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. 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. orangericate selection

Update Selector in Activity Properties

- using variables or Expressio 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. Surpl: capture The selector

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 woissis single single subjects

SOURCE CODE, Significant of Statements of books.

Selectors issues simply discus In wpath, selectors are xmr strings that define the unique properties of UI element, like id, name, title, class, etc. The selector identifies on element the screen to automation purposes, desside en a STATION POLICE

2) Dynamic selectors:

These selectors can be modified programmatically at runtime to adapt to changing 3) titulbutis vi structures.

Steps to Automate selector customisation in ulpath;

- D Basic setup for upoth Automotion:
 - * open upoth studio.
 - * create a new process
 - * use the selector Editor in activities like
- 2) Modify selectors Dynamically: wpath provides a way to

manipulate selectors dynamically during execution using voulables of Eapressions, Here's an Za of how you can customise a selector dynamically

Ea: Automating Dynamic selector customisation: Paste the cretemized selector into th

step1: capture the selector

- 2: make the selector Dynamic.
- 3: Use vousables for Dynamic selectors.
- 4: En-use pynamic selectors in workflow
 - 5: Handle Dynamic elements in multiple places.
- 63 using tind Element with Dynamic selectors.

Tips top customising selectors Dynamically in wpoth:

-) we wildoods soogue; motoroture not no soo si.
- 2) Anchor Base
- 3) selector Editor singular service
- 5)-Attributes

s symme celetins:

4) ochugging the of said to the throughout or sinciality.

automate applications where us elements might charge over time, allowing your automation to remain theorible and robust.

	bin and the second seco	Lab Record
VIVA QUESTIONS		
What is a selector in UiPath?		
ins selector in upath	uniquely identific	es us elements tos
automation.	and the same of th	
2. Why are selectors important in	u UiPath automation?	
Ans. selectors are cruc	ial in wpath au	tomation to
accusate element		
3. What are the key components	of a selector?	tarragalased out the bowle
Ans	element indentific	Cis,
in Carligue and the second	anifomome trot has	S. Create a mocess for image
4. What is the purpose of an anci	hor base in selectors?	estro De estropio
Ans. Anchos Bruse in s	relectors helps loca	ut elements relative
CONTRACTOR OF A	tuging at a law its.	ាជាក្រុមប្រជាជាមួយ មិនប្រឹក្សា ប្រជាជនសម្រាប់ ដែលសម្រាប់ប្រជាជនសម្រាប់ប្រកា
5. What is Ui-Explorer, and how	v is it used?	ext manipulation lasks
Ans. It helps impact,	identify and ret	ane selectors unions
accurately.		Owen HPath Studio
A CANANGA SA BARBA MALA MALA C MALA MALA MALA MALA MALA MALA MALA MALA	a and work and undorso at	Leuggh BiPath Studio en you
A language of the second		Create a New Project
yect.	case a new automation pro	Chek on "New Process" to er
31	l choose a lucation to save	Give your prayeet a name and
		itedia the Worklaw
ill be the main container (W)	onto the canvas. This w	
		Politica
	d Text Automation	Add Activities for Image am
sks. Below are the activities will		

Img autm) open browser -> search convit hyderabad 2) open upath - select 'Indicate appin to automate 3) D&D click ock Text Imag - select 1 = a to A' choose -> cmrit and all all the make making 4) properties >0/p> create vaj s) choose weath poom ock' open browser type cloud. whath our a rei ban beringen ei more opt" Configure Veriveier Mamin proplan trail consumables (copy API key) 6) paste -API key into misc. (of props) -) D&D msg 60% -> use not the transfer of the 8) Debug It. Rum the Mark Cong The same of the second section in the second of the second the 1th Comme. I be to proceed a form time manager about a concern had the late of the factor of

- i) open browses search wikipedia
- 2) D&D Select 'Indicate appir to automate' shoose wikipedia home page
 - 3) DSD type Into -> select (Inton' choose search area
 - type -> India
 - 4) DED click choose search Box (create vai) 3) OUD WITH Teat ble - Teal: vas created with -> "we.doc"
 - 6) Debug 12.

To upload

-> D&D upload tiles

>choose > Add new conn < > connect your mail 5-Ales (chooses Alename (given above)) > Destination (drive)

VIVA QUESTIONS
What is OCR in UiPath, and why is it used?
Ans ock in lipath extracts tent from images, PDFS, and
scanned documents to automation and data processing.
2. What is the difference between OCR-based automation and selector-based automation. ock-based selector-based Ans
- slower - taster.
3. What are the common OCR engines available in UiPath?
Ans. Tesseralt OCR, Google cloud OCR, microsoft OCR,
upoth document ock
4. What are the limitations of OCR in UiPath?
Ans Lower Trumany - Language untitions.
- slow processing - formatting loss
5. How would you automate text extraction from a multi-page scanned document?
Ans, use wpath's read PDI with OCR activity with a
reliable our engine to extract text from a multi- page scanned document efficiently.
σ

- Dopen wpath studio
- 3) Drag & Drop ' read csv' nativity.
- 3) Before that download a GSV-file from github, 4) Then select that csv-file.
- 3) Drag & Drop 'write csv' tile

set properties as

-> output : control k + variable name (csv docta)

6) Orag & Drop 'wilth CSV' choose -> wite in TIDE TO WITE choose -> Append' In TOW TO WILL.

same set properties as before,

7) Drag & Drop output Data Table as Text. csvdata -> properties

OP

set vouable, (doctateat)

proprietabilities particular

8) prog & Drop message box

Text -> datatext

9) Debug It.

VIVA	QUESTIONS
------	-----------

1. What activities are available in UiPath for working with Excel?
Ans> Read/white cell -> soit
-> Insert Rows/columns -> Delete Rows/Columns
2. What is a Data Table in UiPath?
Ans. Is a collection of data stored in rows and columns
similar to an Eacel spreadsheet.
3. What are the common scenarios where you use Data Tables in automation?
Ans. <u>Extatables</u> used for data manipulation, data
Extraction data validation.
4. What are the different ways to loop through a Data Table?
Ans. By using for soch ROW, for Each column of
to loop activities,
5. How do you perform data validation in Excel automation?
Ans. Use H-else statements, switch statements, Data

Table. select, and sacel filter activities.

- For Each: Use a "For Each" activity to iterate through each retrieved email message.
- 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, and body.
- Save Attachment: Use the "Save Attachment" activity to save attachments from email messages to a specified location on your computer.

Configure Activities 5.

- Configure each activity with the necessary inputs and properties. For example:
- Specify the IMAP server settings and mailbox credentials in the "Get IMAP Mail Messages" activity.
- Specify the email details (sender, recipient, subject, body) in the "Send SMTP Mail Message" activity.
- Specify the folder path to save attachments in the "Save Attachment" activity.

Run the Workflow 6.

- Save your workflow and click on the "Run" button in UiPath Studio to execute the email automation process.
- Monitor the execution and verify that emails are retrieved, sent, and attachments are saved as expected.

SOURCE CODE

-) create an excel-file with name & Email id in
- 2) open whath studio, create new process.
- 3) prog & drop " Read Range workbook"
- 4) Next select the of party table as tent & create
- as "maispataTable" in properties.
- 5) Neat 140 witcline & create a variable "Table Text" in properties.

- e) select the tor each vow in Data Table, in it use the created variable "mail Data Table" in the item Name -) enter -> Text currentrow.
- → In body select "Get Row Item" → In Row column: 'current Row' → select col as → number → '0'

-> entir username in value.

- (Seve) In col 'Email'

 Cot Row Hom' (Seve) In col 'Email'

 val -> Email id
- a) D&D 'ASSIGN' Activity

 save to → mailed

 value → New stringer/Emailed)
- value to save > 'msg' + Environment. New stringes ...
- i) psp 'send Email' activity
 fill neccessary details.
- n) pebug it.

* .	VAQUESTIONS	
1.	What is email automation in UiPath?	-
Ans	s Email automation handles sending, receiving, read	ing
	and processing emails automatically.	
2.	What email activities are available in UiPath?	
Ans	s. send outlook mail, Get outloook mail, SMTP, IMAR	0
	POP3 activities.	
3.	What are the main email protocols supported by UiPath.	
Ans	s SMTP, IMAP, POR3 are the mail email protocols.	
4.	What are the prerequisites for email automation using Outlook activities?	
Ans	soutlook application installed antigured account a	nd
	cupath, mail. Activities package need to install.	
5.	How do you process emails from multiple accounts in UiPath?	
Ans	s. Configure each account seperately and spectly	
	account in email activities.	

- 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

- Dopen uipath studio.
- 2) Drag & drop '-for each file in folder' ALLAY.
- 3) choose put file toiders.
- y) choose > Include subtolders > Skip tolders where access is denied. - Alter by > "* · pdf"
- 5) Drag & drop

) message took

Teat -> Cuventfile. FullName

orag & Drop 'Extract PDF Teat'

orag & Drop 'message boa'

1) Drog & Drop 'message boa'

read -> extractpoffi

orat -> extractpoffi

orat -> extractpoffi

Robotic Process Automation

Write Cell: Use the "Write Cell" activity to write data to a specific cell in the Excel file This activity can also be used to change the background color of a cell.

Configure Activities 5.

- Configure each activity with the necessary inputs and properties. For example:
- Specify the file path for the Excel file in the "Excel Application Scope" activity.
- Specify the cell address (e.g., "A1") in the "Write Cell" activity where you want to change the background color.
- Use the Background property of the "Write Cell" activity to set the desired background color. You can use color codes (e.g., "#FF0000" for red) or named colors (e.g., "Red").

Run the Workflow 6.

- Save your workflow and click on the "Run" button in UiPath Studio to execute the Excel automation process.
- Monitor the execution and verify that the background color of the specified cell is changed as expected.

SOURCE CODE

-) orag and orap excel process scope.
- 2) pray and prop 'USE Exact file' choose an Eacel file
- 3) orag and drop set Range colos colos : System. Drawing. color. blue Range:

"All A2" as a deal solution a blace

sheet Norme:

" Excelsheet Name"

9) Debug it.

VIVA QUESTIONS

- What is the purpose of the excel application scope activity? Ans. Opens an Excel Instance, providing a scope to other excel activities to interact
- How do you highlight a specific range in excel using UiPath.
- Ans. Use the Eacel set Range color activity in uipath to highlight a specific range in tricel.
- How do you ensure compatibility with machines that have different versions of Excel.
- Ans. use com interfaces and uipath's Excel activities to ensure compatibility.
- You need to change the background color of the header row in an Excel file. How would
- Ans. Use the Excel Set Rounge color activity in upouth to change the background color of head now.

is subject on

Drag & Drop | Delay' Activity

> set time.

> not a party message book'

> Add Text

-4) D&D "send (mail" Activity

Gn]

) open wpath studio.

2) DCD 'Generate Data Table from Text'

> Input -> Add neccessary dotta.

> create a variable as 'datatable'.

3) DED 'output octu, Table as Text' > select properties -> create variable.

4) DOD '-for Each Row in Data Table' > load created var

In Body

> D&D 'Get ROW Item' (# times)

Based on the columns you've created,

where

> column -> 0-6.

> values -> Attributes you've given.

DED 'use Application/Browses,

Before this create a 'doc tile' and save

> Later Naugate through that tile.

6) D&D 'word Application scope'

> save as your requirement.
>-Ale path (doc loc) > create vai

as 'touthastobetyped'

- DAD Append Tearly was already ungo U s choose; touthastobetyped (cieated vas)
- 8) DED 'Save Document as PDT" >-file path: default name to convert world -> pdf.
- 9) DLD 'Assign' > fill neccessary data

10) Debug it.

is open woods studio.

2) DED GENERALE EATH TOWN TENT

- whose fundamental second going acount > create a variable as 'capatible'

3 De D loutput court Table as reale!

solect properties - accide variable

, sign, new un mon was ray, and th The second state on the land both of the design of the second sec

those ut

County to with come their, by mines

wased on the collinary you're

School

> column > 0-6 s rathers > 44 years sound of some

Establishment ST. CLEAR

perfor this peak a 'doc tile' and sine H in your tolder.

state hangate through that the

System (and Amplication stays)

STAIR OF HERE HEALTH STREET, are brosto c cool who many sin <

VIVA QUESTIONS

- What activities in UiPath are used for extracting data from websites?
- Ans. -11TTP request, God Tead, God -Activibute, tatract structured Data, Data scrapping, screen scrapping
- How can you export scraped data into an Excel file?
- Ans. Buld DataTable, Add DataRow, with Range, tarcel -Application scope, save workbook.
- What activities are used to send emails in UiPath.
- Ans. Send smip mail message, send outlook mail message send mail message, send IMAP mail message, send pops mail message
- How do you ensure the data extracted is accurate and up-to-date?
- Ans. Oynamic selectors, error handling, Data validation, wait for element, Regular scheduling, logs & Alests.
- How can you make the recipient's email address dynamic in the workflow?
- Ans. Define a variable, Assign Artivity we variable in trail travities, totaut trail Address from Data.
- How do you design the workflow to scrape data from multiple websites.
- Ans. Create a list of webstes, to Each loop to Herate through website, open browns to each website, store

• 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

Dopen upathstudio

Dopen upathstudio

Dopen upathstudio

Delay' Activity

Set time

Set time

Set time

Shad teat

Dolo "send tmail" Activity

Genail > connect your Genail id

ave as > false

To > select mail to send report

Subject > Add content to it will be sendy you warnay

Body > write the mag you warnay

Shave!

duration to 4 hours (e.g., 14400 accords).

Ans. The celay activity pauses workflow Execution for

What is the purpose of the Delay activity?

a specified duration.