

is a software
to build, deploy,
emulate, humans actions,
communications.

any business flow
hand, Traditional
various scripts.

building new systems
involved, only with
testing them.

ong other automation
with UiPath

st.

Experiment-2

Date: _____

2. Perform automation for variables and data types

PROCEDURE

In UiPath, you can perform automation tasks involving variables and data types using various activities within workflows. Here's how you can work with variables and data types in UiPath:

1. Create Variables
 - In UiPath Studio, you can create variables by going to the “Variables” panel in the bottom left corner.
 - Click on the “Create Variable” button and define the variable name, data type, and default value if needed.
 - UiPath supports various data types such as String, Integer, Double, Boolean, Array, DataTable, etc.
2. Assign Values to Variables

Use the “Assign” activity to assign values to variables.

Drag and drop the “Assign” activity onto the workflow canvas.

In the “To” field, select the variable you want to assign a value.

In the “Value” field, specify the value to be assigned, which can be a constant value or another variable.

By following these steps, you can effectively work with variables and data types in UiPath to create robust and efficient automation workflows

SOURCE CODE

Array (Integer)

[B] Sequence

(x) Assign

Save to

{ y ArrayData = { y NewInteger() {1,2,3,4,5} }

for each current Number

In *

{ y ArrayData

↳ Body

Message Box

{ y Current Number }

Array (String)



(x) Assign

Save to

{ y ArrayString; d y NewString () {"Hello"} }

for each currentText

In *

{ y ArrayString

↳ Body

Message Box

{ d Current Text }

Robotic Process Automation

AND or OR (Boolean)

[8] Sequence

Input Dialog

Dialog Title:

↓ Y

Input label:

↓ Y "Enter A"

Value Entered:

↓ Y A

Input Dialog

Dialog Title:

↓ Y

Input label:

↓ Y "Enter B"

Value Entered:

↓ Y B

↓ Y I

Condition:

↓ Y A and B [A or B]

↓ Then

Message Box

Text:

↓ Y True

Message Box

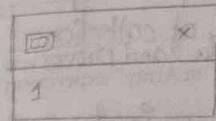
Text:

↓ Y False

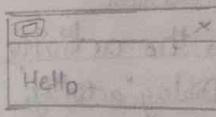
10

OUTPUT

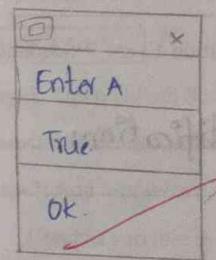
Output-1 : Array Int



Output-2 : Array String



Output-3 : Boolean (A)



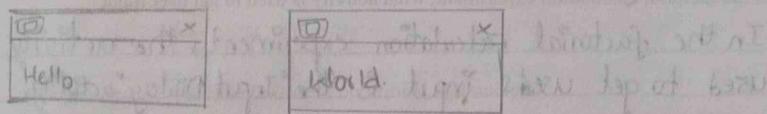
29/1/24

OUTPUT

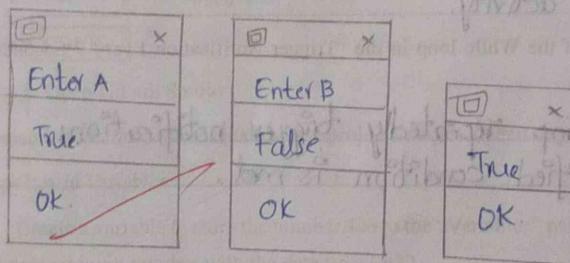
Output-1 : Array Integer



Output-2 : Array String



Output-3 : Boolean (AND) operation.



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VIVA QUESTIONS

1. What is the primary purpose of a For Each activity in UiPath?

Ans. The for each activity enables you to step through arrays, lists, data tables or other types of collections so that you can iterate through the data and process each item.

2. What variable type is used to store an array in the "Iterating Over an Array" experiment?

Ans. The variable type used to store an array is typically $\text{Array} < T >$ where T is the type of element of array.

3. In the factorial calculation experiment, what activity is used to get user input?

Ans. In the factorial calculation experiment, the activity used to get user's input is the "Input Dialog" activity.

4. How do you control the delay between notifications in the "Trigger Notification Every 5 Seconds" workflow?

Ans. We can control the delay between notifications using "Delay" activity.

5. What is the purpose of the While loop in the "Trigger Notification Every 5 Seconds" experiment?

Ans. The while loop repeatedly trigger notifications until a specified condition is met.

Dr
29/1/22

3. Design a process for control flow: Co

Designing a process with conditional different actions based on specific conditions includes conditional statements. In this example, we will design a process that given number is positive, negative, or zero.

PROCEDURE

- Step-1:** Open UiPath Studio

Launch UiPath Studio and create a new project.

- Step-2:** Add Variables

Create a variable to store the number and name it input number with the data type Int32.

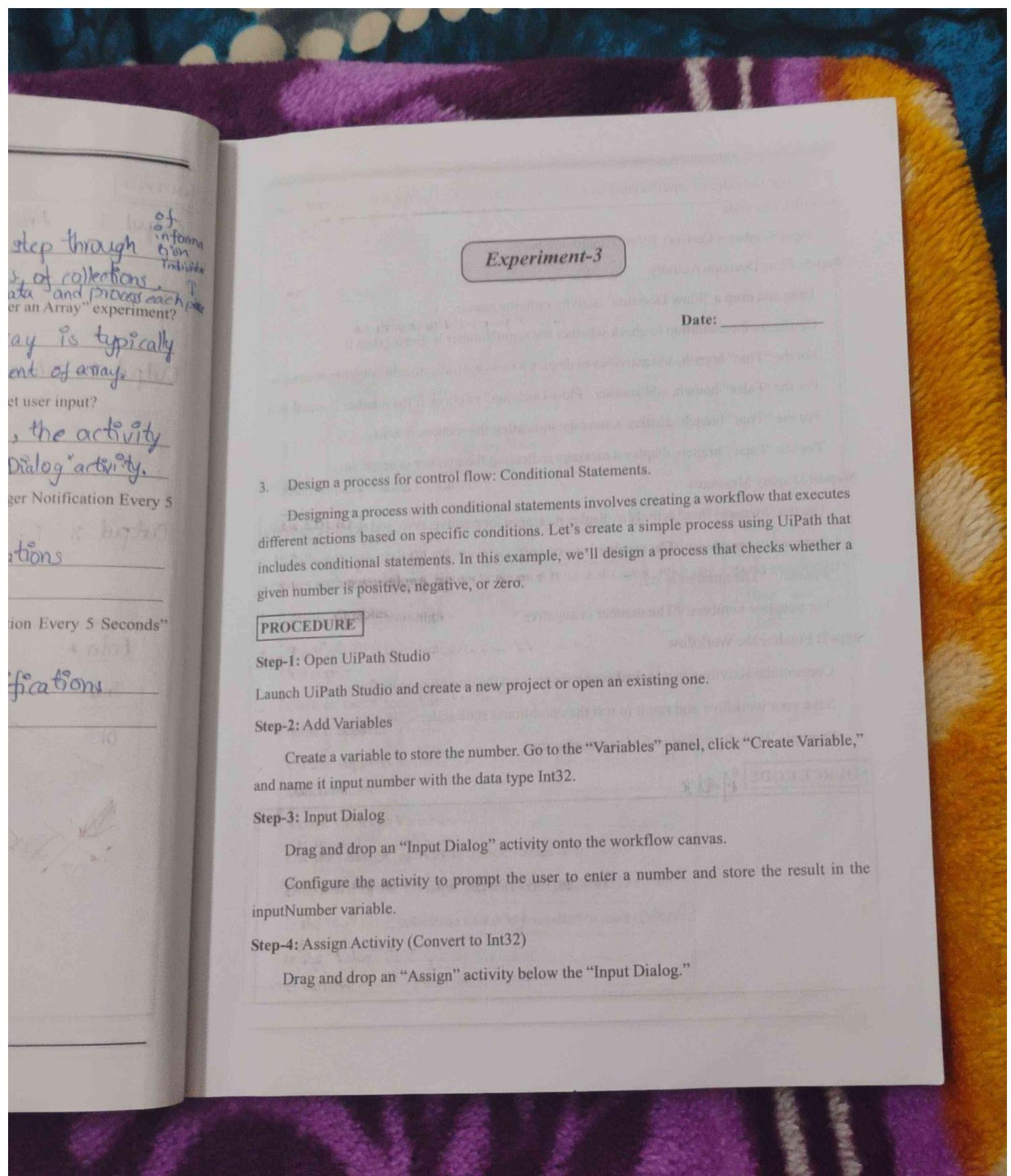
- Step-3:** Input Dialog

Drag and drop an "Input Dialog" activity.

Configure the activity to prompt the user for inputNumber variable.

- Step-4:** Assign Activity (Convert to Int32)

Drag and drop an "Assign" activity.



following expression:

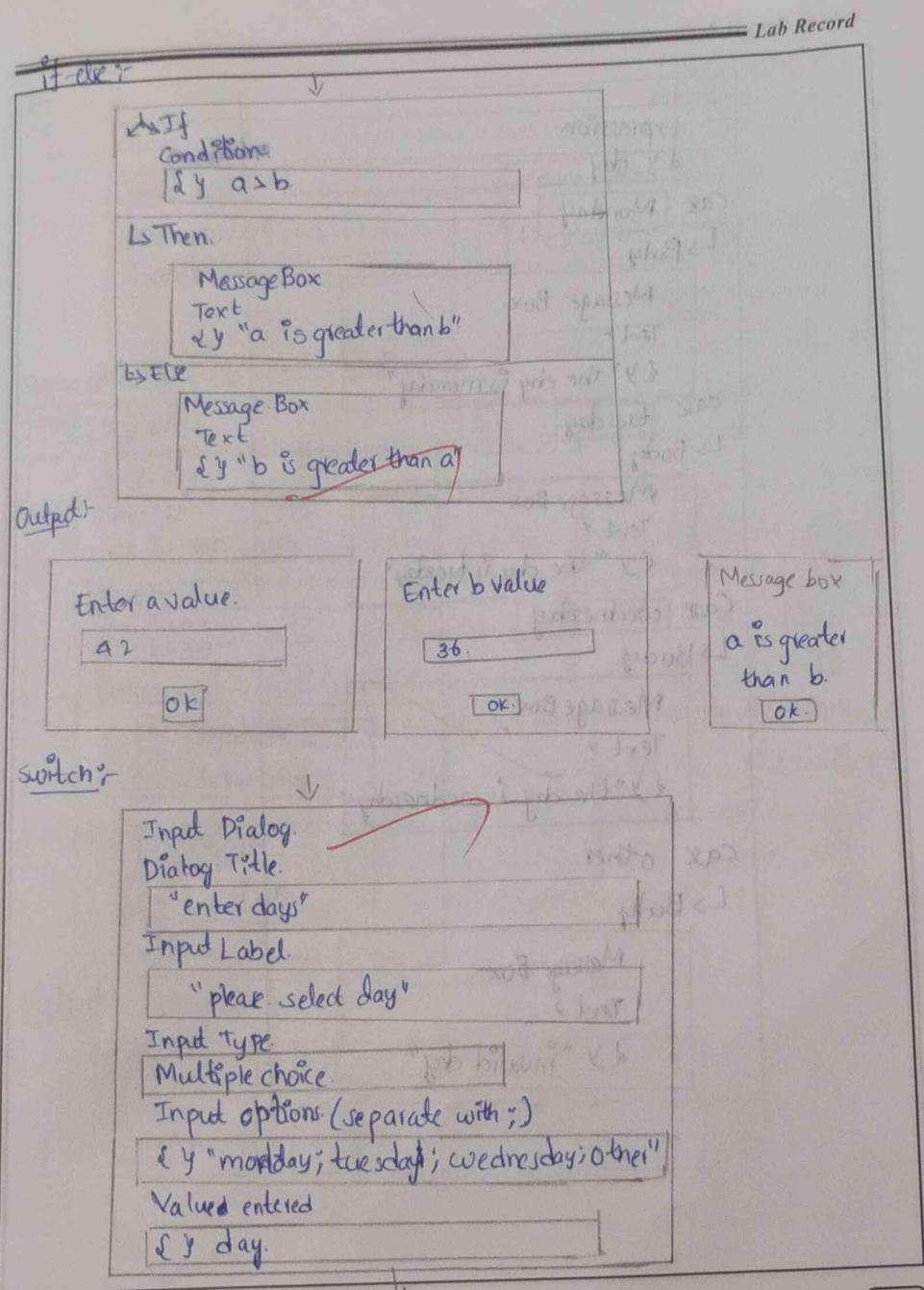
than 0.

number is positive.

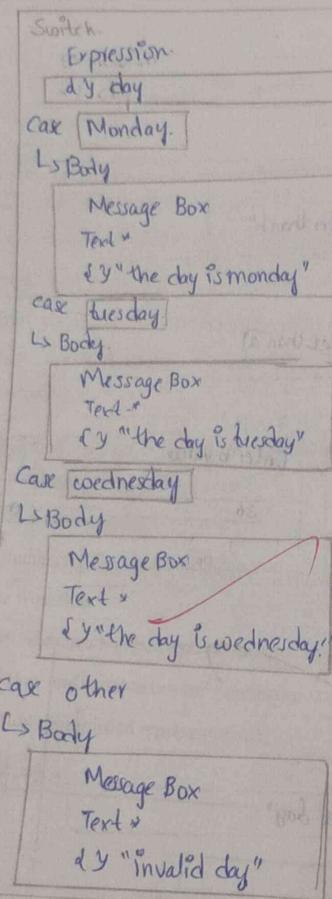
umber is equal to 0.

tive.

negative numbers.

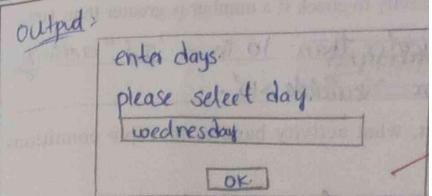


Robotic Process Automation



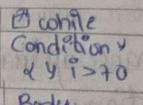
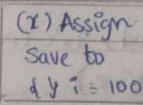
16

OUTPUT

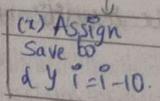
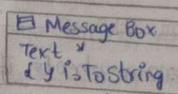


Implementation of while statement

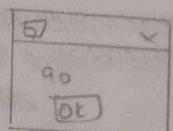
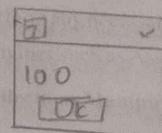
[B] Sequence



Body



Output:



OUTPUT

Output:

enter days.

please select day

wednesday

OK

Message Box

x

the day is wednesday

OK

Implementation of while statement

[B] Sequence

(1) Assign

Save to

d y i = 100

while

Condition

{ y i > 70 }

Body

Message Box

Text

{ y i.ToString }

(2) Assign

Save to

d y i = i - 10.

Output:

100

OK

90

OK

80

OK

Experiment-4

Date: _____

4. Create a process for data manipulation-scalar variables, collections, tables, and text manipulation.

PROCEDURE

1. Identify Data Sources

- Determine the source(s) of data you'll be working with. This could be Excel files, databases, web pages, or any other source.

2. Input Data Retrieval

- Use UiPath activities to retrieve data from the identified source(s). For example, if the data is in an Excel file, use activities like "Excel Application Scope" and "Read Range" to read the data into a DataTable variable.

3. Scalar Variables Manipulation

- Perform any necessary operations on scalar variables (individual data points) using UiPath activities such as Assign, Invoke Method, or Write Line.

4. Collections Manipulation

- Manipulate collections (lists, arrays, dictionaries) as needed. Use activities such as Add to Collection, Remove from Collection, For Each, or LINQ queries to manipulate collections of data.

SOURCE CODE

1. Scalar Variables.

Sequence

Input Dialog

Dialog title.

{y "Input"

Input label.

{y "Enter A value"

Value Entered

{y A

Input Dialog.

Dialog title.

{y "Input"

Input label.

{y "Enter B value"

Input Type.

TextBox

Value entered.

{y B

(x) Assign.

Save to

{y A

① = Value to save.

{y A*A + B*B - 2*A*B

Robotic Process Automation

(2) Assign.

Save to
{y B}

value to save.
{y A-B+5}

Message Box

Text *
{y "Scalar of A is " + A.ToString().

Message Box

Text *
{y "Scalar of B is " + B.ToString().

2. Text Automation.

Sequence

Assign.

Text = "RPA-LAB"

Message Box

Text. ToLower()

3. Tables.

Sequence.

Build Data Table.

Data Table.

Write range workbook.

① "student.xlsx"

"Sheet1"

extracted. text .

OUTPUT

4. Dictionary

Sequence

Assign.

```
dict_data = New Dictionary(Of Integer, String) From { {1, "Mukunika"}, {2, "Sparshini"}, {3, "Honey"}, {4, "Junnu"}, {5, "Raju"} }
```

For Each CurrentKeyValuePair Of Number And Text.

Junnu	5, Raju
OK	OK

In*

{ y dict_data }

↳ Body

{ Message Box }

Text*

{ y CurrentKeyValuePair Of Number And Text }

5. List

Sequence

(1) Assign.

Save to

Value to save

{ y ListData }

{ y NewList(Of String) }

Message Box

Text*

{ y "IOT is " & available.ToString }

Remove from Collection

Collection*

{ y ListData }

Remove element

{ specific Item }

{ By Index }

{ All Items }

Item

{ y " IOT " }

Append Items to Collection

Collection*

{ y ListData }

Items*

3 items in Collection

Exists in Collection

Collection*

{ y ListData }

Item

{ y " IOT " }

Exists in Collection

Collection*

↳ List data

Item*

↳ "IOT"

Message Box

Text*

↳ "IOT is" available. ToString

For Each currentText

In*

↳ listdata.

↳ Body

MessageBox

Text*

↳ currentText.

Output:

Enter A Value

3

Enter B Value

5

Scalar of A Is

4

Scalar of B Is

4

spa lab

Items*

3 items in collection

Exists in Collection

Collection*

↳ List data

Item*

↳ "IOT"

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3. id	Name	Roll no
1	a	101
2	b	102
3	c	103
4	d	104
5	e	105
6	f	106
7	g	107
8	h	108
9	i	109
10	j	110

4.	1, Muvanika <input type="checkbox"/>	2, Spurini <input type="checkbox"/>	3, Honey <input type="checkbox"/>	4, Junnu <input type="checkbox"/>	5, Raju <input type="checkbox"/>

① Student.xlsx	"Sheet1"	extracted text

22

OUTPUT

4. Dictionary

Sequence:

Assign:

dict_data = Ne

"Muvanika")y

{ 5, "Raju" }y).

For Each comd

In*

{ y dict_data

↳ Body

Message Box

Text*

{ y currentKeyNa

5. List

Sequence

(ii) Assign.

Save to
{ y list_data = Valu

Append Item

Collection*

{ y listdata

Items*

3 items in

Exists in

Collection*

{ y listdat

Item

{ y IOTU

Experiment-5

Date: _____

5. Design a process for recording basic, desktop and web interactions.
- Designing a process for recording interactions in basic, desktop, and web applications using UiPath.

PROCEDURE

1. Identify the Application: Determine the applications (basic, desktop, and web) that you want to record interactions with.
2. Set Up Your Environment
 - Install UiPath Studio on your machine if you haven't already.
 - Ensure that the necessary browsers (for web recording) and desktop applications are installed and accessible.
3. Create a New Project
 - Open UiPath Studio and create a new project for your recording task.
4. Recording Basic Interactions
 - For basic interactions, such as keyboard inputs or mouse clicks:
 - Use the "Basic Recording" feature in UiPath Studio.
 - Open the application you want to interact with.
 - Start the recording and perform the desired actions within the application.
 - Stop the recording when finished.

11. Deployment

- Deploy the recorded workflow to the desired environment (e.g., UiPath Studio, Orchestrator) for execution.

SOURCE CODE

Steps :-

- 1) Open ViPath and Notepad, close all other applications.
- 2) Go to activities in the left panel.
- 3) Search "Use Application/Browser".
- 4) Double click it.
- 5) In top click on "App|web Recorder".
- 6) Click to start Recording.
- 7) Open Notepad and click on Red button on App/Web Browser.
- 8) Click on file, click has been set up next.
- 9) Then type a value like hello.
- 10) Click confirm.
- 11) Do other operations like edit, view and then click on pause and save file.
- 12) Close the Notepad go to ViPath and click debug file.

Web Recording

- Open UiPath and chrome
- In chrome remove all gmail accounts and open sign in page
- In Activities select use Application/Browser as previous,
- In activities ,select use Application/Browser as
- Click on App/Web recorder
- click to start browser
- Then click on red button to start recording
- Give password in Type into and click next
- Open any account in mail.
- Then close the Browser and go to UiPath and in chrome remove your account and close chrome.
- In UiPath click on Debug file.

Use Application Browser:

<input checked="" type="checkbox"/> Chrome	Browser URL "https://1account.google.com"
Up	Type into "INPUT" Type This 123P01A0SF4@cmithyderabadi.col.in
Down	Click sing ✓

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click "DIO"

click type
single ✓

Mouse Button
left ✓

Type into "INPUT"

Type this

* * * * *

click before typing.

Single ✓

click "DIO"

click type

single ✓

Mouse Button

left ✓

click "unseal, Google, Security..."

click type

single ✓

Mouse Button

left ✓

OUTPUT**App Recording**

Use Application - Notepad

Application path

↳ Microsoft . windows Notepad . swetbylapr

LSDO

Type Into "File"

Type this

↳ "Hello"

click before typing

single

verify that hello is typed.

click "File"

click Type

single ✓

Mouse Button

left ✓

click Edit

click type

single ✓

Mouse Button

left ✓

Get Text "Font"

Save To

& y Hello

VIVA QUESTIONS

1. In the "Extracting Text from PDF?"

Ans. Read PDF text

Read PDF text

2. What property filter is used for files?

Ans. By setting "File" process only

3. List the use cases and importance

Ans. Data cleaning
Submitting ,

4. What is importance of data

Ans. Ensures data
→ Eliminates

5. What is process design concept

Ans. It is a detailed
design of a
RPA projects.

Experiment-6

Date: _____

6. Designing a process for scraping data using screen scraping and data scraping

Designing a process for scraping data using screen scraping and data scraping in UiPath

PROCEDURE

1. Identify Data Source

- Determine the application or website from which you want to scrape data.

2. Screen Scraping

- Screen scraping is used when the data you want to extract is not available in a structured format and requires extracting text or images from the screen.
- Use the "Screen Scraping" wizard in UiPath Studio:
- Open UiPath Studio and create a new project.
- Use the "Screen Scraping" wizard to indicate the elements on the screen from which you want to extract data (e.g., text, images).
- Configure the scraping options (e.g., OCR engine, scraping method) based on the type of data and its location on the screen.
- Extract the data and store it in variables or write it to a file or database.

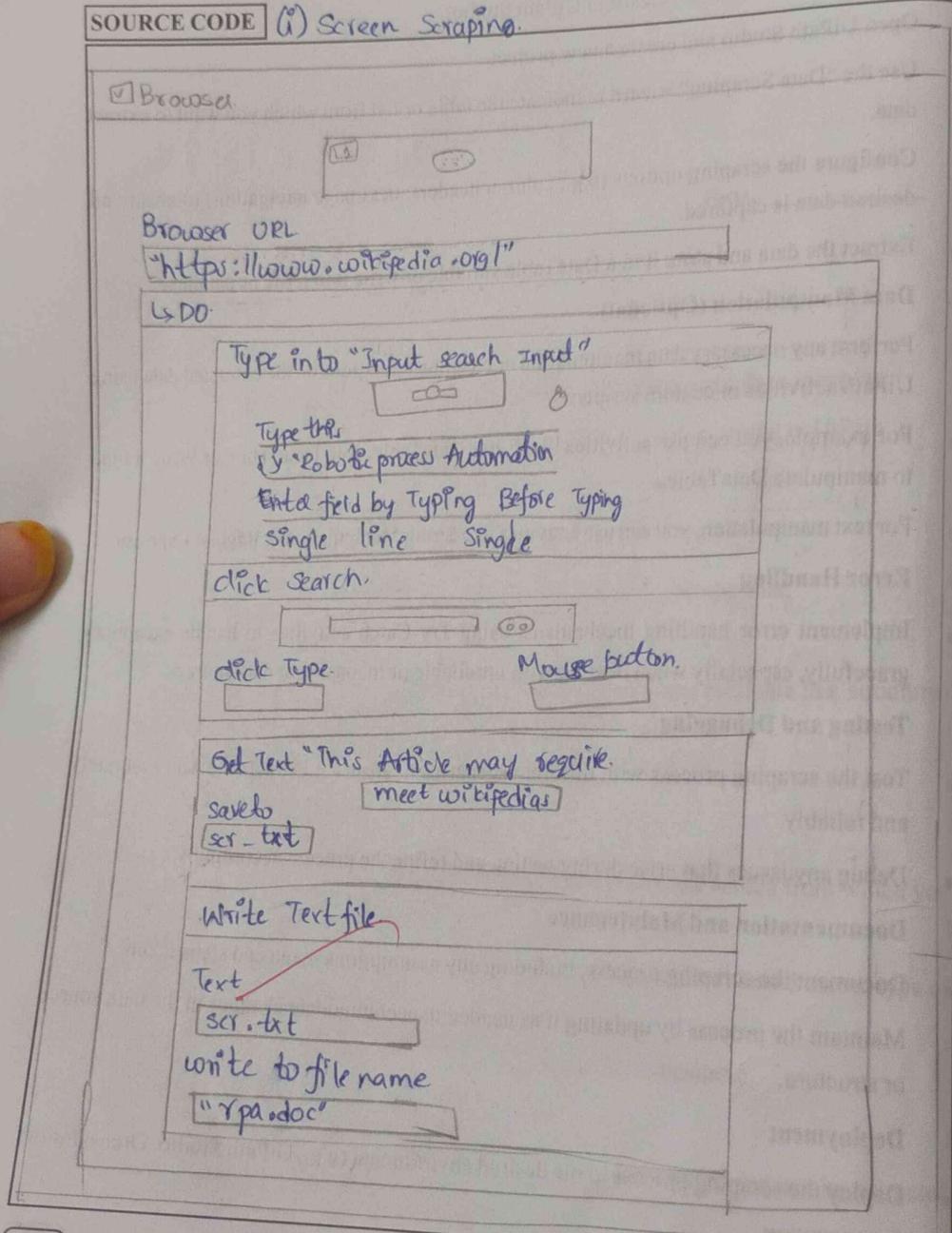
3. Data Scraping

- Data scraping is used when the data you want to extract is structured and can be extracted from tables or lists on a web page or application.

- Use the "Data Scraping"
- Open UiPath Studio and Use the "Data Scraping" data.
- Configure the scraping desired data is captured
- Extract the data and sto
- 4. **Data Manipulation (O**
- Perform any necessary UiPath activities or cus
- For example, you can to manipulate DataTables
- For text manipulation, s
- 5. **Error Handling**
- Implement error hand gracefully, especially
- 6. **Testing and Debuggi**
- Test the scraping proc and reliably.
- Debug any issues tha
- 7. **Documentation and**
- Document the scrapin
- Maintain the proces or structure.
- 8. **Deployment**
- Deploy the scraping for execution.

Robotic Process Automation

SOURCE CODE (i) Screen Scrapping.

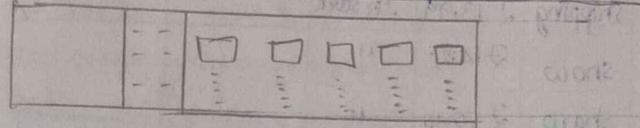


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~~adult~~ This article may require cleanup to meet Wikipedia's quality standards. Please help improve this article if you can.

(ii) Data scraping :-

Edge All product Codes to Scrape - sand box.



Browser URL

"<https://books-to-scrape.com/>"

↳ DO

Extract file.

A light in the... .

Write Range work book

"books to scrape.xls"

"Sheet 1"

Scrape-books

OUTPUT

A	B	C	D	E	F
Book name	Book price	Availability			
A light	₹ 50.17	In stock			
Shipping	₹ 13.99	In stock			
snow	₹ 14.25	"			
sharp	₹ 50.10	"			
The scriville	₹ 42.32	"			
The air fly	₹ 13.25	"			
The comin	₹ 12.72	"			

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VIVA QUESTIONS

1. What is the difference b

Ans. Screen scrappi
output of a

2. What are the scenarios
→ screen scrapping is

Ans. API's (or) start
when extract

3. What activities are us

Ans. In Upath
Text", "Get Ocr

4. How would you scre

Ans. To scrape te
use "Ocr" acti

5. What are the limita

Ans. Reliance on
dynamic co
issues in
quality in

- Adjust the selector to include unique attributes that identify the element, avoiding properties that may change dynamically.

• Use wildcards (*) where necessary to handle dynamic attribute values.

- Remove unnecessary or volatile properties from the selector to improve stability.

4. Validate Selector

- After customizing the selector, click on the "Validate" button in UiExplorer to ensure that the selector correctly identifies the target element.
- Verify that the selector is unique and does not match unintended elements on the screen.

5. Update Selector in Activity Properties

- Open the activity (e.g., Click, Type Into) that interacts with the target element.
- In the properties pane of the activity, locate the "Selector" field.
- Paste the customized selector into the "Selector" field to replace the default selector.

6. Test the Automation

- Test the automation process to verify that the customized selector correctly identifies and interacts with the target element. Run the workflow and observe the behavior of the activities interacting with the element.

SOURCE CODE

1. Browser URL

Initiates web browser interactions

URL : "https://results.config.cmithyderabad.edu.in"

specifies the website to be opened for automation.

2. DO (sequence):

Encloses a series of activities to be executed in sequence orders

3. Click Button (Activity 1 → first instance clicking to the B.Tech)

similarities another mouse click on a button element

4. click Button (Activity) - second instance

simulate another mouse click on a button elements.

R22

5. click Button 'B.Tech' R22
(Activity)

6. Type Into Input (Activity):

Enters text into an input field on the web page

value: 22RDIADS74

To browser (G)

multiple forward and backward history steps shows 11: right: 150
navigation of cursor set at address bar with the help of keyboard keys
ctrl + left arrow key to move to previous address
ctrl + right arrow key to move to next address
ctrl + shift + left arrow key to move to previous page
ctrl + shift + right arrow key to move to next page

button element

Button

vity)

< web

Browser

Lab Record

@ CMRIT result

Browser UPL

(1) "https://results.cmrithyderabad.edu.in" ↔ 0□:

↳ DO

click Button

filterAll

click Type

Single

B.Tech

mouse Button

left ✓

Click Button

filterAll

click Type

single ✓

RLL

mouse Button

left ✓

click B.Tech v semest

B.Tech v semest RLL

click type

single ✓

mouse Button

left ✓

To Type into "input"

+1 ALL TICKET NUMBER

This + br

Y22P01AOSF4

OUTPUT

results with hyperlinks

REPORTS

Category	CPA
20	25

Dr
2/3

VIVA QUESTIONS

1. What is a selector in UiPath?
Ans. A selector is a specific UI element.
2. Why are selectors important?
Ans. Because they identify and interact with UI elements.
3. What are the key components of a selector?
Ans. The key components are values.
4. What is the purpose of an area?
Ans. A container for selecting multiple UI elements using other UI selection methods.
5. What is UI-Explorer, and how does it help in UI automation?
Ans. UI Explorer is a tool that helps you to create UI elements.

Experiment-8

Date: _____

8. Create a process for image and text automation

AIM

To create a process for image and text automation in UiPath, we'll design a simple workflow that involves extracting text from an image using OCR (Optical Character Recognition) and performing text manipulation tasks.

PROCEDURE

1. Open UiPath Studio

- Launch UiPath Studio on your computer.

2. Create a New Project

- Click on "New Process" to create a new automation project.
- Give your project a name and choose a location to save it.

3. Design the Workflow

- Drag and drop a "Sequence" onto the canvas. This will be the main container for your activities.

4. Add Activities for Image and Text Automation

- Add activities to perform image and text automation tasks. Below are the activities you'll use:

Load Image: Use the "Load Image" activity to extract text.

OCR Text Recognition: Use the "OCR Text Recognition" activity to extract text from a loaded image using OCR technology. You can specify the language and other parameters based on your requirement.

Assign Activity: Use the "Assign Activity" activity to assign the extracted text to a variable or regular expression.

Write Line: Use the "Write Line" activity to write the extracted text to a file or database.

5. Configure Activities

- Configure each activity with the required settings.
- Specify the file path for the image file.
- Choose the appropriate OCR engine for the image.
- Write the necessary manipulation logic for the extracted text.

6. Run the Workflow

- Save your workflow and click on the "Run" button to execute it. Monitor the execution progress and verify if the output is manipulated as expected.

SOURCE CODE

1. Browser URL (Input)
"https://cmithyden.com"

Define the starting URL by specifying the URL in the input field.

- **Load Image:** Use the “Load Image” activity to load the image file from which you want to extract text.
 - **OCR Text Recognition:** Use the “OCR Text Recognition” activity to extract text from the loaded image using OCR technology. Configure the OCR engine and other settings as per your requirement.
 - **Assign Activity:** Use the “Assign” activity to manipulate the extracted text. For example, you can assign the text to a variable and then manipulate it using string manipulation functions or regular expressions.
 - **Write Line:** Use the “Write Line” activity to output the manipulated text to the Output panel or a text file for verification.
5. **Configure Activities**
- Configure each activity with the necessary inputs and properties. For example:
 - Specify the file path for the image in the “Load Image” activity.
 - Choose the appropriate OCR engine and language in the “OCR Text Recognition” activity.
 - Write the necessary manipulation code in the “Assign” activity to process the extracted text.
6. **Run the Workflow**
- Save your workflow and click on the “Run” button in UiPath Studio to execute the automation process. monitor the execution and verify that the text is extracted from the image and manipulated as expected

SOURCE CODE

1. Browser URL (Input):
 “https://cmrithyderabad.edu.in” purpose
 Define the starting point of the automation
 by specifying the target website

2. DO:
function: A container that organizes the sequence of activities to be performed

3. Get OCR Text "IMA (activity):
Type: optical character recognition (OCR)
activity.

IMA: Represents the image source for the OCR process

4. Message Box (activity):

Text {y ex.

Displays a message box with the extracted Text

Ex: A variable holding the output from the OCR activity.

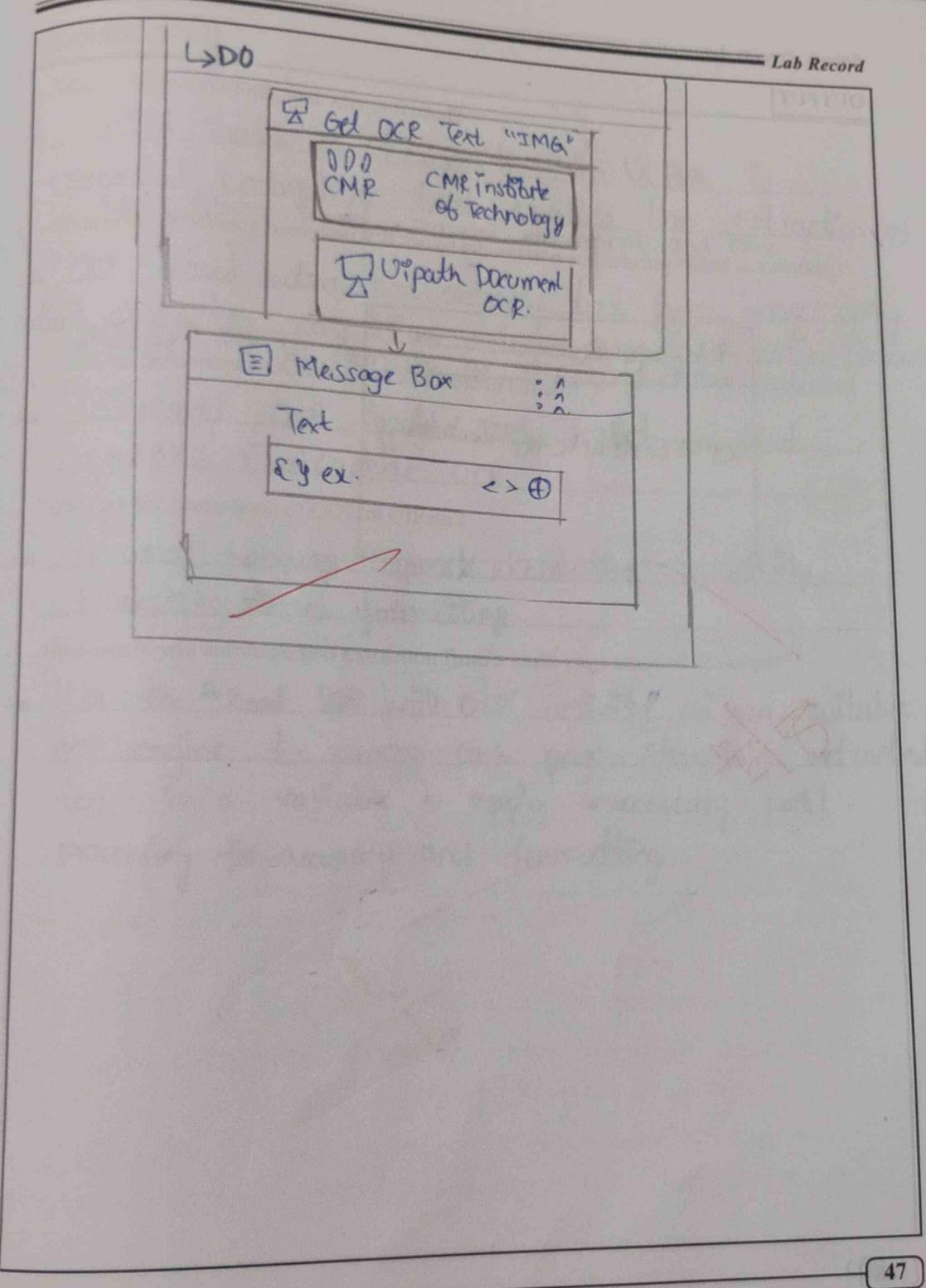
CMP edge Top engineering college in hyderabad : :

CMP

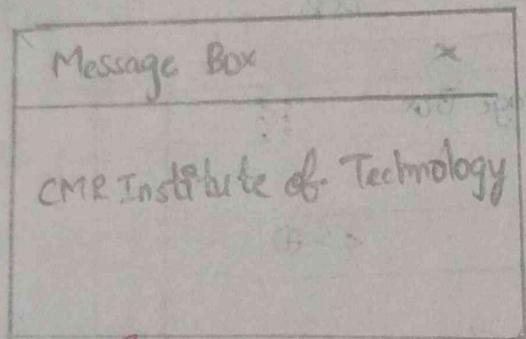


SOURCE CODE

{ "https://cmptopengineeringcollegehyderabad.edu.in" } > @ []



OUTPUT



Experiment-9

Date: _____

9. Design a process for automating Data tables in Excel.

AIM

To design a process for automating Data tables in Excel using UiPath

PROCEDURE

1. Open UiPath Studio
 - Launch UiPath Studio on your computer.
2. Create a New Project
 - Click on "New Process" to create a new automation project.
 - Give your project a name and choose a location to save it.
3. Design the Workflow
 - Drag and drop a "Sequence" onto the canvas. This will be the main container for your activities.
4. Add Activities for Excel Automation
 - Add activities to perform automation tasks related to Data tables in Excel. Below are the activities you'll use:
 - **Excel Application Scope:** Use the "Excel Application Scope" activity to specify the Excel file you want to work with. This activity will open Excel and establish a connection to the file.

- Read Range: the Excel file
- Write Range to a specific range
- Filter Data based on specific criteria
- Join Data tables on a common column
- Excel Close: once the automation is complete
- 5. Configure Activities
 - Configure each activity
 - Specify the flow of activities
 - Specify the conditions
- Specify the final output
- Specify the connection details
- 6. Run the Workflow
- Save your workflow. Monitor the progress and expected results

SOURCE CODE

- ① Opens an Excel file : It opens the Excel file specified in the 'Work book path', within the "Excel scope" activity.
- ② Reads data from a sheet : It reads the data from "sheet 1" of the Excel file data.
- ③ Converts data to a string : It converts the data from the Excel sheet into a string using the "output" Data Table activity.
- ④ Displays the data in a message box : It displays the string containing the Excel data in a message box.

Sequence

Read

l3

l3

0

Message

Table

OBJECT CODE

Sequence

Read Range WorkBook

```
{> 'c:\Users\Student\ContactDetails.xls'@  
& "sheets"
```

2 ④ ④

Output Data table as text

Data Table *

{> x

l ④

MessageBox

Text *

{> y

l ④

Message Box

Name Email ID Contact No

keerthana.modi.pedd@gmail.com

keerthana.modi.pedd1802@gmail.com

~~Dr
/PL~~

Experiment-10

Date: _____

10. Perform email automation.

AIM

Performing email automation typically involves tasks such as sending emails, reading emails, and processing email attachments.

PROCEDURE

1. Open UiPath Studio
 - Launch UiPath Studio on your computer.
2. Create a New Project
 - Click on “New Process” to create a new automation project.
 - Give your project a name and choose a location to save it.
3. Design the Workflow
 - Drag and drop a “Sequence” onto the canvas. This will be the main container for your activities.
4. Add Activities for Email Automation
 - Add activities to perform email automation tasks. Below are the activities you’ll use:
 - **Get IMAP Mail Messages:** Use the “Get IMAP Mail Messages” activity to retrieve emails from an IMAP mailbox. Configure the activity to connect to your email server and specify the mailbox and search criteria (e.g., unread emails).

Read Range Workbook.

“mailId.xlsx”
“Sheet1”

↓

Output data table.

DataTable
mail data. (datatable)

→

Message Box

Text
mail string

↓

For Each row in DataTable.

DataTable

maildata

Item

currentRow

↳ Body

Get Row Item

Row*

CurrentRow

column* @Number @Name

To

Value

userName string

↓

Get Row Item

Row*

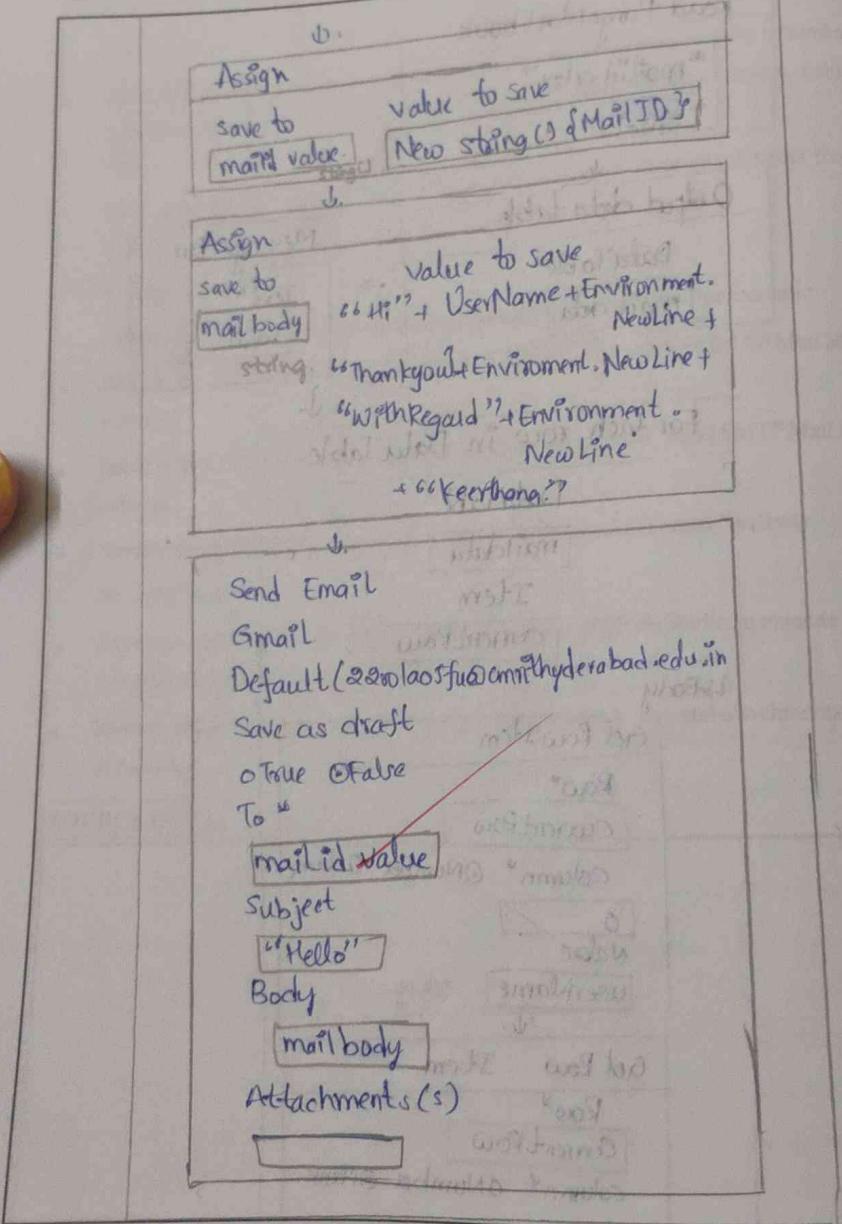
CurrentRow

column* @Number @Name

“EmailID”

Value

MailID string



OUTPUT

Name, emailID , Cont
Keerthana - 22001ao5f46
Muvanika 22001ao5f46

OUTPUT

Lab Record

Name, emailID , ContactNo

Keerthana . 280104074@cmrithyderabad.edu.in 9309778257

Mrunika 2200100534@cmrithyderabad.edu.in 9866566379

~~Dr~~
~~20/12~~

Letter of ~~20/12~~ scope planning step

Experiment-II

Date: _____

- II. Design a process to read all PDF files from a folder and then close them all.

AIM

To design a process to read all PDF files from a folder and then close them all using UiPath.

PROCEDURE

1. Open UiPath Studio
 - Launch UiPath Studio on your computer.
2. Create a New Project
 - Click on “New Process” to create a new automation project.
 - Give your project a name and choose a location to save it.
3. Design the Workflow
 - Drag and drop a “Sequence” onto the canvas. This will be the main container for your activities.
4. Add Activities for PDF Automation
 - Add activities to perform PDF automation tasks. Below are the activities you’ll use:
 - **Assign Activity:** Use the “Assign” activity to specify the folder path where your PDF files are located. Store this path in a variable.

SOURCE CODE

Robotic Process Automation

- **Directory.GetFiles:** Use the "Directory.GetFiles" method to get a list of all PDF files in the specified folder. Store this list in an array variable.
 - **For Each:** Use a "For Each" activity to iterate through each PDF file in the array.
 - **Read PDF Text:** Use the "Read PDF Text" activity to read the text from each PDF file.
 - **Close Application:** Use the "Close Application" activity to close the PDF reader application (e.g., Adobe Acrobat) after reading each PDF file.
5. **Configure Activities**
- Configure each activity with the necessary inputs and properties. For example:
 - Specify the folder path variable in the "Assign" activity to define the location of your PDF files.
 - Specify the array variable containing the list of PDF files in the "For Each" activity.
 - Configure the "Read PDF Text" activity to read the text from each PDF file.
6. **Run the Workflow**
- Save your workflow and click on the "Run" button in UiPath Studio to execute the PDF automation process. monitor the execution and verify that the text is read from each PDF file, and the PDF reader application is closed after processing each file

SOURCE CODE

1. Create a folder
2. Create a new process as PDF Automation
3. Add an activity "Foreach-file in-folder" *.pdf"
4. Add activity "Message box" → CurrentFile.FullName
5. Add activity "Extract pdf Text" → Local Resource.
FromPath(CurrentFile.FullName)
~~String~~
6. Add activity "Message box" → ExtractedText as variable

for Each file in folder

* For Each

Current File

In folder *

{Y "C:\User\cmr\Desktop\pdf Automation\" }④

Include subfolders

skip folder where access is denied

Filter by (ers *.xlsx) { } Enter a VB expression ④

Order by Name ascending first

↳ DO:

Message Box

Text *

{Y CurrentFile.FullName }④

Extract PDF Text

PDF file *

{Y LocalResource.FromPath(CurrentFile.
FullName)}

Message Box

Text *

{Y ExtractedText }④

Message Box

c:\User\CMR\Desktop\PDF Automation\abc.pdf

~~Do
9/4~~

Experiment-12

Date: _____

12. Create an automation to change the background Color of excel cell/rang.

AIM

Create an automation to change the background Color of excel cell/range in UiPath

PROCEDURE

1. Open UiPath Studio

- Launch UiPath Studio on your computer.

2. Create a New Project

- Click on “New Process” to create a new automation project.
- Give your project a name and choose a location to save it.

3. Design the Workflow

- Drag and drop a “Sequence” onto the canvas. This will be the main container for your activities.

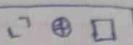
4. Add Activities for Excel Automation

- Add activities to perform Excel automation tasks. Below are the activities you'll use:
- Excel Application Scope:** Use the “Excel Application Scope” activity to specify the Excel file you want to work with. This activity will open Excel and establish a connection to the file.

Use Excel File

Excel file *

{y "week12.xlsx"}



Reference as

Excel

 Save changes Create if not exists

 Read formatting | Same as project ✓

 Template file

↳ Do

 Set Range Color

{y System.Drawing.Color.Azure

Range *

{y "A1:A4"}

SheetName *

{y "Sheet1"}

OUTPUT

Lab Record

name	email
Keerthana	22701a05f4@cmrithyderabad.edu.in
Navya	22701a05h2@cmrithyderabad.edu.in
Bhavya	22701a05t6@cmrithyderabad.edu.in
Satwika	22701a6644@cmrithyderabad.edu.in
Udaya	22701a6641@cmrithyderabad.edu.in

~~Dr /
Date~~

Experiment-13

Date: 23/4/25

- Design a process to Generate Covid-19 report and send this report

AIM

Design a process to Generate COVID-19 report and send this report to the required recipient.

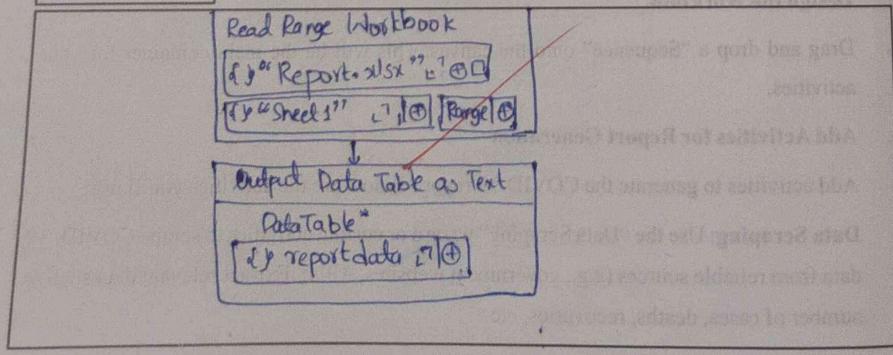
PROCEDURE

- Open UiPath Studio
 - Launch UiPath Studio on your computer.
- Create a New Project
 - Click on "New Process" to create a new automation project.
 - Give your project a name and choose a location to save it.
- Design the Workflow
 - Drag and drop a "Sequence" onto the canvas. This will be the main container for your activities.
- Add Activities for Report Generation
 - Add activities to generate the COVID-19 report. Below are the activities you'll use:
 - Data Scraping:** Use the "Data Scraping" wizard or custom activities to scrape COVID-19 data from reliable sources (e.g., government websites, APIs). Extract relevant data such as number of cases, deaths, recoveries, etc.

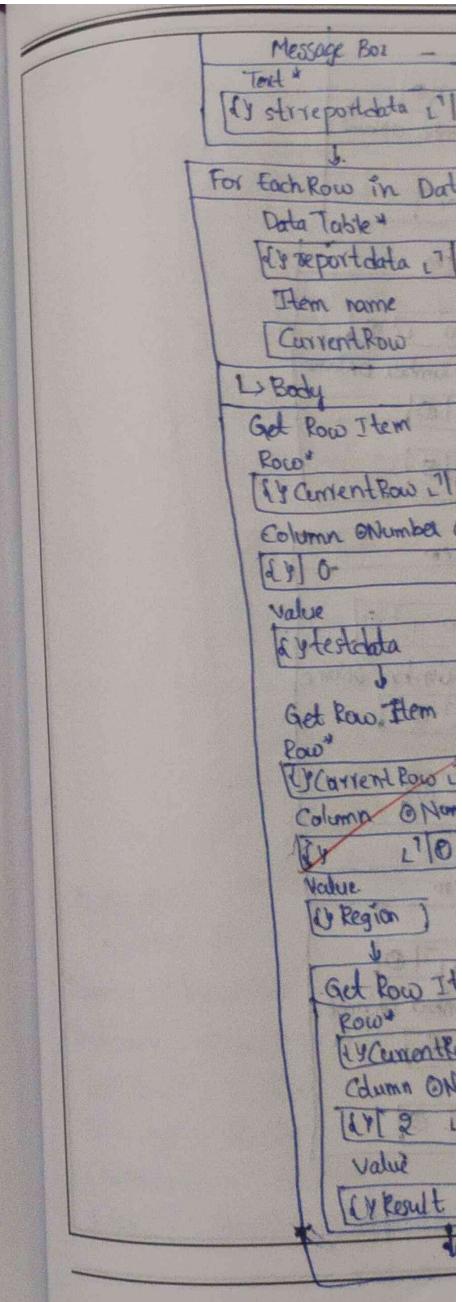
Robotic Process Automation

- **Create Report:** Use activities like “Build Data Table” to structure the extracted data into a report format (e.g., Excel, HTML).
5. **Add Activities for Email Automation**
- Add activities to send the report to the required recipient. Below are the activities you'll use:
 - **Send SMTP Mail Message:** Use the “Send SMTP Mail Message” activity to send an email. Configure the activity with the necessary details such as sender, recipient, subject, body, and attachment (attach the generated report).
6. **Configure Activities**
- Configure each activity with the necessary inputs and properties. For example:
 - Specify the data source and extraction method in the “Data Scraping” activity.
 - Structure the extracted data into a report format using the “Build Data Table” activity.
 - Configure the “Send SMTP Mail Message” activity with the appropriate email server settings and recipient details.
7. **Run the Workflow**
- Save your workflow and click on the “Run” button in UiPath Studio to execute the automation process.
 - Monitor the execution and verify that the COVID-19 report is generated and sent to the required recipient.

SOURCE CODE



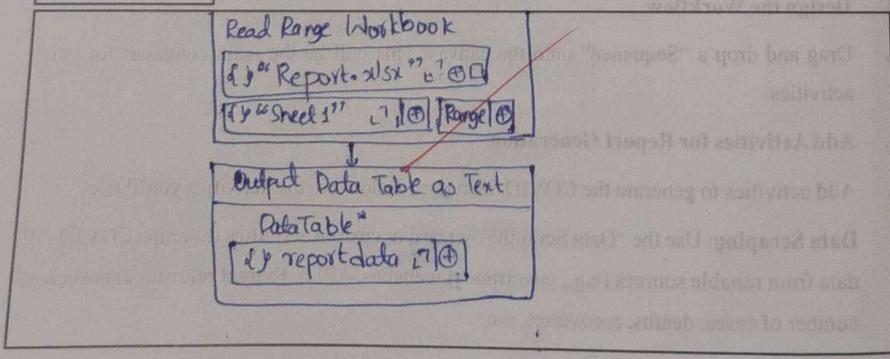
76



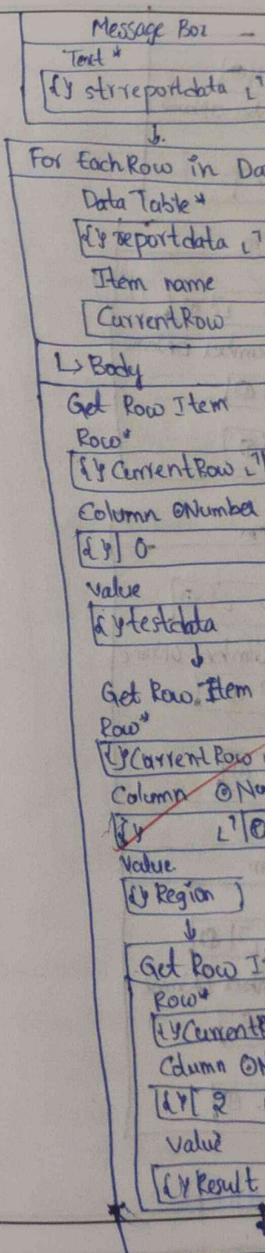
Robotic Process Automation

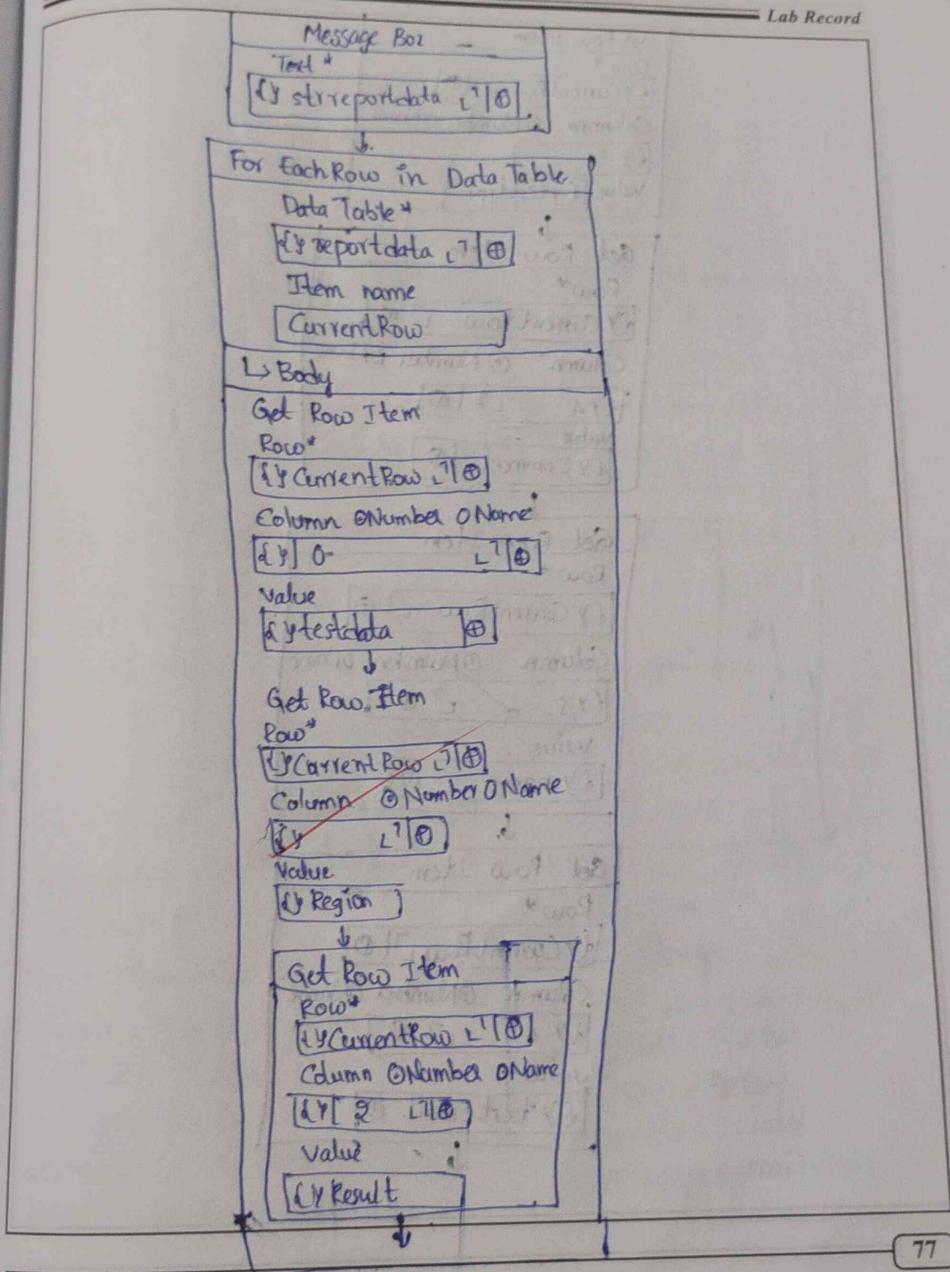
- **Create Report:** Use activities like “Build Data Table” to structure the extracted data into a report format (e.g., Excel, HTML).
- 5. **Add Activities for Email Automation**
 - Add activities to send the report to the required recipient. Below are the activities you’ll use:
 - **Send SMTP Mail Message:** Use the “Send SMTP Mail Message” activity to send an email. Configure the activity with the necessary details such as sender, recipient, subject, body, and attachment (attach the generated report).
- 6. **Configure Activities**
 - Configure each activity with the necessary inputs and properties. For example:
 - Specify the data source and extraction method in the “Data Scraping” activity.
 - Structure the extracted data into a report format using the “Build Data Table” activity.
 - Configure the “Send SMTP Mail Message” activity with the appropriate email server settings and recipient details.
- 7. **Run the Workflow**
 - Save your workflow and click on the “Run” button in UiPath Studio to execute the automation process.
 - Monitor the execution and verify that the COVID-19 report is generated and sent to the required recipient.

SOURCE CODE

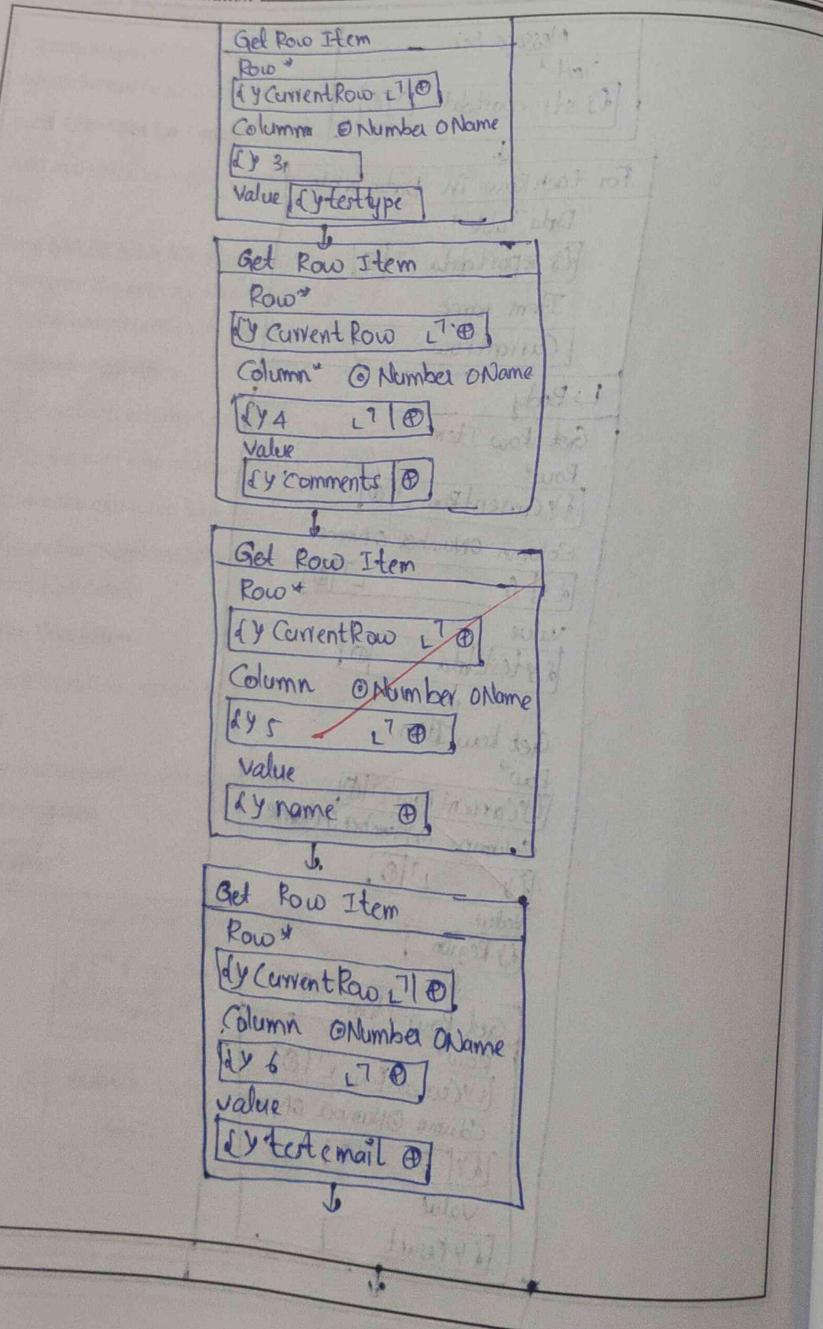


76

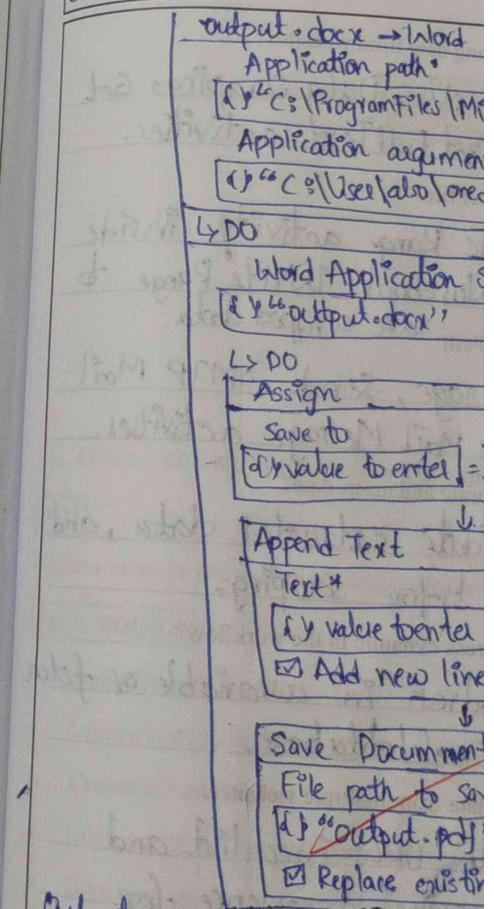




Robotic Process Automation



OUTPUT



Output:

COVID-19

Name: Muhammedka.

Test Date: 12/09/2024 00:00:00

Test Result: Positive

Test Type: Antigen

Comments: Isolated.

Email: keerthana@gmail.com

OUTPUT

Lab Record

output.docx → InWord
Application path:

{\y\c\ProgramFiles\MicrosoftOffice\root \checkbox}

Application arguments

{\y\c\Users\also\OneDrive\Documents\c:\path \checkbox}

↳ DO

Word Application Scope

{\y\c"output.docx" \checkbox}

↳ DO

Assign

Save to value to save

[value to enter] = {\y\c --- \checkbox}

Append Text

Text*

{\y value to enter \checkbox}

Add new line before text

Save Document as PDF

File path to save as*

{\y "output.pdf" \checkbox}

Replace existing

Output:

COVID-19

Name: Muvani ka.

Test Date: 12/01/2024 00:00:00

Test Result: Positive

Test Type: Antigen

Comments: Isolated.

Email: keerthana@gmail.com

COVID-19

Name: Nayya.

Test Date: 12/01/2024

Test Result: Positive

Test Type: Antigen

Comments: Isolated

Email: nayya@gmail.com

Experiment-14

Date: 20/4/25

14. Create a process which reminds a user to take his medicine after every 4 hours

AIM

Create a process which reminds a user to take his medicine after every 4 hours Using UiPath

PROCEDURE

1. Open UiPath Studio

- Launch UiPath Studio on your computer.

2. Create a New Project

- Click on "New Process" to create a new automation project.
- Give your project a name and choose a location to save it.

3. Design the Workflow

- Drag and drop a "Sequence" onto the canvas. This will be the main container for your activities.

4. Add Activities for Reminder

- Add activities to remind the user to take their medicine. Below are the activities you'll use:
- **Delay:** Use the "Delay" activity to wait for 4 hours before reminding the user. Set the duration to 4 hours (e.g., 14400 seconds).

Robotic Process Automation

- **Message Box:** Use the "Message Box" activity to display a reminder message to the user. Customize the message to indicate that it's time to take their medicine.

5. Run the Workflow

- Save your workflow and click on the "Run" button in UiPath Studio to execute the automation process.
- The automation will wait for 4 hours and then display a message box reminding the user to take their medicine.

6. Repeat the Process

- To ensure continuous reminders, you can add a loop around the sequence of activities so that the process repeats indefinitely.
- Use the "While" or "Do While" activity to create a loop that continuously executes the reminder activities every 4 hours

SOURCE CODE

1. Delay:

→ pauses the automation

Duration : 00 h 00 m 10,000s

2. Message Box:

→ Displays an on-screen notification

Text : "Gentle Reminder: It's time to take Medicine".

3. Assign

→ Sets the recipient's email address

variable : emailaddress

variable type : array [string]
string []

value

emailaddress = New String () { "2201054@cmrithydevaband.edu.in" }

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1. Send Email
→ Sends the reminder message.
Account : sendEmail
Recipient : value
("2201054")
Sub : "Take Medicine"
Body :
Dear User;
It's time
care of your

1. Send Email

→ Sends the reminder email

Account : sandra05sf4@cmrithyderabad.edu.in

Recipient : value stored in email address

(“22010505sf4@cmrithyderabad.edu.in”)

Sub : “Take medicine”

Body :

Dear User;

It's time to take medicine and take care of your health

message to the user.

ute the automation

inding the user to

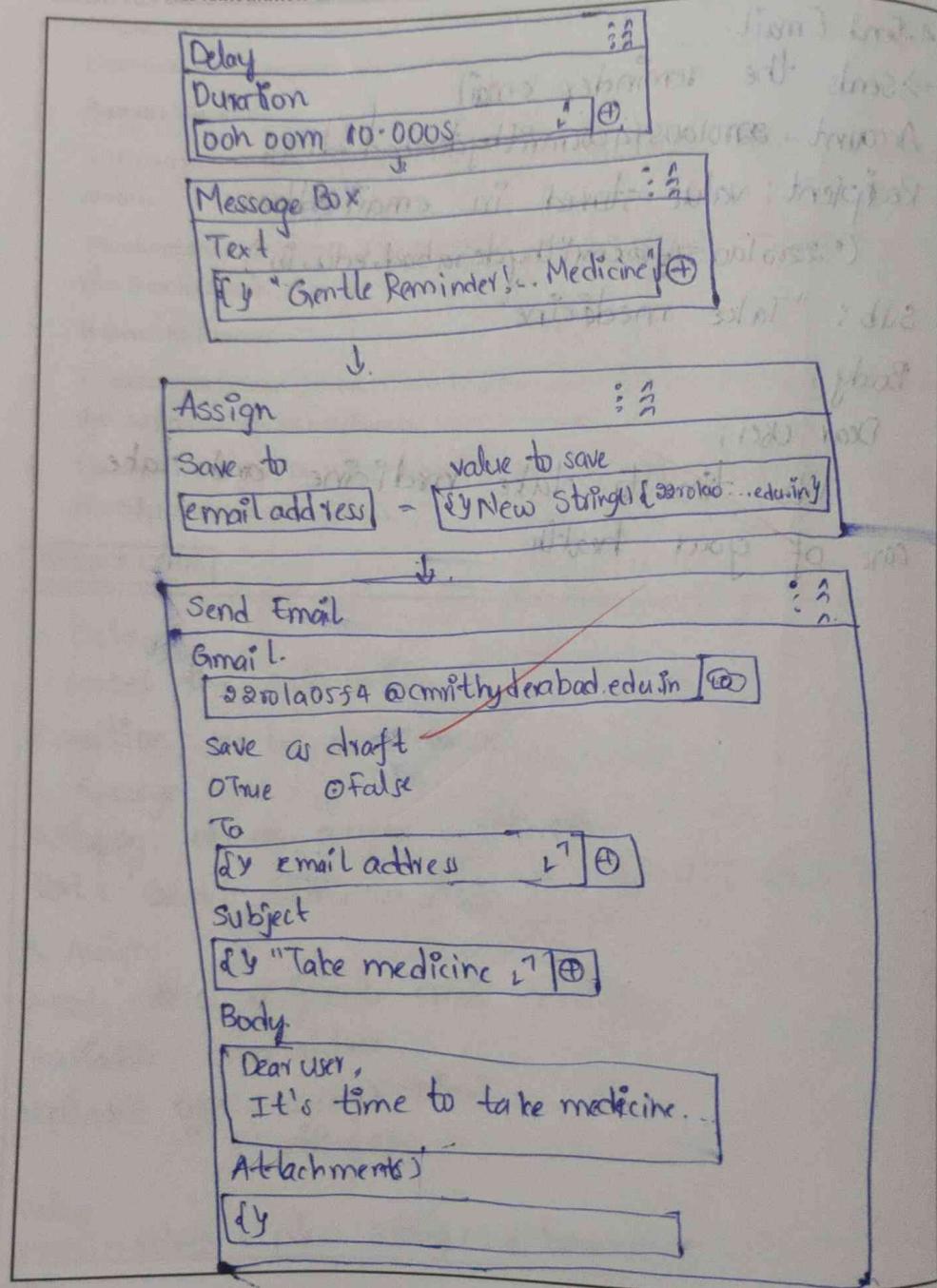
re of activities so

isly executes the

edicine”.

derabad.edu.in”

Robotic Process Automation



OUTPUT

Message Box
Gentle Re
take n
Gmail
Mr. KeePL
Dear Use
ITS

Dr
Sree

OUTPUT

Message Box

Gentle Reminder! It's time to
take medicine

Gmail

M.Keerthana

Dear User

~~It's time to take medicine~~

*Dr
Sole*