

VIT[®]

Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

Programme	:	B.Tech	Semester	:	Fall 22-23
Course	:	Robotic Process Automation LAB	Code	:	CSE2023
Faculty	:	Sakthivel V	Slot	:	L29+L30

Date: 02-08-2022

Name: P.Je Sai Kailash

Reg Num: 20BRS1208

Assessment 2

Exercise 1 : Input Methods – Notepad

Aim

Create a Sequence that uses different input methods in input data in Notepad

Process Overflow

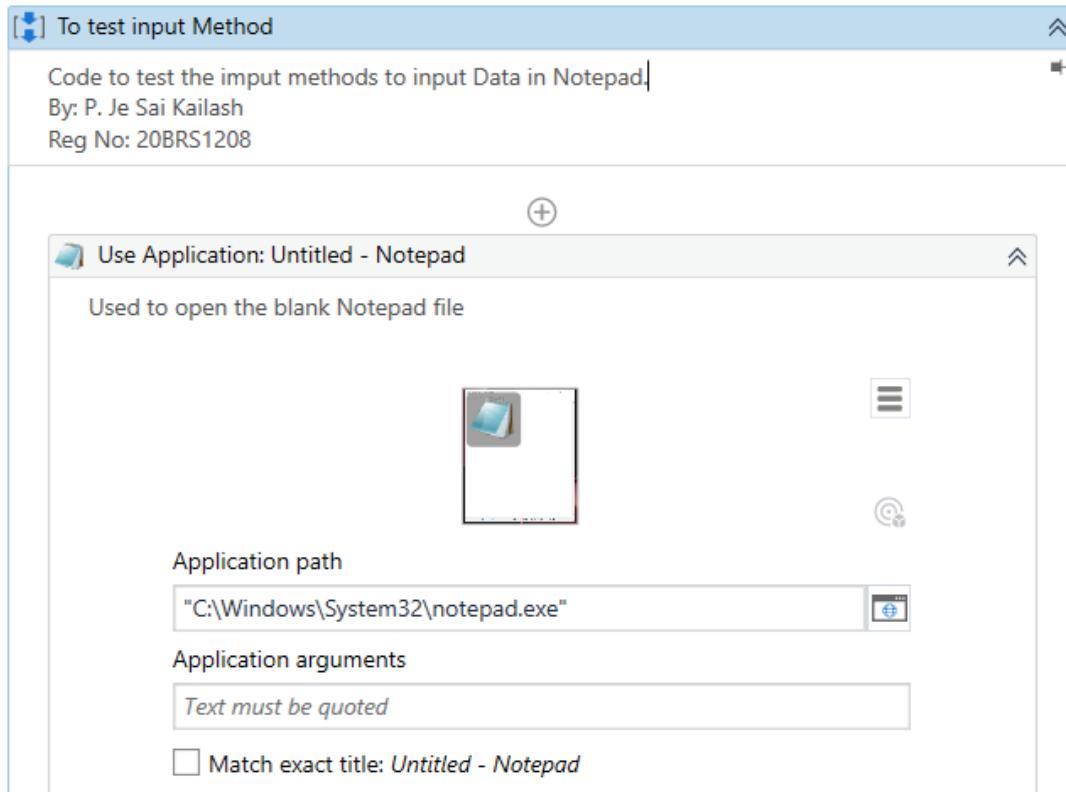
1. Start the sequence.
2. Use the “use application/browser” to indicate a new Notepad file.
3. Then use the “type into” activity to type the sentence “automation makes life easier”.
4. Then, use a “click” activity to help in minimizing the notepad window.
5. Use the “type into” to again enter “welcome to the new world of automation”.
6. Using the “shortcuts” activity send “ctrl + A”.
7. Now use the “type into”, “click” and “use application” activities to perform the font operations mentioned in the objective.
8. End the sequence.

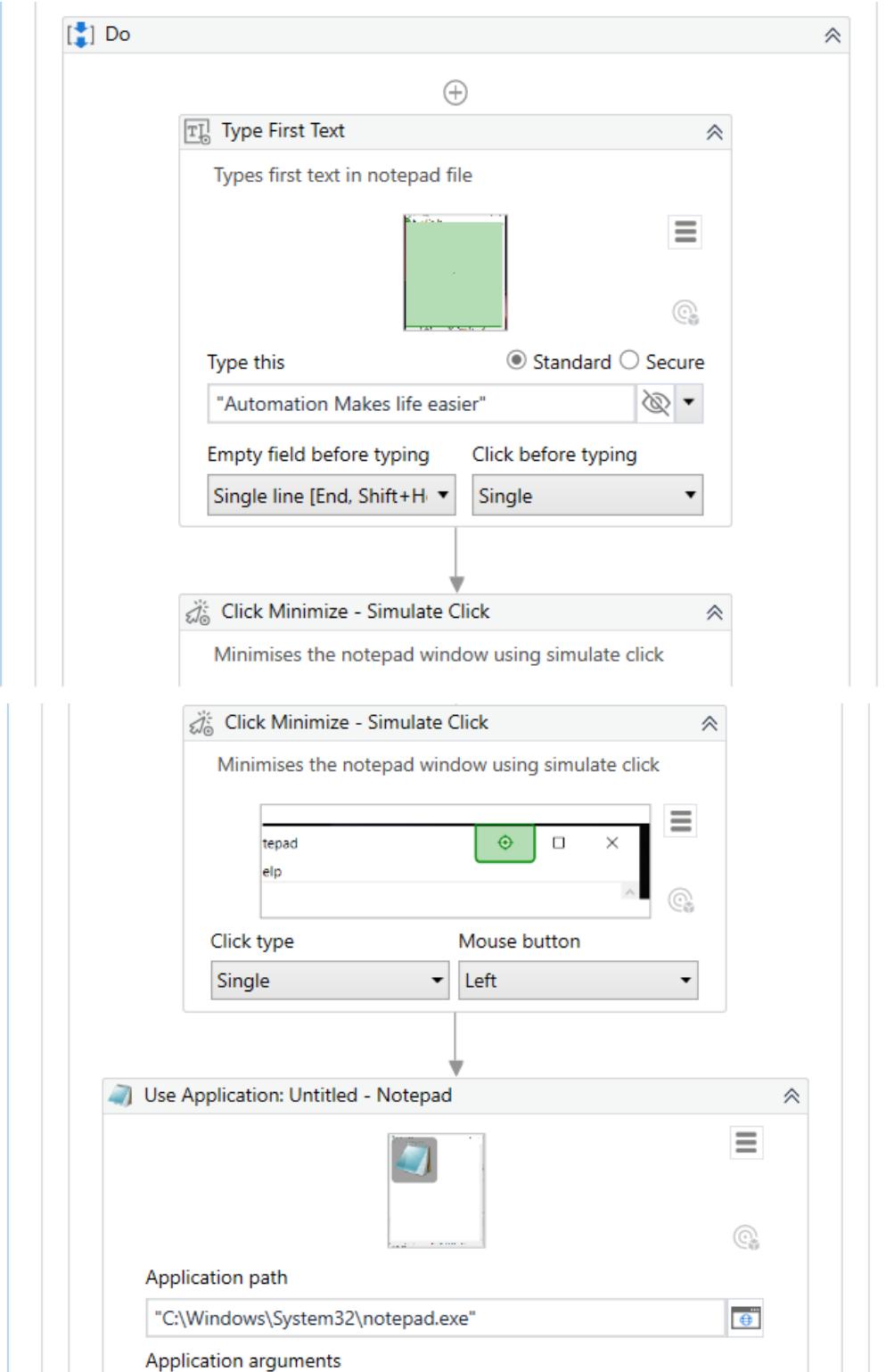
Procedure

1. Start UiPath Studio.
2. Open a sequence in the workflow.
3. Rename the sequence.
4. Add annotations to the sequence which says "code to test input methods to input data in notepad" as well as add your name and registration number.
5. Now open the notepad and keep it ready for using it in the sequence.
6. In the above mentioned sequence, add an activity "use application/browser" to open the notepad.
7. In the "use application/browser" click on the indicate window on screen" and select the notepad window.
8. Add an activity "type into" below the "use application/browser".
9. In the type into activity, click on the indicate window on screen and click the editor part of the notepad.
10. Now enter "Automation makes life easier" in the text box of the type into activity.
11. Now under the type into activity, add a click activity to simulate minimizing the notepad window.
12. Click the indicate element on screen and select the minimize button of the notepad.
13. Now add another type into the activity below the click activity.
14. Click the indicate window on screen and select the editor area of the notepad.
15. Add the text "[k(enter)]Welcome to the world of automation" in the text box.
16. Now add a shortcuts key activity below the type into activity and enter "ctrl + A" to select all the text in the notepad.
17. Now insert another click activity below the shortcuts key and click the indicate element on screen. Now select the format button.
18. Now in the Do container, add another click activity and select the indicate element on screen. Now press F2 to give a delay and manually open the format menu. Now click the font option.
19. Now use another "use application/browser" and indicate it to the font options window.

20. Now add a type into activity below the above activity and select the indicate element on screen. Now select the type box of the font type.
21. In the text box, type "Times new roman".
22. Now add another type into activity and indicate it to the text box of the font style in the font window. In the text box enter "italic".
23. Now add another type into activity and indicate it to the text box of the font size text box and increase the font by 5 using the text box.
24. Now use shortcut key activity to close the font window.
25. Select enter from the dropdown list.
26. Save the file, debug and run it.

Activity Box





Application arguments

Text must be quoted

Match exact title: Untitled - Notepad

[+] Do

Type Second Text- Send Window Messages

Types the second text in notepad file

Type this: "[k(enter)]Welcome to new world of automation"

Empty field before typing Click before typing

Single line [End, Shift+H] Single

Keyboard Shortcuts

App: Untitled - Notepad

Record shortcut

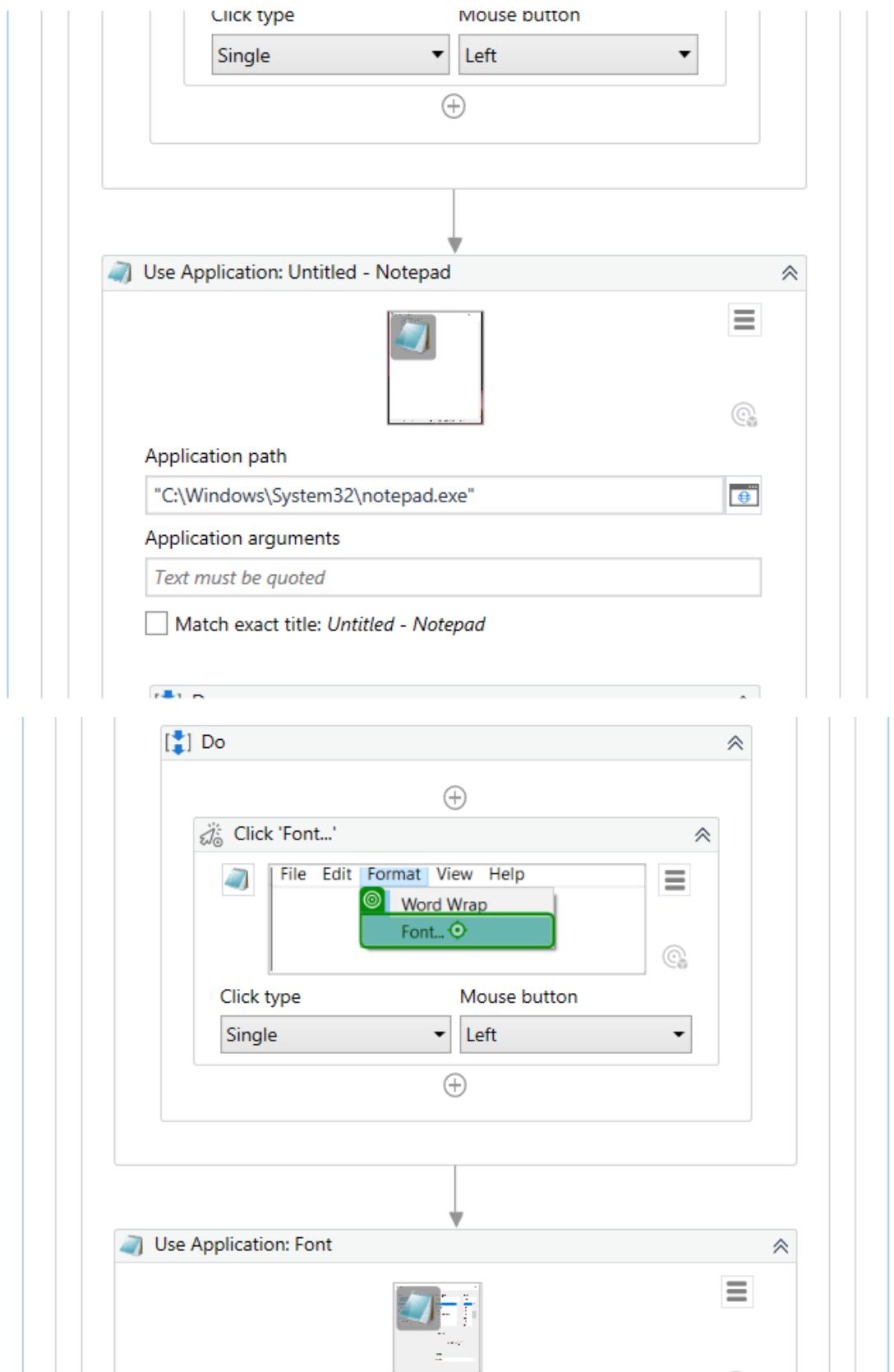
Send key combination: Ctrl+A

Click Format Button

Click format button frm the menu selection og notepad

Click type: Mouse button

The screenshot shows a windowed application interface for AutoHotkey script editing. At the top, there's a section for 'Application arguments' with a text input field containing 'Text must be quoted' and a checkbox for 'Match exact title: Untitled - Notepad'. Below this is a 'Do' block containing a 'Type Second Text- Send Window Messages' action. This action is described as 'Types the second text in notepad file' and includes settings for 'Type this' (containing the text '[k(enter)]Welcome to new world of automation'), 'Empty field before typing', and 'Click before typing' (both set to 'Single'). A downward arrow points from this block to the 'Keyboard Shortcuts' section. The 'Keyboard Shortcuts' section shows a recorded shortcut for 'App: Untitled - Notepad' with the key combination 'Ctrl+A'. Another downward arrow points from here to the 'Click Format Button' section. The 'Click Format Button' section contains a description 'Click format button frm the menu selection og notepad' and shows a screenshot of a Windows menu with the 'Format' option highlighted. It also includes 'Click type' and 'Mouse button' dropdowns.



Application path
"C:\Windows\System32\notepad.exe"

Application arguments
Text must be quoted

Match exact title: *Font*

Do

Type Into '&Font'

Font: Consolas
Font style: Regular

Type this: "Times New Roman"
Empty field before typing
Click before typing

Single line [End, Shift+H] Single

Type Into 'Font st&yle'

Font style: Regular
Size: 14

Type this: "Italic"
Empty field before typing
Click before typing

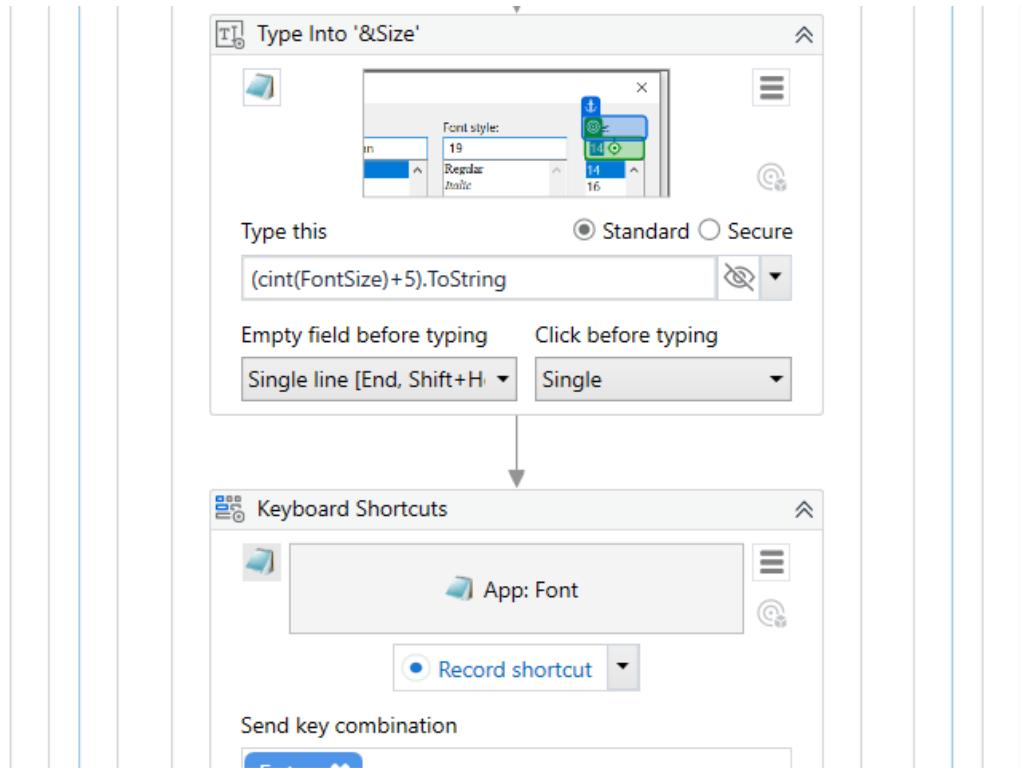
Single line [End, Shift+H] Single

Get Text '14'

Font style: 19
Save to: FontSize

```

graph TD
    A[Application path: C:\Windows\System32\notepad.exe]
    B[Application arguments: Text must be quoted]
    C[Match exact title: Font]
    D[Do]
    E[Type Into 'Font': Consolas, Regular]
    F[Type Into 'Font style': Regular, Size 14]
    G[Get Text '14': FontSize]
    
    A --> B
    B --> C
    C --> D
    D --> E
    E --> F
    F --> G
  
```



Output

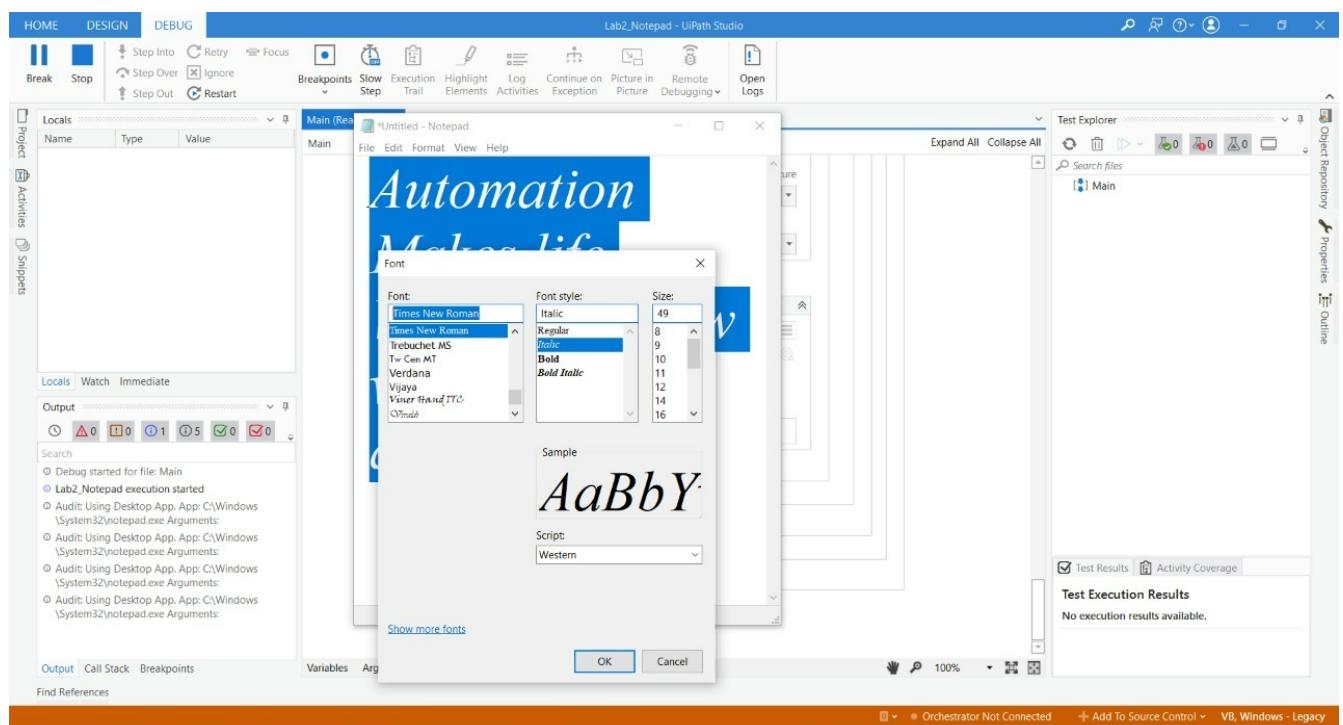
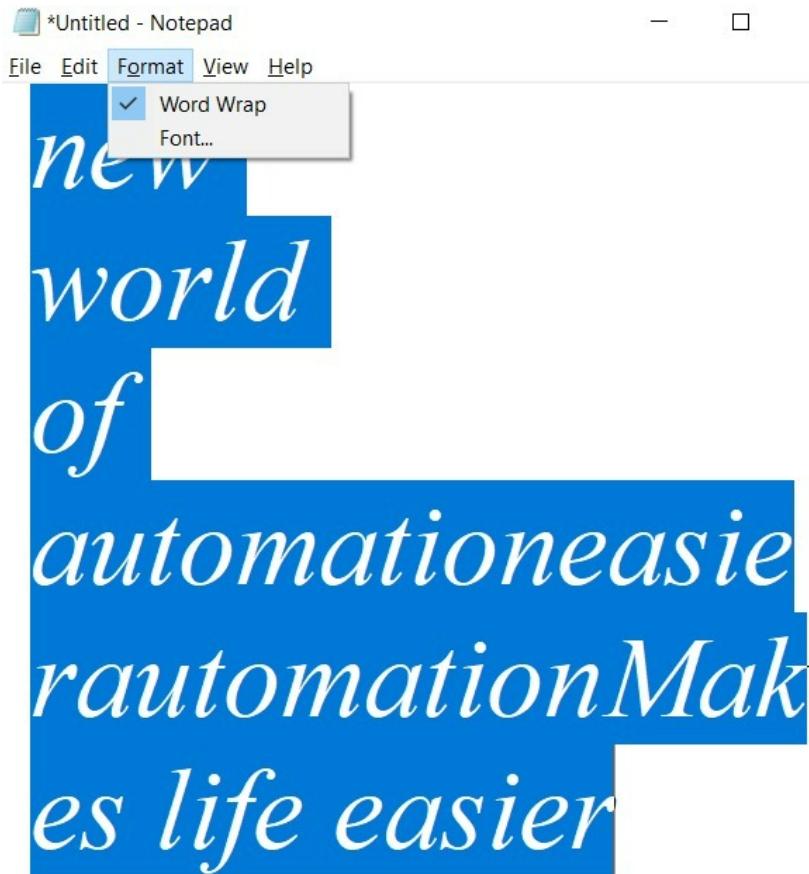
The screenshot shows the output of the RPA task in a Windows environment.

Windows Taskbar:

- Orchestrator Not Connected
- Add To Source Control
- VB, Windows - Legacy
- 10:47 PM
- 10-08-2022
- 20

UiPath Studio Environment:

- HOME DESIGN DEBUG**
- Break Stop Step Breakpoints Step Over Step Out Restart**
- Locals**: Shows variables and their values.
- Output**: Shows log messages:
 - Debug started for file: Main
 - Lab2_Notepad execution started
 - Audit: Using Desktop App. App: C:\Windows\System32\notepad.exe Arguments:
- Main (Re)**: A Notepad window is open, displaying the letter 'A'.
- Notepad**: A save dialog box is displayed, asking "Do you want to save changes to Untitled?" with options Save, Don't Save, and Cancel.
- Test Explorer**: Shows 0 errors, 0 warnings, and 0 informational messages.
- Object Repository Properties Outline**: Shows the object repository for the 'Main' step.



-
- ① Debug started for file: Main
 - ② Lab2_Notepad execution started
 - ③ Audit: Using Desktop App. App: C:\Windows\System32\notepad.exe Arguments:
 - ④ Audit: Using Desktop App. App: C:\Windows\System32\notepad.exe Arguments:
 - ⑤ Audit: Using Desktop App. App: C:\Windows\System32\notepad.exe Arguments:
 - ⑥ Audit: Using Desktop App. App: C:\Windows\System32\notepad.exe Arguments:
 - ⑦ Lab2_Notepad execution ended in: 00:00:15

Exercise 2 : Starting Browser

Aim

Create a sequence to Open a Web Browser

Process overview

1. Use “use application or browser” activity and enter the URL - “www.uipath.com”.
2. Once the browser is opened with the respective url link, use a message box to display “success”.

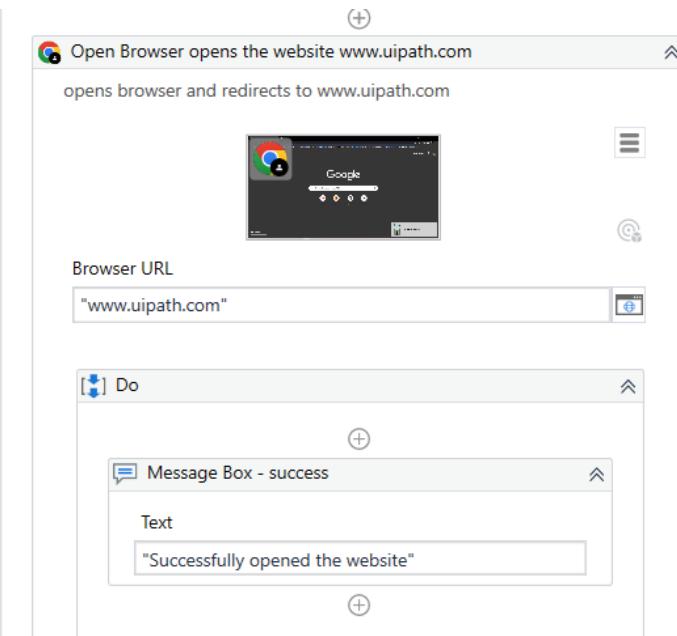
Procedure

1. Start the UiPath studio
2. Add a sequence in the workflow of Uipath and add annotation if necessary.
3. Add “use application/browser” in the sequence.
4. Now, manually open Edge browser and enter the link www.uipath.com in the text box that is present in the browser.
5. The required website is now opened.
6. Come back to UiPath, now select the “indicate window on screen” in the “use application/browser” activity. Now select the browser window and confirm the selection.
7. Now, add a message box activity under the use application/browser activity. In the text box of the message box activity, enter “success”.
8. Save the file, debug and run it.

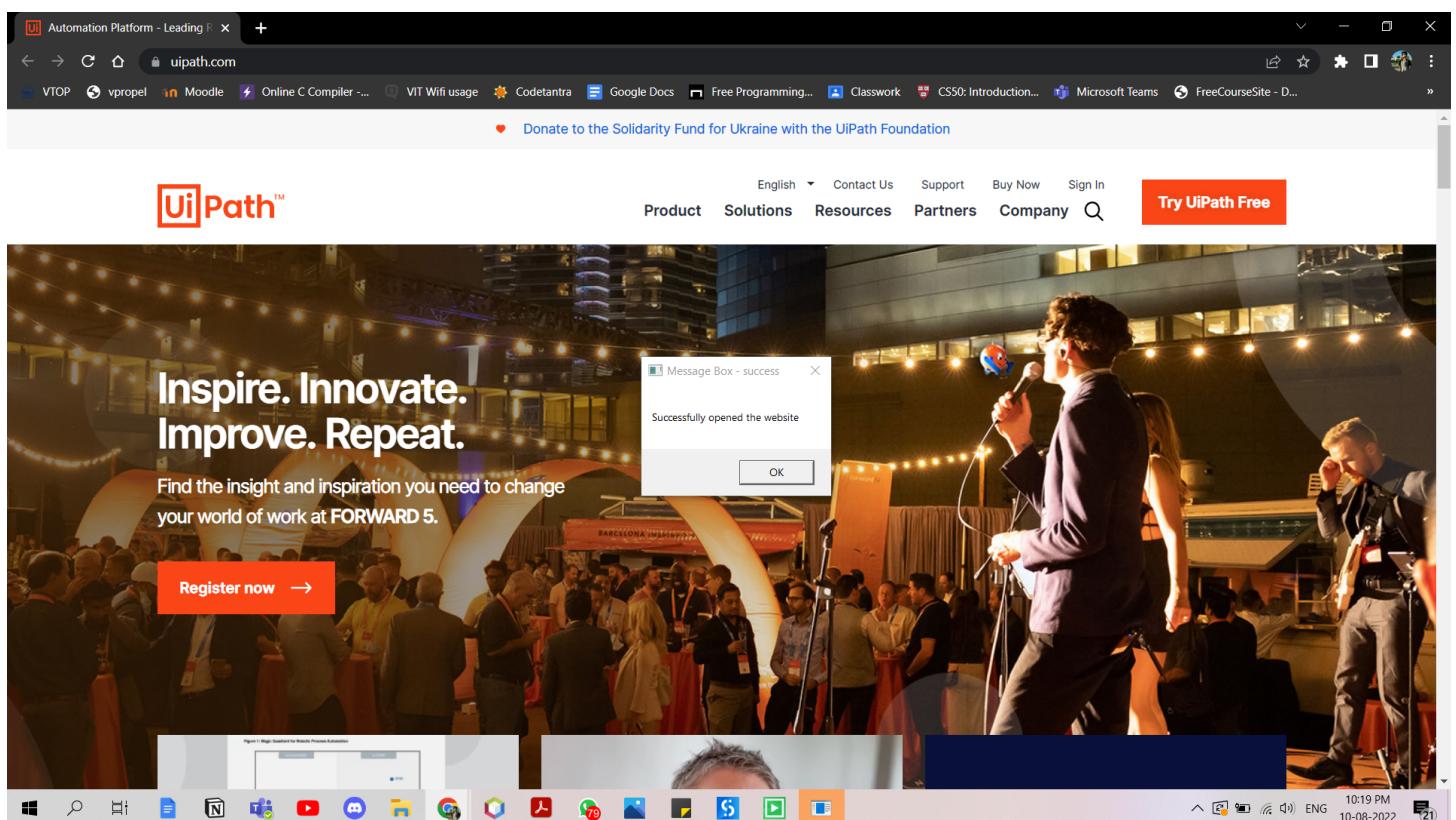
Activity Box

[] Sequence - to understand about open browser activity ▲

The block of code demonstrates a workflow that opens a browser and the opens the UiPath website
20BRS1208-- P.Je Sai Kailash



Output



Exercise 3 : Web Recording

Aim

Create a sequence to perform Web Recording in studio to sign in to UiPath website.

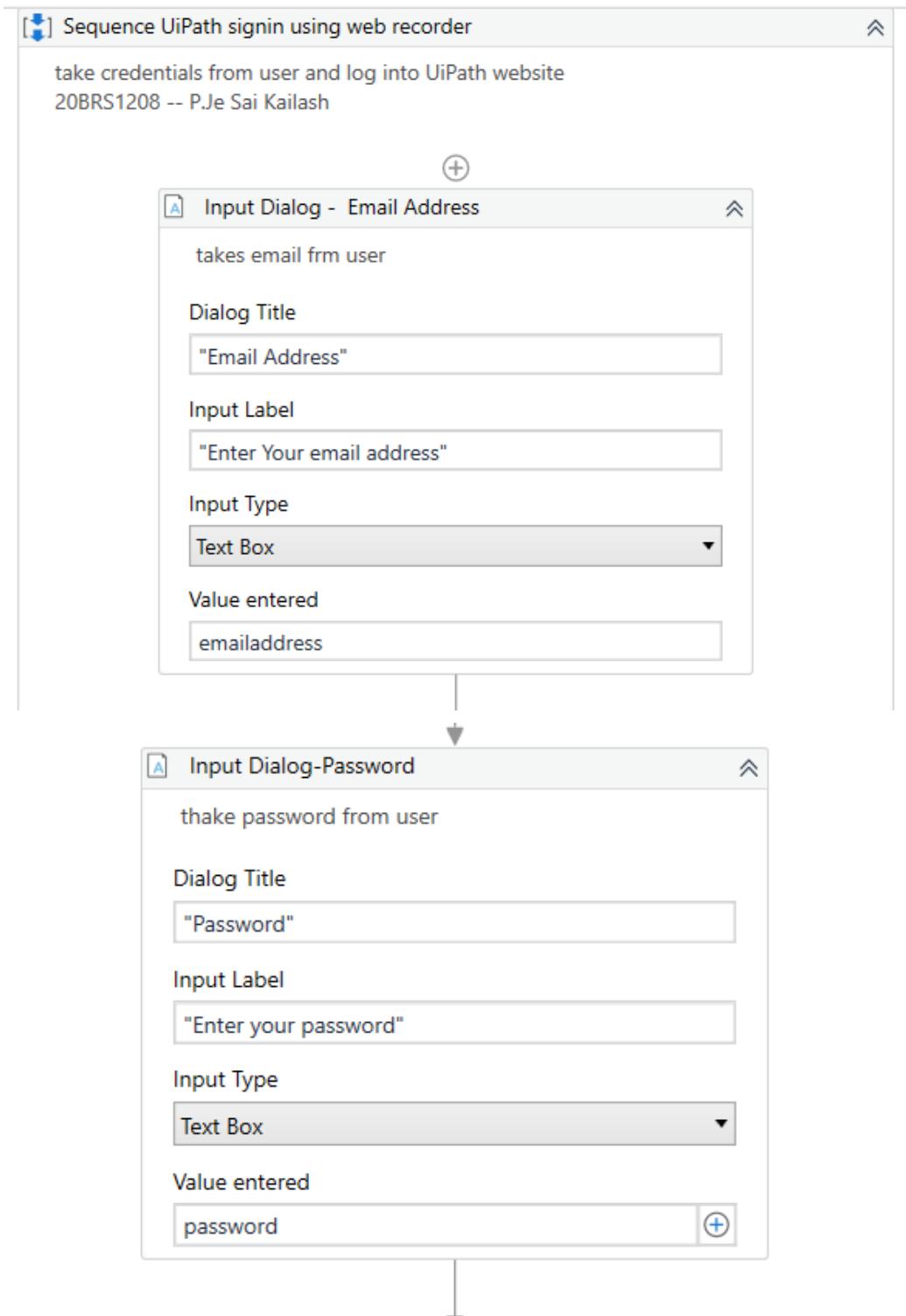
Process Overview

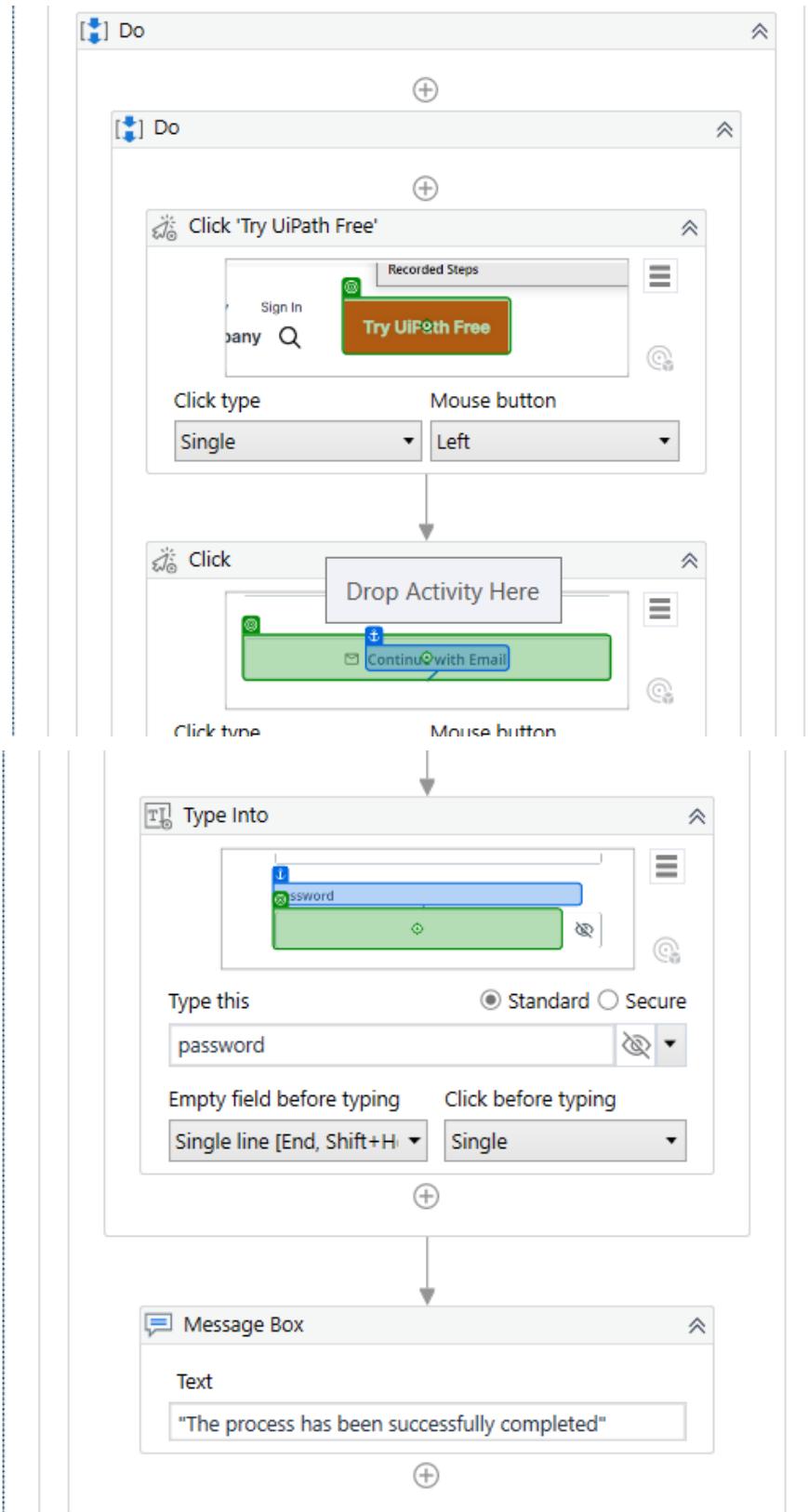
1. We need to take the input for the Username and Password from the user and store them for a later use.
2. We need to open the UiPath website "www.uipath.com".
3. Then use the Web Recording feature to click on the "Try UiPath" button and then later click on the "Login with Email" option where we need to enter the username and password.

Procedure

1. Open UiPath studio.
2. Create a sequence and rename it.
3. Add annotations to the sequence.
4. Use Input Dialog boxes to get input for Email and Password from the user.
5. In the Variable panel create variables for both "Email address" and "Password".
6. In the properties panel of the input dialog activity we need to update the password in the output box.
7. Now insert an open browser activity and give the URL "www.uipath.com" in the text box area.
8. In the design ribbon select the option "Web Recording" and start the recording so that we can indicate the required process in the webpage.
9. Use the "Click" and "Type" option activities in the UiPath so that we can be able to fill the username and password of the user into the Email and Password fields in the webpage.

Activity Box

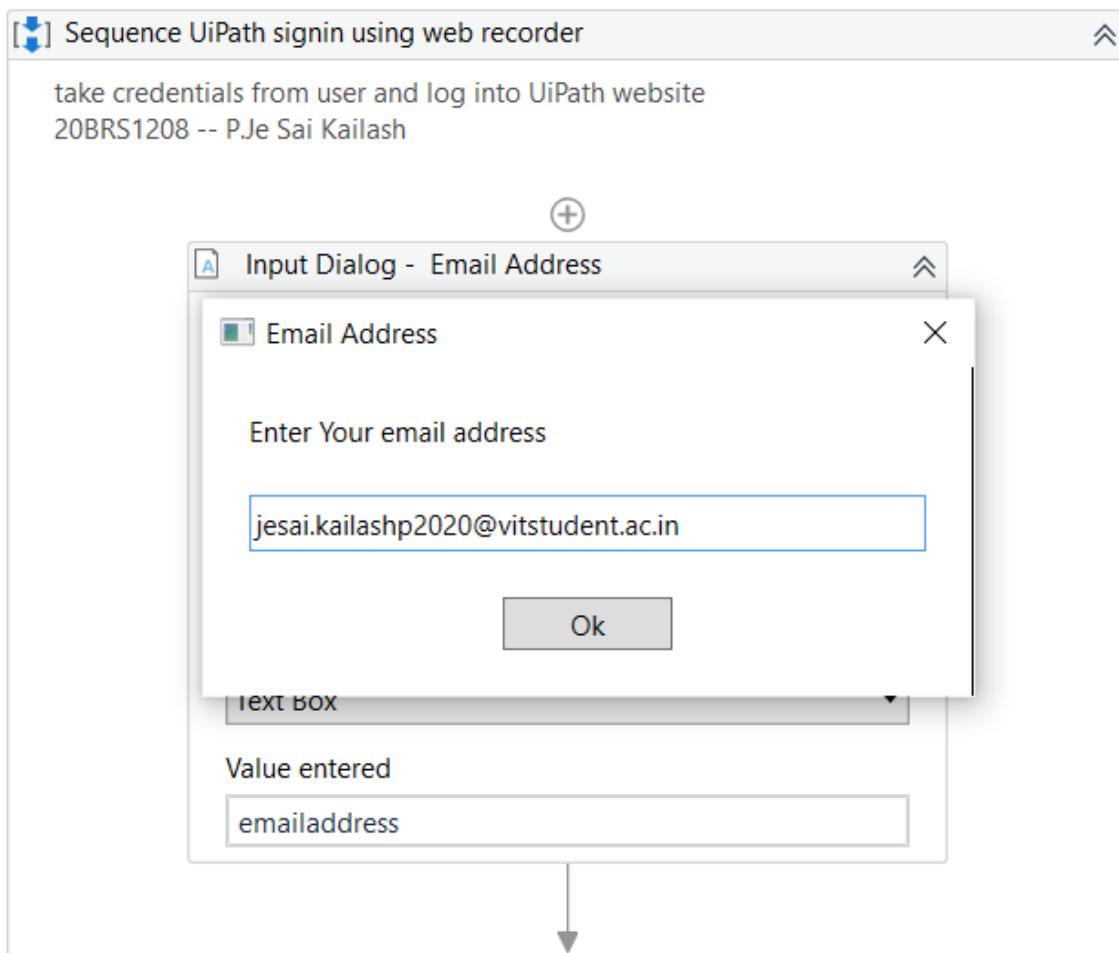


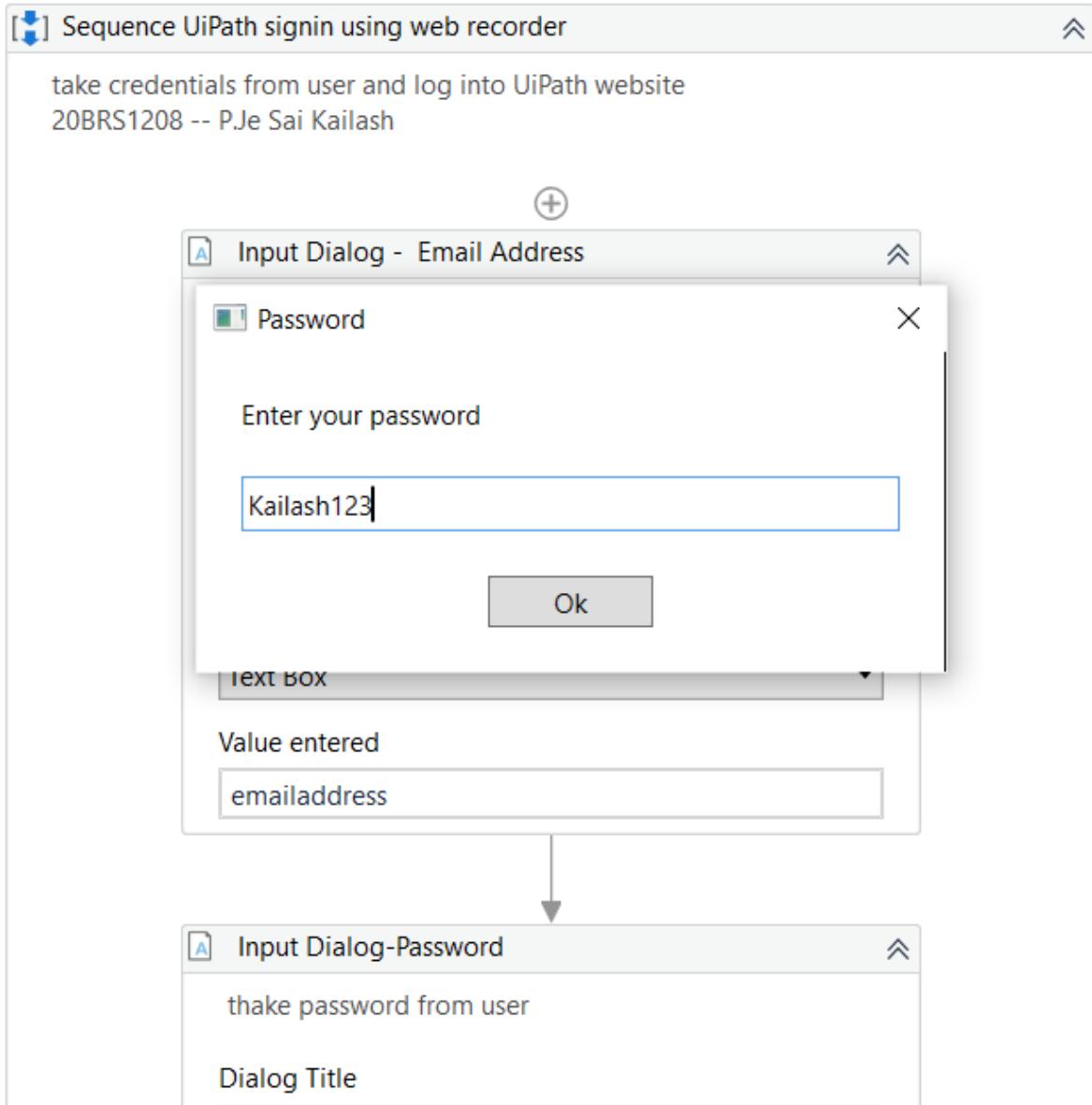


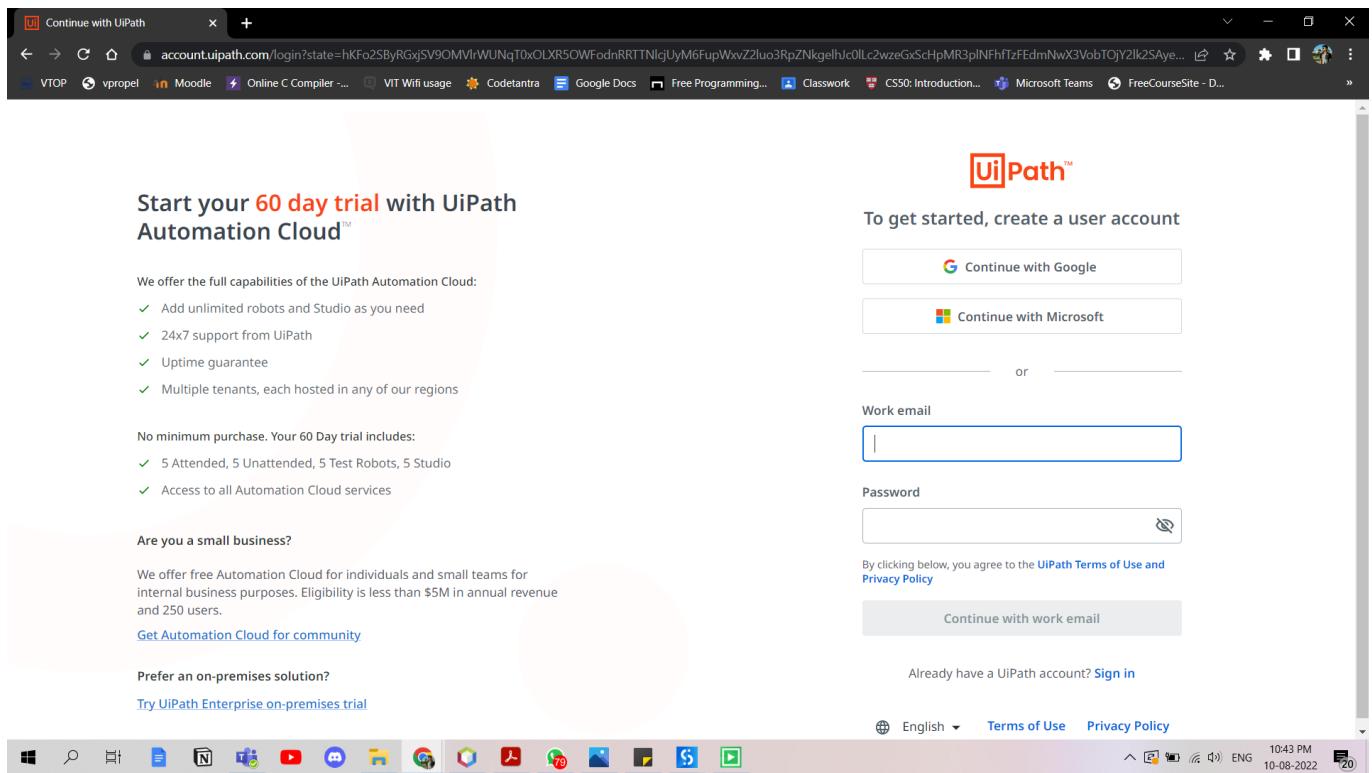
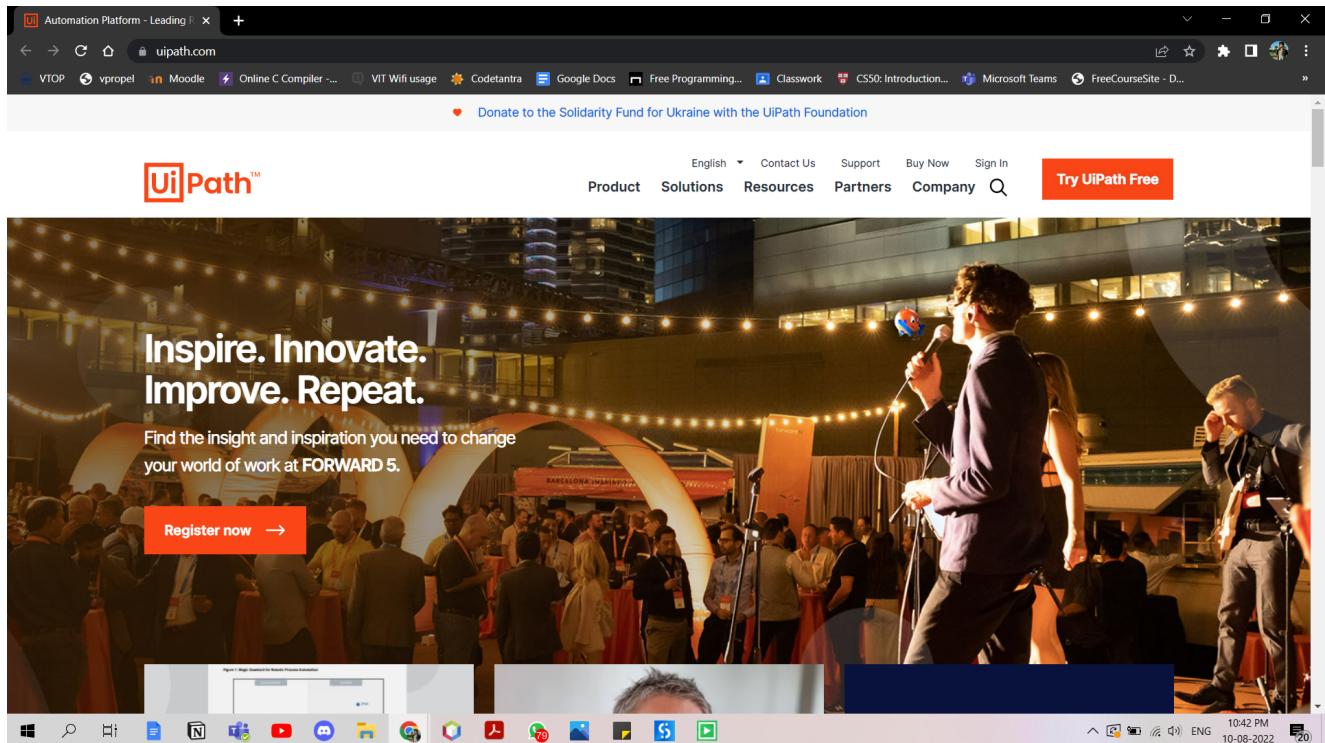
Variables Used

Name	Variable type	Scope	Default
emailaddress	String	Sequence UiPath s...	Enter a VB expression
password	String	Sequence UiPath s...	Enter a VB expression
Create Variable			

Output







Continue with UiPath

account.uipath.com/login?state=hKFo2SByRGxjSV9OMViwUNqT0xOLXR5OWfodnRRTTNlqUyM6FupWxvZ2luo3RpZNkgelhJc0lC2wzeGxSchpMR3pINhftzFEdmNwX3VobTOjY2lk...
VTOP vpropel Moodle Online C Compiler VIT WiFi usage Codetantra Google Docs Free Programming... Classwork CS50: Introduction... Microsoft Teams FreeCourseSite - D...

To get started, create a user account

Start your **60 day trial** with UiPath Automation Cloud™

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- ✓ 24x7 support from UiPath
- ✓ Uptime guarantee
- ✓ Multiple tenants, each hosted in any of our regions

No minimum purchase. Your 60 Day trial includes:

- ✓ 5 Attended, 5 Unattended, 5 Test Robots, 5 Studio
- ✓ Access to all Automation Cloud services

Are you a small business?

We offer free Automation Cloud for individuals and small teams for internal business purposes. Eligibility is less than \$5M in annual revenue and 250 users.

[Get Automation Cloud for community](#)

Prefer an on-premises solution?

[Try UiPath Enterprise on-premises trial](#)

The process has been successfully completed

OK

Work email

jesai.kailashp2020@vitstudent.ac.in

Password

X Password strength: weak
✓ Minimum 8 characters
✓ At least one uppercase & one lowercase letter
X At least one special character (Eg. @#%\$)
✓ At least one number (0-9)

By clicking below, you agree to the [UiPath Terms of Use](#) and [Privacy Policy](#)

Continue with work email

Already have a UiPath account? [Sign in](#)

English ▾ [Terms of Use](#) [Privacy Policy](#)

10:43 PM 10-08-2022

Exercise 4 : Anchors

Aim

To create a workflow that fills a form on www.rpachallange.com website with organized data from excel sheet.

Procedure

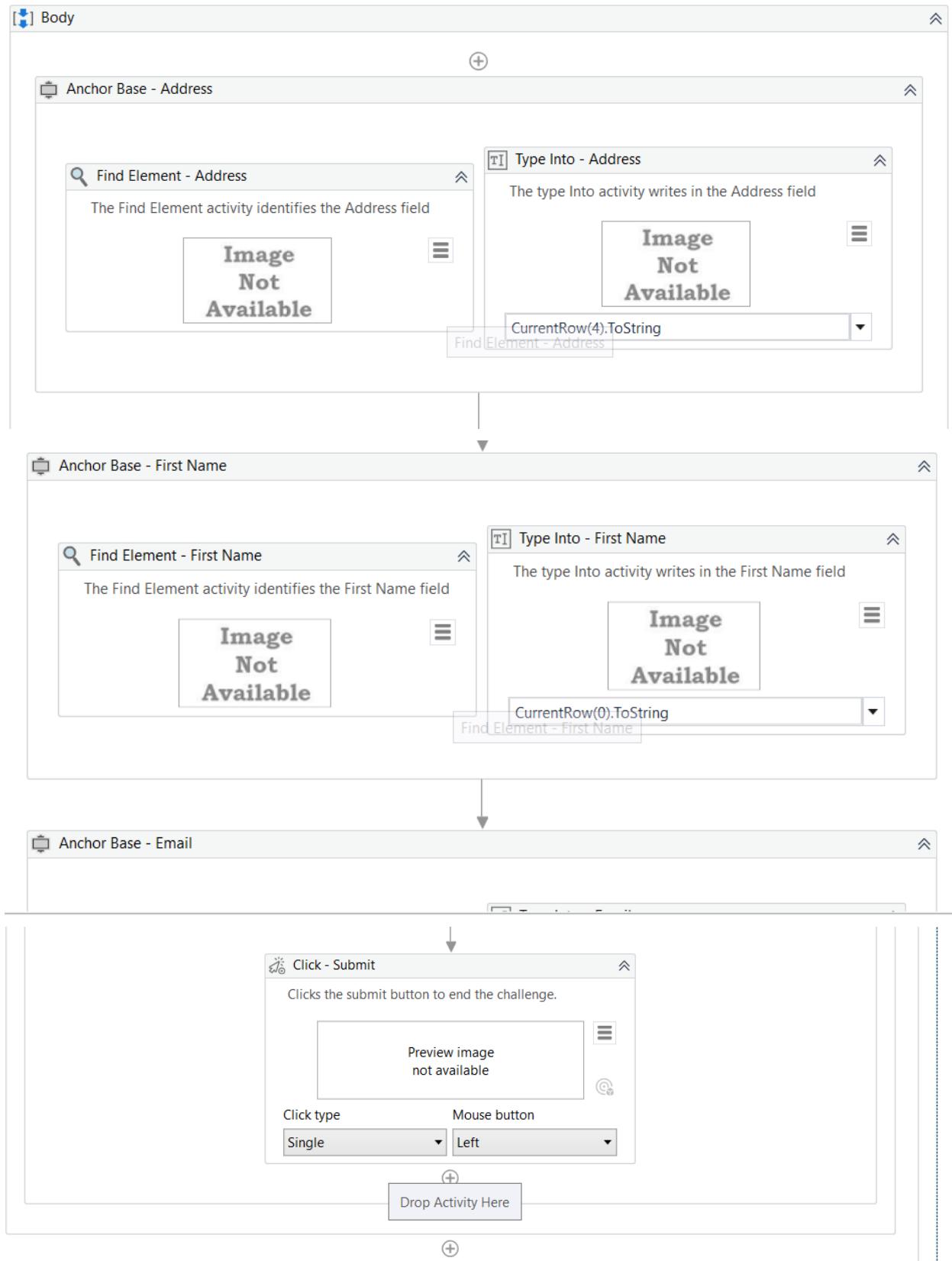
1. Initially download 'Challenge.xlsx' excel file from the URL -
www.rpachallange.com
2. Open UiPath and create a process named "Anchors"
3. In the project file of the process, place the downloaded excel file.
4. Open the URL www.rpachallange.com in a browser manually.
5. Now in the Anchors project, Drag and drop a sequence activity into the design panel from the Activities panel.
6. Insert an Excel Application Scope activity in the Sequence activity.
7. In the Variables panel, create a variable with name "dt_DataTable" and variable type "DataTable" and Scope is the Sequence.
8. Drag and drop a Read Range Activity from Activities panel into the Excel Application Scope "Do" sequence.
9. Enter "dt_DataTable" in the Output property of Read Range activity.
10. Click on the File path button of the Excel Application Scope and select the excel file which is previously placed in the project file.
11. Insert an "Use Application/Browser" activity after the Excel Application Scope and enter the URL – www.rpachallange.com
12. In the Do section, insert a Click activity.
13. Click on the "Indicate element on screen" link and select the Start button in the website opened in the browser..
14. Insert a "For Each Row in Data Table" activity after the Click activity.
15. Insert "CurrentRow" in the first section and "dt_DataTable" as the Vb Expression in the second section of the activity.
16. In the Body section of the activity, insert seven "Anchor Base" activities one by one.
- 17.

18. In all the seven Anchor Base activities, insert Find Element activities in the Anchor sections and in the Action Activity, insert a "Type Into" activity.
19. Click the "Indicate element on screen" link of each Find Element as well as Type Into activities and indicate each of the labels (Address, Role in Company, Phone Number, Last Name, Company Name, First Name, Email) from the rpachallenge.com
20. In each of the Type Into activities enter respective expressions into the text area.
21. Insert a Click activity after the last Anchor Base and Click element inside the browser link and select the submit button of the form.
22. Save and run the workflow.

Activity Box

The screenshot displays a workflow interface with three main sections:

- RPA Challenge:** A summary section at the top containing the title "RPA Challenge", a description about creating a workflow to fill a form on rpachallenge.com, and the user's name "20BRS1208--PJe Sai Kailash".
- Excel Application Scope:** A section for reading data from an Excel file. It shows a connection to "challenge.xlsx" and a "Do" step named "Read Range - Challenge.xlsx" which reads "Sheet1" of the file.
- Use Browser Chrome: New Tab:** A section for interacting with a web browser. It shows a connection to "www.rpachallenge.com" and a "Do" step named "Click 'START BUTTON'" which clicks the START button on the page.



Variables Used

Name	Variable type	Scope	Default
dt_DataTable	DataTable	RPA Challenge	Enter a VB expression
Create Variable			

Output

The screenshot shows a web browser window titled "Rpa Challenge". On the left, there is a sidebar with the title "Instructions" and three numbered steps:

1. The goal of this challenge is to create a workflow that will input data from a spreadsheet into the form fields on the screen.
2. Beware! The fields will change position on the screen after every submission throughout 10 rounds thus the workflow must correctly identify where each spreadsheet record must be typed every time.
3. The actual countdown of the challenge will begin once you click the Start button until then you may submit the form as many times as you wish without receiving penalties.

Below the instructions, there is a "Good luck!" message, a "DOWNLOAD EXCEL" button, and a large orange "START" button.

The main content area contains form fields:

Address	First Name
17 Farba	
Role in Company	Phone Number
IT Specialist	40733652145
Email	Last Name
	Robertson
Company Name	

A "SUBMIT" button is located at the bottom of the form.

The browser taskbar shows the following tabs: VTOP, vpropel, Moodle, Online C Compiler ..., VIT WiFi usage, Codetantra, Google Docs, Free Programming..., Classwork, CS50: Introduction..., Microsoft Teams, FreeCourseSite - D... . The system tray shows the date and time as 11:02 PM 10-06-2022.

Rpa Challenge

kipling@w

VTOP vpropel Moodle Online C Compiler ... VIT Wifi usage Codetantra Google Docs Free Programming... Classwork CS50: Introduction... Microsoft Teams FreeCourseSite - D...

Instructions

EN

1. The goal of this challenge is to create a workflow that will input data from a spreadsheet into the form fields on the screen.

2. Beware! The fields will change position on the screen after every submission throughout 10 rounds thus the workflow must correctly identify where each spreadsheet record must be typed every time.

3. The actual countdown of the challenge will begin once you click the Start button until then you may submit the form as many times as you wish without receiving penalties.

Good luck!

DOWNLOAD EXCEL

START

Company Name: Sugarwell

Last Name: Hamm

Phone Number: 40712462257

First Name:

Address: 10 Dam Road

Role in Company: Advisor

SUBMIT

Rpa Challenge

kipling@w

VTOP vpropel Moodle Online C Compiler ... VIT Wifi usage Codetantra Google Docs Free Programming... Classwork CS50: Introduction... Microsoft Teams FreeCourseSite - D...

Instructions

EN

1. The goal of this challenge is to create a workflow that will input data from a spreadsheet into the form fields on the screen.

2. Beware! The fields will change position on the screen after every submission throughout 10 rounds thus the workflow must correctly identify where each spreadsheet record must be typed every time.

3. The actual countdown of the challenge will begin once you click the Start button until then you may submit the form as many times as you wish without receiving penalties.

Good luck!

DOWNLOAD EXCEL

START

Phone Number: 40741785214

Company Name:

Role in Company: HR Manager

First Name:

Address: 19 Pineapple Boulevard

Email:

Last Name: Shelby

SUBMIT

Rpa Challenge

kipling@w

VTOP vpropel Moodle Online C Compiler ... VIT WiFi usage Codetantra Google Docs Free Programming... Classwork CS50: Introduction... Microsoft Teams FreeCourseSite - D...

Instructions

EN

1. The goal of this challenge is to create a workflow that will input data from a spreadsheet into the form fields on the screen.

2. Beware! The fields will change position on the screen after every submission throughout 10 rounds thus the workflow must correctly identify where each spreadsheet record must be typed every time.

3. The actual countdown of the challenge will begin once you click the Start button until then you may submit the form as many times as you wish without receiving penalties.

Good luck!

[DOWNLOAD EXCEL](#)

[START](#)

Role in Company

Company Name

Last Name

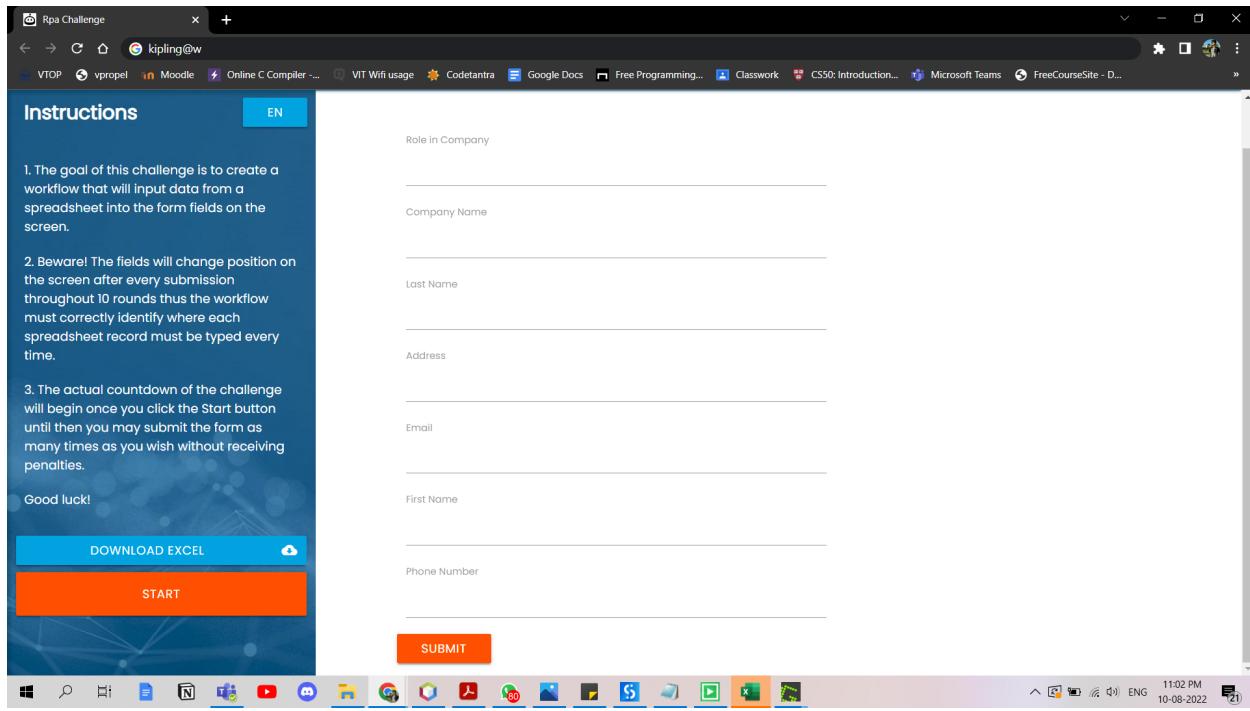
Address

Email

First Name

Phone Number

[SUBMIT](#)



Rpa Challenge

rpachallenge.com

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Instructions

EN

1. The goal of this challenge is to create a workflow that will input data from a spreadsheet into the form fields on the screen.

2. Beware! The fields will change position on the screen after every submission throughout 10 rounds thus the workflow must correctly identify where each spreadsheet record must be typed every time.

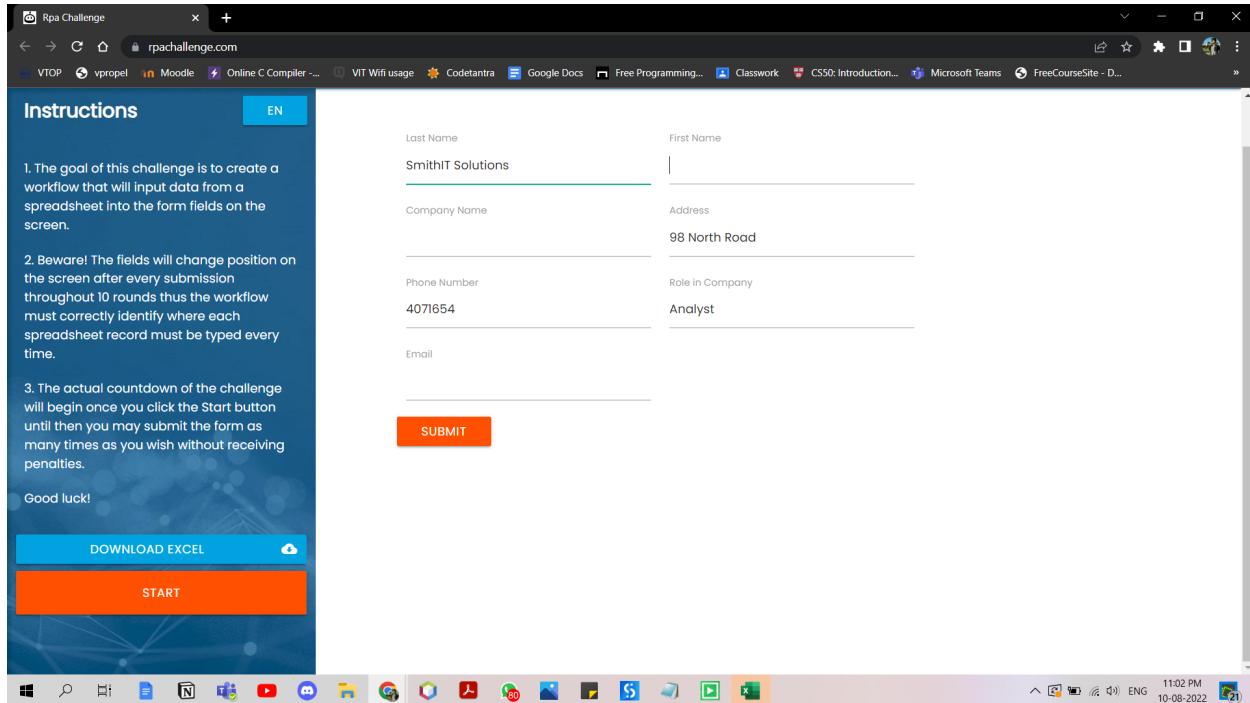
3. The actual countdown of the challenge will begin once you click the Start button until then you may submit the form as many times as you wish without receiving penalties.

Good luck!

[DOWNLOAD EXCEL](#)

[START](#)

Last Name: SmithIT Solutions
First Name: _____
Company Name: _____
Address: 98 North Road
Phone Number: 4071654
Role in Company: Analyst
Email: _____
[SUBMIT](#)



```
① Debug started for file: Main
② Anchors execution started
③ Audit: Using Web App. Browser: Chrome URL: www.rpachallenge.com
④ Anchors execution ended in: 00:01:37
```

Result

Hence, we have successfully created sequences to do input Input methods- Notepad, Starting a Web Browser, Web Recording, Anchors.