

Experiment-1

Aim: Installation of RPA packages

source code:

step 1: sign up or login

open your browser and navigate to cloud.vipath.

1) If you already have an account:

→ click on login and enter your credentials

2) If you don't have an account:

→ click on signup

→ complete the registration process by filling out the required details

→ verify your email address if prompted

step 2: Access the Automation cloud

1. After logging in you will land on the Vipath Automation cloud dashboard

2. If this your first time:

→ fill the Basic information

→ create an organization if prompted

Once logged in the dashboard will

automatically open giving you access

to various options like studio Orches-

trator and more

step 3: Navigate to the studio option

1) On the dashboard, click on the studio

open option located in the left-side

menu

2) After clicking on studio you'll be

taken to the studio dashboard.

- 3) click on Install locally
- 4) Before the download starts, an option will appear prompting you to select studio for Desktop
- 5) select studio for desktop option
- 6) click on the studio for desktop option and then the .msi file will begin downloading.
- step-4: Install UIpath studio.
- 1) After the .msi file finishes downloading locate the file in your downloads folder
- 2) double-click on the .msi file to start the installation process
- 3) A setup window will open, displaying "welcome to Uipath setup"
- 4) choose the Quick option (recommended for community users)
- 5) Accept the terms and conditions by checking the Box
- 6) click on Install to Begin the installation process
- 7) Once the Installation is completed, the Uipath setup window will show a confirmation message
- 8) In this window, click on Launch Uipath open Uipath to open studio for the first time

step-5 : sign in to Uipath studio

- 1) After clicking Launch Uipath, Uipath studio will open
- 2) you will be prompted to sign in to your Uipath account
- 3) enter your login credentials (the same ones used for cloud Uipath.com)
- 4) once signed in Uipath studio will automatically connect to your account and retrieve the licence details
- 5) after signing in you will be welcomed directly to the Uipath studio interface, ready for you to start creating automations

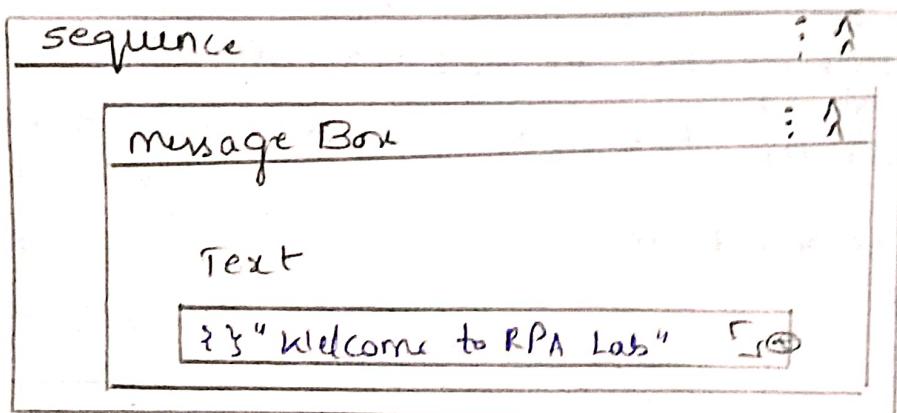
 Step 5 completed

 Step 6 completed

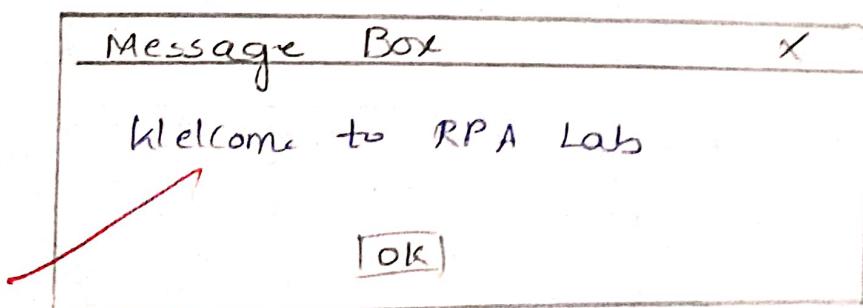
Experiment - 2

Aim: perform automation for variables & datatypes

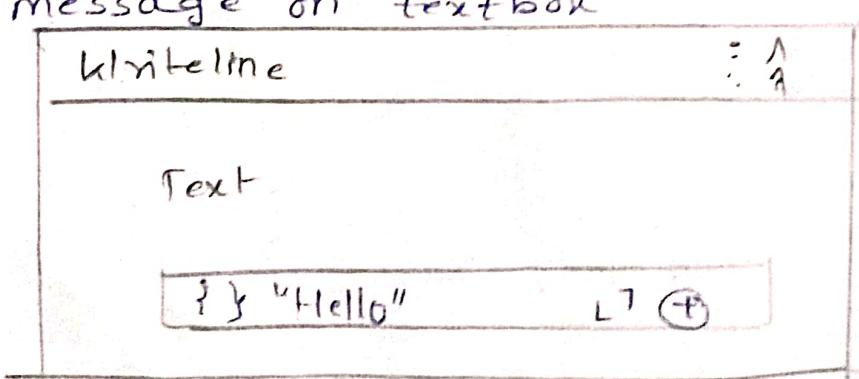
- After creating a process from the left pane drag sequence to the main panel
- click on  on the search bar, search for message box and In the text box write any message



Output:



Now, writeline type on search Bar by clicking on  and type on message on textbox



Output: Hello

2) Addition of two Numbers

→ click on \oplus and search for assign and drag it to sequence panel

Assign	:	A
Save to	value to save	
{ } A \oplus	=	{ } 10 [] \oplus

Go to variables which is at bottom now
from variables type change "string" to "Int32"

Assign	:	A
Save to	value to save	
{ } B \oplus	=	{ } 20 [] \oplus

Assign	:	A
Save to	value to save	
{ } ADD	=	{ } A+B [] \oplus

Create a message box by clicking on
the \oplus symbol and under space provided by
given below text

Assign message Box	:	A
Save to		
Text		
{ } "Addition is :" + c.ToString		

Output:

message Box	:	A
Addition is : 30		
OK		

3) User Input:

→ click on \oplus and search for Input details

Input Dialog : \wedge

Input Label

{ } "Enter M value"

value Entered

{ } M

Output:

Enter m value

2

OK

Input Dialog : \wedge

Input Label

{ } "Enter N value"

value Entered

{ } N

Enter N value

3

OK

Input Dialog : \wedge

{ } L = { } m * N \oplus

Output:

message Box \times

mult is : c

OK

Input Dialog : \wedge

+ ex5

{ } "mult is :" + L.ToString

✓

Experiment - 3

Aim: Design a process for control flow

a) conditional statements

1) If conditional statement:

procedure:

1) Drop Input Dialog Activity on to Main sequence.

2) At input Label in Input Dialog Activity enter a string like "enter a value" and create a variable 'a'

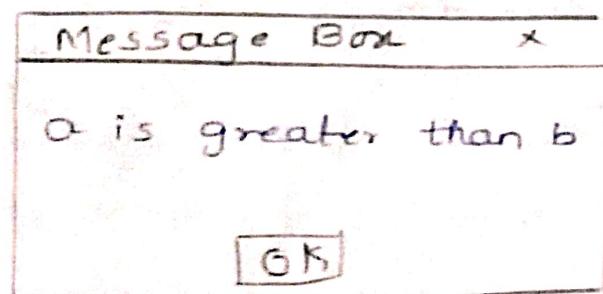
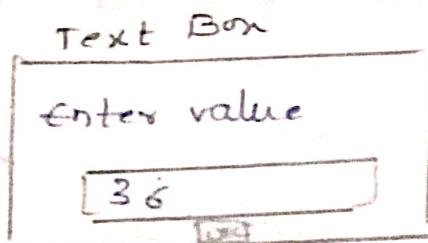
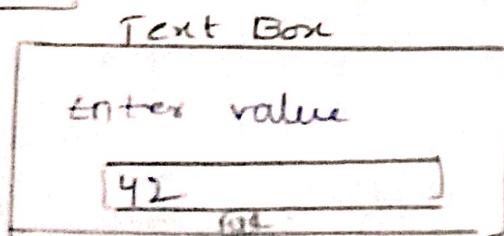
3) Take another input dialog activity and follow same procedure as above for variables 'b'.

4) Now drop if condition Activity onto main sequence

→ At if dialog, enter condition like " $a > b$ ". In then drop message box activity and enter the string "a is greater than b"

→ At else dialog, drop message box Activity and enter the string "b is greater than ~~a~~"

output:



2) switch statement procedure

- 1) Drop Input dialog activity on to main sequence
- 2) At Input label in input dialog activity enter the string "enter days / Please select a day"
- 3) At input type, choose the option multiple choice
→ enter input options
Ex: "monday", tuesday ; other
- 4) Create a variable "day"
- 5) Now drop switch activity on to the main sequence
- 6) At expression label enter "day"
(variable name)
At case label add "input options" (Monday)
- Now drop message Box inside case Label
→ enter required string
for ex; if case is monday
string is: "The day is Monday"
- repeat the same procedure for all input options

Output:

<u>enter days</u>
Please select day
<input type="text" value="Wednesday"/>
<small>[ok]</small>

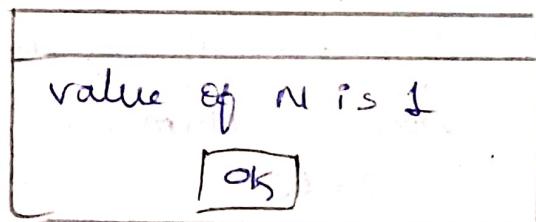
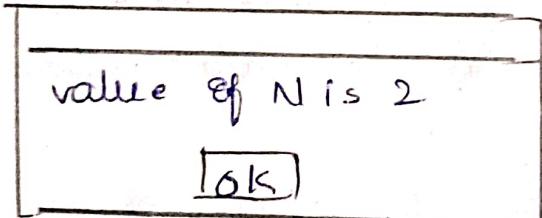
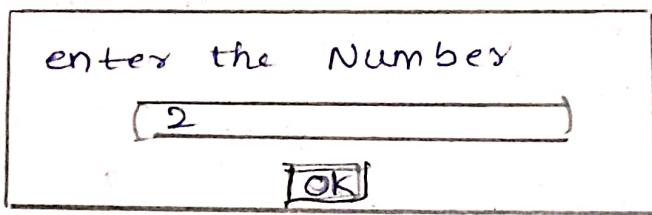
<u>Message Box</u>
The day is wednesday
<input checked="" type="checkbox"/>

3) While loop:

procedure

- 1) Drop Input Dialog activity on to main sequence
- 2) At Input Label enter the string "enter the number".
- 3) create the variable "N"
- 4) Now drop while Activity on to main sequence
→ condition: $N > 0$
- 5) In body
→ drop message box and enter "value of N is"
 $+ N.ToString$
- 6) → drop Assign activity
save to : N
value to save = $N - 1$

output:

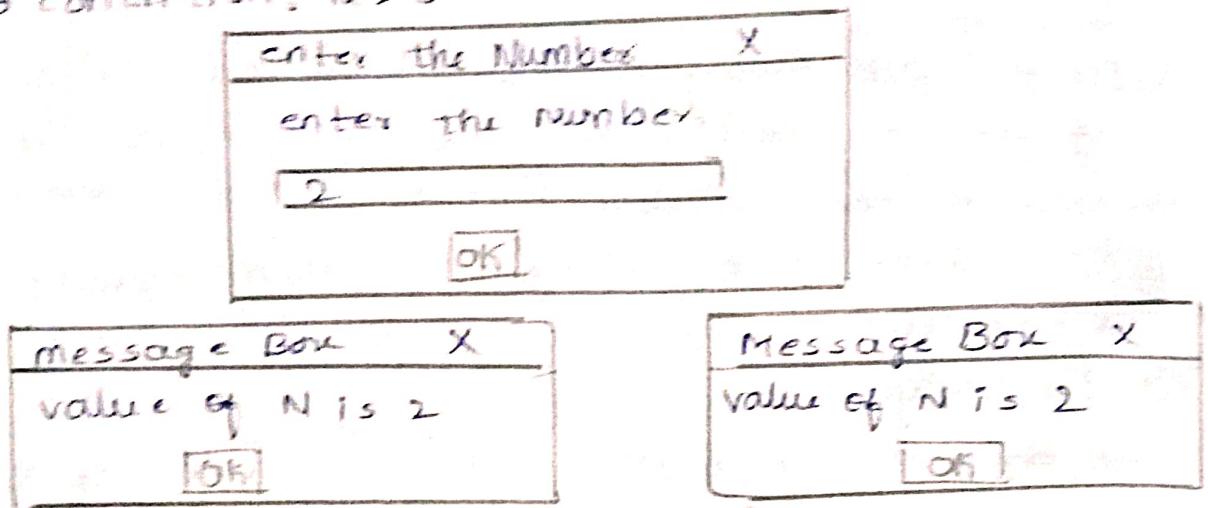


4) Do While :

procedure:

- 1) Drop Input dialog Activity on to main sequence
- 2) At Input label, enter the string "enter the Number"
- 3) ~~create a variable N~~
- 4) now drop Do While Activity on to main sequence
- 5) In Body
→ drop message Box & enter the string
"value of N is" + N.ToString
- 6) → Drop Assign

save to : N
value to save : N - 1
→ condition : N > 0



5) factorial program:

- 1) Drop Input dialog on to main sequence and at dialog title "factorial program" & at input label : "enter number to find factorial"
- 2) Create 3 variables Num, fact & Cnum
- 3) now drop Assign activity

Assign 1 :

save to : fact
value to save : 1

Assign 2 :

save to : cnum
value to save : num

- 4) Now drop while activity on to main sequence
condition : Num > 0

→ In Body

- 1) Drop Assign activity

Assign 1

save to : fact

value to save : -fact * num

Assign 2 :

save to : num

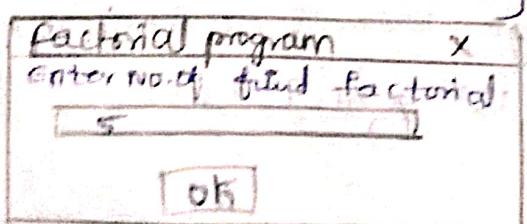
value to save : Num - 1

- 5) Now drop Message Box on to main sequence and enter text

"The factorial" + cnum.ToString + " is "

Output:

fact.ToString



Experiment - 4

Aim: Create a process for data manipulation
 scalar variables, collections, tables, text manipulation

1) scalar variables

procedure:

1) Drop Input Dialog activity on to Main sequence

Dialog title: "scalar variable"

Input Label: "Enter x value"

2) Create variables x

3) Now drop another input dialog activity on to main sequence and create variable "y"

4) Now drop Assign activity on to main sequence

Assign 1:

Save to: x

Value to save: $x * x - 2 * x + 10$

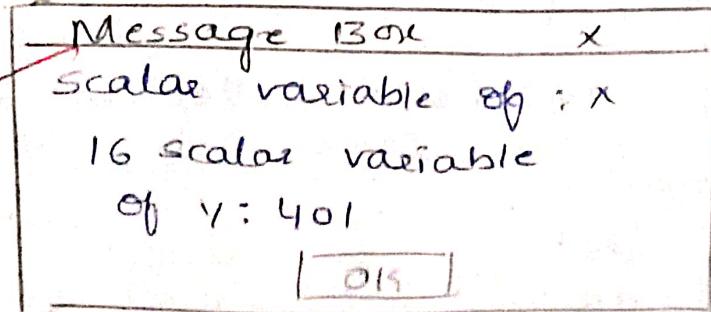
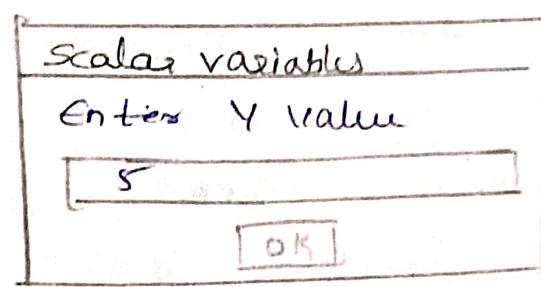
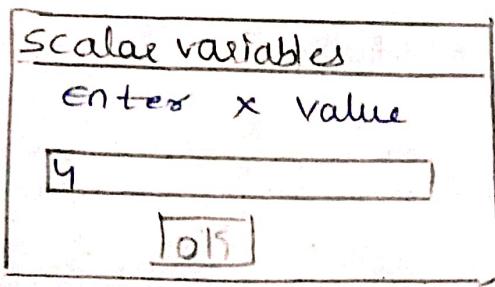
Assign 2:

Save to: y

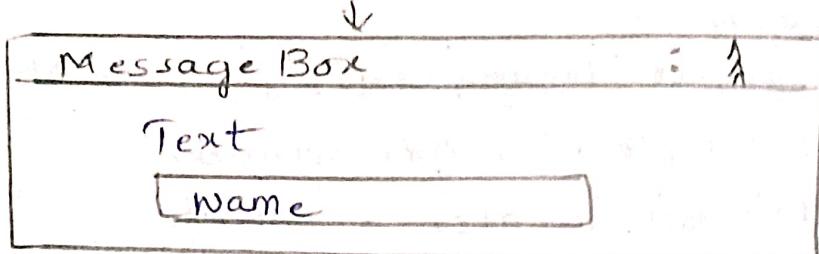
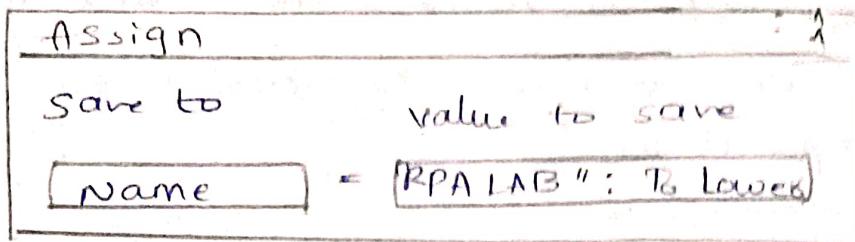
Value to save: $x * x + 2 * x + y - 15$

5) Now drop a message box activity on to main sequence & enter the text "scalar variables of x : " + x.ToString() + "Scalar variables of y : " + y.ToString()

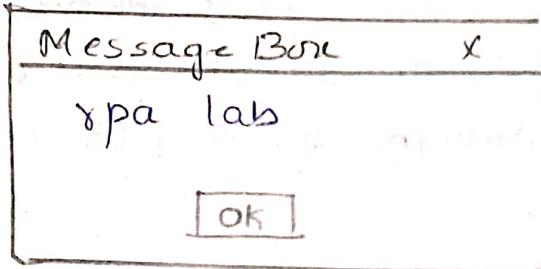
Output:



Text Manipulation:



Output:



2) Collections:

procedure :

1) Drop Assign activity on to main sequence

save: List

value to save: New List (of string)

2) Now drop "Append item to collection" on to main sequence

collection: list

Items: 4 items in collection

{ "RPA"
 "IPR"
 "DevOps"
 "IOT" }

3) Now Drop "Exists in collection" on to main sequence

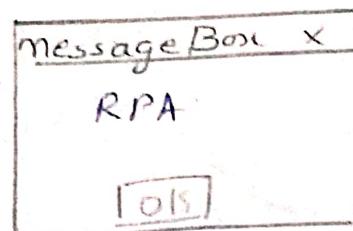
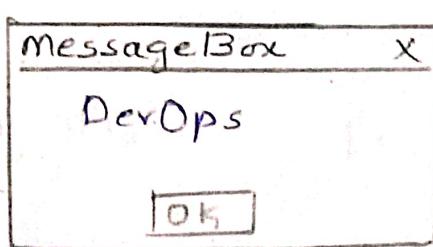
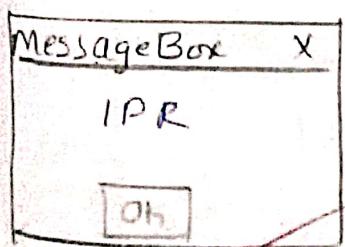
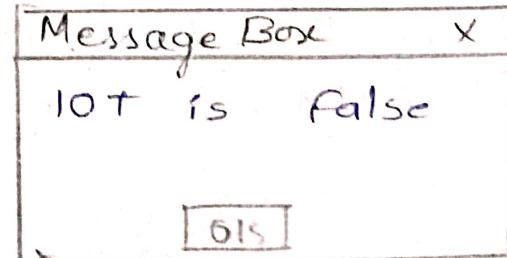
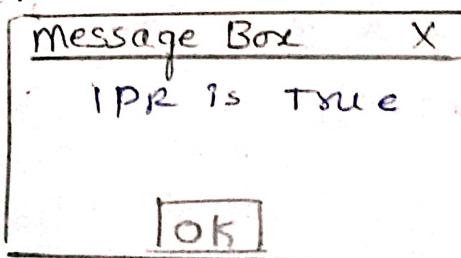
collection: List

Item: "IPR"

Note: At exists stat + l → set variable → an!

- 4) Now drop "Message Box" Activity on to main sequence & Enter the text : "IPR is" + avl. ToString
- 5) Later drop "Remove from collection" on to main sequence
 collection: List
 Remove elements: specialization
 Specific Item
 Item: "IOT"
- 6) Now drop again "Exists In collection" on to main sequence
 collection: List
 Item: "IOT" + avl. ToString
- 7) Now drop message box on to main sequence and enter the text
 " IOT is" + avl. ToString
- 8) At last drop "For each current Text" on to main sequence
 In: List
 → In body
 drop message Box Activity & enter
 -the text: CurrentText

Output:



collection Dictionary:

↳ Create a variable dict_data

At variable type

→ Browser for types

→ And search for dictionary

System.Collections.Generic

Select Dictionary < TKey, TValue >

Int32, string then press 'OK'

→ Drop Assign activity on to main sequence

Save to: dict_data

Value to save

New Dictionary (of Integer, String) from

{ {101, "RPA"}, {102, "IOTCC"}, {103, "AM"}, {104, "DevOps"},
{105, "IPR"} }

→ Now drop for each activity on to main sequence

In: dict_data

→ At body in for each

drop message box and enter text

"current key value Pair of Number And Text"

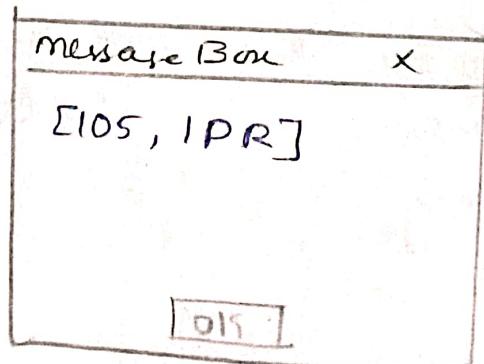
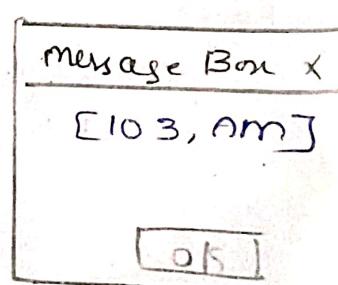
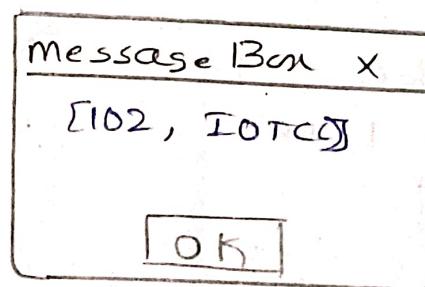
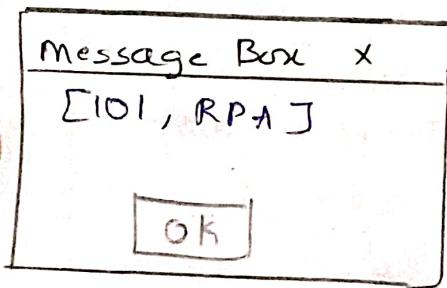


Table:
procedure

- create a variable Table_Data
- variable Type : System.Data.DataTable
- now drop "buildDataTable" activity on to main sequence
- In Data Table
- Given column names Emp-id Emp-name Emp-depart

enter row values

cm101	sam	cse
cm102	vincy	civil
cm103	lesli	csm

→ click ok

→ now drop write Range workbook & enter

"Emp-Details.xls"

"Sheet2" "c2" → cell

Table-Data

Output:

Emp-Details.xls		
A	B	C
cm101	sam	cse
cm102	vincy	civil
cm103	lesli	csm

Dr

Experiment - 3

Procedure:

- After creating a new process go to sequence names Basic recording
 Go to activities in the left panel & search for "Use Application| Browser" & double click on it.
 Now open notepad & add the text to it.
 Now tap on "Application recorder" (A) to record.
 Now go to notepad double click on it & click on symbol which adds text to the recorder.
 Finally pause and save the recording.
 Now run the activity by clicking on it.
 It displays the output.

Use Application: notepad - notepad

	Application Path "Microsoft.Windows Notepad - Sulleyky b3d11slebA"
<input type="text"/>	Arguments <input type="text"/>
L DO	Type into "Notepad" <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Welcome into "notepad"</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">"Welcome to rpa lab" L7 (+) J4</div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px;">Single line [end, shift + H]</div> <div style="border: 1px solid black; padding: 2px;">Single ✓</div> </div> <div style="margin-top: 5px;">Verify that Welcome to rpa laboratory is ✓</div>
Type into "Welcome to rpa laboratory is":	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">first recording</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">"first recording" L7 (+) J4</div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px;">Singleline [end, shift + H]</div> <div style="border: 1px solid black; padding: 2px;">Single ✓</div> </div> <div style="margin-top: 5px;">Verify that first recording -- is typed</div>

Web application Recording:

→ create a sequence named "web application"

Now open edge & type google.com in the search. Go to bipath & from activities search for Use Application/Browser & double click on it.

It now tap on "Application/web recorder"

(*) to record the process how we are login to the mail account.

* Now go to search tap on & enter search

"gmail.com" an interface open.

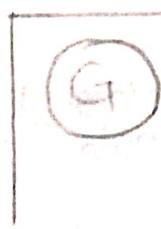
* Now on "enter mail id" click on it & tap
enter your mail -

* now click on confirm & click on next and
enter your password by clicking on and
click on sign in

* now click on any gmail & tap on

* finally pause the recording & save it

Use Browser Edge: Google



Browser URL

"https://www.google.com"

L300

Type into "https://www.google.com"

Type this

"To: gmail.com"

empty field before typing click before typing

single line

single

Keyboard shortcut

edge : Google

send key combination

Enter X

Type into "input/identifier"

Type this

"221010576@cmrhyderabad.edu.in"

single line

single

Click "Div"

click type

single

Mouse button

left

Type into "Enter password"

Type this

empty field before

single line ✓

click before typing

single ✓

Key click "Div"

click type

single ✓

mouse button

left ✓

click "labelInbox17c"

click type

single ✓

Mouse button

left + ✓

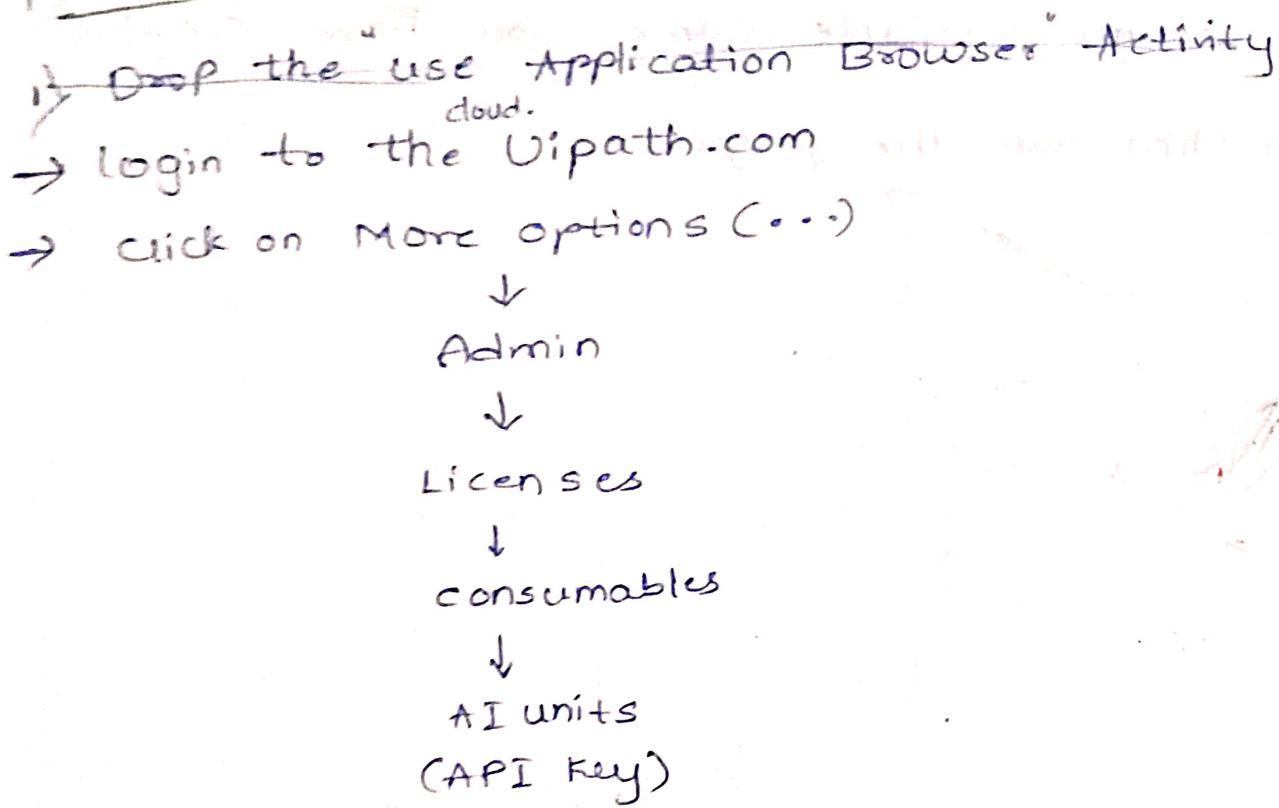
Done

Experiment - 8

Aim: Image Text Automation

practical work

procedure: we will use UI path cloud



→ Now open any Browser on google chrome

→ open ui path studio, and drop Activity

"Use Application * Browser" + select

Browser, next drop "GET OCR Text"

~~Activity~~ and select an image

- now click on properties & create a variable and paste api key which you have copied previously
- now drop write line activity and type same variable name you have created
- Then run the program

Qn



Ans

Drop the write line activity. Then press the

run button. It will ask for the variable name.

After entering the variable name it will ask for the value.

Now enter the value and click on the run button.

Now you can see the output in the terminal window.

It will ask for the variable name again. Enter the variable name.

Now you can see the output in the terminal window.

It will ask for the variable name again. Enter the variable name.

Now you can see the output in the terminal window.

It will ask for the variable name again. Enter the variable name.

Week - 6

Aim: Designing a process for scraping data using screen scrapping and data scraping

procedure:

Activities:

- 1. Use Application Browser
- 2. Type into
- 3. click
- 4. Get Text
- 5. Write Text file

IX) chrome wikipedia - Google chrome

Browse URL : https://www.wikipedia.org/

{ } "https://www.wikipedia.org/" ↵ ⌘

L DO

II) Type Into 'EN'

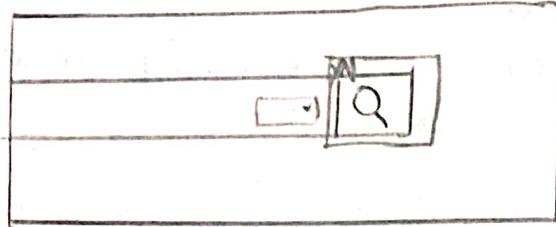
Type this : Standard Secure

{ } "Robotic Process Automation" ↵ ⌘

empty file before typing click before typing
single line [End, shift] single v

A red arrow points from the bottom left towards the 'Type Into' input field.

b click 'Button'



click type

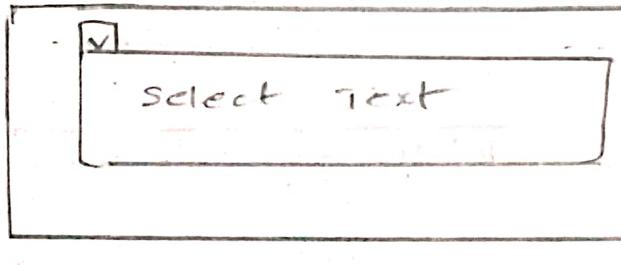
single ✓

Mouse button

left ✓

② Indicate verification-target on screen

L7 Get Text 'Any word Group(1)' ; ^



{ } extract Text | ⑦.

I7 Write Text file

Text *

{ } extractedText L7 ⑦

write to filename

{ } "extracted.doc" L7 ⑦

⑦

✓

Week-9

Aim: Design a process for automating Data Tables in Excel.

procedure:

1. Download a csv file and save it in your folder
2. open UiPath studio, drop a read csv activity
 - Read from file: browse your saved file
 - At output to: create variable (ctrl + k) data
 - Next drop "write csv" on to main sequence
 - At write from → use same variable "data" At write to what file give new name like "extracteddata.csv"
 - Then drop "output" Data Table as Text' Data Table → data
 - Now drop "Write Text File" and create variable "strdata"
 - At Write to file name enter "extractdata" doc
 - Then drop Write Line activity and enter text "strdata"

 ✓

Week-10

Aim : Perform email automation

procedure :

- firstly drop "Read Range Workbook" activity onto main sequence
- Then browse the .xlsx file, and give name as "sheet 1"
- Then now drop the activity output Data Table as Text

Data Table : data

- Now drop message box activity and give the text "outputdata"
- Next drop "For Each Row in Data Table" activity

Data Table : data

Item name : CurrentRow

- Now drop "Get Row Item" in Body

Row : CurrentRow

Column : Name

"name"

Value : names

- Next drop another "Get Row Item" in same sequence

Row : CurrentRow

Column : Name

"Email"

Value : email

- Now drop assign activity on to sequence to : email-body value to save : some text as you wish
- Next drop a "sendEmail" activity on to main sequence
 - activity id : aadhyderabad.edu.in.
 - Gmail : 22v01a05f-6@gmail.co
 - save to draft : false
 - TO : New List (of String) from {email}
 - subject : "Thank you for attending"
- Then finally drop message Box which displays the message "Emails sent successfully".

✓

Experiment - 11

Steps

Aim :

procedure :

- 1) One Drop down the "for each file in folder" activity. Before that Go to project in the top left corner. then select the folder and create one folder in that paste any two pdf files. and see
- 2) Write CurrentFile in for each in foreach file in folder activity. In folder box, select the folder where we saved the pdf files.
In filter by ["*.pdf"].
- 3) Now drop the Message Box Activity.
In text write CurrentFile.FullName.
- 4) Now drop the "Extracted PDF Text", In PDF file write LocalResource.FromPath(CurrentFile.FullName)
Now In properties, in output create the var: ctrl+k → ExtractedText
- 5) Now Drop Message Box, In text Box write {3 ExtractedText}

Week-12

Aim: create an automation to change the background color of exact cell/range in

Vipath

procedure:

1) Firstly drop 'use Excel file' activity onto main sequence

* excel file : 'Emailsd3.xlsx' (any name)

2) Next drop set Range color activity onto main sequence

* color : System.Drawing.Color.Bisque

Range : 'B3:B4'

SheetName : "sheet1"

Output:

Now the excel file opens with semi-coloured content on the part we selected

Week-14 :

Aim : Create a process which reminds a user to take his medicine after every 4 hrs

procedure:

- 1) Firstly drop "delay" activity onto main sequence and set duration: 00h 00m 00.00s
- 2) Next drop "message box" activity onto main sequence and add text "you Need to take Medicine Now"
- 3) Now drop assign activity onto main sequence
Save to : email. (create variable at output in properties)
value to save : New string ('22@01a057@cmrithydrabad.edu.in')
- 4) Now drop "send mail" activity onto main sequence
* Gmail : 22@01a057@cmrithydrabad.edu.in
To : email
subject : "Reminder for medicine Intake"
Body : Hi,

This is Reminder.

Output : A message Box will be shown on output screen with message like "you need to take Medicine Now" and email will be send with Required details.

Week-13

Aim: Design a process to Generate covid-19 report and send this report to Required recipient.

steps:

- Read Range Workbooks
- ↓
- Open Database as text
- ↓
- Message Box
- ↓
- for each row in Databable
- ↓
- Inside body
- ↓
- "Get Row item"
- Activity for 7 items
- for each row
- ↓
- use application / browser
- ↓
- inside 'do' use 'word application scope'
- ↓
- Again inside 'do' use Assign Activity
- ↓
- Append Text
- ↓
- Save document as pdf
- ↓
- Send Email

Output :

Message Box
Test-date , region, Test- Result, test-type , comments Name Email ID 09-02-25 00:00:00 +ve

Report.pdf

--- Covid-19 Report ---
Name: D.pranavi Test Date : 04-04-25 Test-result : Positive Test-type : PCR Comments ; To be isolated