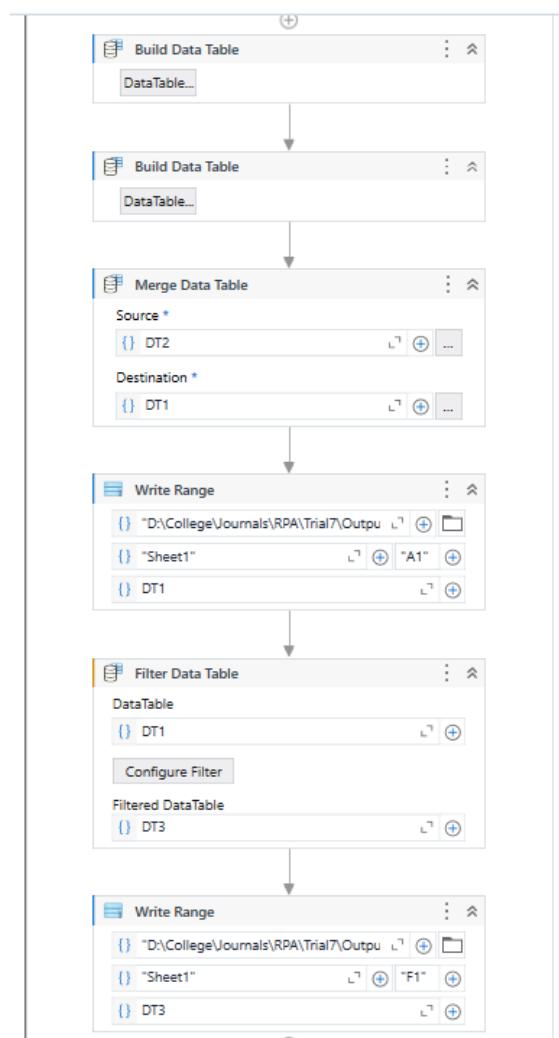
Output:

The screenshot shows a Microsoft Excel spreadsheet titled "RPA Jurnal". The ribbon menu is visible at the top, with "Home" selected. The "Clipboard" group shows "Paste" dropdown and a small orange icon. The "Font" group shows "Calibri" font, size "11", bold "B", italic "I", underline "U", and alignment icons. The "Alignment" group shows horizontal and vertical alignment, and a "Wrap Text" icon. The formula bar shows "D7". The table has columns A through G. Row 1 contains headers: "Emp ID", "Emp Name", "Emp Salary", "Name", and "Age". Rows 2, 3, and 4 contain data: (1104, Kartik, 123000, Abhinav, 23), (1105, Trushank, 100990, Nimesh, 25), and (Rohit, 29). Row 7 is empty, and row 8 is also empty. Cell D7 is currently selected.

|   | A      | B        | C          | D       | E   | F | G |
|---|--------|----------|------------|---------|-----|---|---|
| 1 | Emp ID | Emp Name | Emp Salary | Name    | Age |   |   |
| 2 | 1104   | Kartik   | 123000     | Abhinav | 23  |   |   |
| 3 | 1105   | Trushank | 100990     | Nimesh  | 25  |   |   |
| 4 |        |          |            | Rohit   | 29  |   |   |
| 5 |        |          |            |         |     |   |   |
| 6 |        |          |            |         |     |   |   |
| 7 |        |          |            |         |     |   |   |
| 8 |        |          |            |         |     |   |   |

 **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.**

Process:



Build Data Table

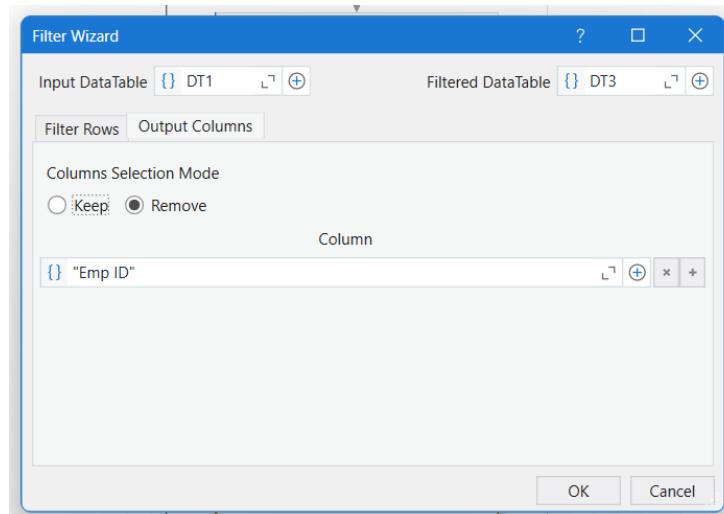
|   | Emp ID (Int32) | Emp Name (String) |
|---|----------------|-------------------|
| x | 1000           | Manish            |
| x | 1001           | Abhinav           |
| x | 1002           | Trushank          |
| x | 1003           | Kartik            |
| x | 1004           | Rohit             |
| x |                |                   |

OK Cancel

Build Data Table

|   | Emp ID (Int32) | Emp Name (String) |
|---|----------------|-------------------|
| x | 1005           | Nimesh            |
| x | 1006           | Mathe             |
| x | 1007           | Siddhesh          |
| x | 1008           | Vinayak           |
| x | 1009           | Ritesh            |
| x |                |                   |

OK Cancel



| Name                            | Variable type | Scope                | Default               |
|---------------------------------|---------------|----------------------|-----------------------|
| DT1                             | DataTable     | Write_a_bot_to_de... | Enter a VB expression |
| DT2                             | DataTable     | Write_a_bot_to_de... | Enter a VB expression |
| DT3                             | DataTable     | Write_a_bot_to_de... | Enter a VB expression |
| <a href="#">Create Variable</a> |               |                      |                       |

## Output:

The screenshot shows a Microsoft Excel spreadsheet. The ribbon at the top includes 'File', 'Home' (selected), 'Insert', 'Page Layout', 'Formulas', 'Data', 'Review', 'View', and 'Aut'. The 'Home' tab's ribbon has sections for 'Clipboard', 'Font', 'Alignment', and 'Number'. The main area displays a table with data from rows 1 to 12. The columns are labeled A through H. Column A contains 'Emp ID' values like 1000, 1001, etc. Column B contains 'Emp Name' values like Manish, Abhinav, etc. Column F contains the filtered results, which are identical to the 'Emp Name' values in Column B. Row 9 is highlighted with a green border.

| A        | B        | C | D | E | F        | G | H |
|----------|----------|---|---|---|----------|---|---|
| 1 Emp ID | Emp Name |   |   |   | Emp Name |   |   |
| 2 1000   | Manish   |   |   |   | Manish   |   |   |
| 3 1001   | Abhinav  |   |   |   | Abhinav  |   |   |
| 4 1002   | Trushank |   |   |   | Trushank |   |   |
| 5 1003   | Kartik   |   |   |   | Kartik   |   |   |
| 6 1004   | Rohit    |   |   |   | Rohit    |   |   |
| 7 1005   | Nimesh   |   |   |   | Nimesh   |   |   |
| 8 1006   | Mathe    |   |   |   | Mathe    |   |   |
| 9 1007   | Siddhesh |   |   |   | Siddhesh |   |   |
| 10 1008  | Vinayak  |   |   |   | Vinayak  |   |   |
| 11 1009  | Ritesh   |   |   |   | Ritesh   |   |   |
| 12       |          |   |   |   |          |   |   |
| 13       |          |   |   |   |          |   |   |

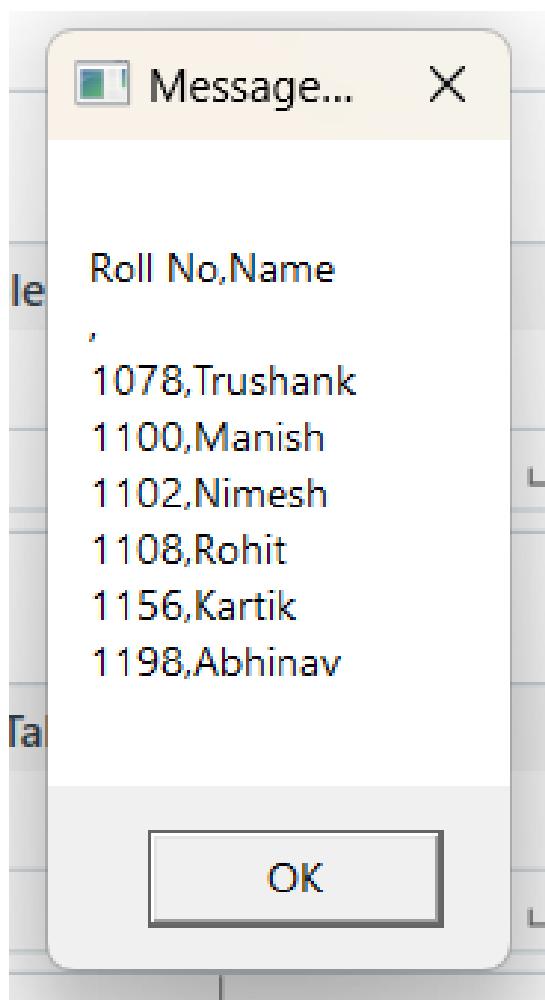
## Write a bot to sort data table.

Process:



| Build Data Table |                  |
|------------------|------------------|
| +                | Roll No (String) |
| x 1100           | Manish           |
| x 1198           | Abhinav          |
| x 1108           | Rohit            |
| x 1078           | Trushank         |
| x 1156           | Kartik           |
| x 1102           | Nimesh           |
| x                |                  |
| x                |                  |
| OK Cancel        |                  |

| Name                   | Variable type | Scope                | Default               |
|------------------------|---------------|----------------------|-----------------------|
| DT                     | DataTable     | Write_a_bot_to_so... | Enter a VB expression |
| DT2                    | String        | Write_a_bot_to_so... | Enter a VB expression |
| DT1                    | DataTable     | Write_a_bot_to_so... | Enter a VB expression |
| <i>Create Variable</i> |               |                      |                       |

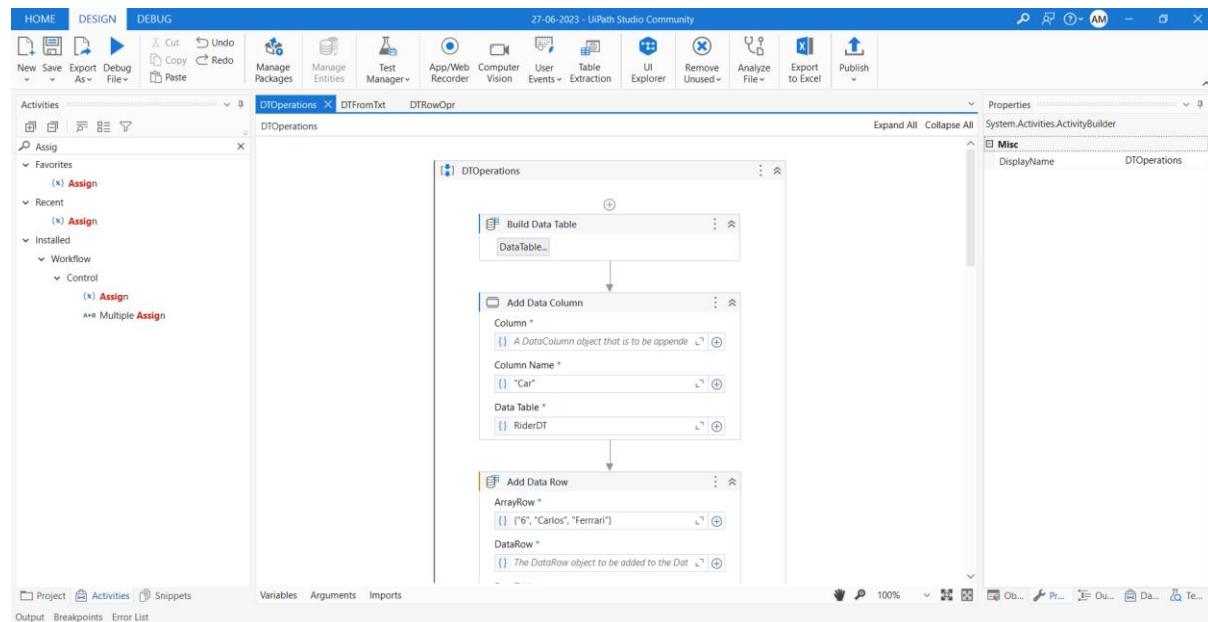
Output:

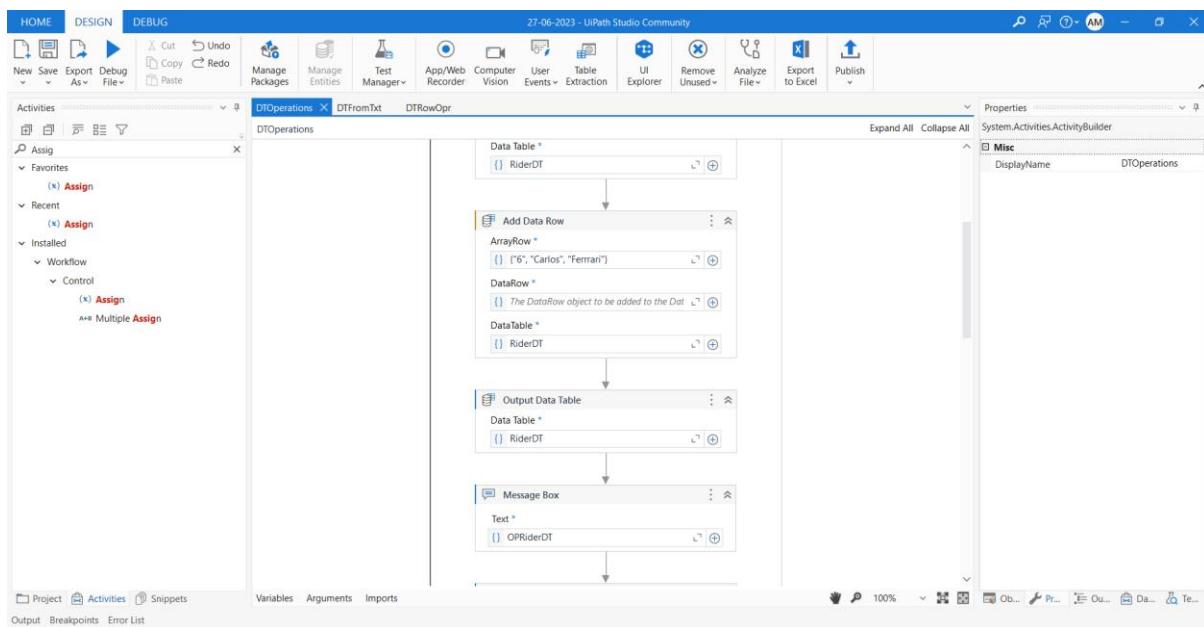
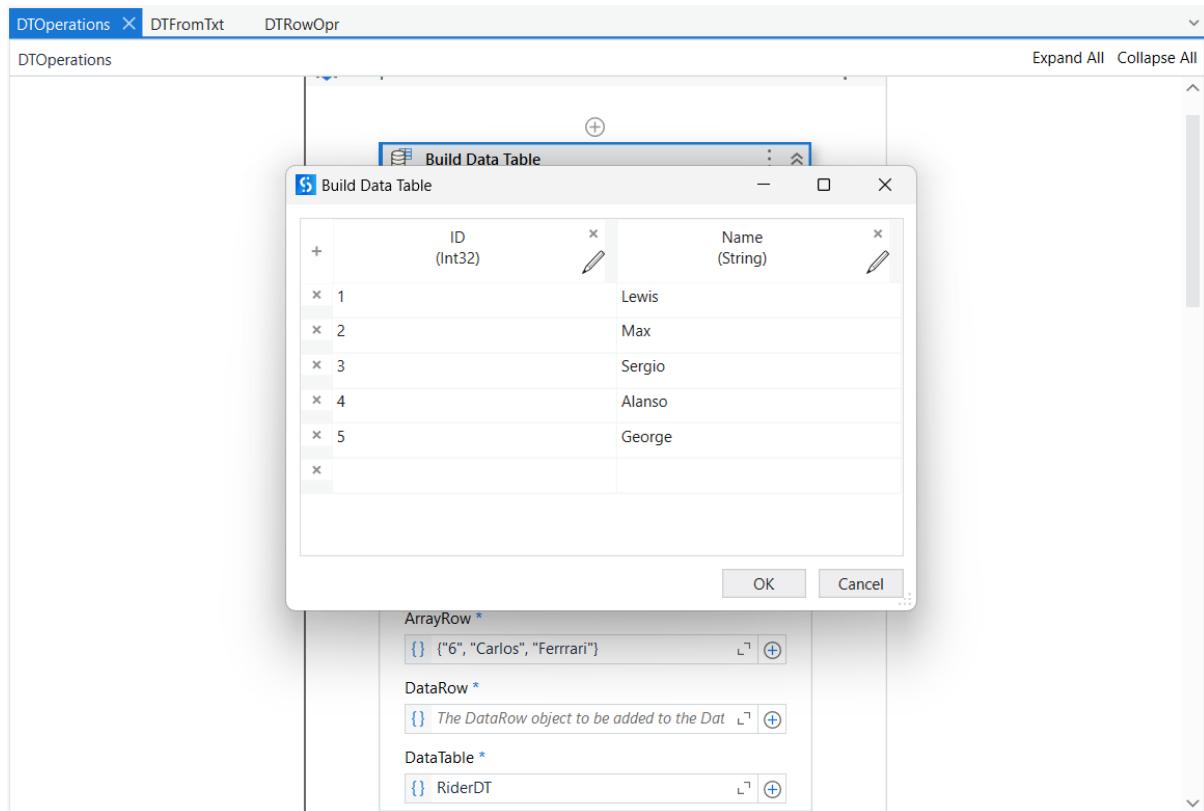
**+ Write a bot to demonstrate the following properties - Add data column, Add data row, Clear Data table, Generate Data table from text, Output data table, Remove Data Column, Remove Data row, Remove Duplicate Rows, Get row item, Update row item.**

### Process:

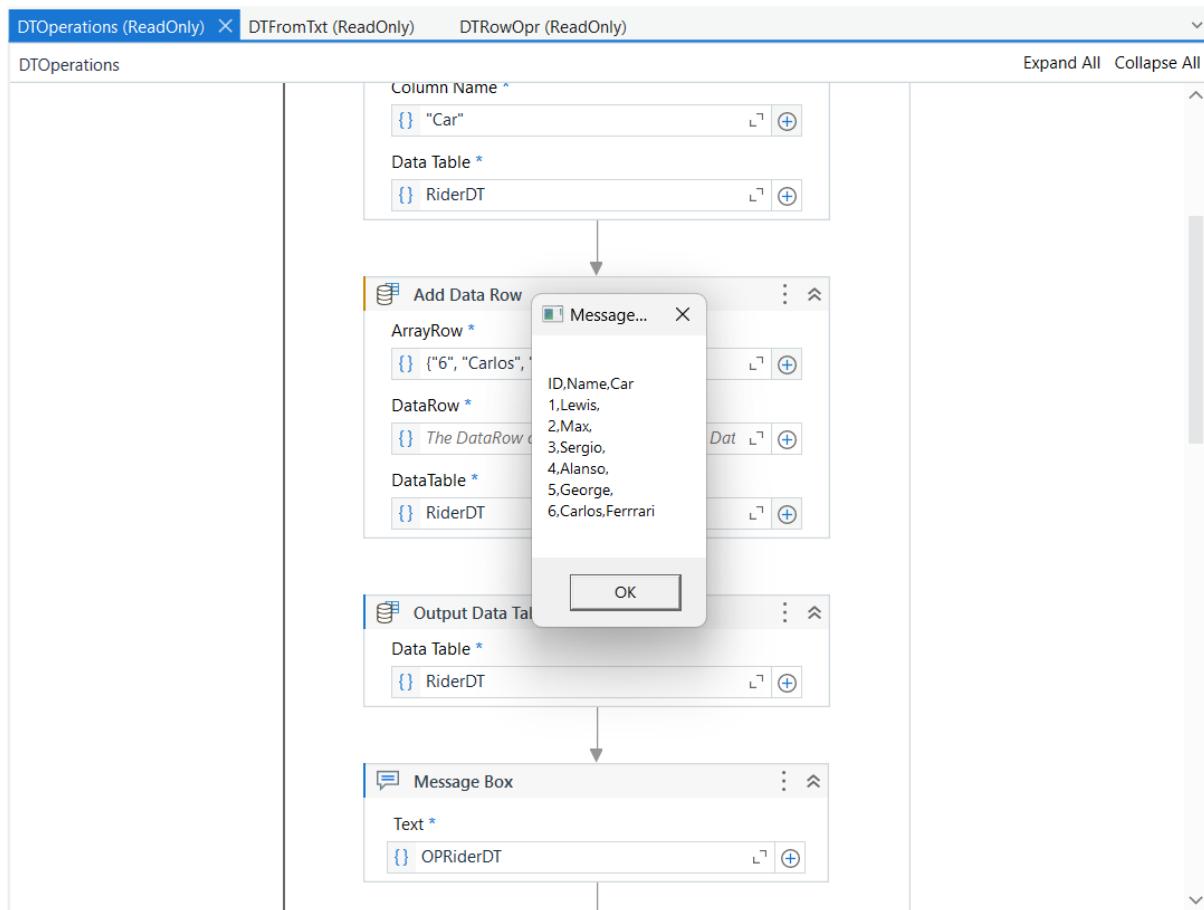
#### 1. Add data column, Add data row

### Process:



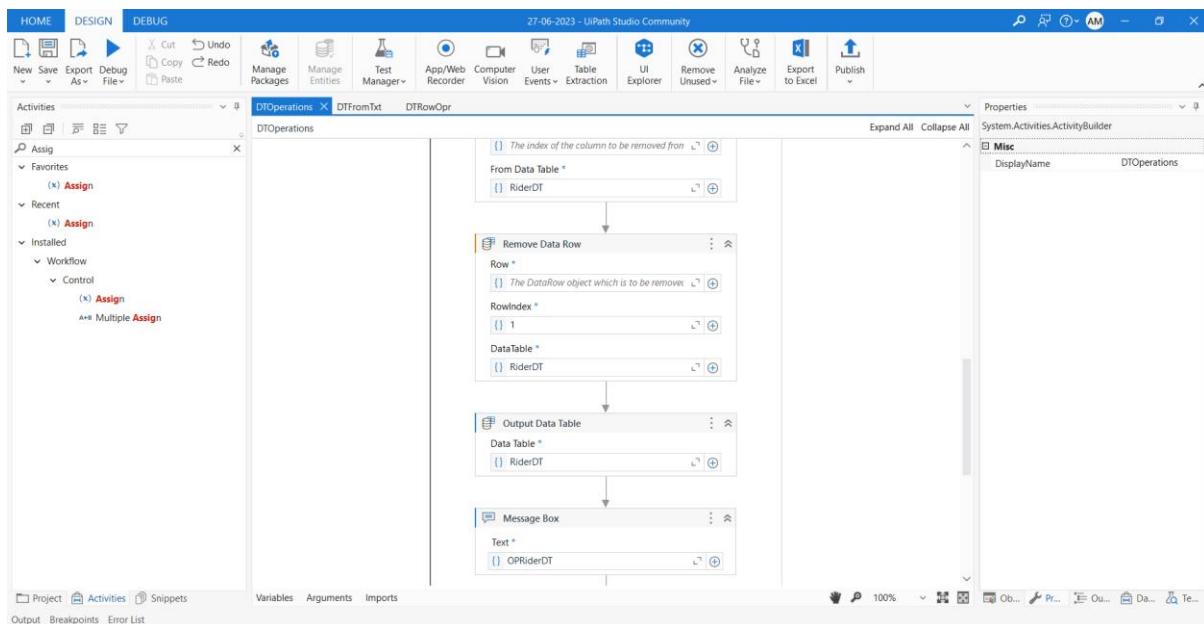
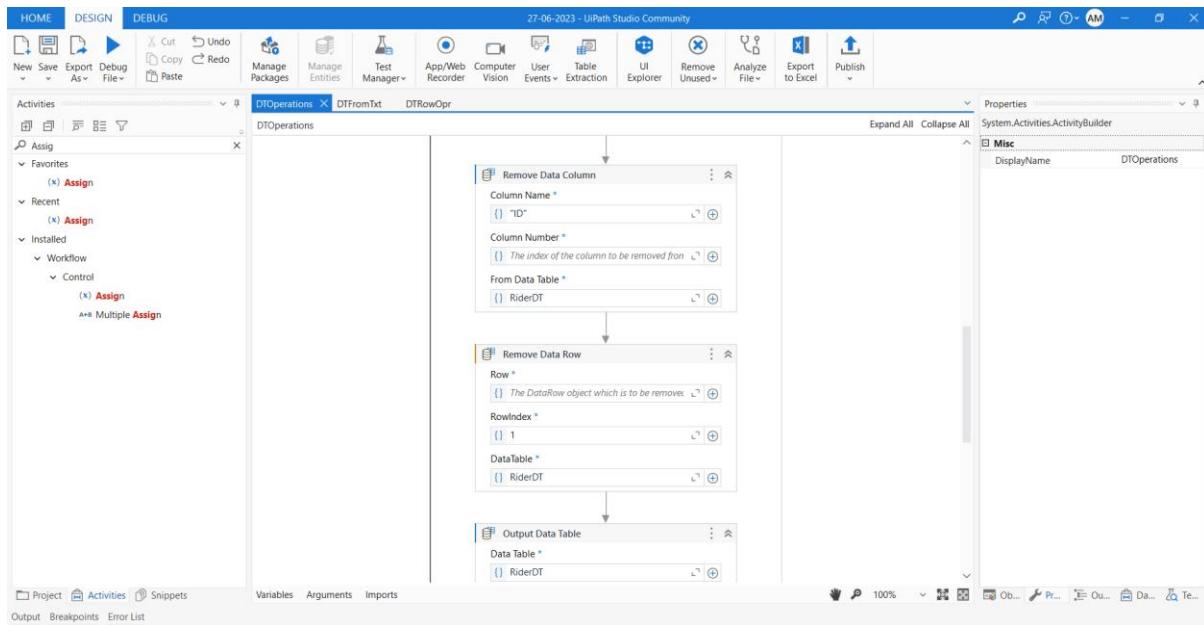


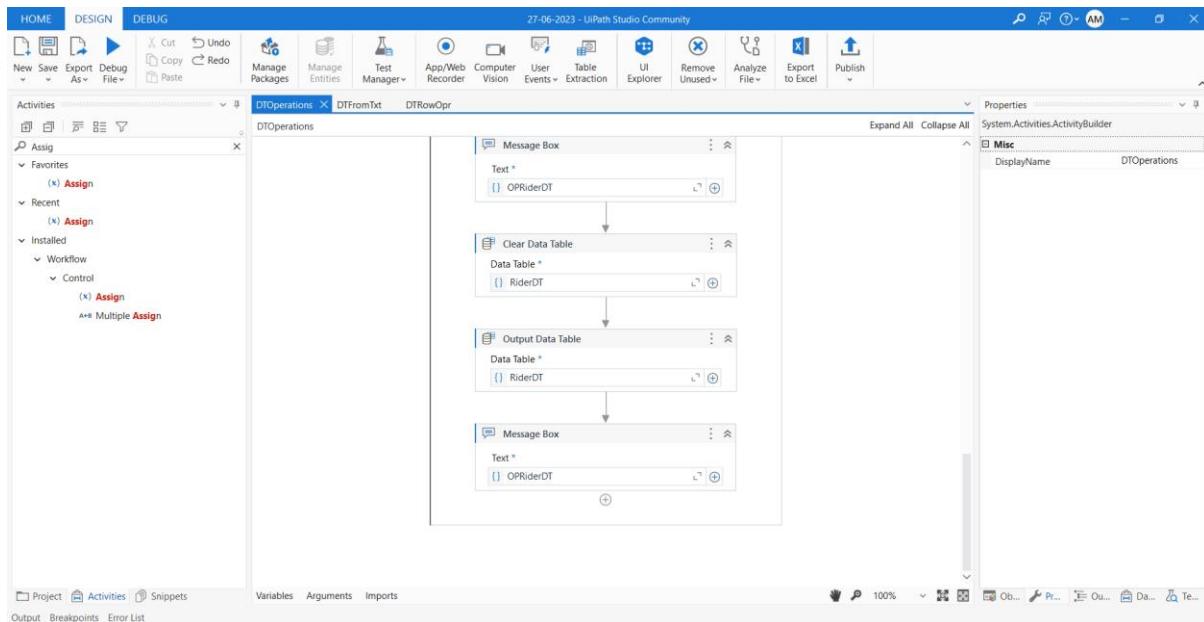
Output:



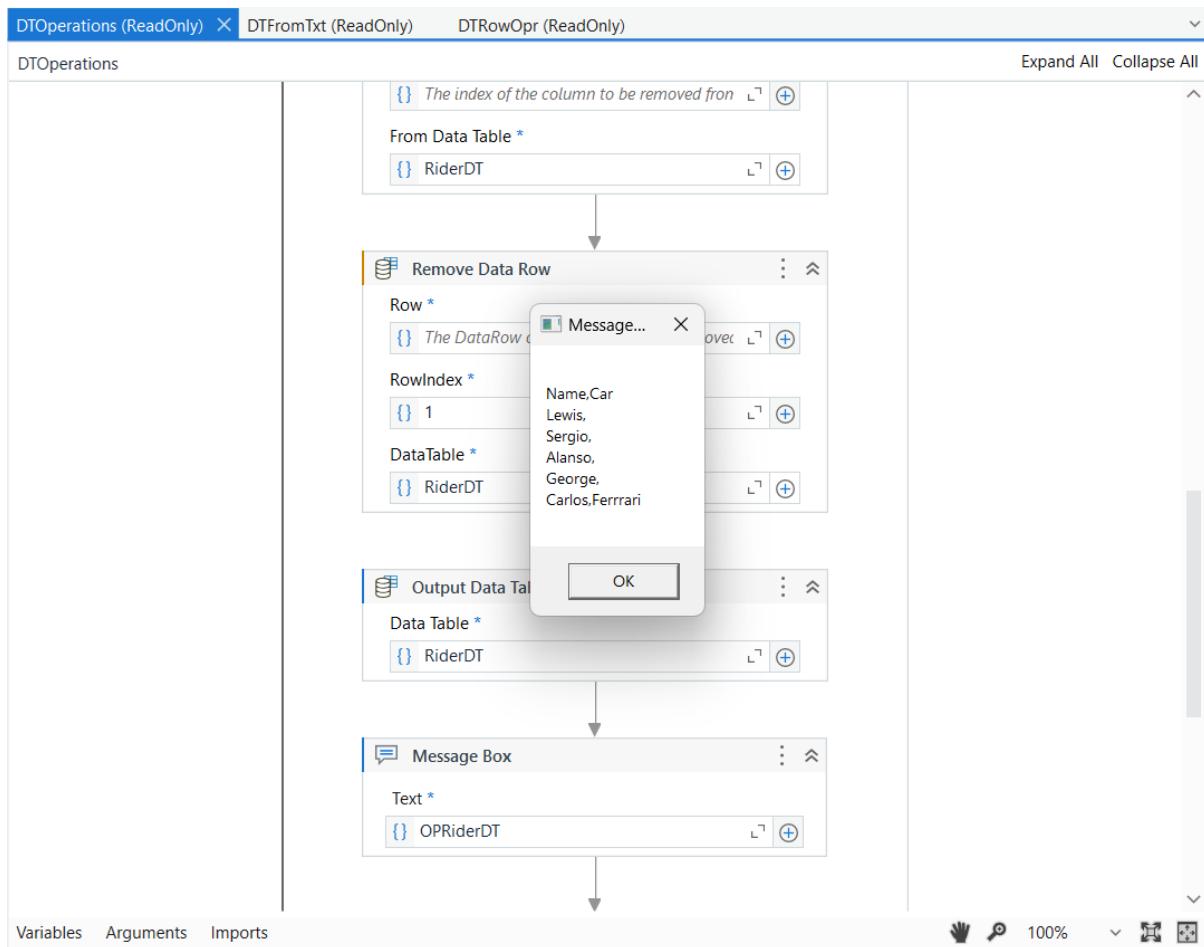
## 2. Remove data column, Remove data row, Clear data table

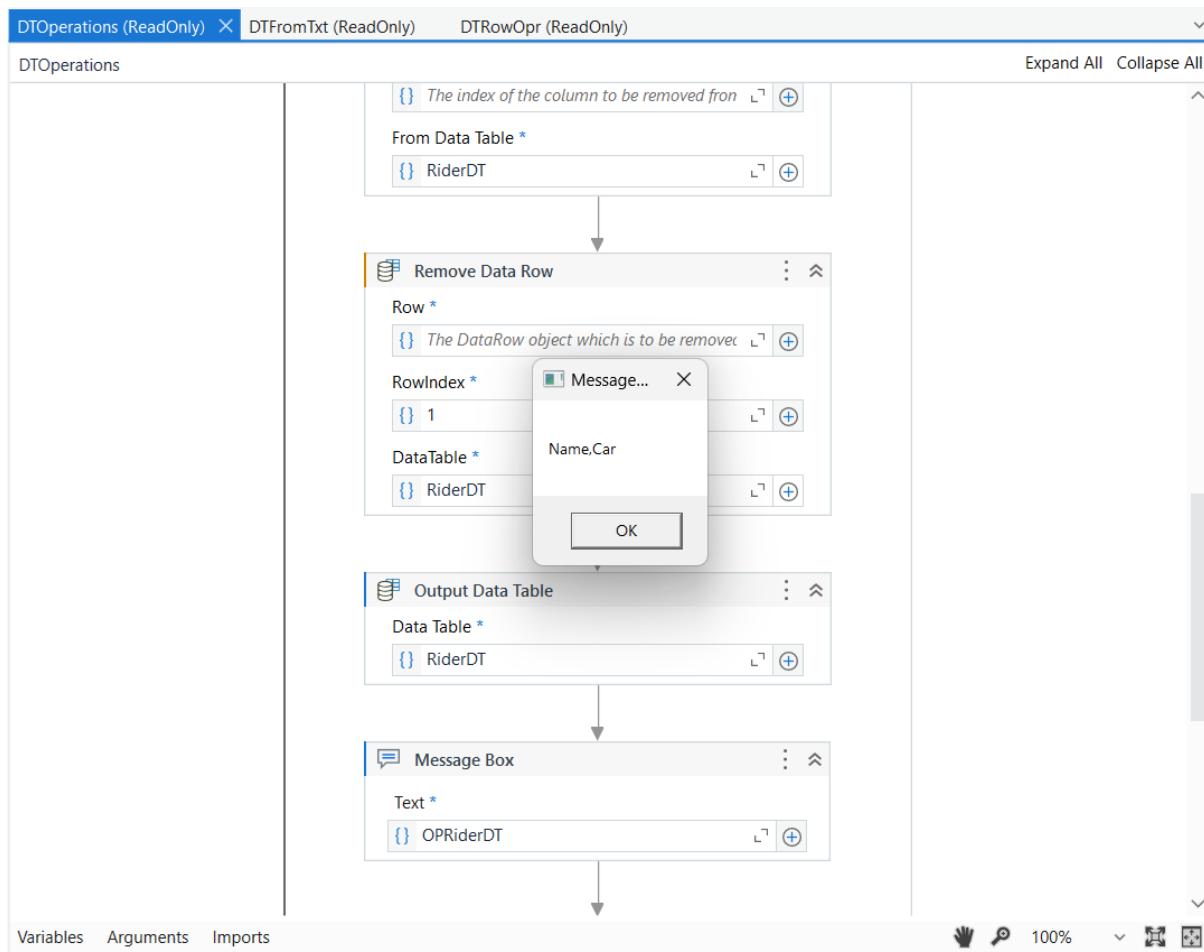
### Process:





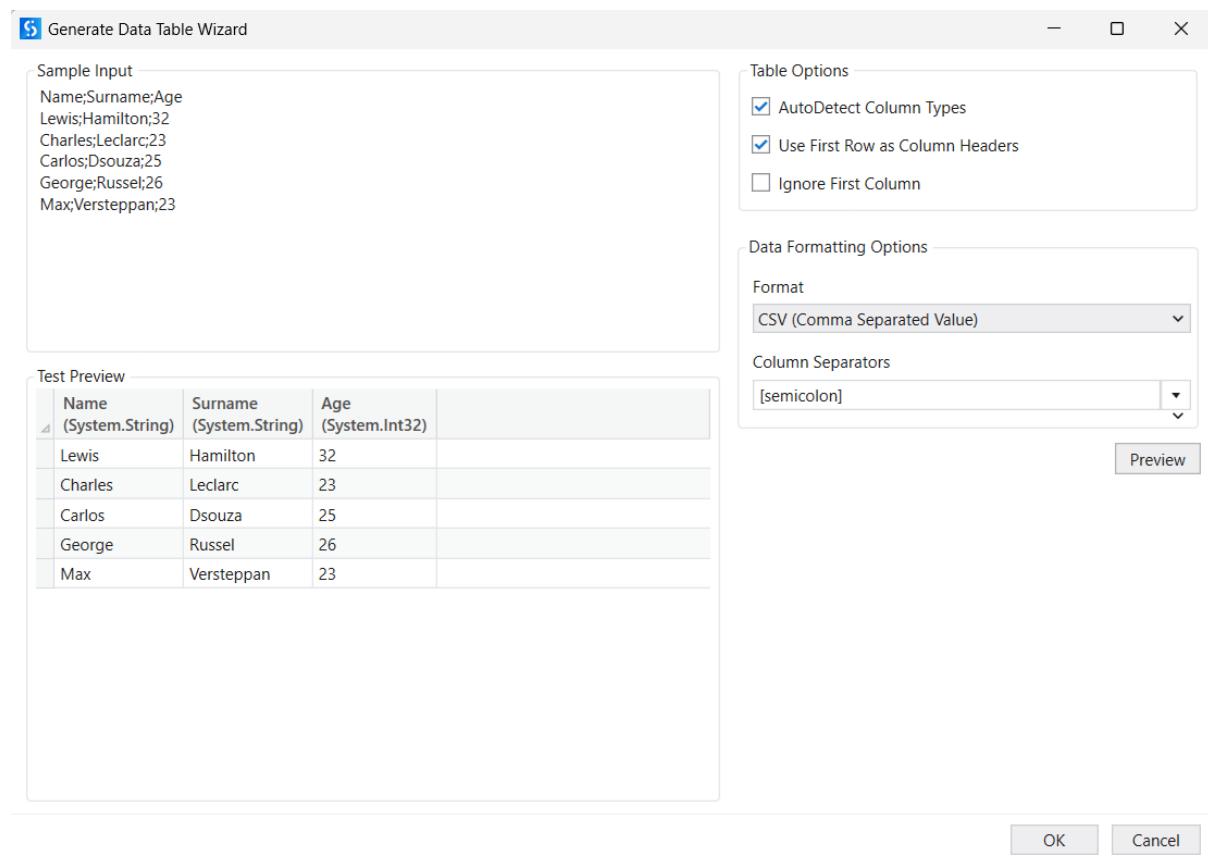
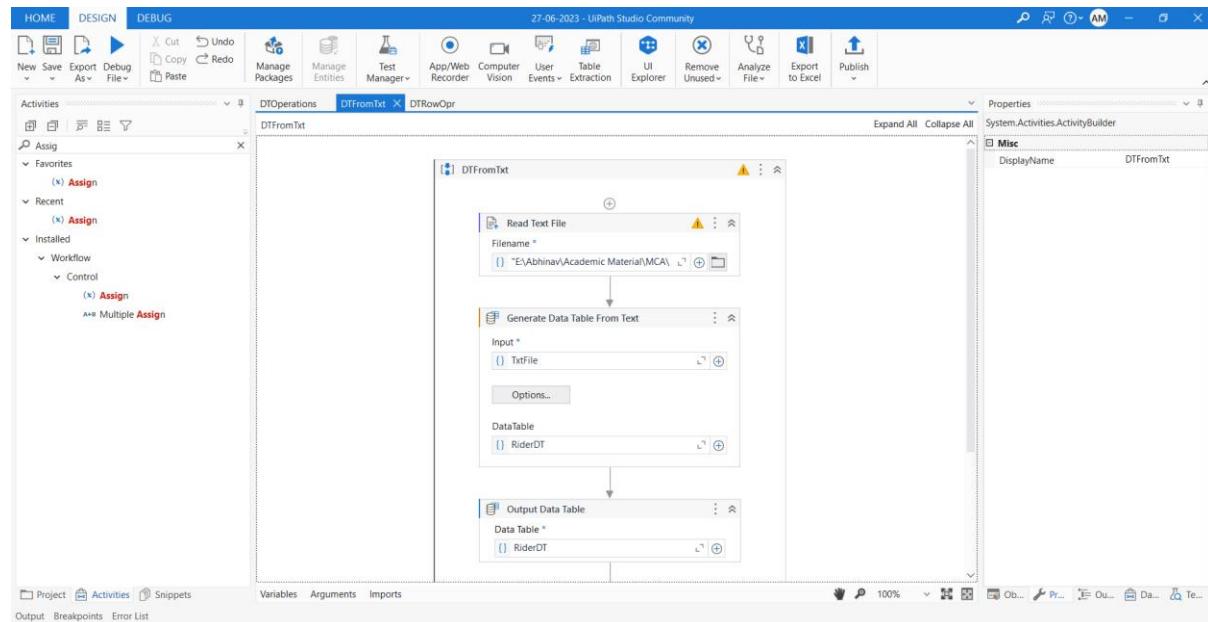
## Output:

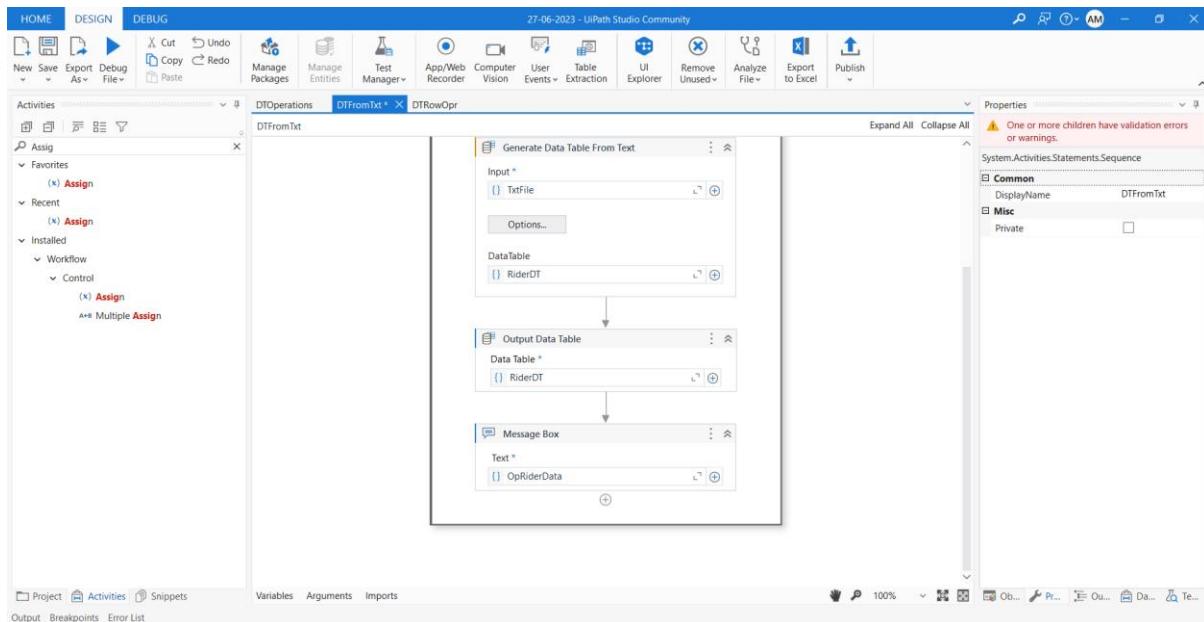




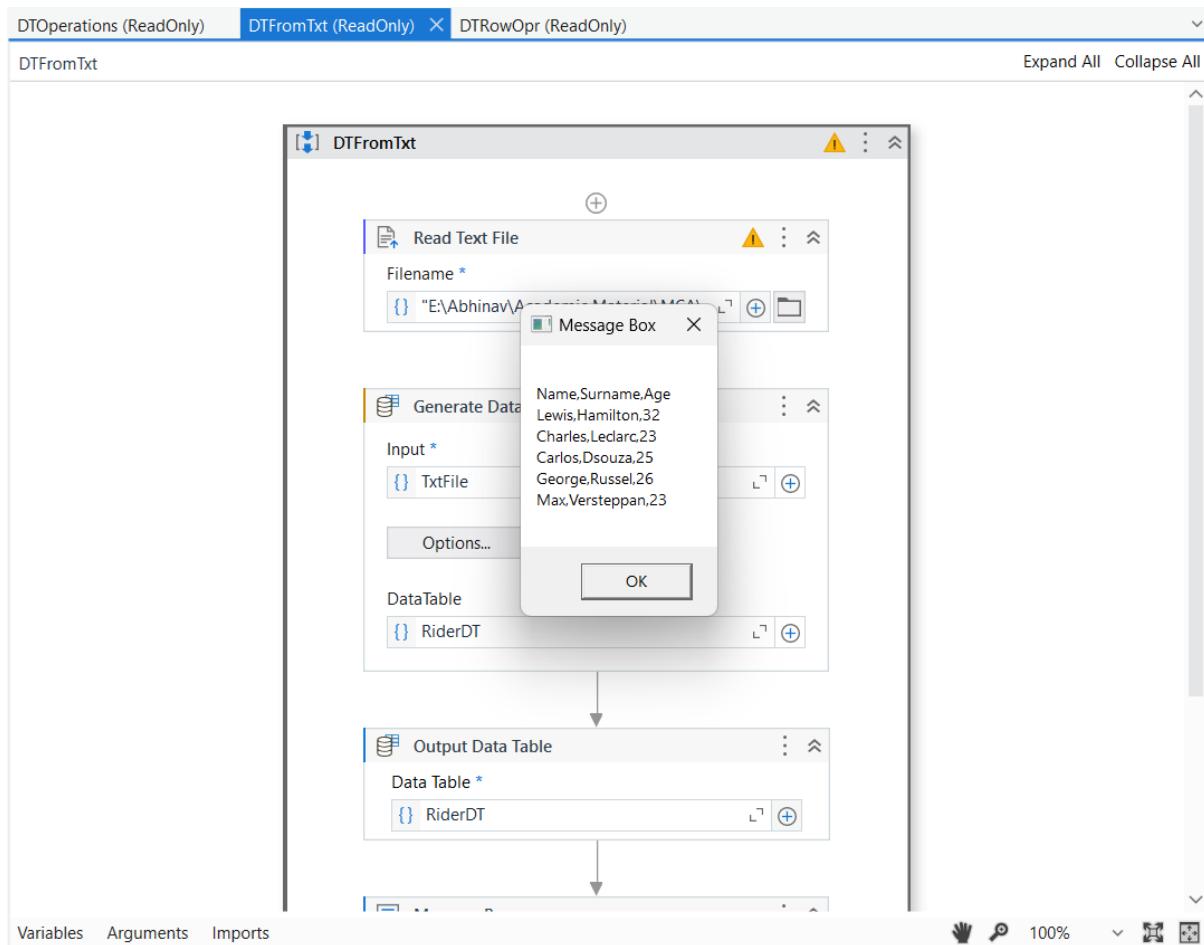
### 3. Generate data table from text, output data table

#### Process:



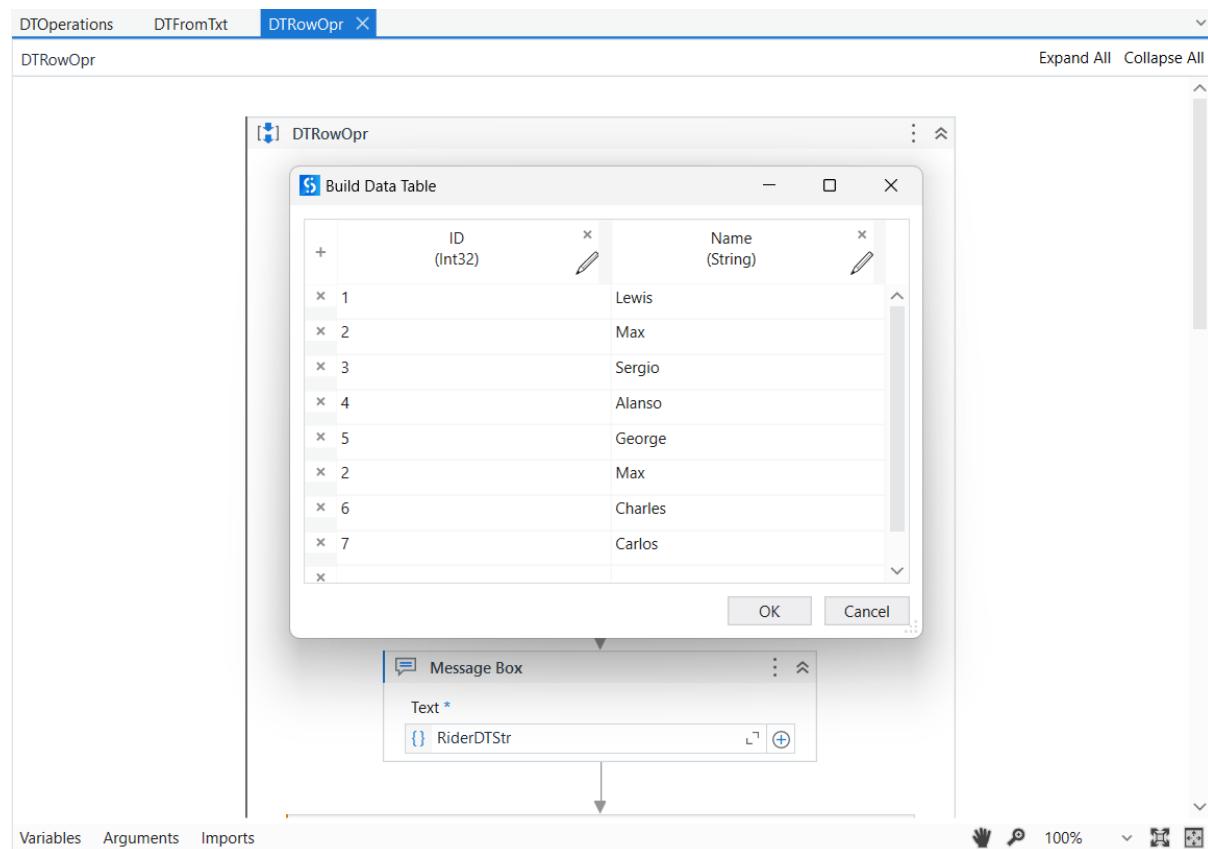
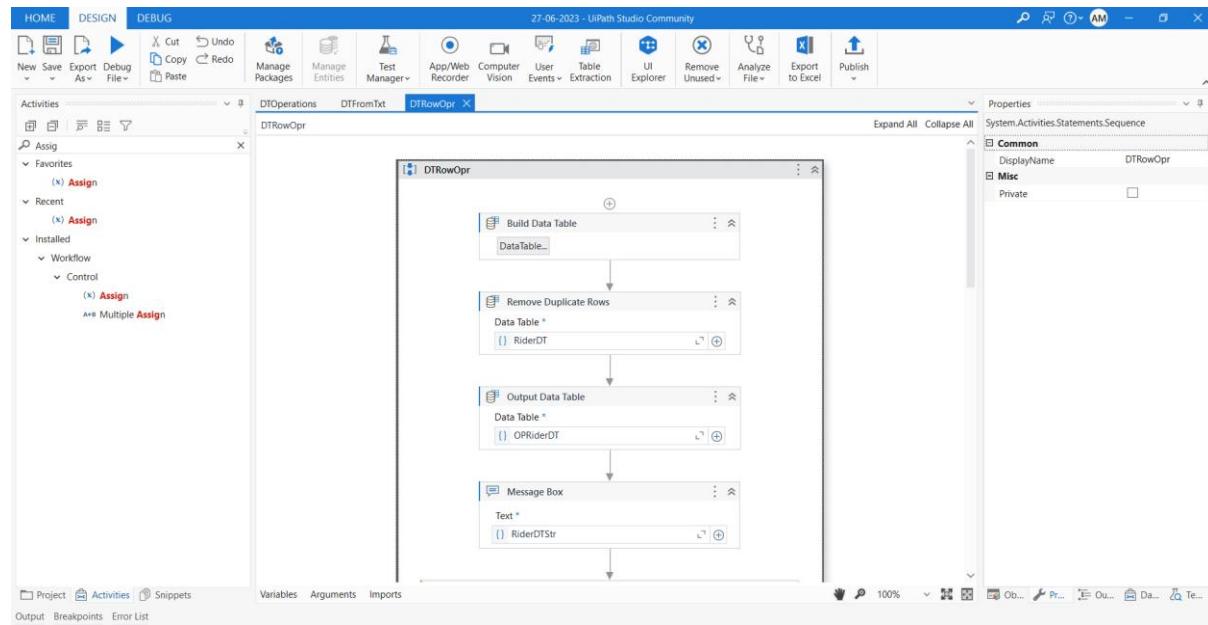


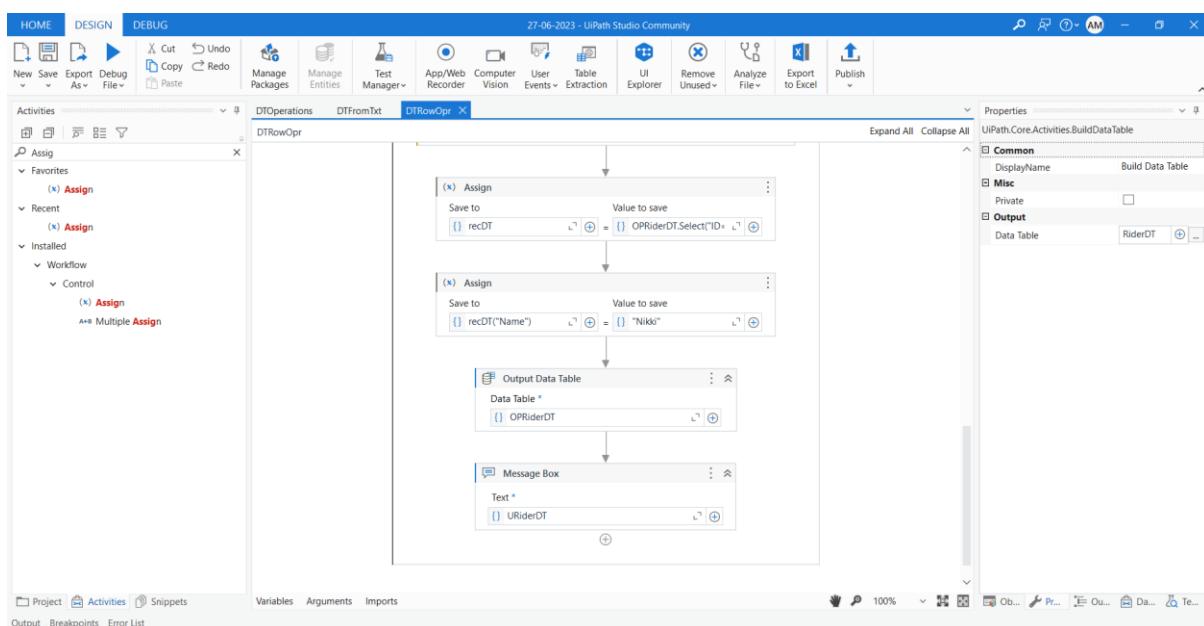
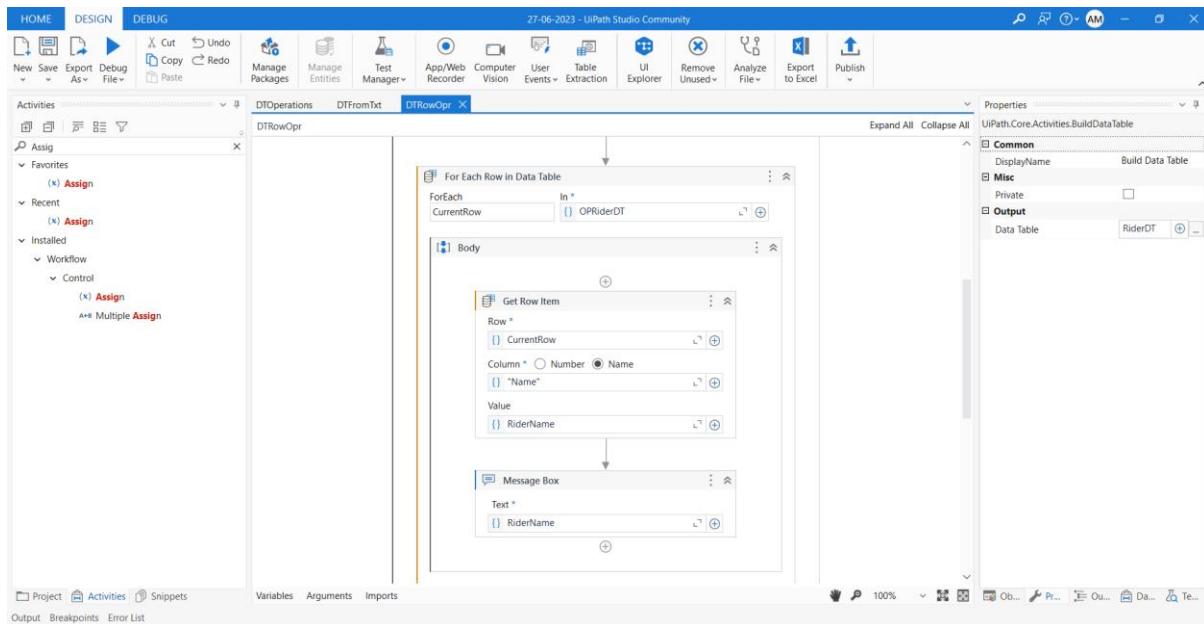
## Output:

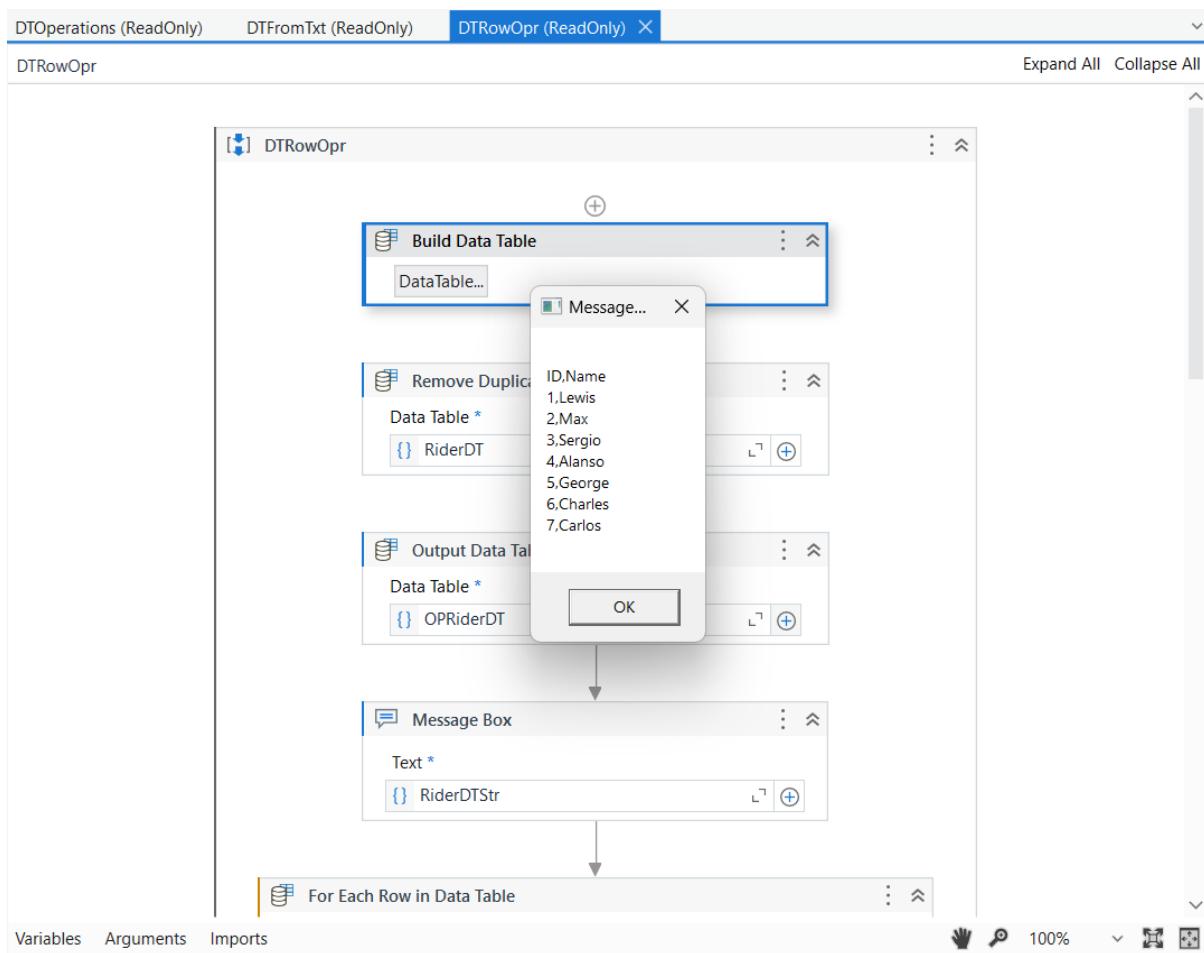


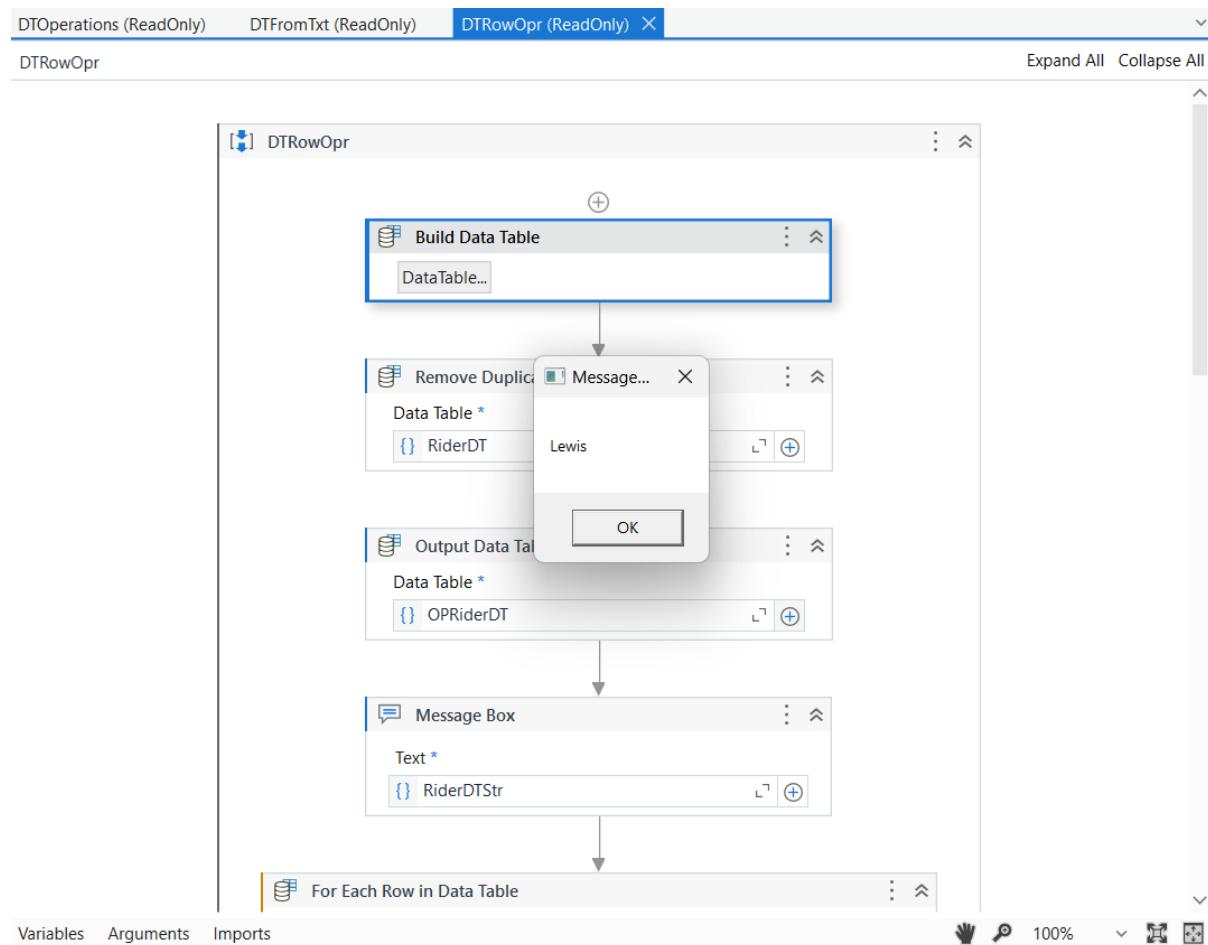
## 4. Remove Duplicate rows, Get row item, Update row item

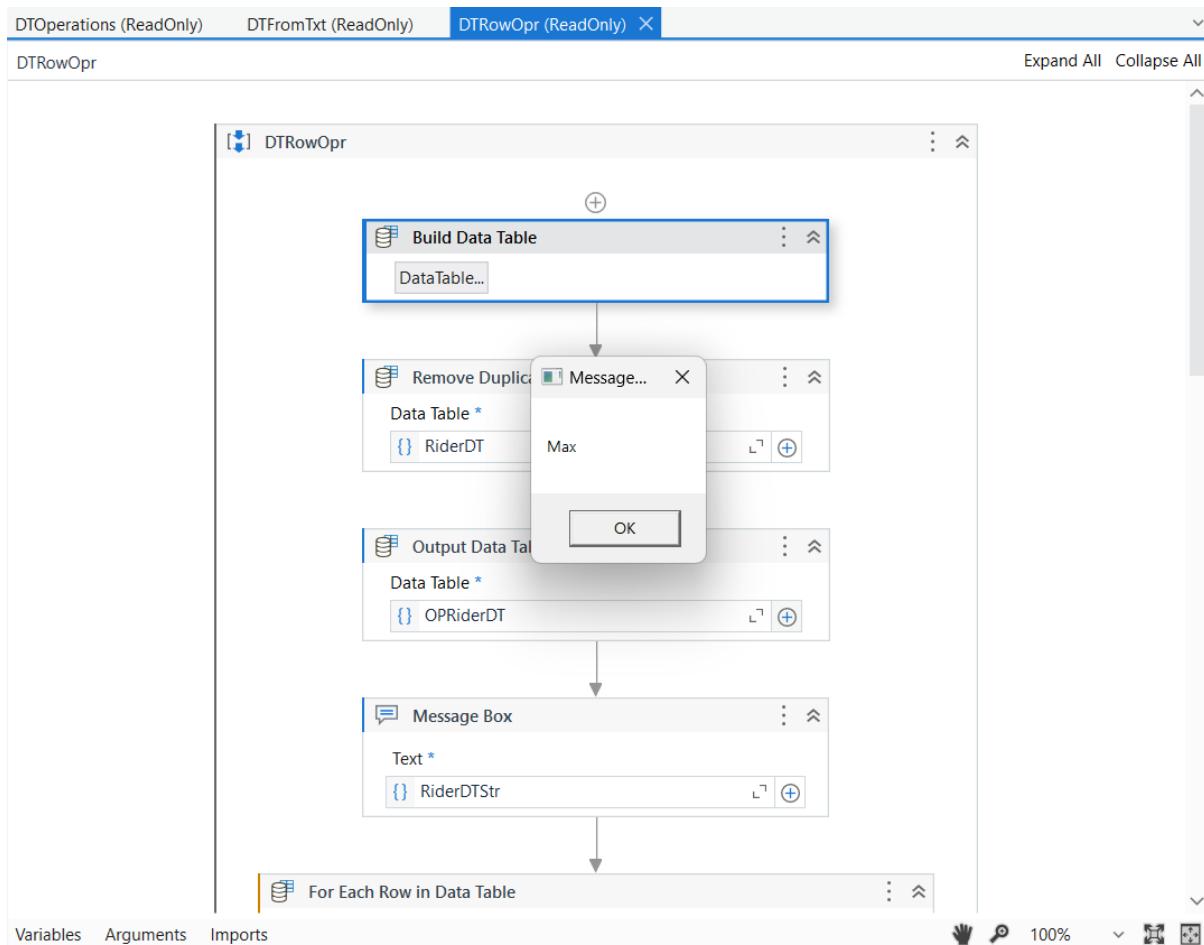
### Process:

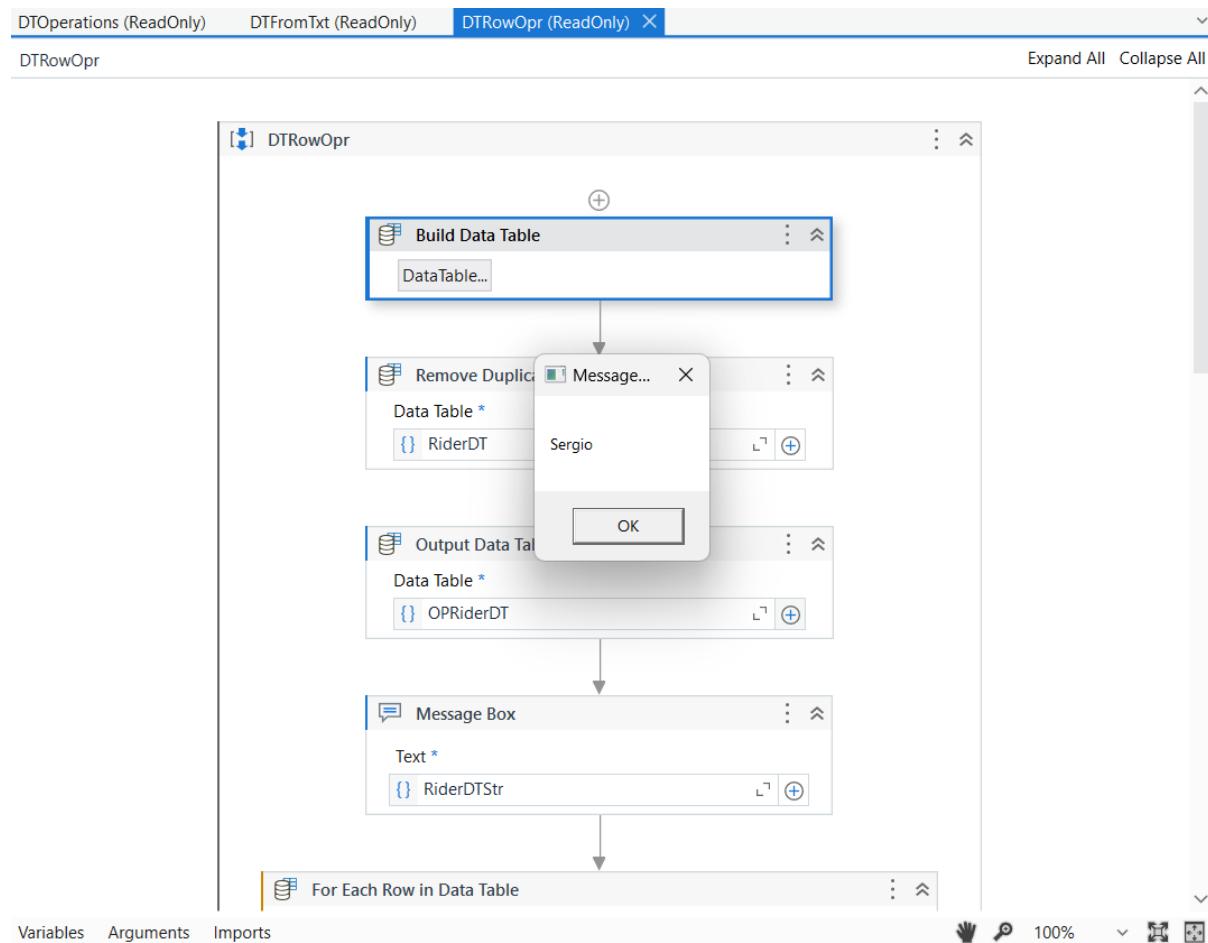


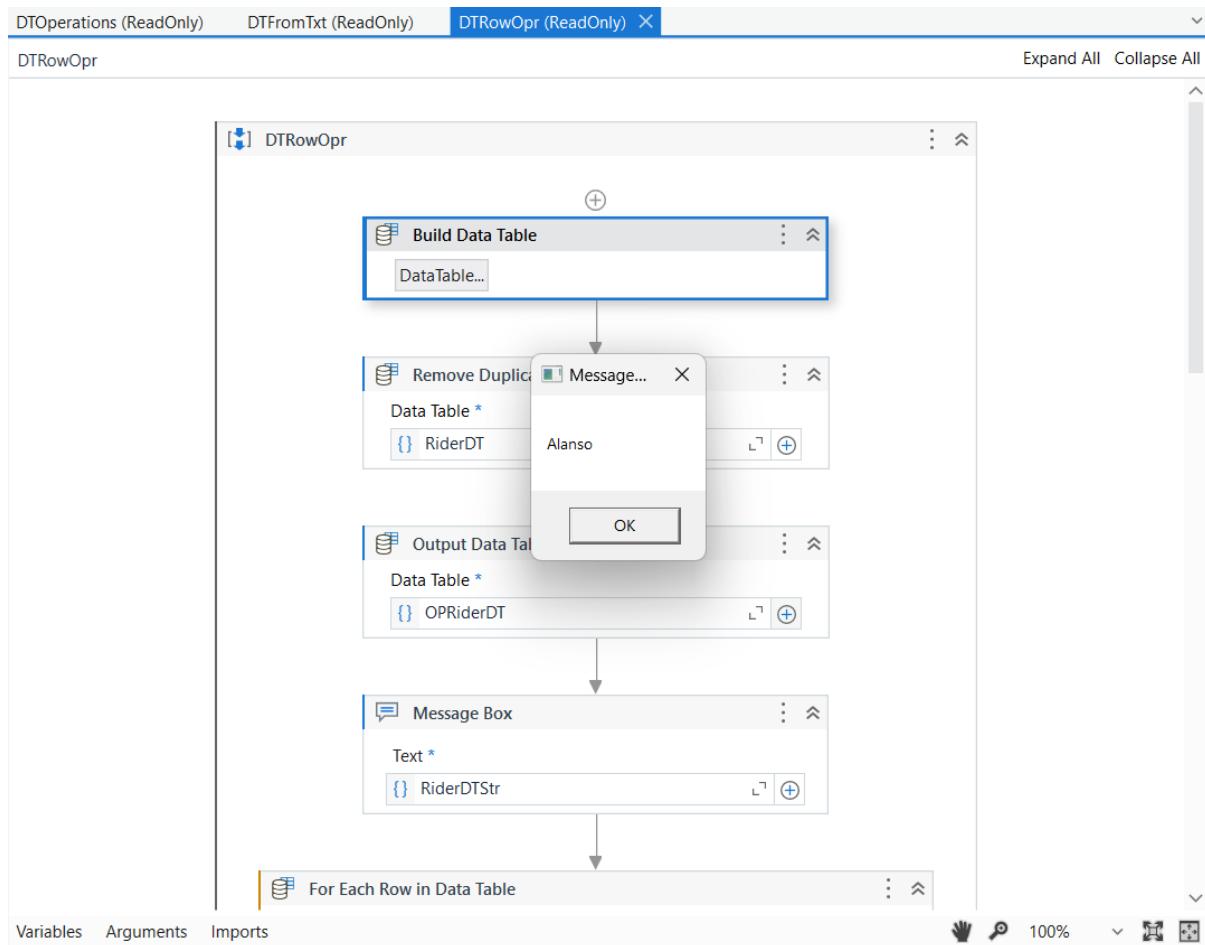


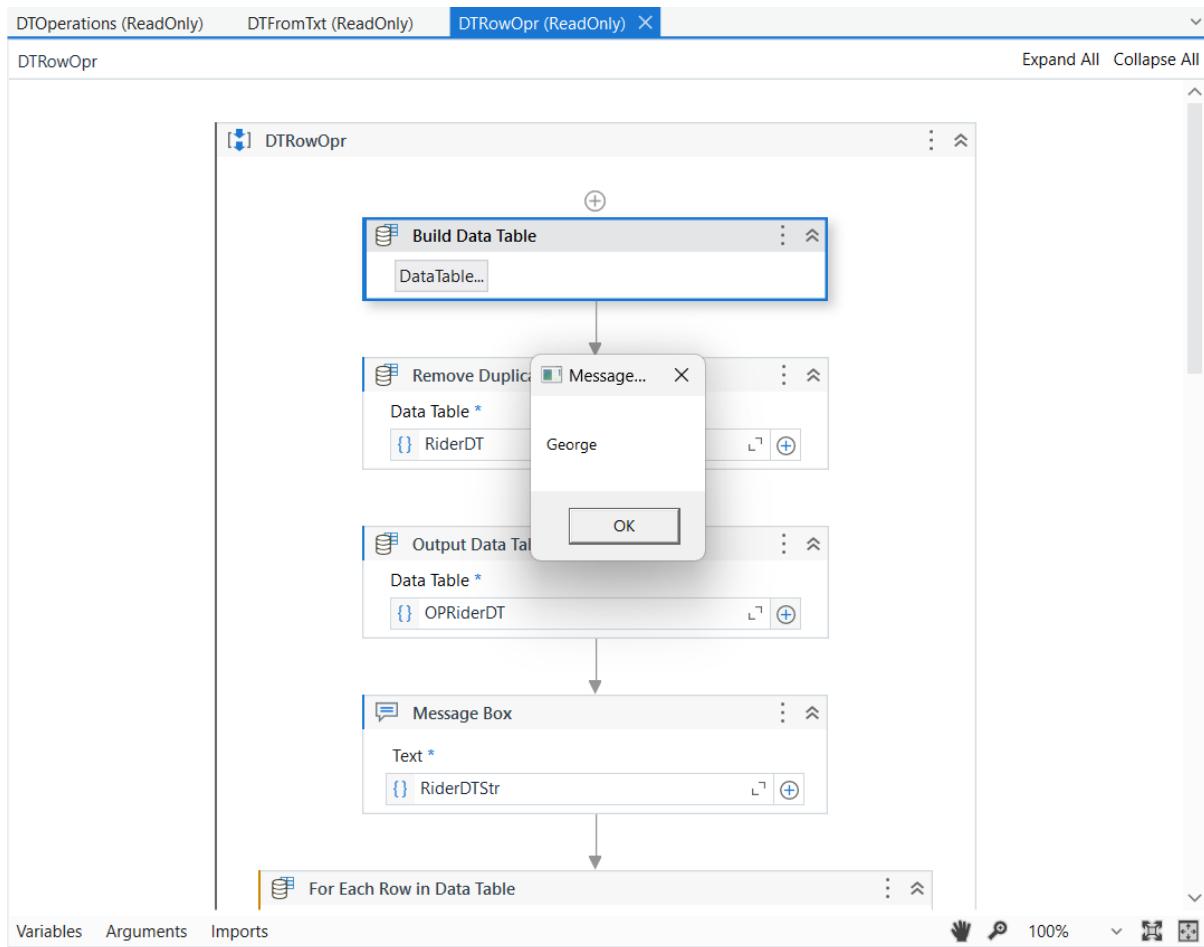
Output:

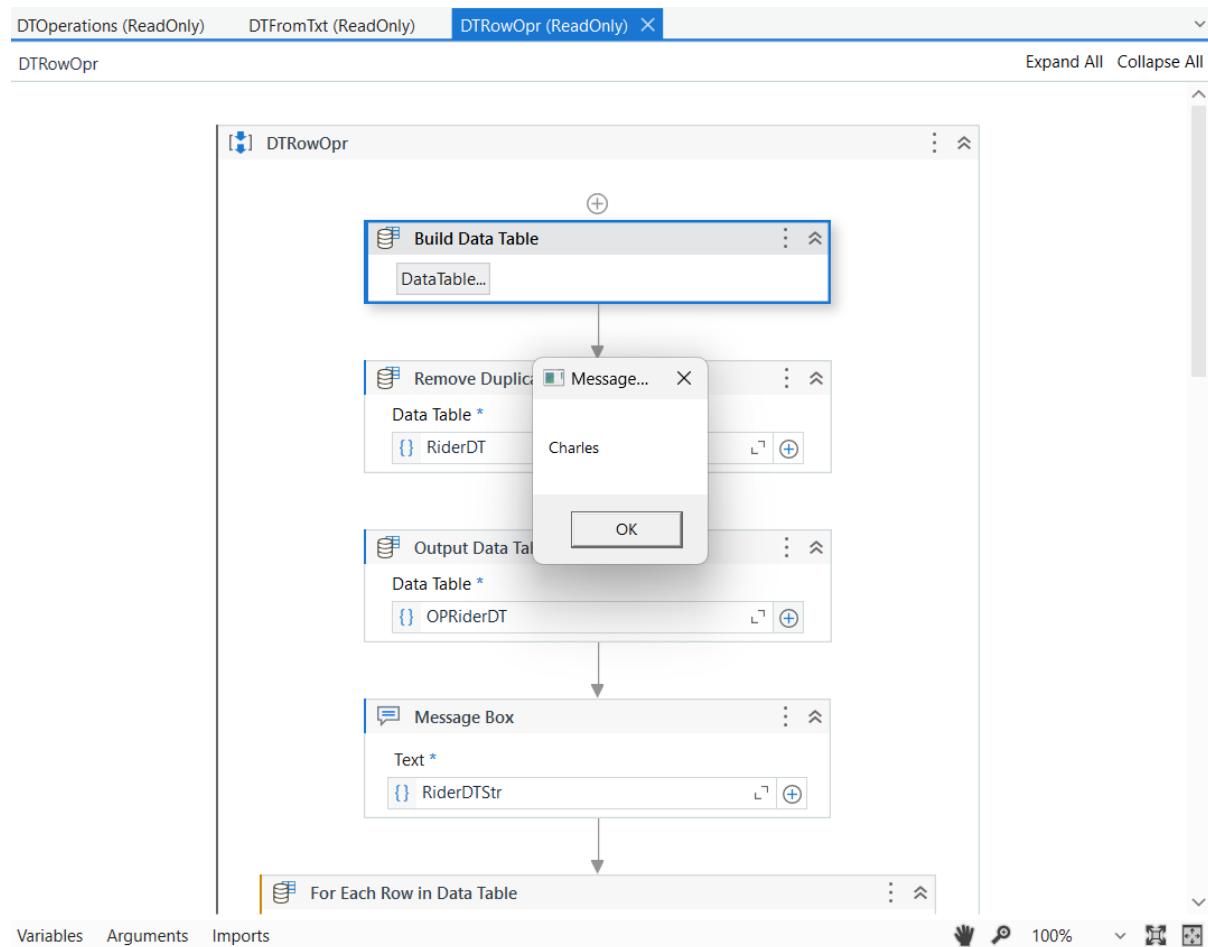


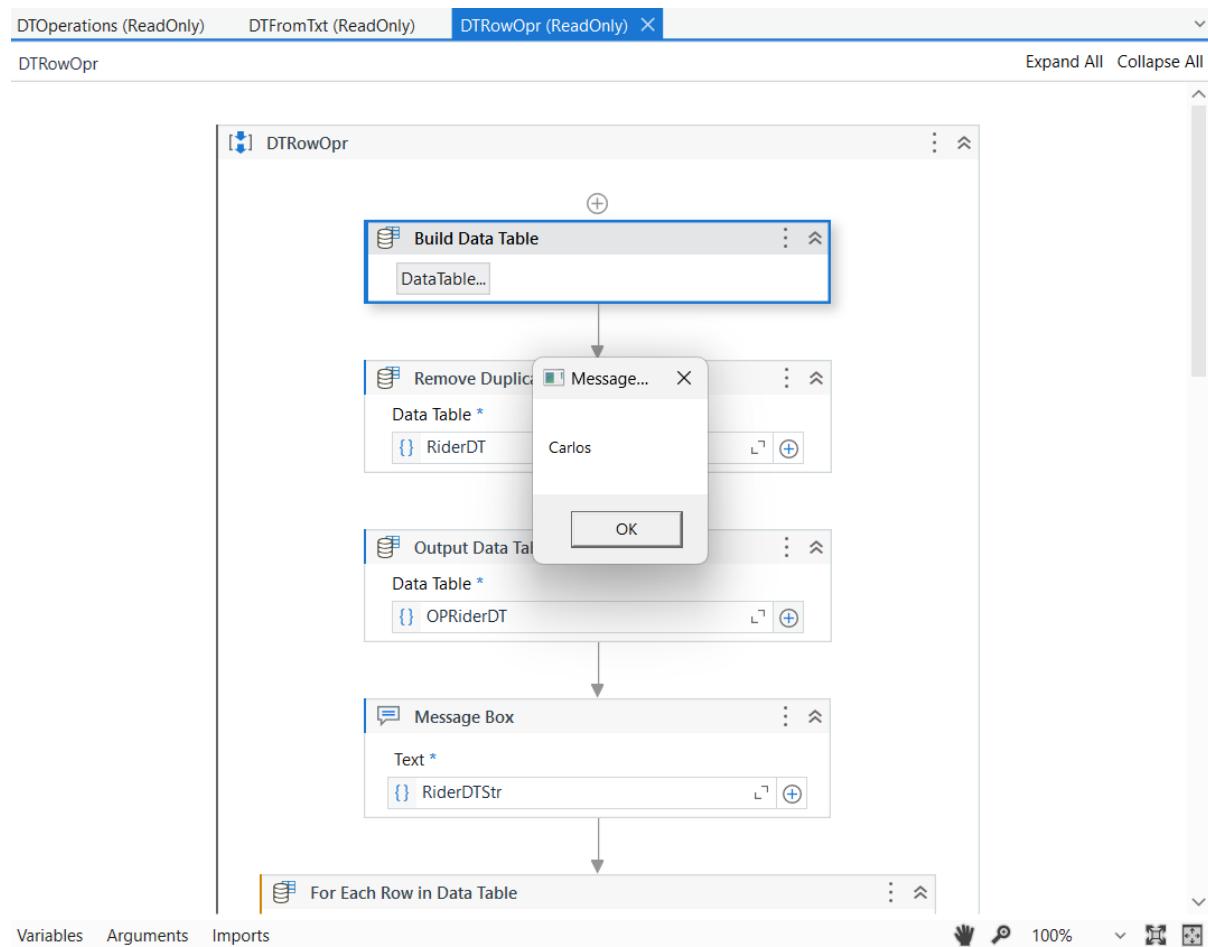


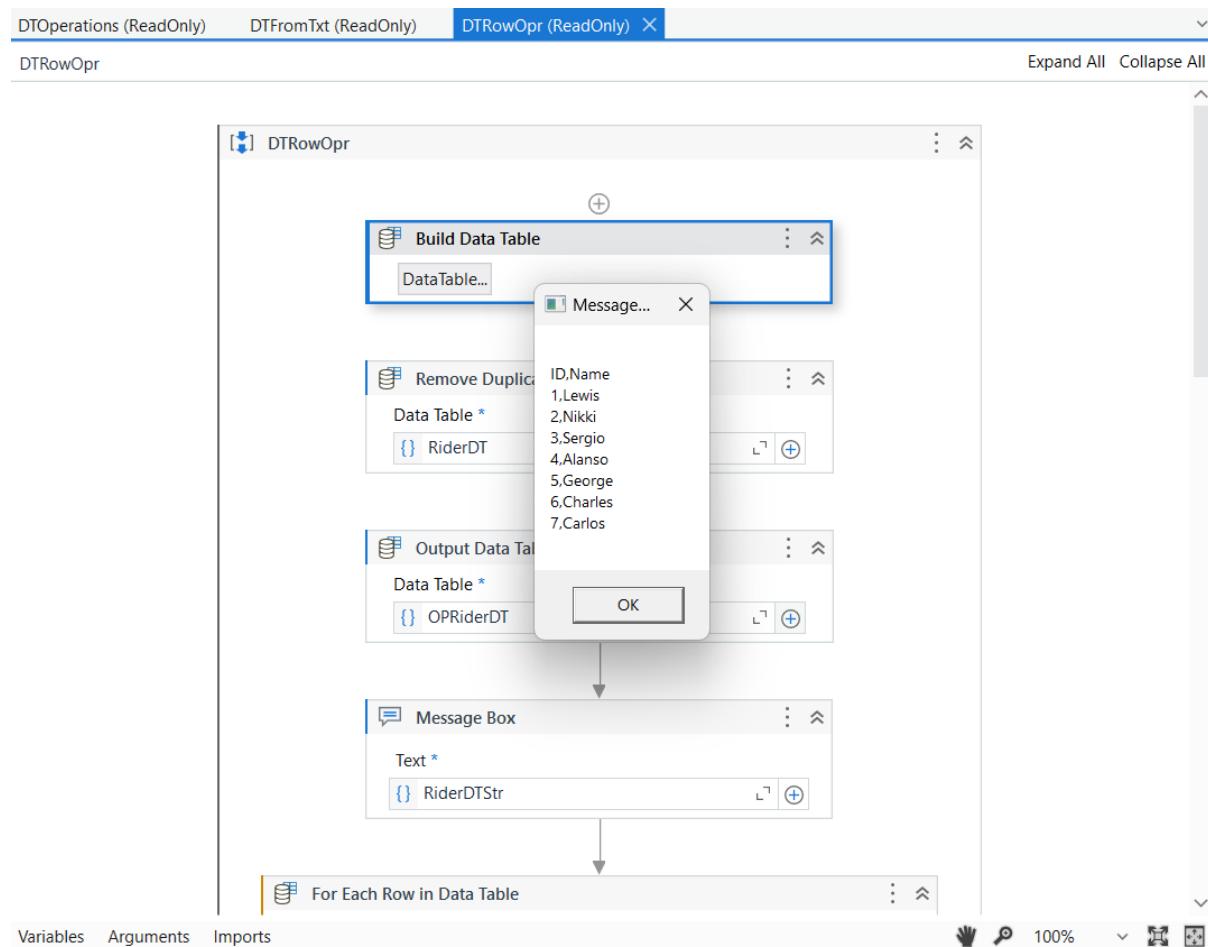










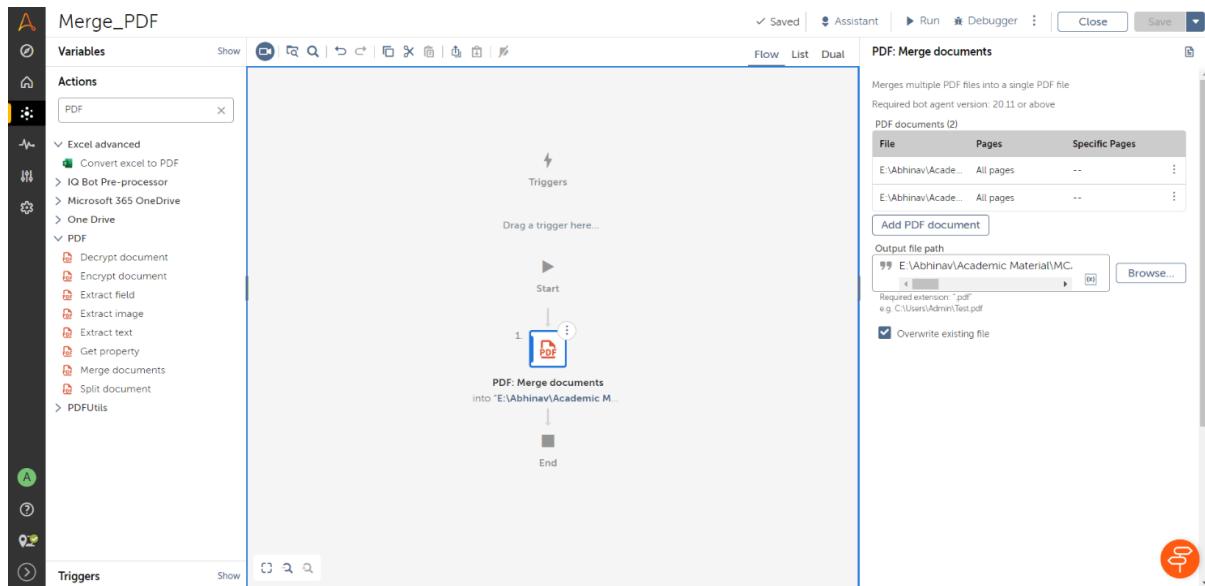


## Category 5:

### AA:

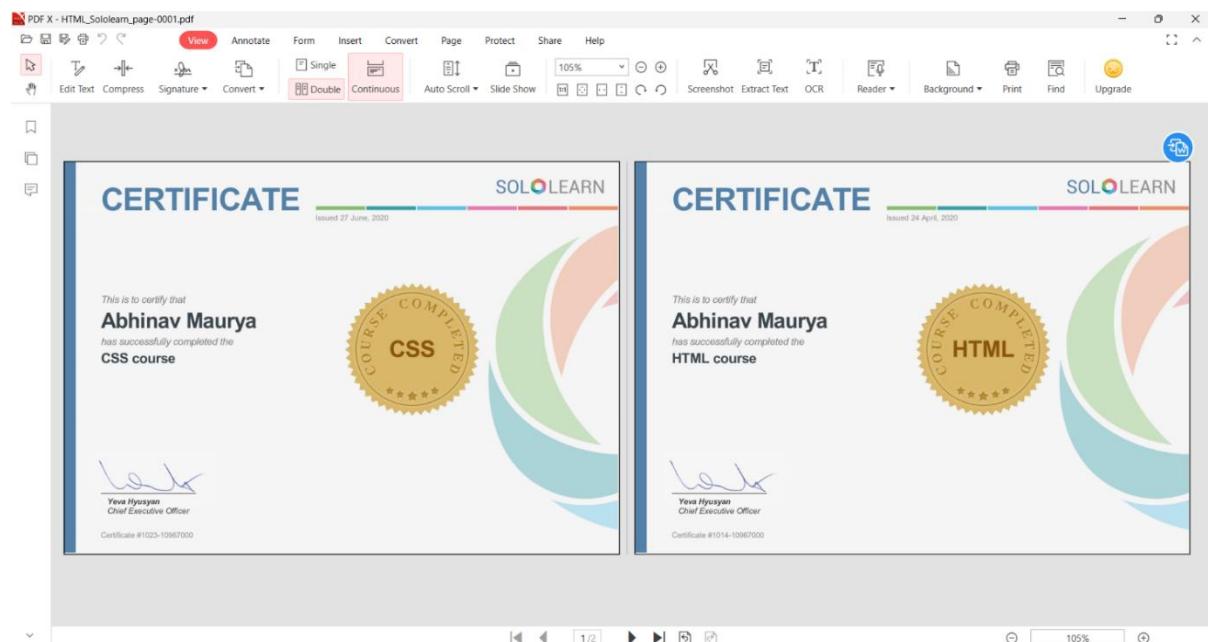
✍ Write a bot to demonstrate PDF actions: merge document and split document.

#### Merge Process:

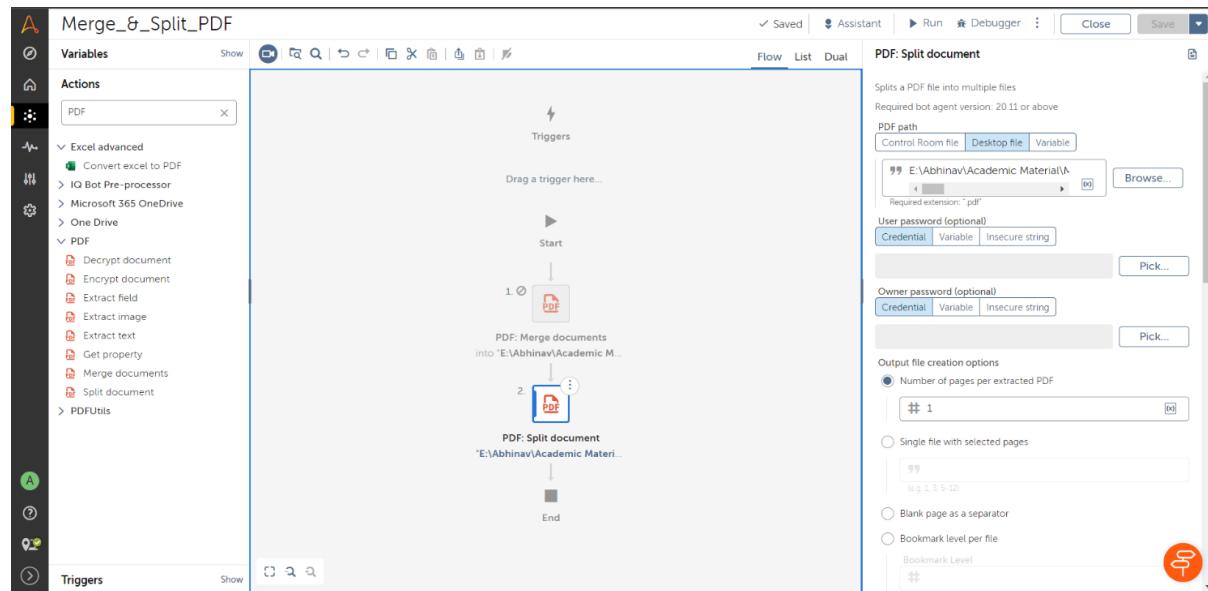


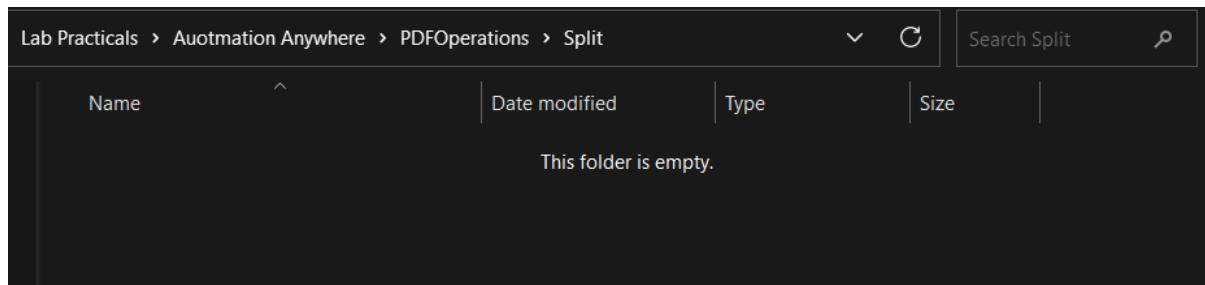
| Lab Practicals > Automation Anywhere > PDFOperations > Merge |                     |       |        |
|--|---------------------|-------|--------|
| Name   | Date modified       | Type  | Size   |
| CSS_Solearn_page-0001  | 29-06-2023 07:43 PM | PDF X | 294 KB |
| HTML_Solearn_page-0001                                       | 29-06-2023 07:45 PM | PDF X | 583 KB |

## Output:



## Split Process:



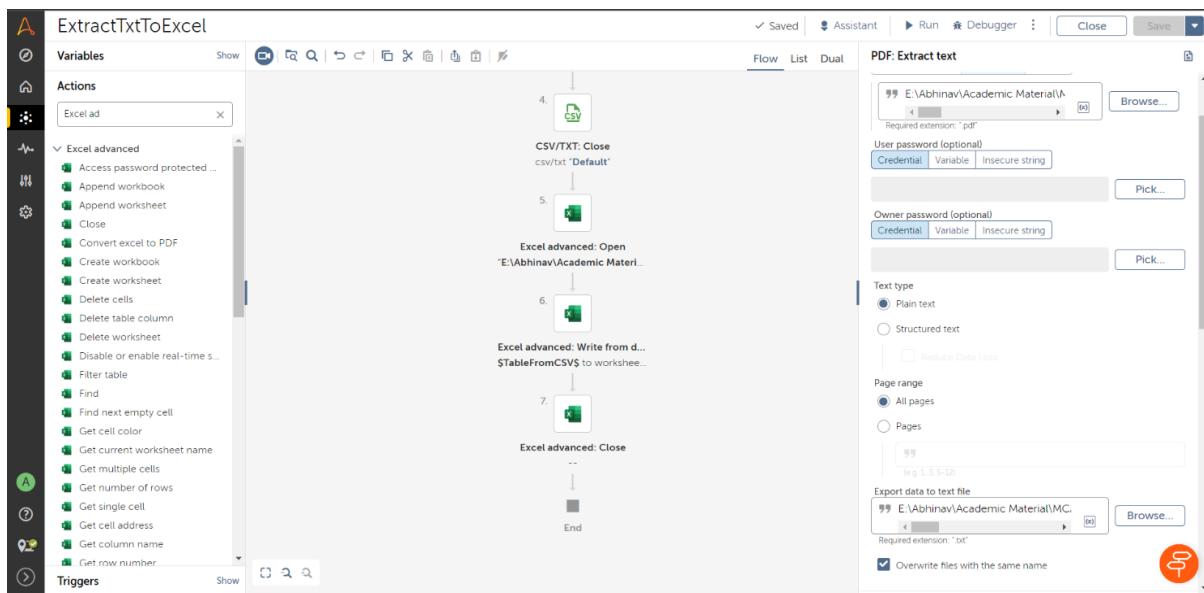
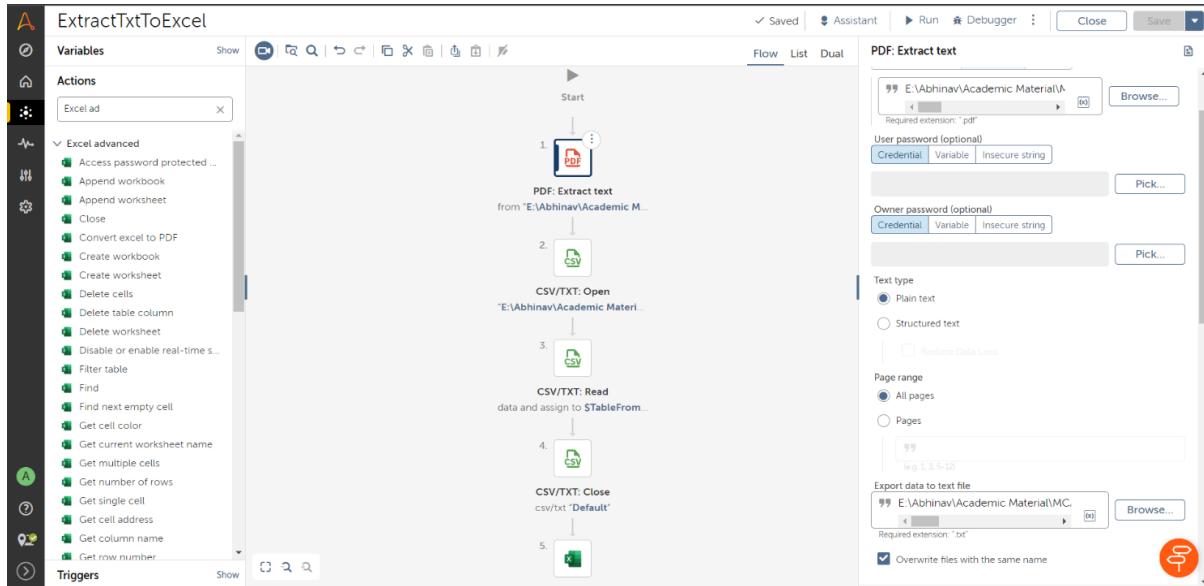


### Output:

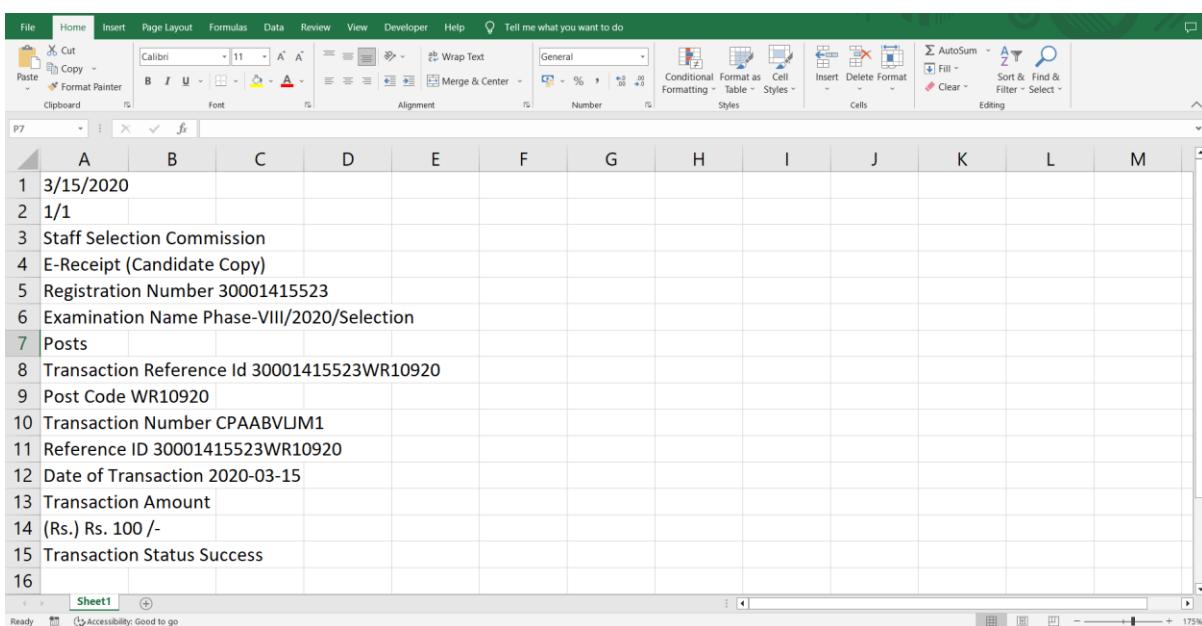
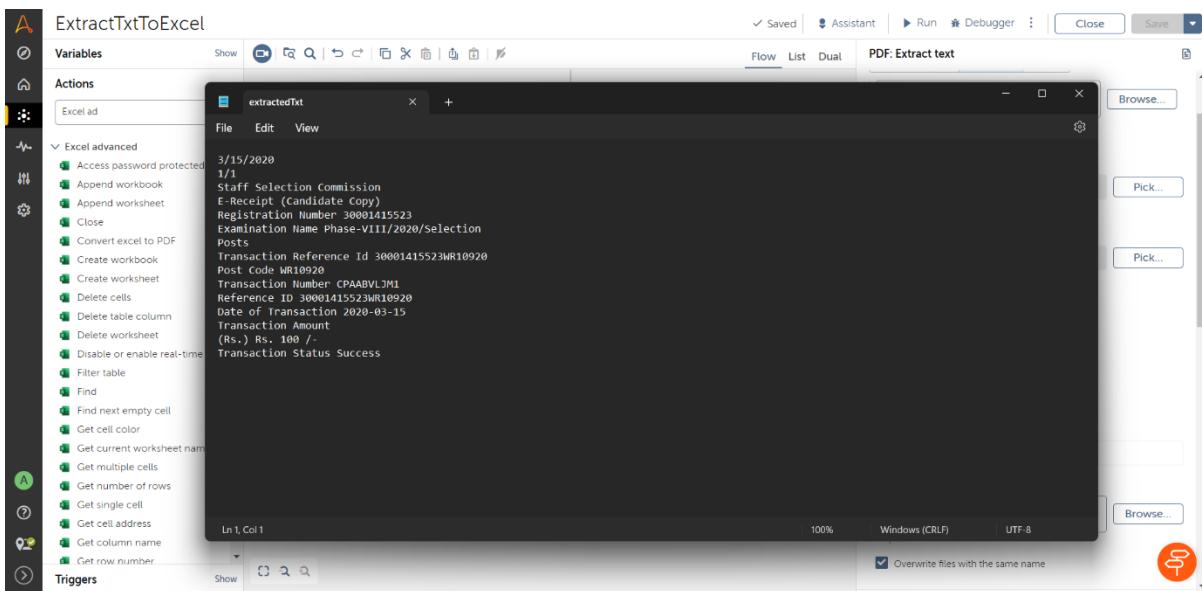
| Lab Practicals > Automation Anywhere > PDFOperations > Split |                     |       |        |
|--|---------------------|-------|--------|
| Name   | Date modified       | Type  | Size   |
| splitDoc_1   | 29-06-2023 08:25 PM | PDF X | 294 KB |
| splitDoc_2   | 29-06-2023 08:25 PM | PDF X | 291 KB |

 Write a bot to demonstrate screen scraping using extract field – The bot shall paste extracted strings into excel sheet.

## Process:

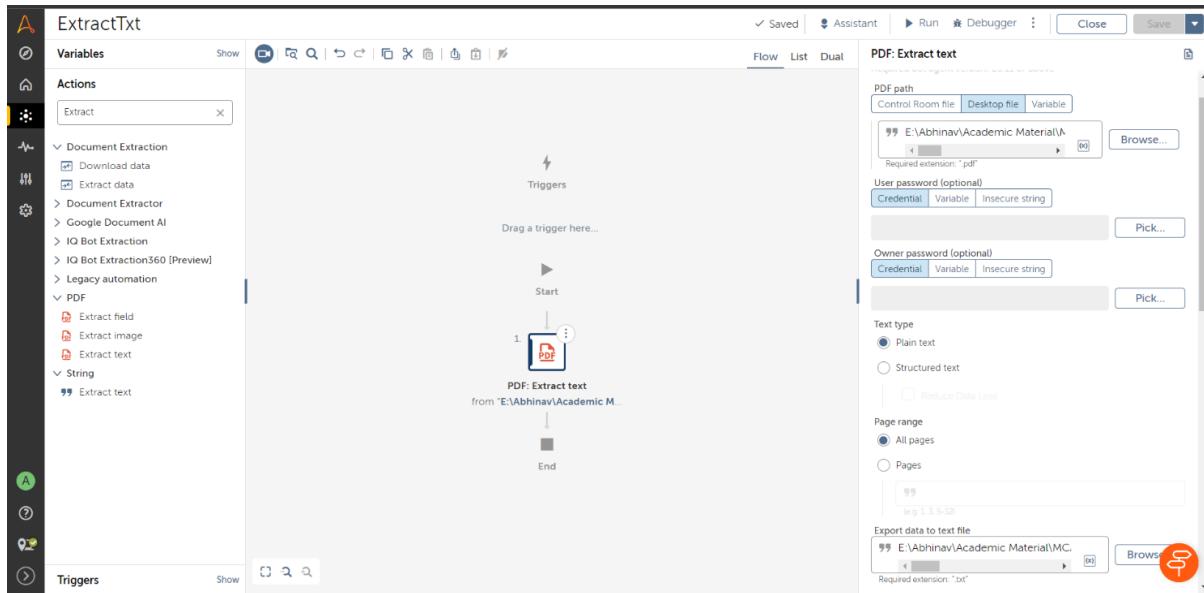


## Output:

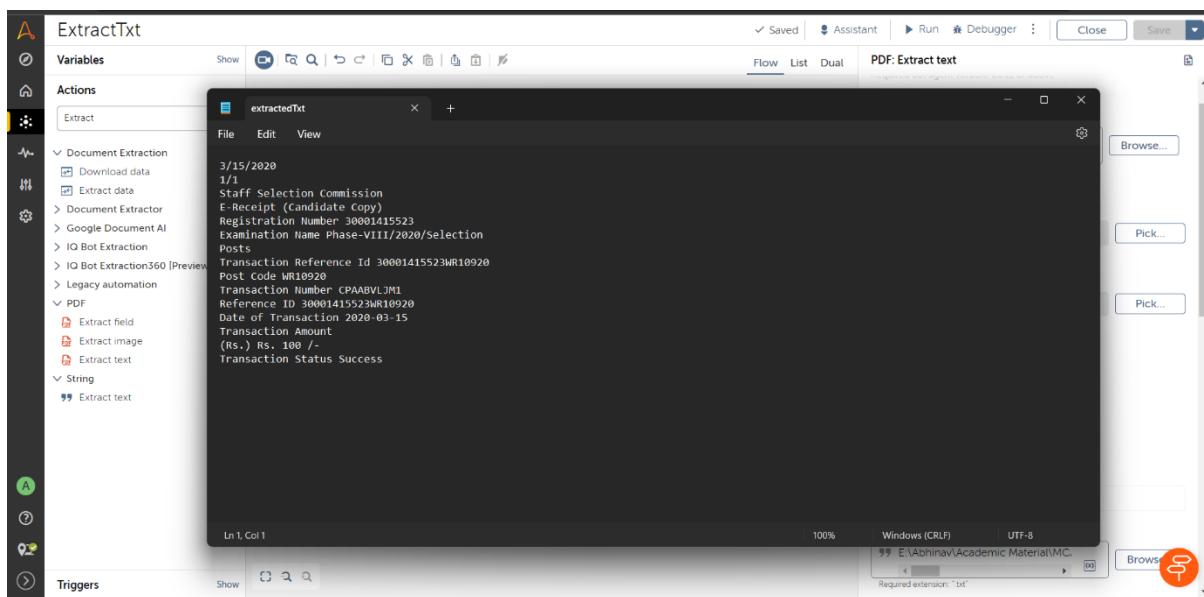


## Write a bot to demonstrate screen scraping using extract text.

### Process:

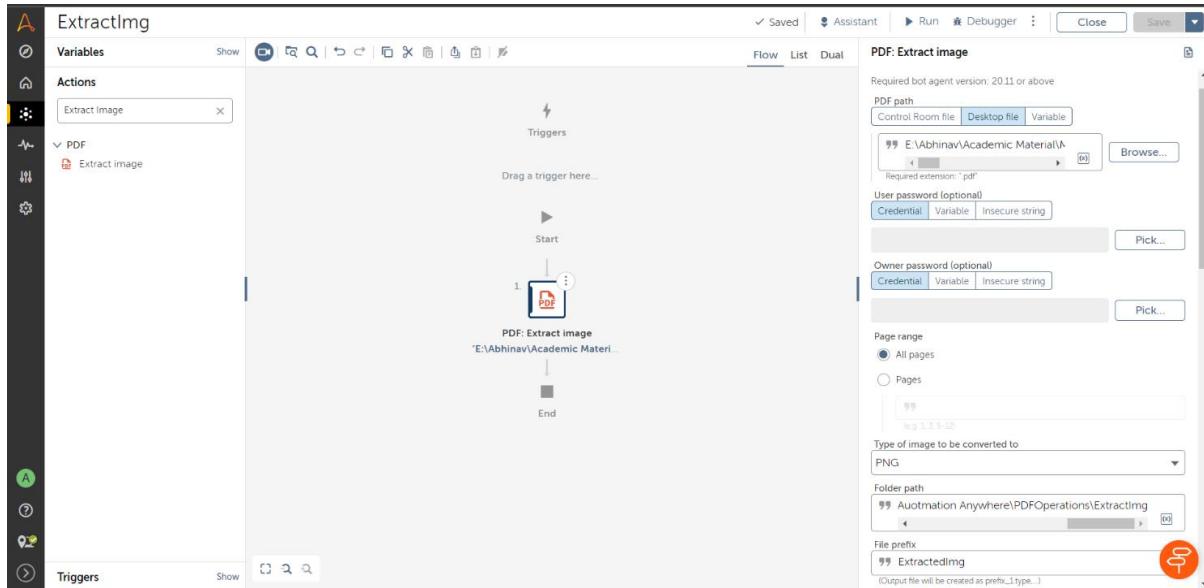


### Output:



## Write a bot to demonstrate screen scraping using extract image.

### Process:



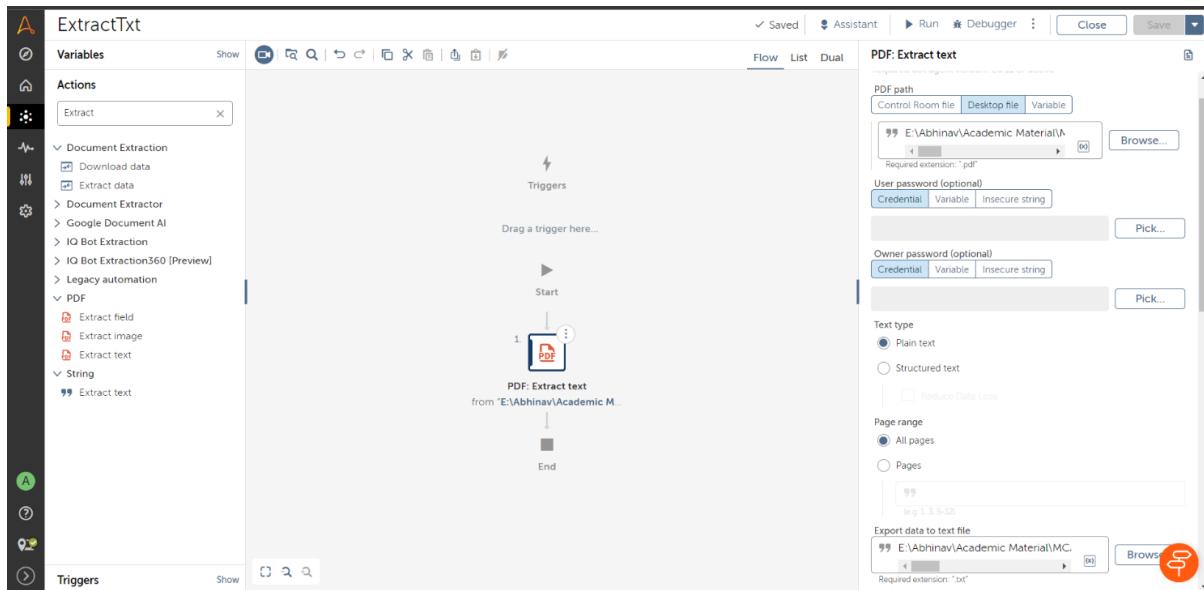
| Lab Practicals > Automation Anywhere > PDFOperations > ExtractImg |                     |       |        |
|---|---------------------|-------|--------|
| Name  | Date modified       | Type  | Size   |
| HTML_Solearn_page-0001  | 29-06-2023 07:45 PM | PDF X | 583 KB |

### Output:

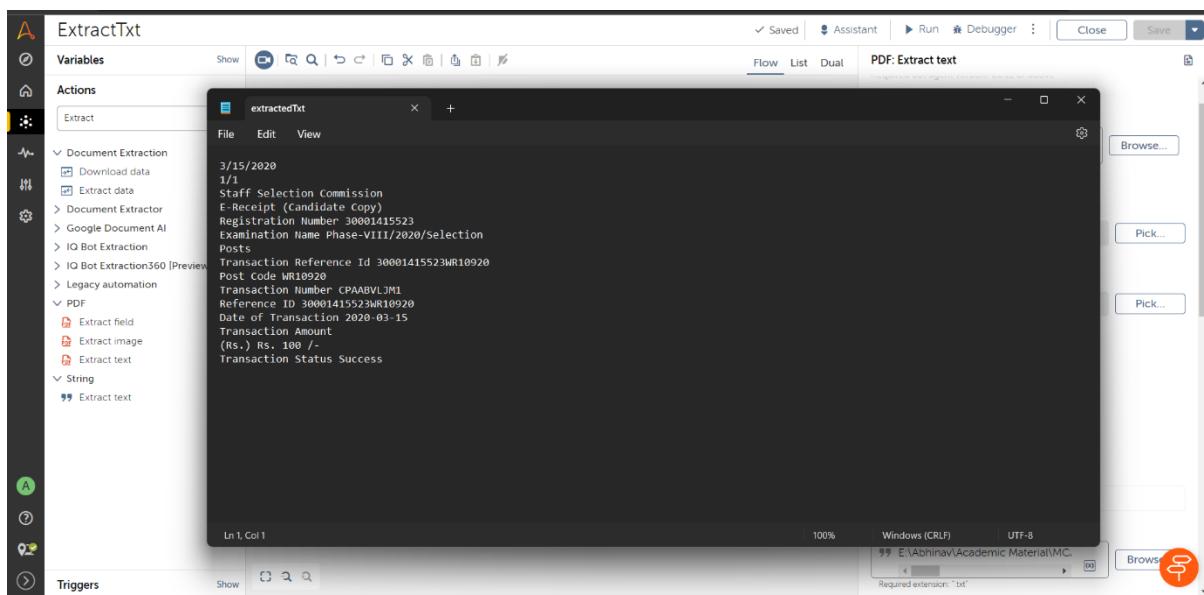
| Lab Practicals > Automation Anywhere > PDFOperations > ExtractImg |                     |          |        |
|---|---------------------|----------|--------|
| Name  | Date modified       | Type     | Size   |
| ExtractedImg_1  | 01-07-2023 07:22 AM | PNG File | 454 KB |
| ExtractedImg_2  | 01-07-2023 07:22 AM | PNG File | 451 KB |
| HTML_Solearn_page-0001  | 29-06-2023 07:45 PM | PDF X    | 583 KB |

 Write a bot to demonstrate screen scraping using extract field – The bot shall paste extracted strings into TXT file.

Process:

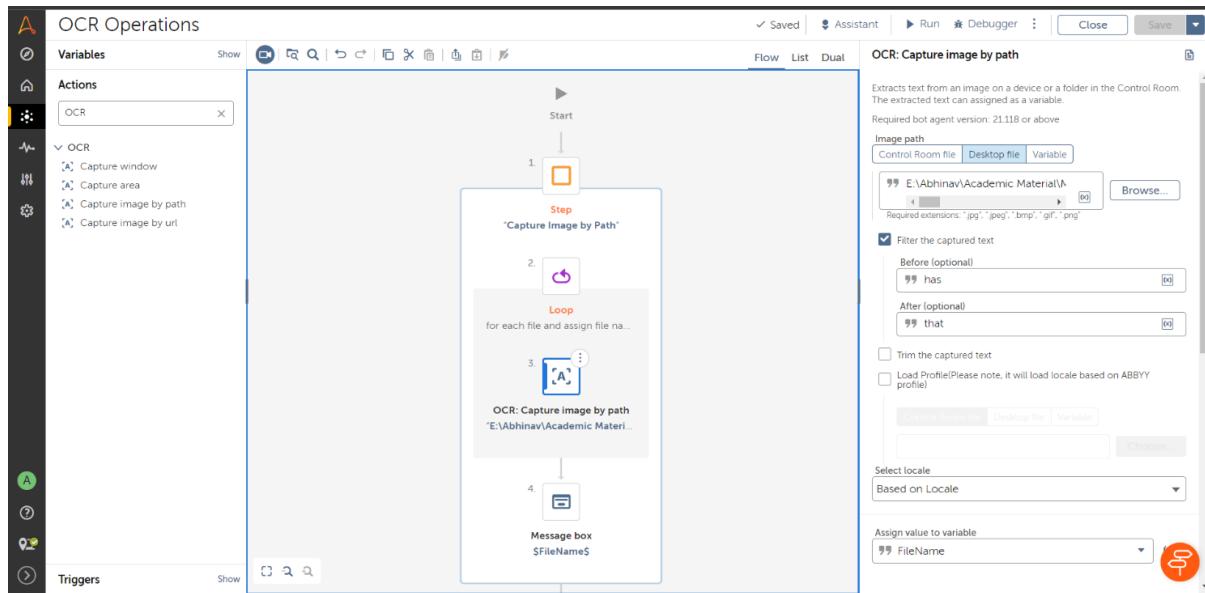


Output:

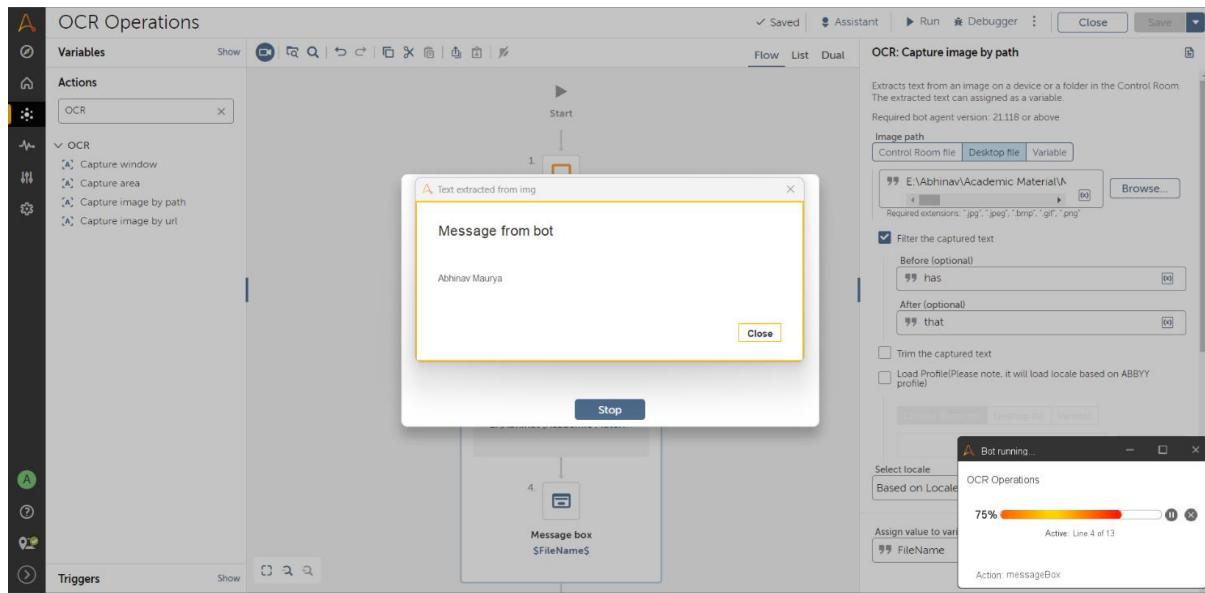


## Write a bot to demonstrate screen scraping using OCR – Capture image by path.

### Process:

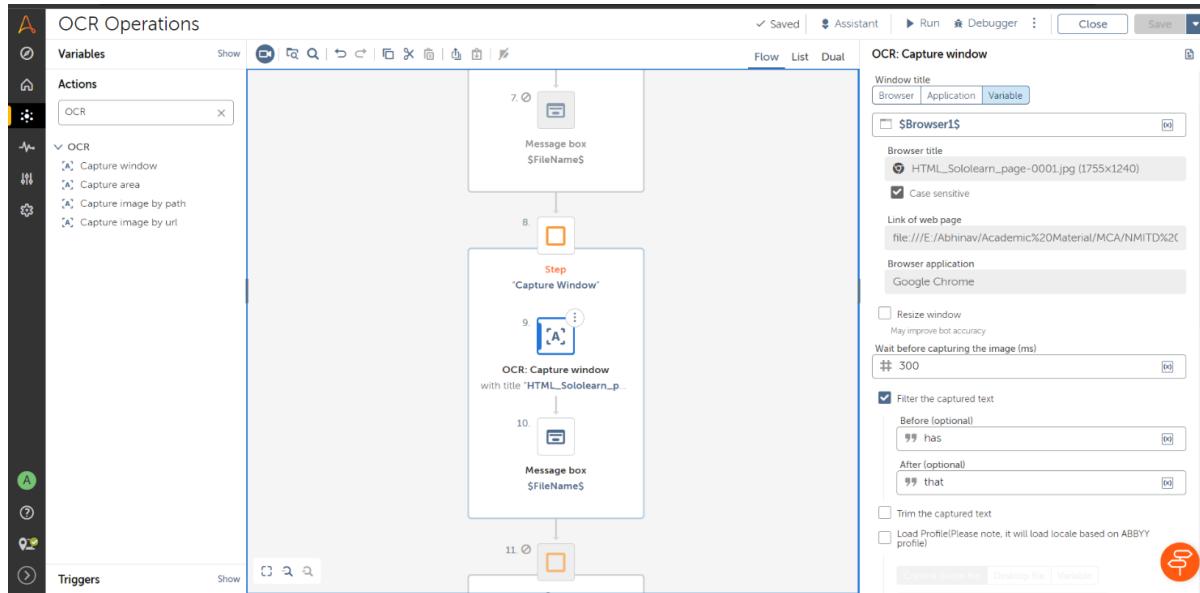


### Output:

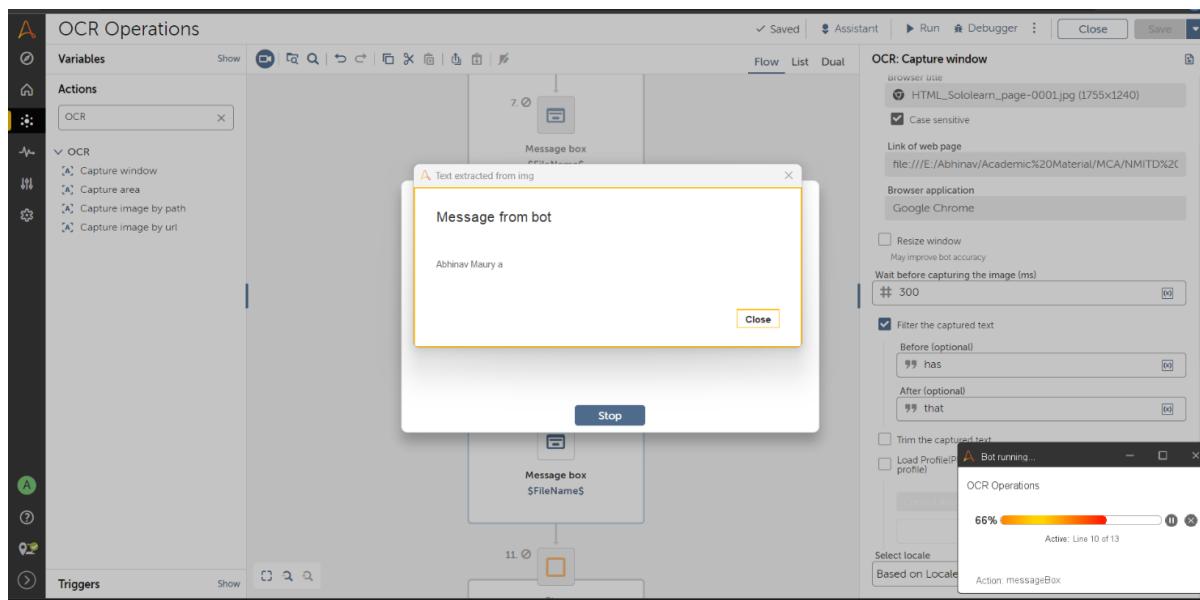


## Write a bot to demonstrate screen scraping using OCR – Capture window with filter and without filter

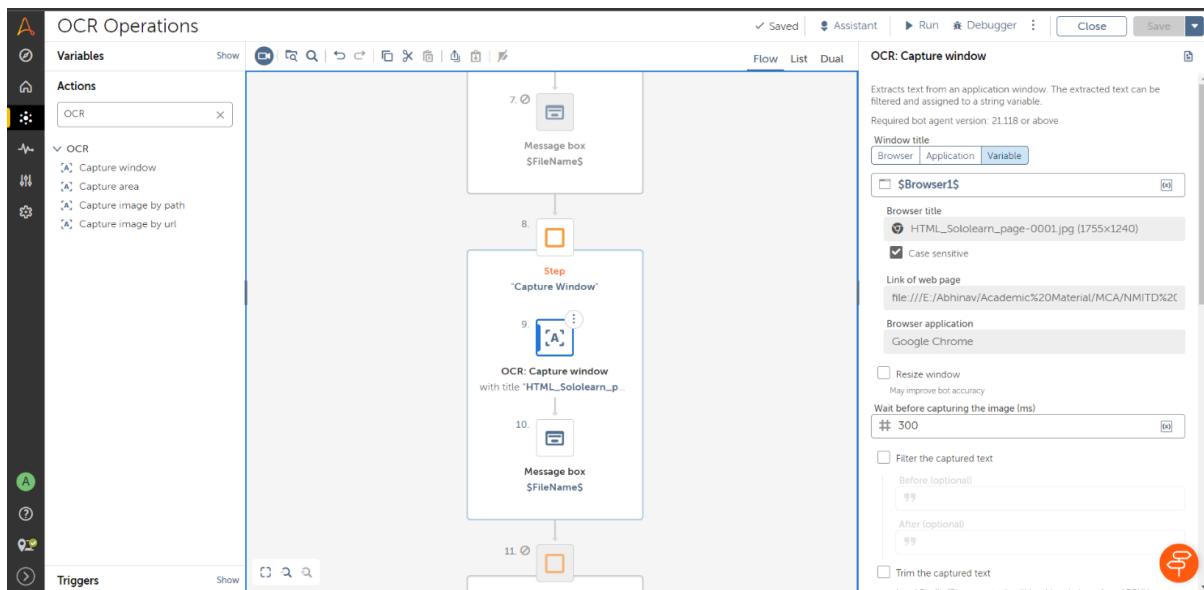
### Process: [With Filter]



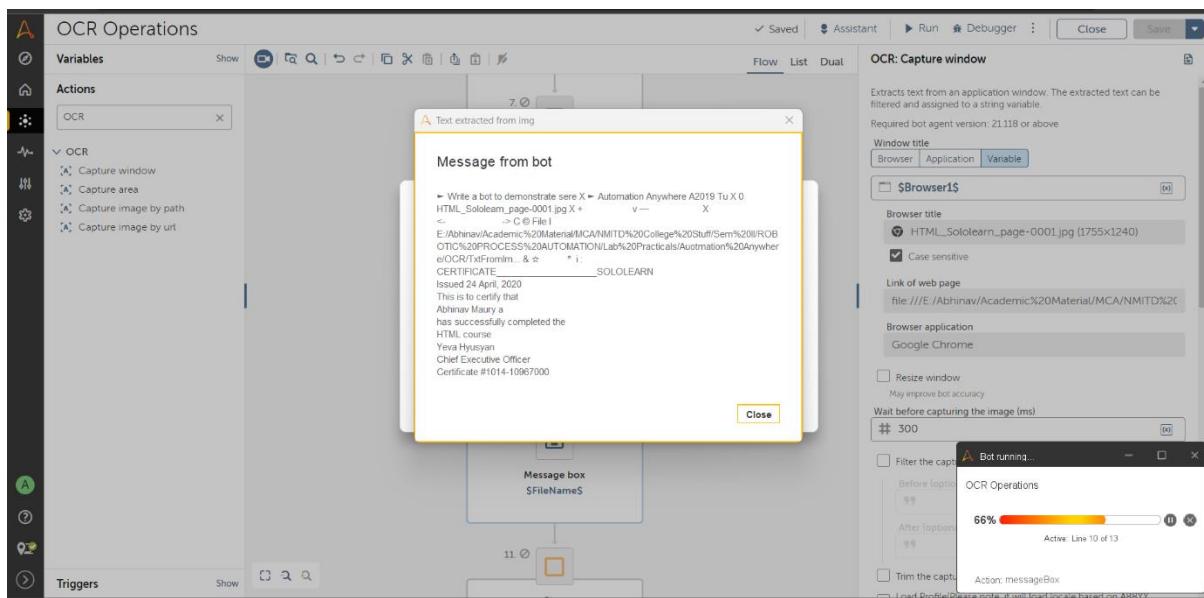
### Output:



### Process: [Without Filter]

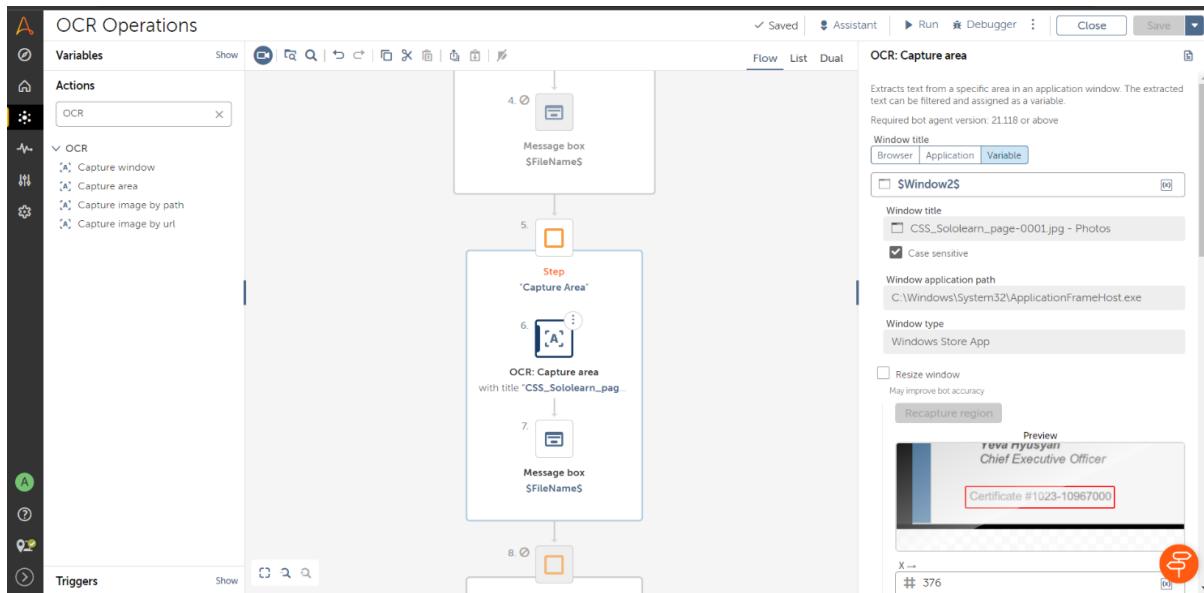


## Output:

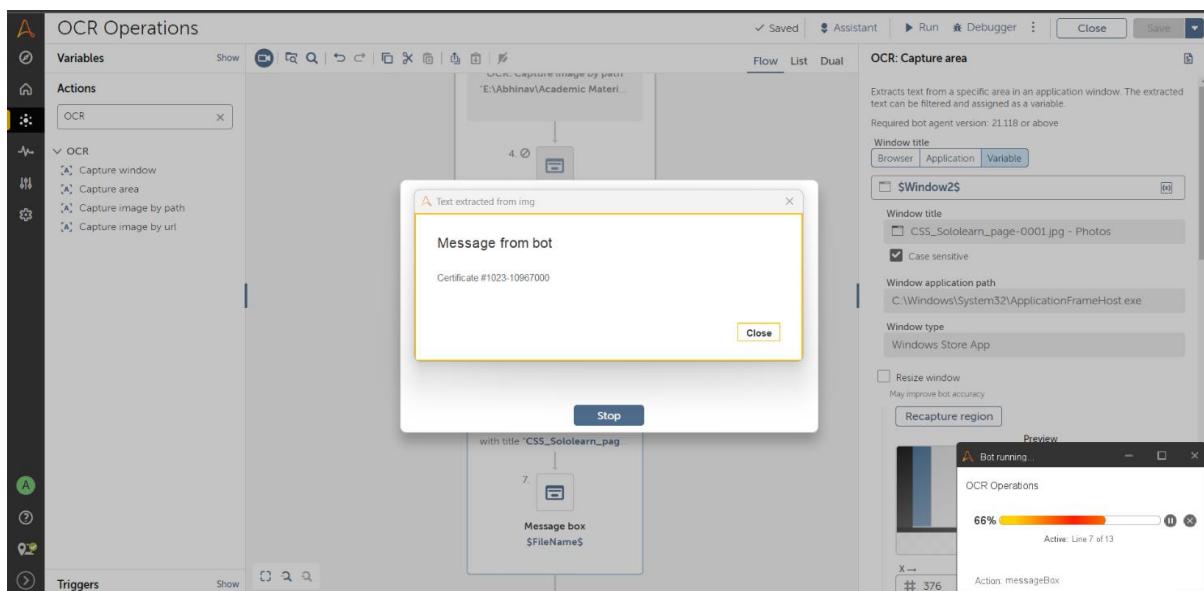


## ✍ Write a bot to demonstrate screen scraping using OCR – Capture area

### Process:



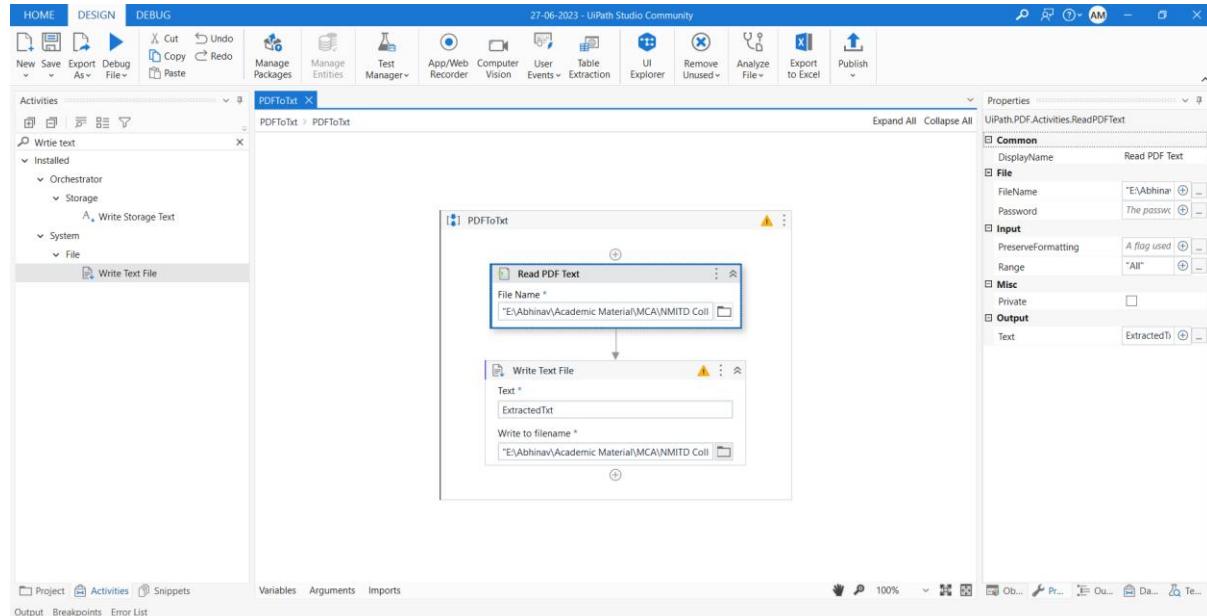
### Output:



## UiPath:

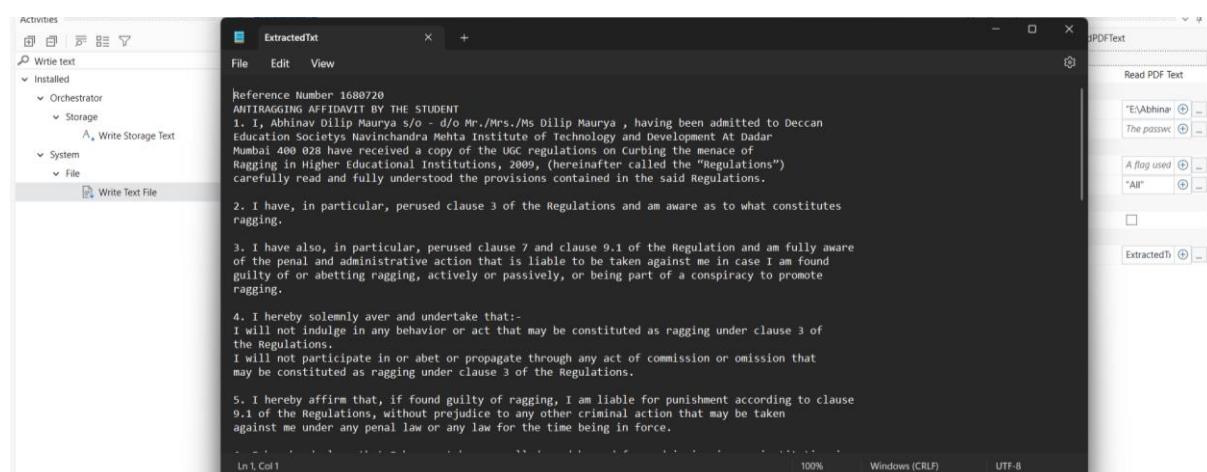
 Write a bot to convert PDF file to TXT file.

### Process:



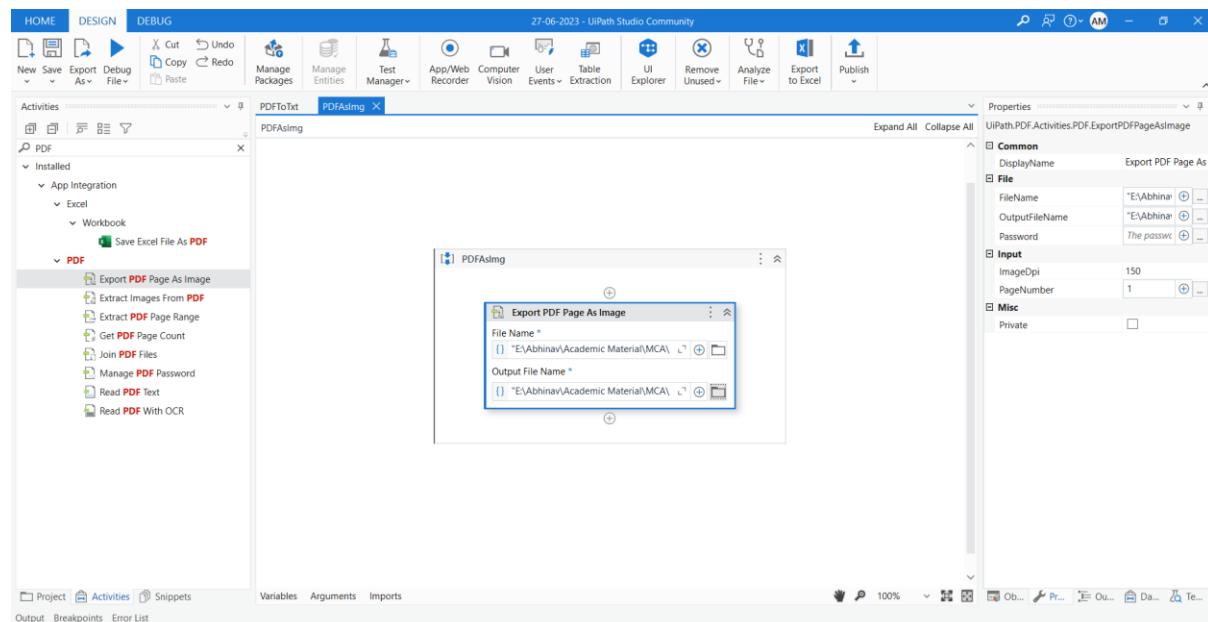
### Output:

| Sem II > ROBOTIC PROCESS AUTOMATION > Lab Practicals > UiPath > PDFToTxt                         |                     |               |       |  |
|--|---------------------|---------------|-------|--|
| Name   | Date modified       | Type          | Size  |  |
|  Dummy        | 28-12-2022 07:31 PM | PDF X         | 33 KB |  |
|  ExtractedTxt | 01-07-2023 09:12 AM | Text Document | 5 KB  |  |



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

Process: [Export PDF page as image]

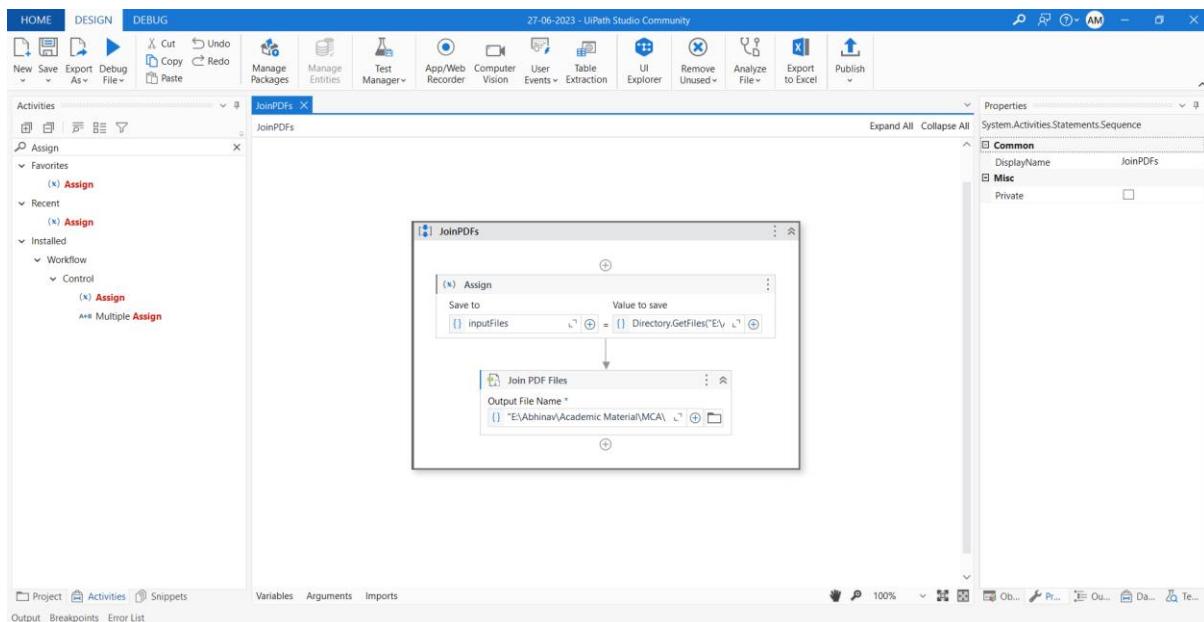


| Lab Practicals > UiPath > PDF Operations > PDFAsImg |                     |       |       |
|---|---------------------|-------|-------|
| Name  | Date modified       | Type  | Size  |
| SSC PAYMENT   | 25-04-2023 11:40 PM | PDF X | 56 KB |

Output:

| Lab Practicals > UiPath > PDF Operations > PDFAsImg |                     |          |       |
|---|---------------------|----------|-------|
| Name  | Date modified       | Type     | Size  |
| SSC PAYMENT   | 25-04-2023 11:40 PM | PDF X    | 56 KB |
| ExportedImg   | 01-07-2023 09:24 AM | PNG File | 83 KB |

## Process:[join PDF files]



| Lab Practicals > UiPath > PDF Operations > JoinPDFs > PDFs |                     |       |        |  |
|--|---------------------|-------|--------|--|
| Name   | Date modified       | Type  | Size   |  |
| CSS_Solearn_page-0001                                      | 29-06-2023 07:43 PM | PDF X | 294 KB |  |
| HTML_Solearn_page-0001                                     | 29-06-2023 07:45 PM | PDF X | 583 KB |  |

| Lab Practicals > UiPath > PDF Operations > JoinPDFs > JoinPDFs |               |      |      |  |
|--|---------------|------|------|--|
| Name   | Date modified | Type | Size |  |
| This folder is empty.  |               |      |      |  |

## Output:

| Lab Practicals > UiPath > PDF Operations > JoinPDFs > JoinPDFs |                     |       |        |
|--|---------------------|-------|--------|
| Name   | Date modified       | Type  | Size   |
| Join   | 01-07-2023 10:20 AM | PDF X | 875 KB |

