Practical No: 8

Triggering events, Screen Scraping, Plug-ins
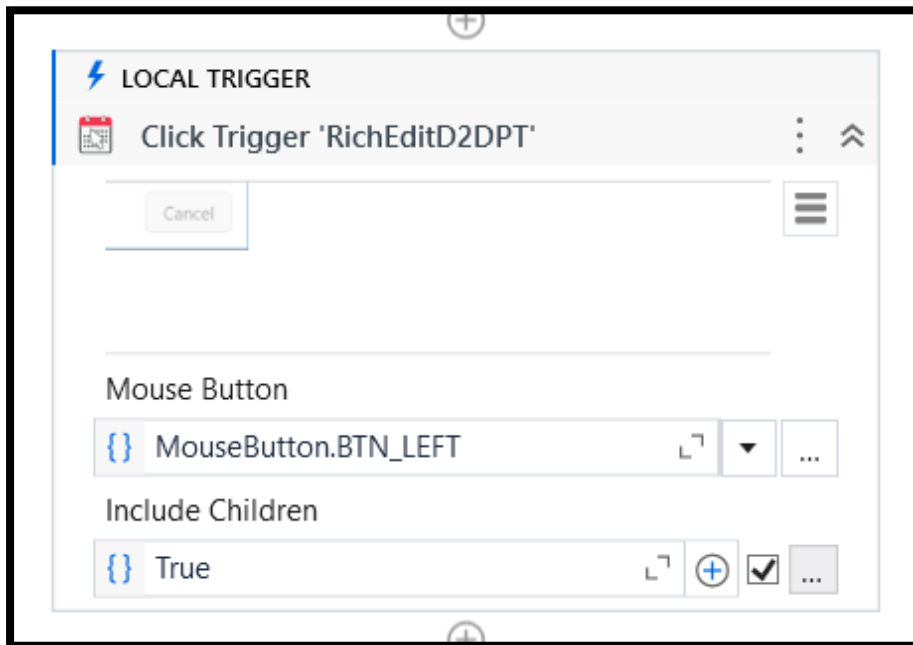
Aim: A) Demonstrate the following events in UiPath:
i. Element triggering event
ii. Image triggering event
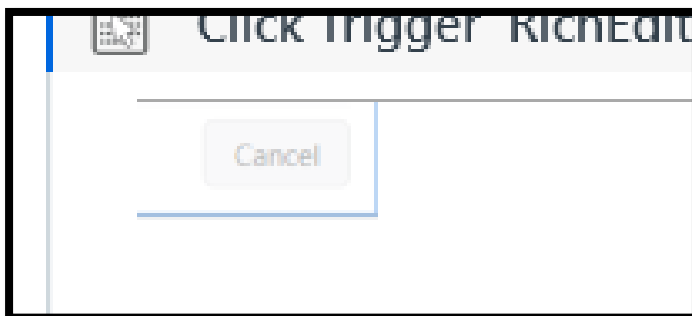**iii. System Triggering Event.**

i. Element Triggering event

Step 1.   Utilize the "Click Trigger" activity to set up a mouse click event.
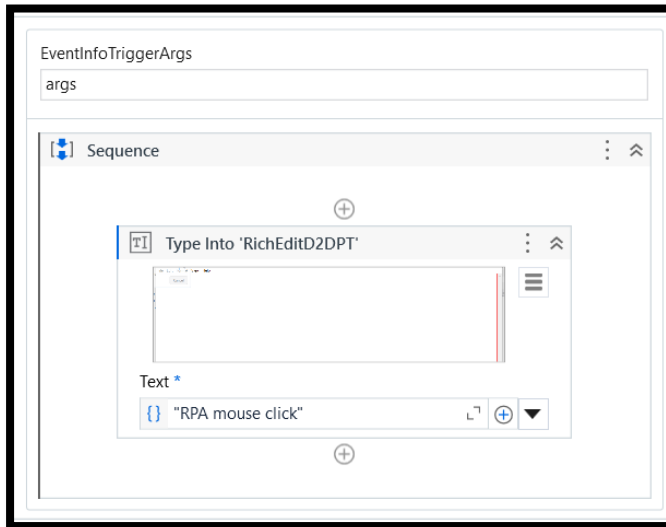
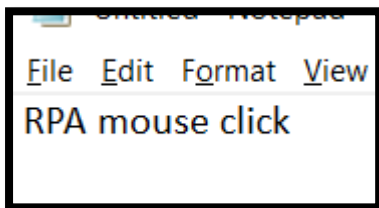**Step 2.**   Configure the mouse button to be the left mouse button.

Step 3.   Set the window scope for the click trigger by selecting the Notepad window.

Step 4.   Inside the event, include the "Type Into" activity to specify the text you want to be written upon the mouse click.
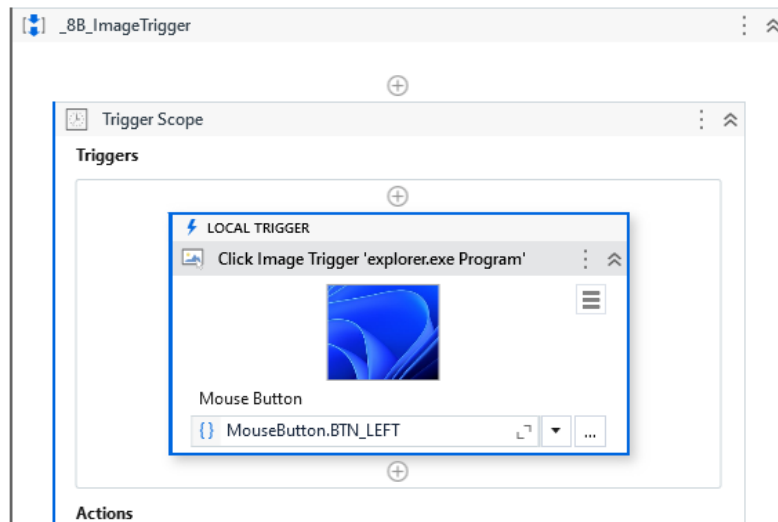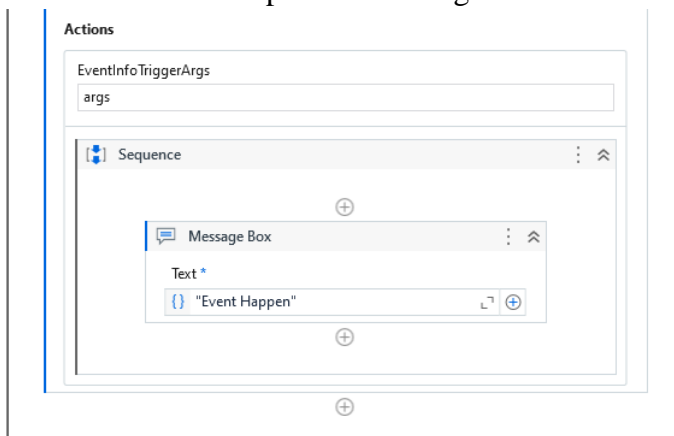

OUTPUT:

ii. Image Triggering event

Step 1. Drag and drop the "Image Trigger" activity into your sequence.

Step 2. Click "Indicate Scope on screen" and choose a part of an image by dragging.

Step 3. Add a follow-up activity, like "Message Box," which will pop up when you click on the selected part of the image.
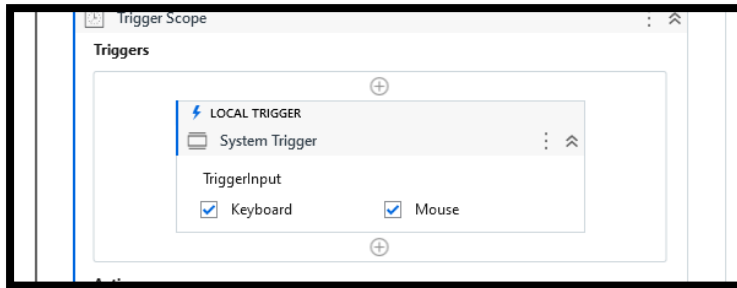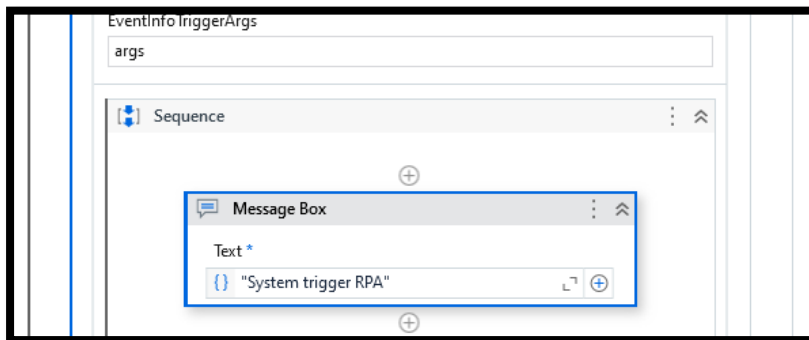

OUTPUT:
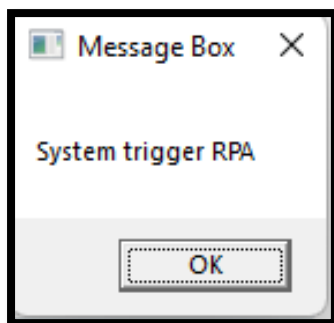
iii. System Triggering Events

Step 1.   Include the "System Trigger" activity in your workflow.

Step 2.   Integrate a follow-up activity, such as "Message Box," to occur after the System Trigger. This activity will trigger when any key or mouse press occurs.

OUTPUT:

Learnings:

i. Element Triggering Event:
We learned to set up a mouse click event using the "Click Trigger" activity, configuring the mouse button, defining the window scope, and incorporating a follow-up "Type Into" activity to execute upon the mouse click.

ii. Image Triggering Event:
We explored the "Image Trigger" activity to create an event triggered by clicking on a selected part of an image, and added a follow-up "Message Box" activity to display a message when the image is clicked.

iii. System Triggering Events:
By using the "System Trigger" activity, we learned to set up an event triggered by any key or mouse press and added a follow-up "Message Box" activity to demonstrate the occurrence of the triggering event.

Aim: b) Automate the following screen scraping methods using UiPath

i. Full Text

ii. Native

iii. OCR

i. Full Text

Step 1. Drag and drop the "Get Full Text" activity into your sequence.

Step 2. Click "Indicate on Screen" within the activity.

Step 3. Select a text pane on the screen.

Step 4. In the properties of the "Get Full Text" activity, add a string variable to the output using [Ctrl + K].

Step 5. Add a "Message Box" activity to your sequence.

Step 6. Use the variable created in step 4 to print the extracted text in the message box.
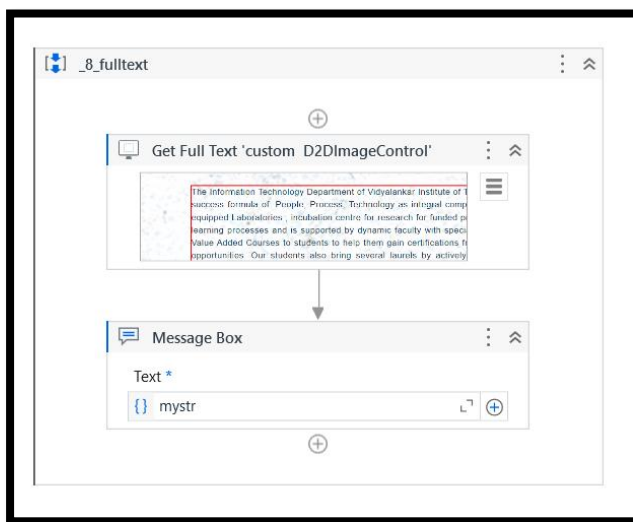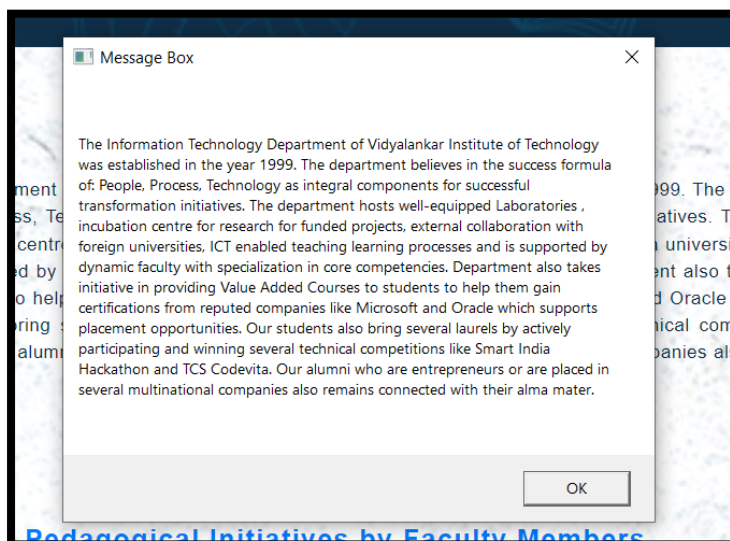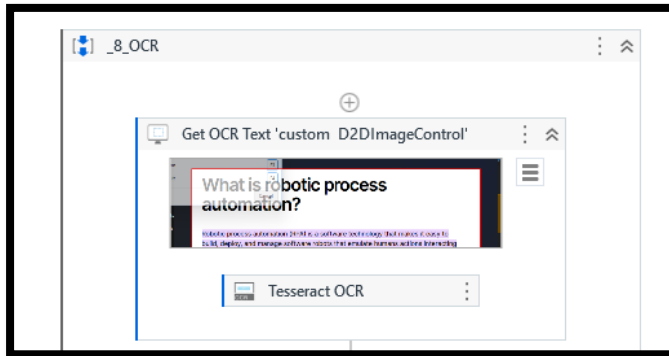

OUTPUT:

ii. OCR

Step 1. Drag and drop the "Get OCR Text" activity into your sequence.

Step 2. Click "Indicate on Screen" within the activity.

Step 3. Select an image containing text that you want to extract.

Step 4. Create a variable to store the OCR output.

Step 5. Add a "Message Box" activity to your sequence.

Step 6. Use the variable created in step 3 to display the OCR-extracted text.

OUTPUT:
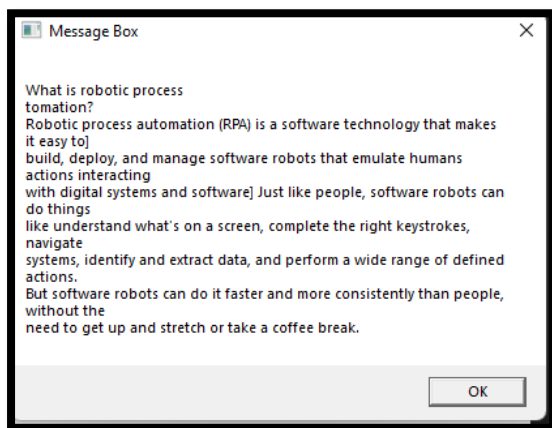
Learnings:

i. Full Text:
We learned to use the "Get Full Text" activity to extract text from a specific pane on the screen, store it in a variable, and display it using a Message Box.

ii. OCR:
By employing the "Get OCR Text" activity, we learned to capture text from an image, save it in a variable, and showcase the extracted text in a Message Box, demonstrating the application of Optical Character Recognition (OCR) in UiPath.

Aim: 3. Install and automate any process using UiPath with the following plug-ins:

i. PDF Plugin

Step 1.   Install UiPath.PDF Package:
- a) Open UiPath Studio.
- b) Navigate to "Manage Packages" > "All Packages."
- c) Search for "uipath.pdf" and select 'UiPath.PDF.Activities.'
- d) Click "Install" to install the package.
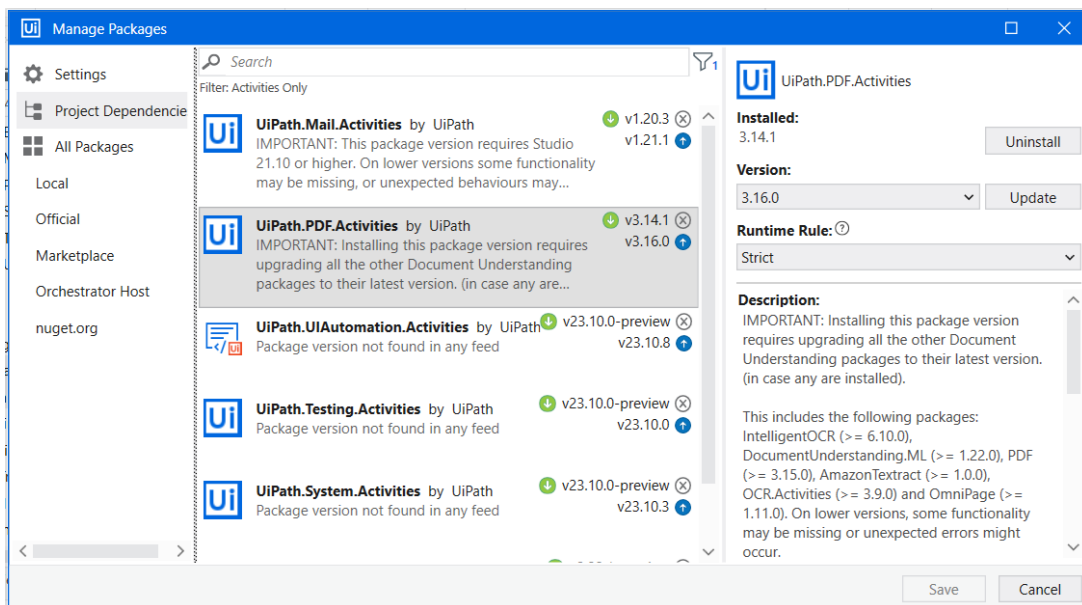
Step 2.   Drag and drop the "Read PDF Text" activity into your sequence.

Step 3.   Within the activity, click on the field for selecting a PDF file and choose the desired PDF.
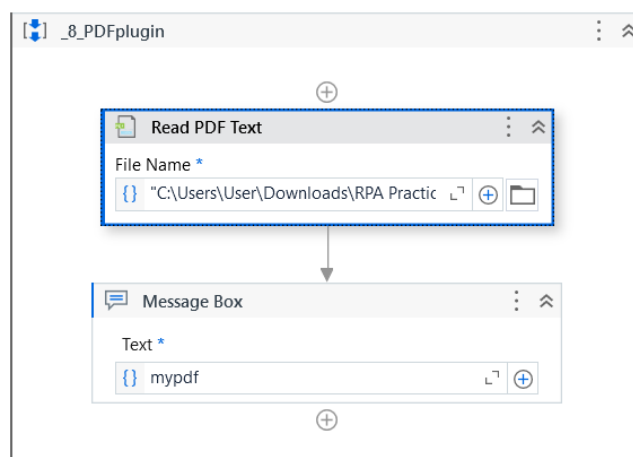
Step 4.   In the properties of the "Read PDF Text" activity, set the range of pages and select a string variable to store the extracted text.

Step 5.   Integrate a "Message Box" activity into your sequence.

Step 6. Use the string variable to display the extracted text in the message box.

Common	
DisplayName	Read PDF Text
File	
FileName	"C:\Users\User\C ⊕ ...
Password	*The password of* ⊕ ...
Input	
PreserveFormatting	*A flag used to sig* ⊕ ...
Range	"1" ⊕ ...
Misc	
Private	☐
Output	
Text	mypdf ⊕ ...

OUTPUT:

Message Box ✕

INDEX
Roll No: _ _____
PSIT3P4a Robotic Process Automation
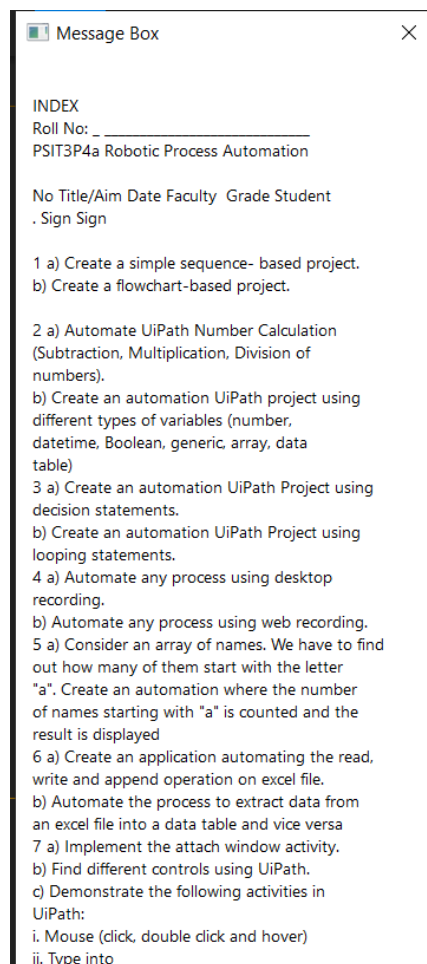
No Title/Aim Date Faculty Grade Student
. Sign Sign

1 a) Create a simple sequence- based project.
b) Create a flowchart-based project.

2 a) Automate UiPath Number Calculation
(Subtraction, Multiplication, Division of
numbers).
b) Create an automation UiPath project using
different types of variables (number,
datetime, Boolean, generic, array, data
table)
3 a) Create an automation UiPath Project using
decision statements.
b) Create an automation UiPath Project using
looping statements.
4 a) Automate any process using desktop
recording.
b) Automate any process using web recording.
5 a) Consider an array of names. We have to find
out how many of them start with the letter
"a". Create an automation where the number
of names starting with "a" is counted and the
result is displayed
6 a) Create an application automating the read,
write and append operation on excel file.
b) Automate the process to extract data from
an excel file into a data table and vice versa
7 a) Implement the attach window activity.
b) Find different controls using UiPath.
c) Demonstrate the following activities in
UiPath:
i. Mouse (click, double click and hover)
ii. Type into

ii. EXCEL PLUGIN

Pre-requisite: Install UiPath.Excel.Activities

Step 1.   Install <u>Excel Plugin</u>(Home > Tools > UiPath Extensions > Install 'Excel Add-in')

Step 2.   Create an Excel file containing two columns: "Name" and "Marks."

Step 3.   In UiPath Studio, add an "Excel Application Scope" activity to your sequence.

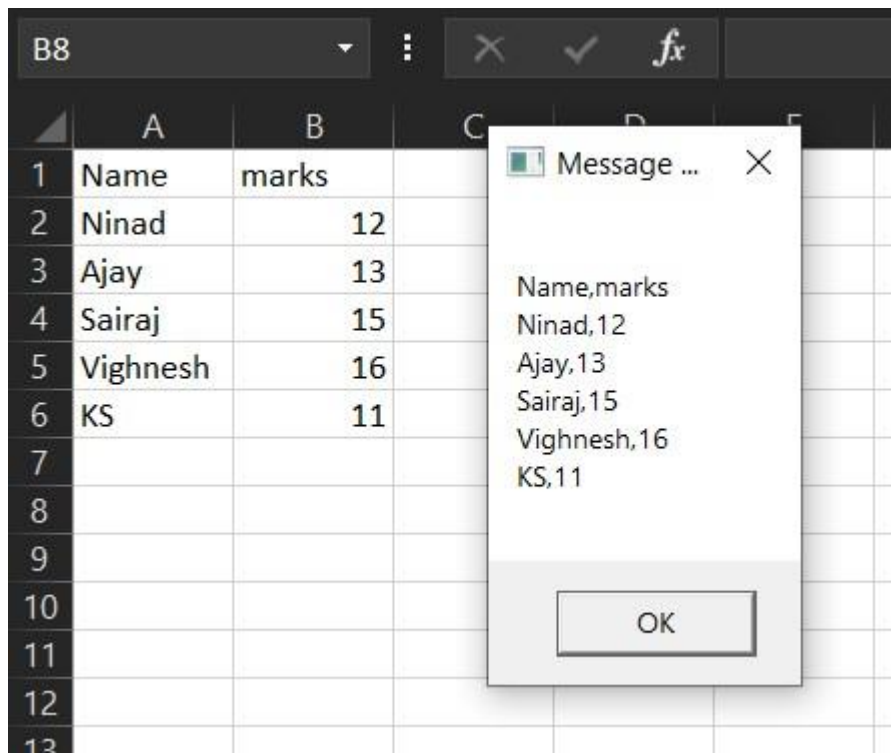**Step 4.**   Within the activity, select the Excel file you created in step 2.
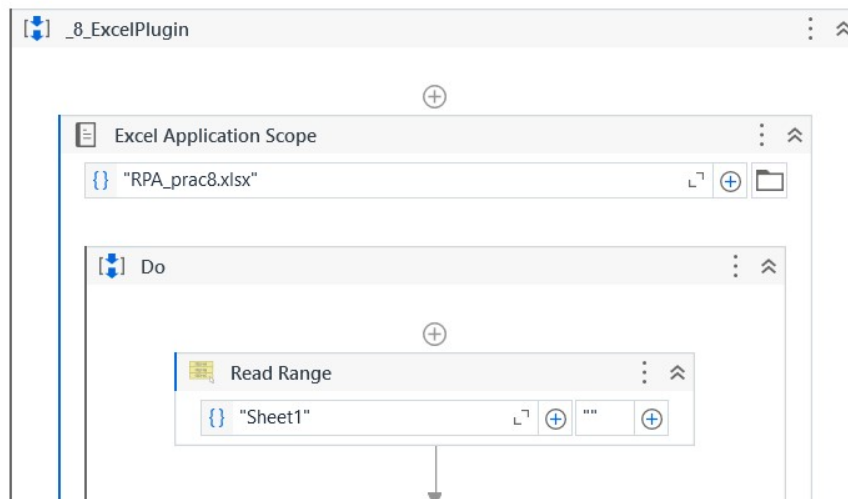
Step 5.   Add a "Read Range" activity inside the Excel Application Scope.

Step 6.   Integrate a "Message Box" activity into your sequence.
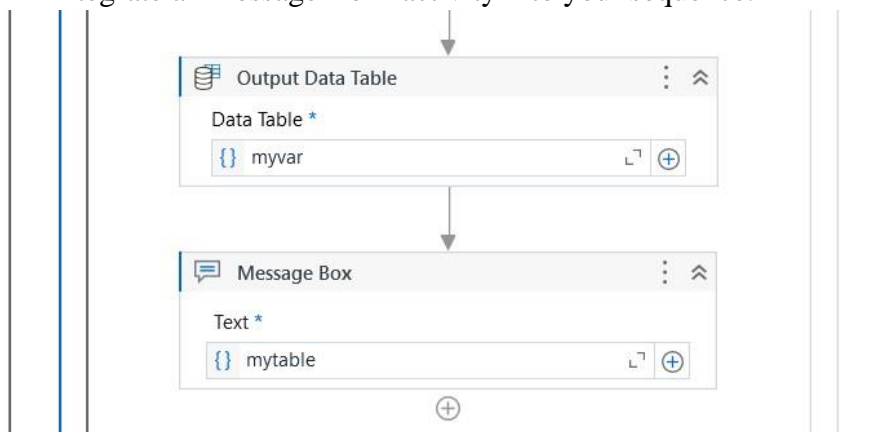
Step 7.   Use the output of the "Read Range" activity to display the read data in the message box.

OUTPUT:

Learnings:

i. PDF Plugin:

We learned to install the UiPath.PDF package, use the "Read PDF Text" activity to extract text from a PDF file, and display the extracted text in a Message Box.

ii. Excel Plugin:

We grasped the process of installing the UiPath.Excel.Activities plugin, adding an Excel file containing data, utilizing "Excel Application Scope" and "Read Range" activities to read data, and displaying the read data in a Message Box using the output variable.