



VIT[®]

Vellore Institute of Technology

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

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Reg Num: 20BRS1208

Assessment 4

Exercise 1 : While Activity

Aim

To make a sequence using While Activity to check if the number entered by the user is a prime number.

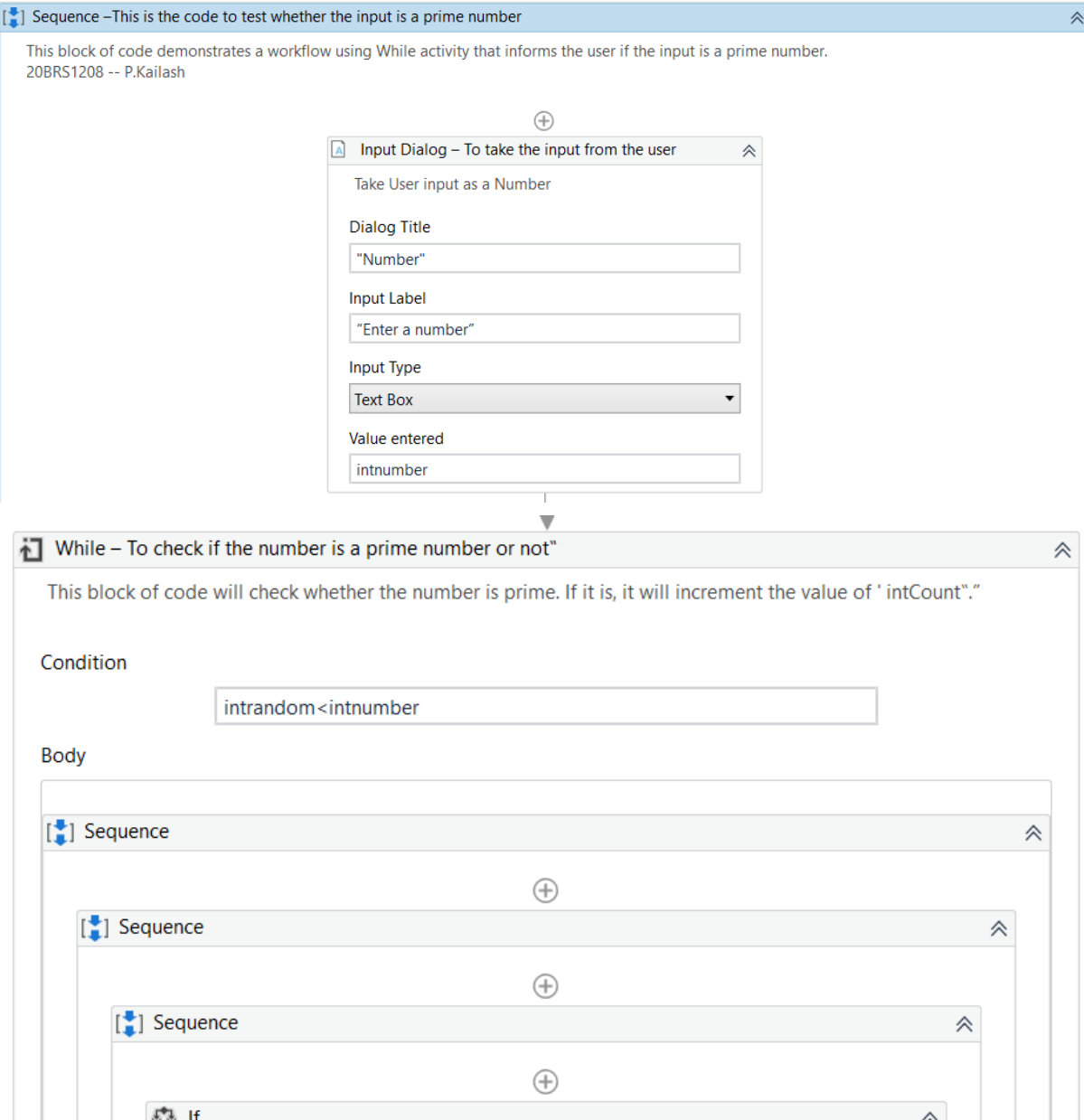
Process Overflow

1. Start the process
2. Use the Input Dialog activity to get a number from the user and store it in a variable
3. Create 2 more variables so that we can store the count and also the default count
4. Use the while condition to see if $\text{intRandom} < \text{Number}$
5. Use an If activity in the While activity and set the condition to $\text{intNumber} \bmod \text{intRandom} = 0$.
6. Use an assign activity after/below the If activity, and increment value of intRandom by 1.
7. Use the message box activity within the then section to display if the number is prime or not.

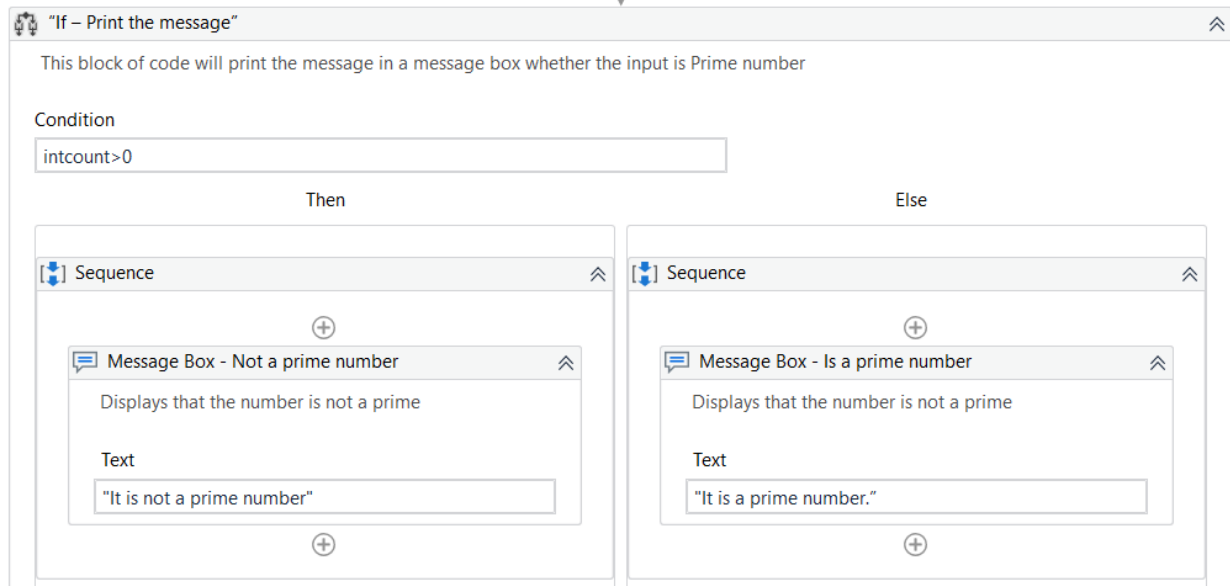
Procedure

1. Open UiPath and start a workflow.
2. Add a sequence into the workflow.
3. Now, insert an input dialog activity within the sequence.
4. In the input dialog activity, enter "number" in the dialog title text box and "enter a number" in the input label text box.
5. Create 3 variables "intNumber" , "intRandom" and "intCount" which should all store integer values. Make the default value for intRandom and intCount should be 2 and 0 respectively.
6. Now in the same input dialog activity, enter "intRandom" as the place where to store the user given input.
7. Now insert a while activity below the input dialog activity.
8. Inside the while activity, enter the condition as $\text{intRandom} < \text{intRandom}$.
9. In the body section of the whole activity, add a sequence.
10. Insert an if activity inside the sequence and enter the condition as $\text{intNumber} \bmod \text{intRandom} = 0$.
11. Now insert an assigned activity in the then section of the if activity and enter the value as $\text{intCount} + 1$ for intCount.
12. Below the if activity insert another assigned activity and enter the values to intRandom as $\text{intRandom} + 1$.
13. Below the while activity insert an if activity.
14. Inside the if activity add the condition $\text{intCount} > 0$
15. In the then section of the if activity, add a message box that should display "it is not a prime number".
16. In the else section of the if activity , add a message box that should display "it is a prime number".
17. End the process

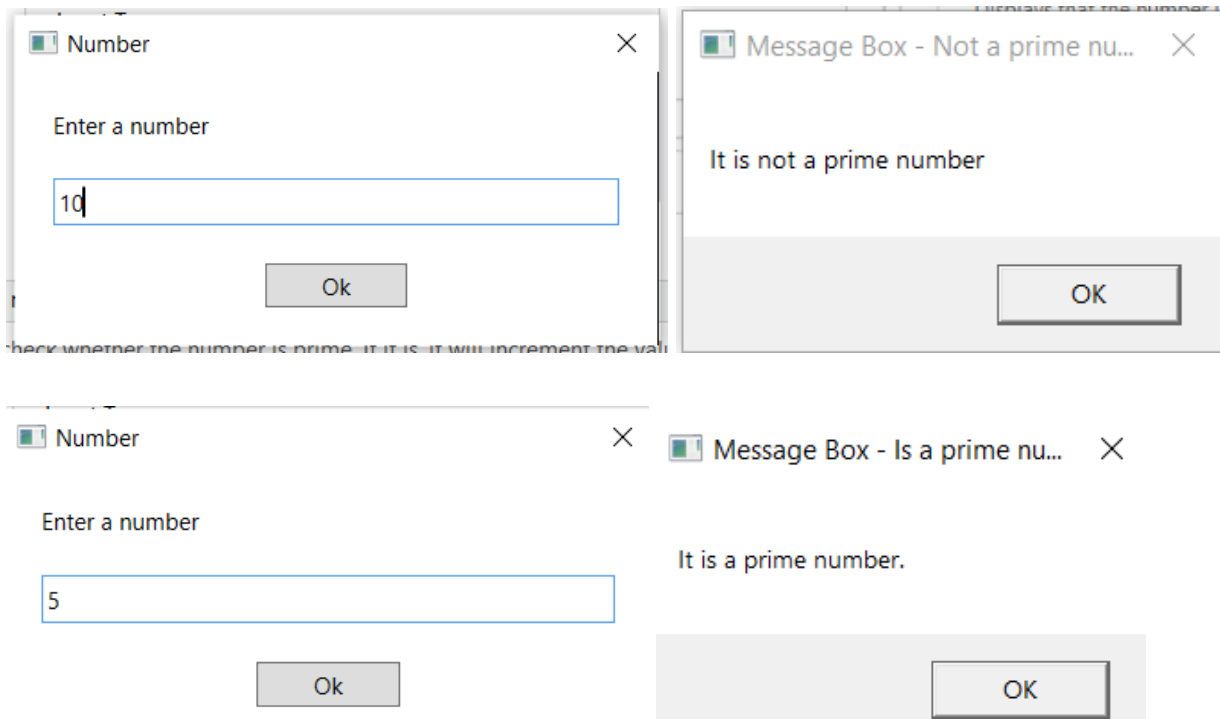
Activity Box







Output



Exercise 2 : For Each Activity

Aim

Create a sequence to use the For Each Activity to display file names from a selected folder

Process Overview

1. Start the process
2. Select a folder
3. Use the assign activity to store the file names in the array
4. Use open application and select ms word
5. Use the for each activity to go through each file name in the file
6. With the help of write line activity print them on the word file
7. Finally save and close the file

Procedure

1. Open UiPath and start a workflow.
2. Add a sequence in the workflow.
3. Insert a browse file activity in the sequence.
4. Now define a variable "foldername" which holds a string value in the variable section.
5. In the properties panel of the browse folder activity, enter the foldername variable to store the user input.
6. Insert an assign activity below the browse file activity
7. Add another variable "filelist" which is of variable type System.String[].
8. Assign the variable in the assign activity as "Directory.GetFiles(foldername)"
9. Use application activity and open a MS Word window manually and indicate it to the MS Word window.
10. Now add a for each activity in the do section of the use application activity and insert item in the first text box and filelist in the second text box.
11. Add a write line activity in the body section of the for each activity. Enter the expression item.ToString.
12. Now add a type into activity in the body section of the for each activity and indicate it to the editor section of the MS word .
13. In the text area of the type into activity, enter "item.ToString + "[k(enter)]" "
14. Enter s shortcuts key activity and indicate it to the editor part of the MS word.
15. In the dropdown of the shortcuts activity , select F12.
16. Insert a click activity and indicate it to "save as" button.
17. Now insert a shortcut key activity and add "Alt + F4" for closing the MS Word window.
18. End the workflow.

Activity Box

[🔧] Sequence – This code is to write all the file names in MS Word present in a particular folder

1. Locate and select a folder containing multiple files.
2. List the directory path of all the files in the Output panel.
3. Store the updated names in MS Word file and save and close it.

20BRS1208 -- P.Kailash

⊕

✔ Browse for folder

User selects a folder

Selected folder path

foldername

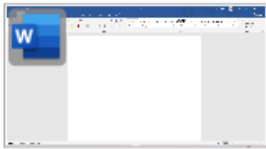
↓

A*B Assign - 'File List'

Get all the file names that the user selects and stores it in a list

W Use Application: Document1 - Word

Attach MS Word window



Application path

"C:\Program Files\Microsoft Office\root\Office16\winword.exe"

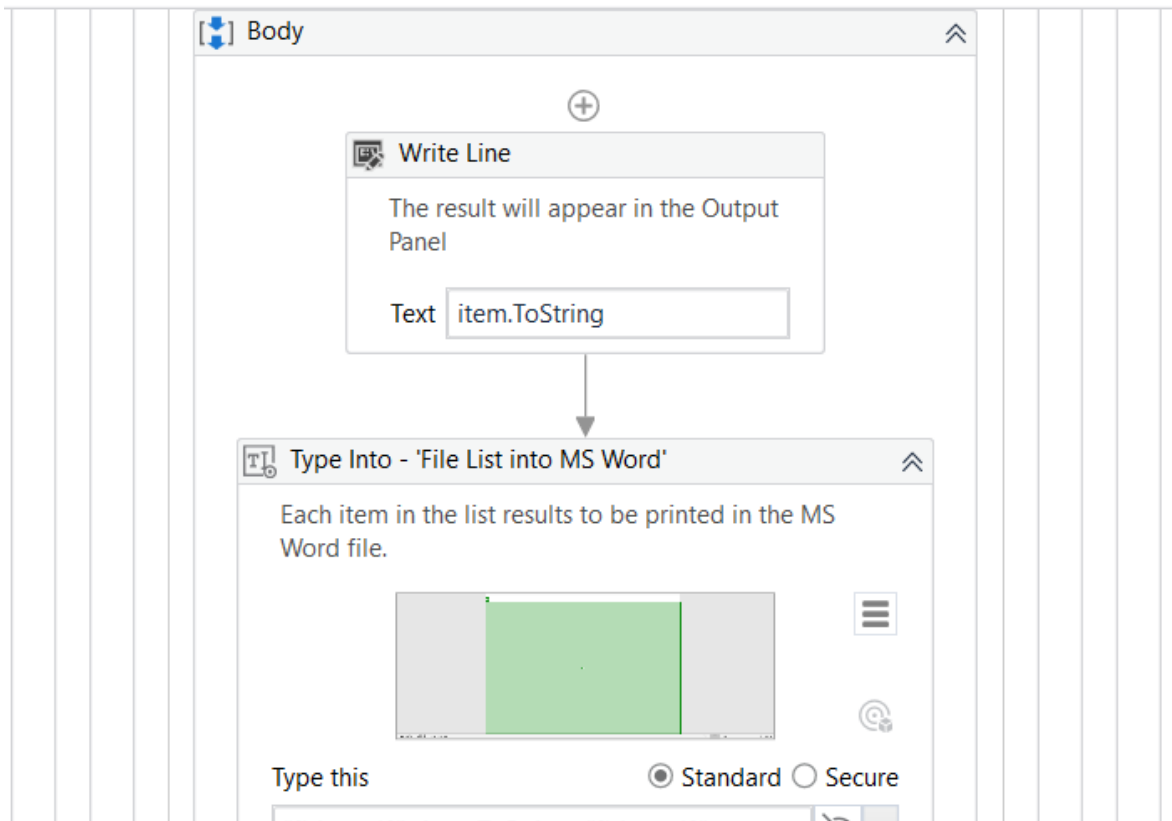
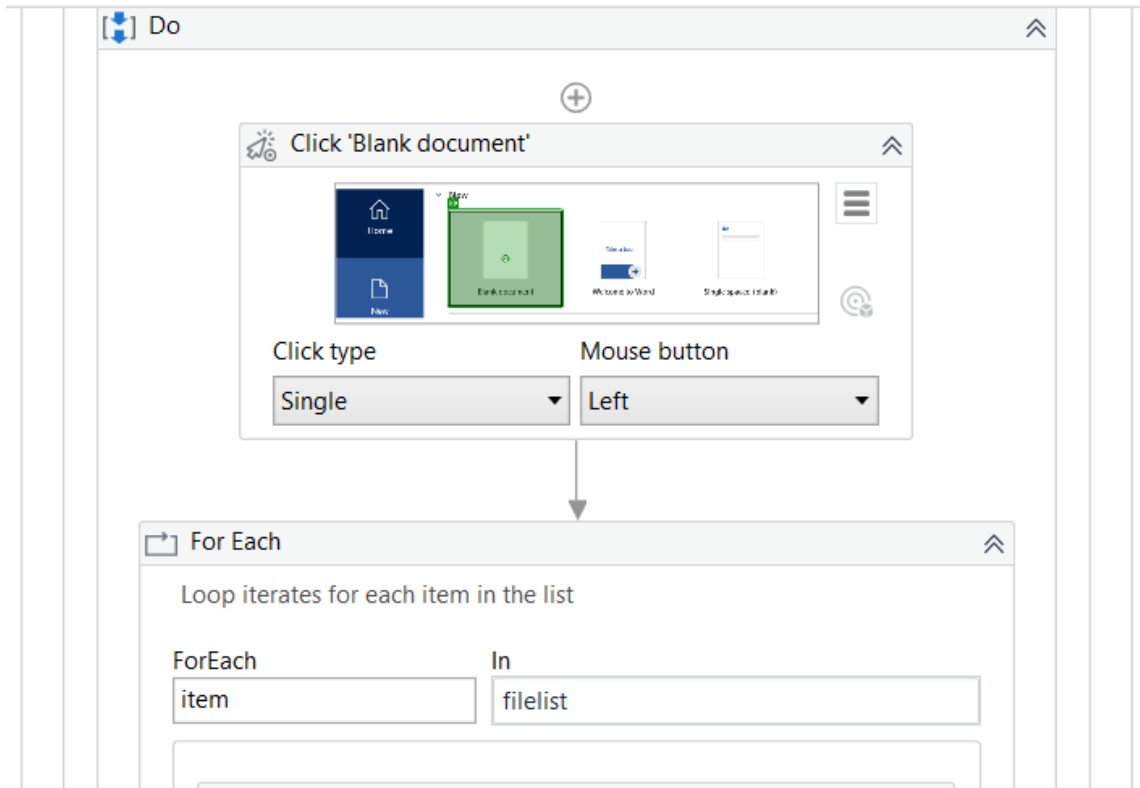
Application arguments

Text must be quoted

☐ Match exact title: *


[🔧] Do

⊕



Send Hotkey - ' Open the Save As dialog box.'

Pressing F12 key opens the 'Save As' Dialog box in the MS Word




☒ [Record shortcut](#)

Send key combination

F12 ✕


Click 'Save' button

Press Save button from Save As pop Dialog box.



Send Hotkey - 'To close the application'

Press 'Alt+F4' key to close the MS Word window



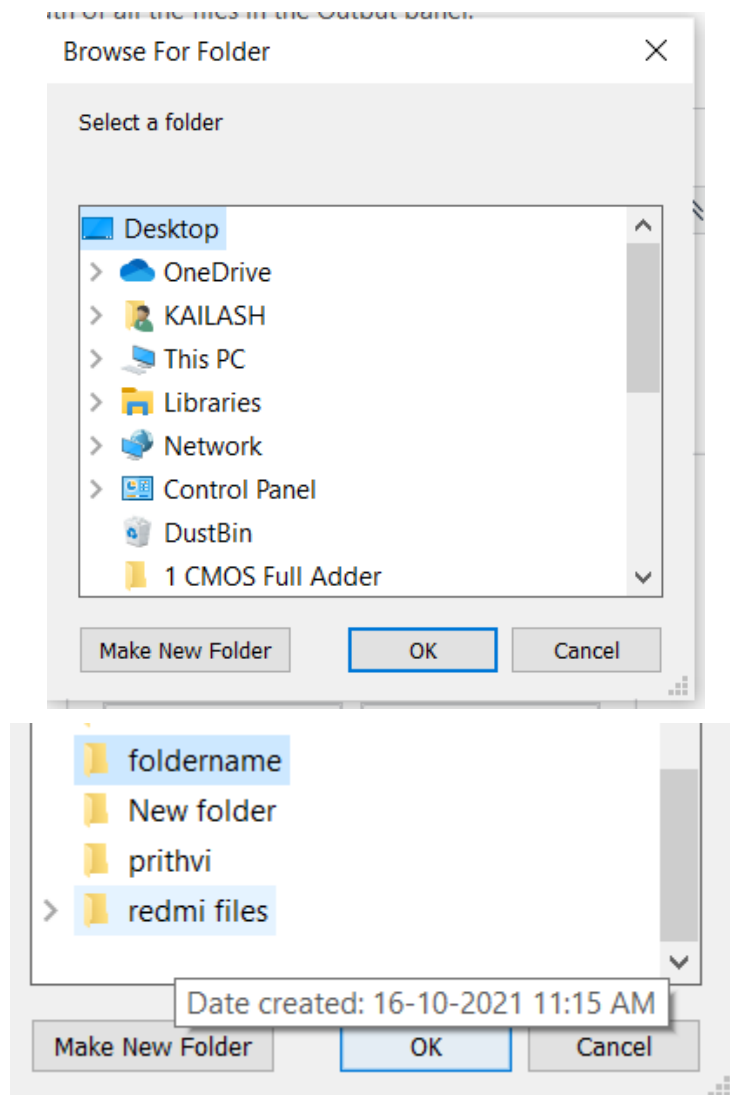
☒ [Record shortcut](#)

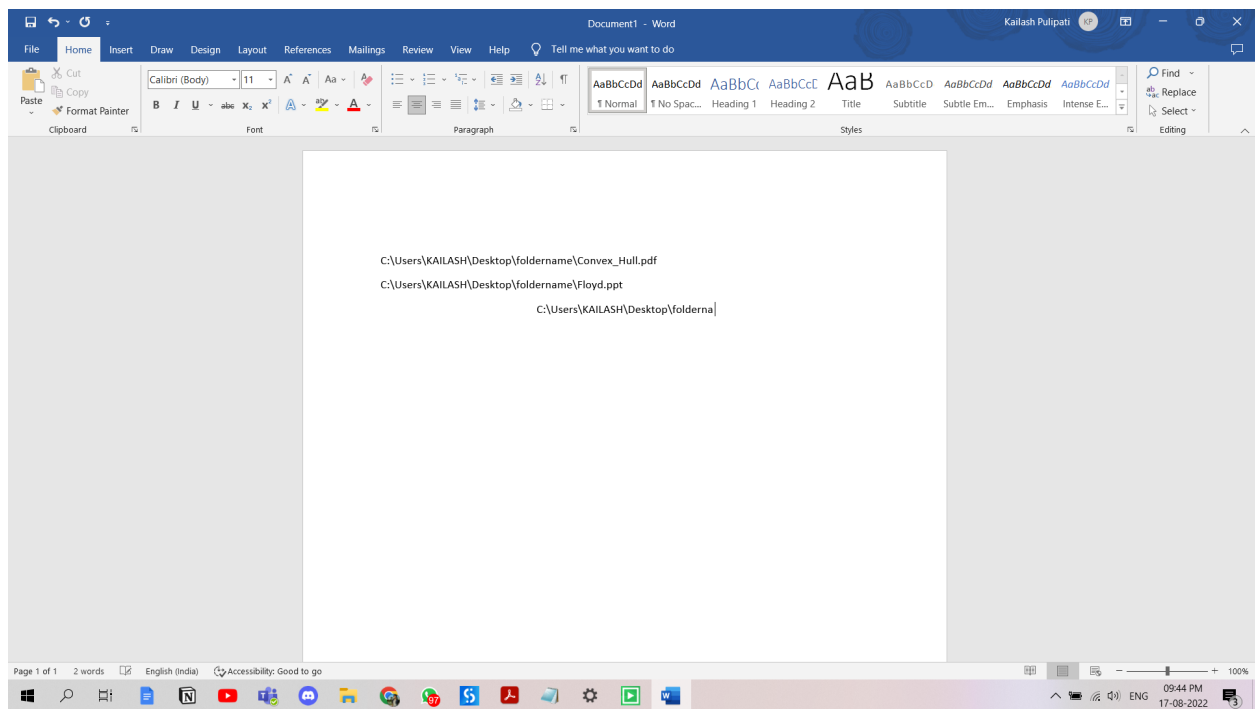
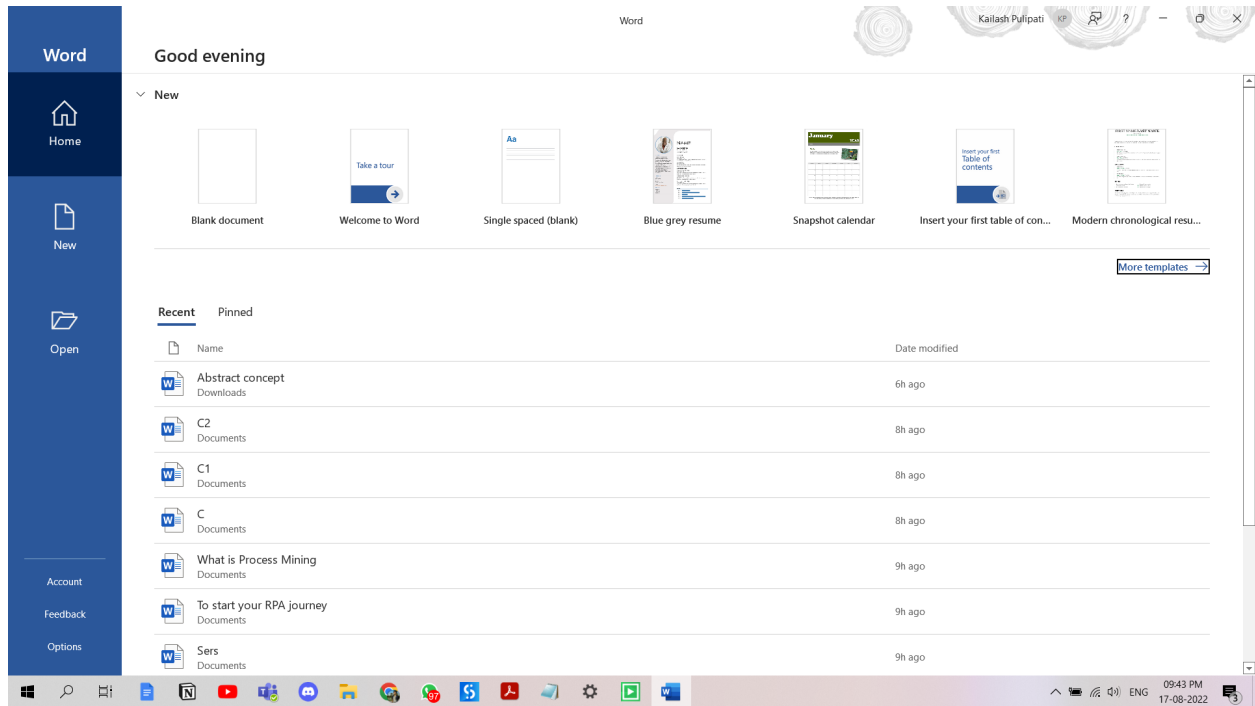
Send key combination

Alt+F4 ✕



Output





Exercise 3 : Parallel Activity

Aim

Create a sequence to do the following using Parallel Activity

- Open UiPath website, copy the text from the “What is Robotic Process Automation?” section
- Open UiPath website, copy the text from the “What is Process Mining?” section
- Open UiPath website, copy the text from the RPA Journey webpage

Process Overview

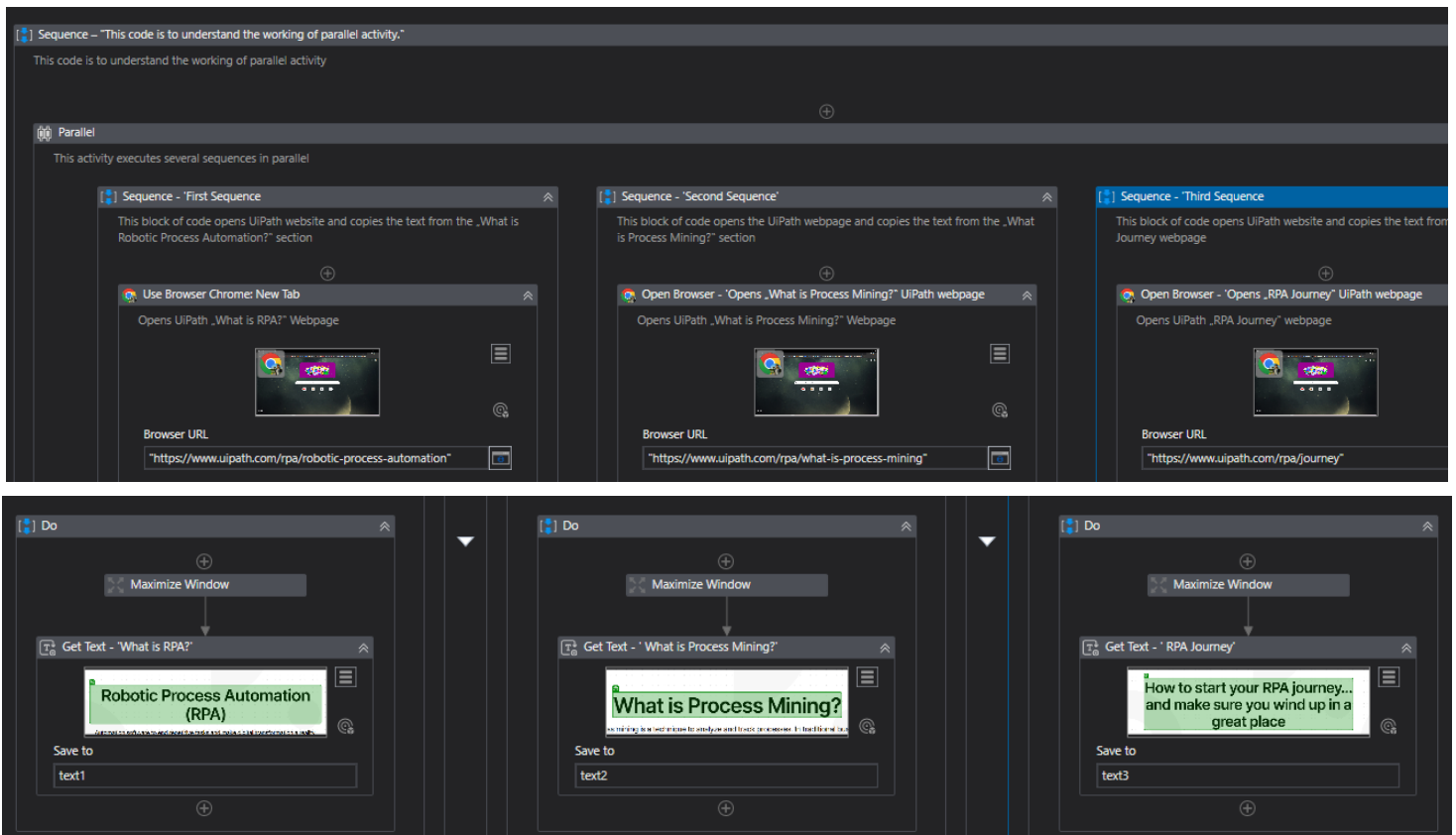
1. Create a sequence
2. Make 3 sequences using the parallel activity
3. In the first sequence open the website
“<https://www.uipath.com/rpa/robotic-process-automation>” and copy the text
4. In the second sequence open the website
“<https://www.uipath.com/rpa/what-is-process-mining>” and copy the text
5. In the third sequence open the website
“<https://www.uipath.com/rpa/journey>” and copy the text.
6. Finally add all these texts in a word file and save it.

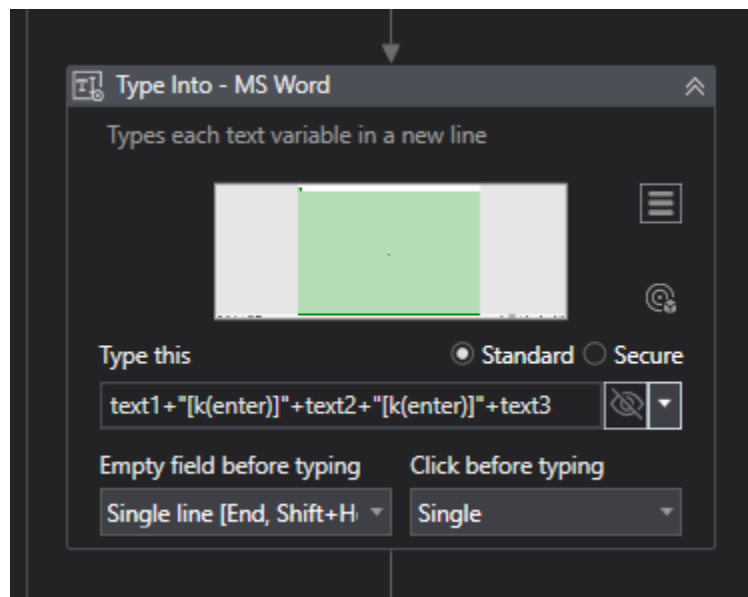
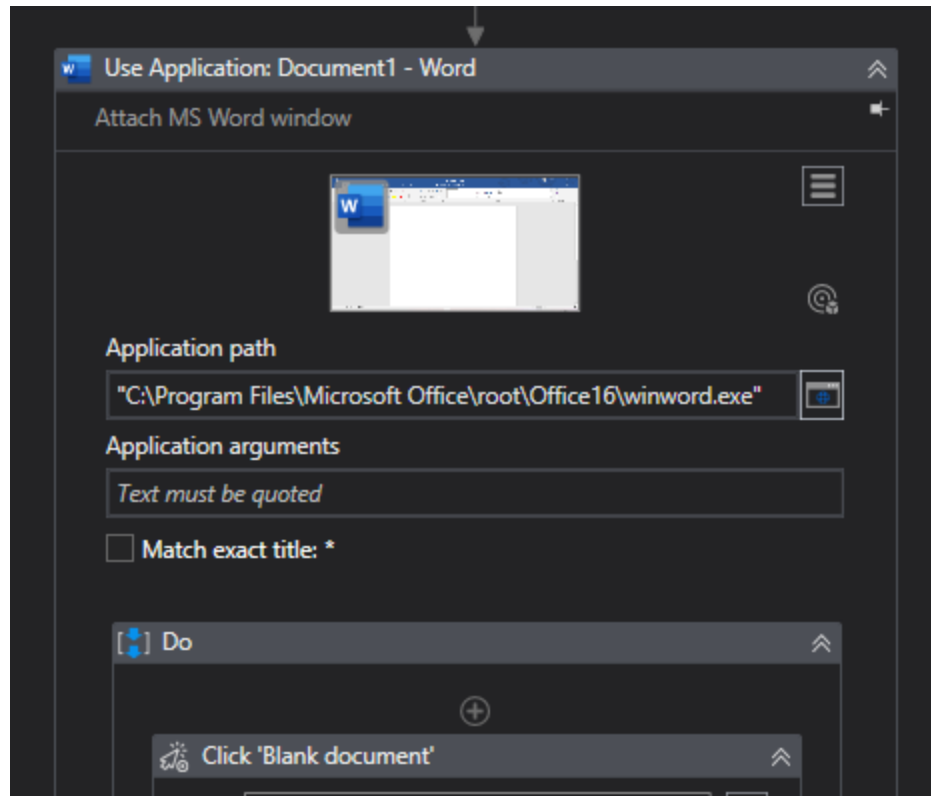
Procedure

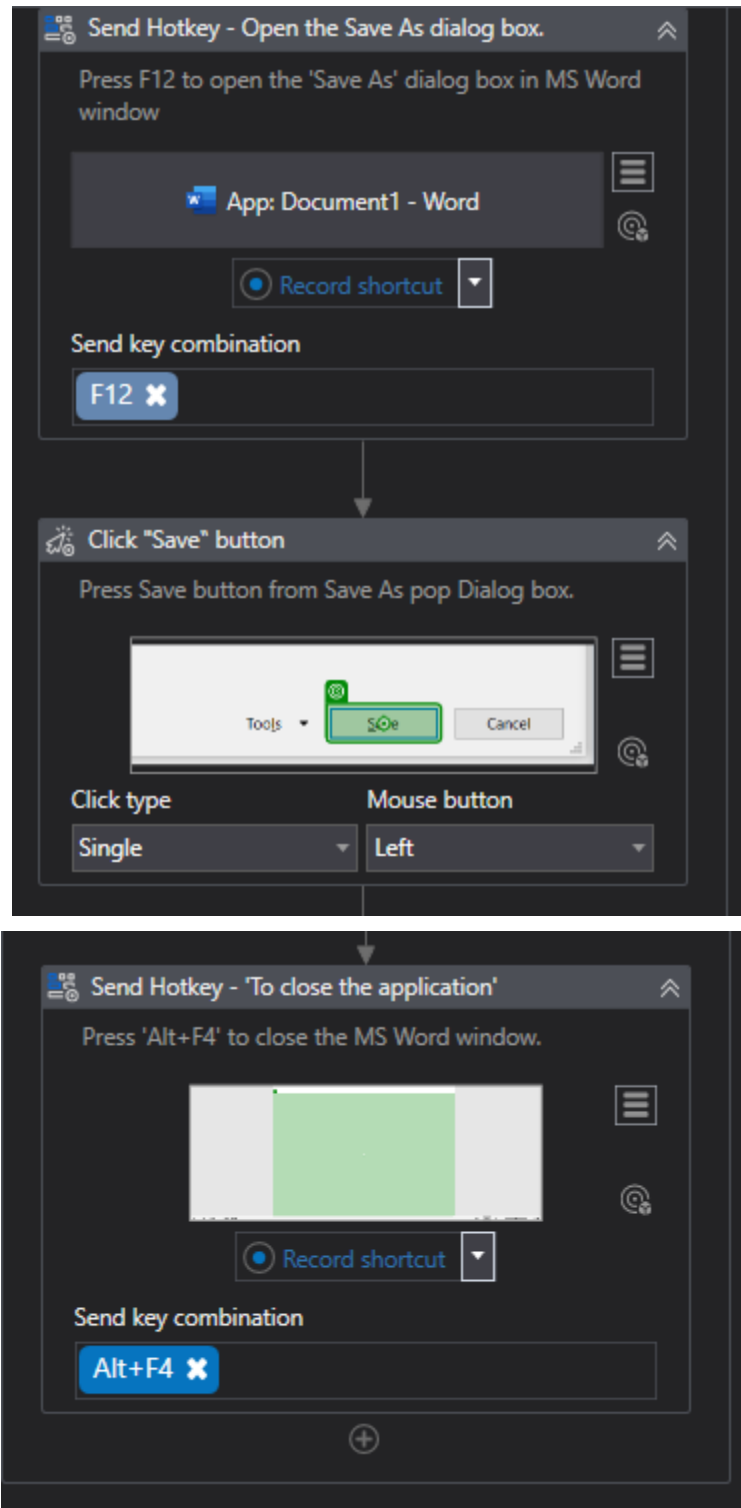
1. Create a sequence.
2. Add a parallel activity to the sequence .
3. Create a variable for each of the 3 sequences.
4. For the First Sequence open the website
“<https://www.uipath.com/rpa/what-is-process-mining>” and copy the text.
5. For the Second Sequence open the website
“<https://www.uipath.com/rpa/what-is-process-mining>” and copy the text.
6. For the Third Sequence open the website
“<https://www.uipath.com/rpa/what-is-process-mining>” and copy the text.
7. Finally after copying all the required texts use the close application to close the windows
8. Now use the open application activity and open a word file.

9. Use the Edit Selector opening in the dropdown list and change the file name of the word document to "*" and click on "ok"
10. Select the editor space in the word file using the "Indicate element inside window"
11. Use the **text1+ "[k(enter)]" +text2+ "[k(enter)]" + text3** expression to print each copied text in the variable into the word file.
12. With the help of keyboard shortcut activity press F12 so as to save the file
13. And with the help of click activity click on the save button to save the file.
14. Use the keyboard shortcut activity to close the word file after saving it.
15. Save and run the workflow

Activity Box



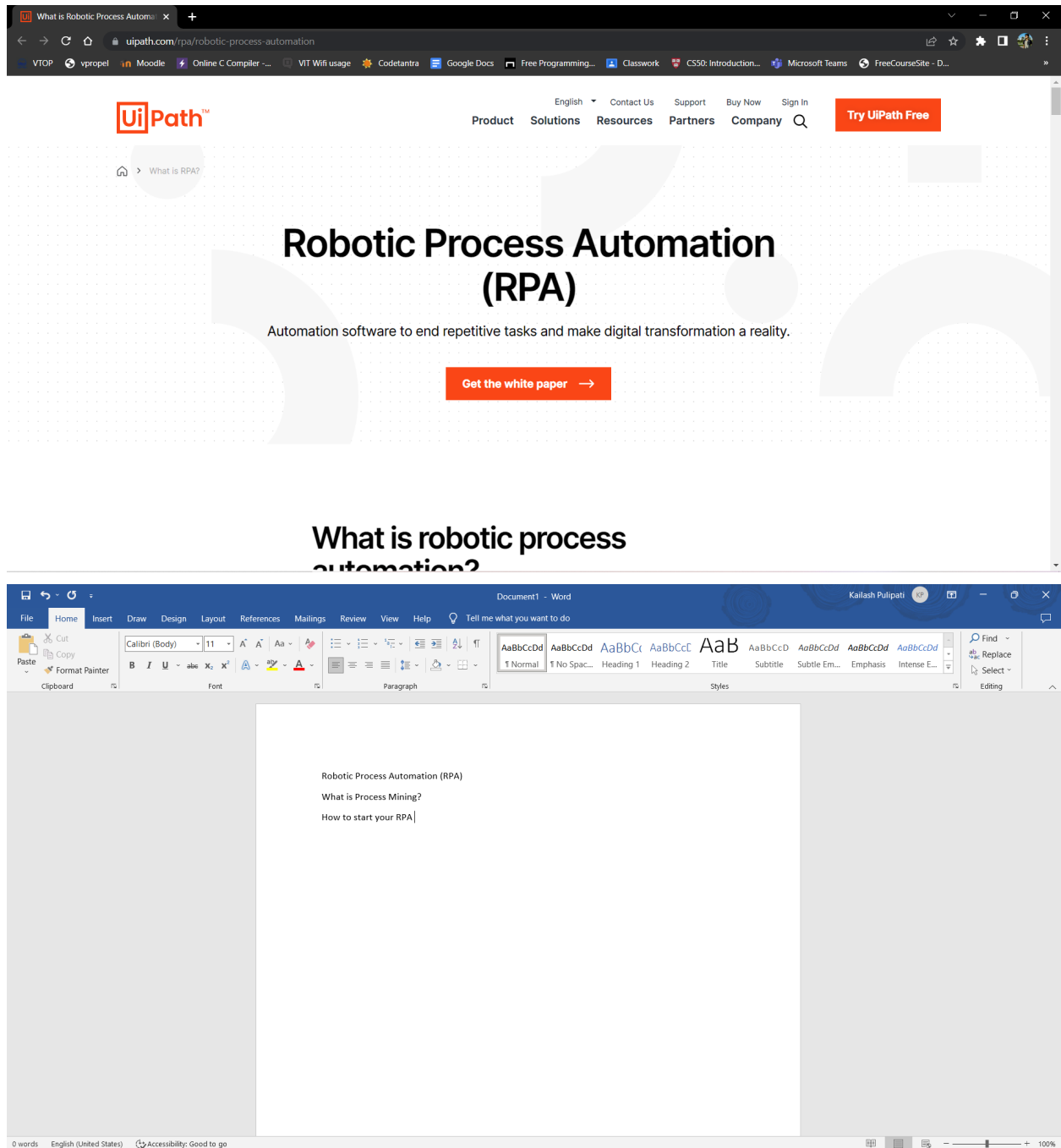




Variables Used

Name	Variable type	Scope	Default
text2	String	Sequence – "This co...	<i>Enter a VB expression</i>
text1	String	Sequence – "This co...	<i>Enter a VB expression</i>
text3	String	Sequence – "This co...	<i>Enter a VB expression</i>

Output



Result

Hence, we have successfully created a sequence which demonstrates the working of While, For Each, Parallel Activities with the help of a task.