



RPA Specialization

Course 2: Data Manipulation in RPA

Practice Exercise-String Manipulation-2

String Manipulation-2

Build a workflow using **Split** and **Contains** methods that extract sentences containing “RPA” from a paragraph

- Store a paragraph in a string variable using an **Assign** activity
- Store all sentences from the text in an array using a **Split** method
- Loop through each sentence and identify sentences containing “RPA” using **Contains** method
- Store all identified sentences in an MS Word file

Process Overview

- START
- Use an **Assign** activity to store a paragraph in a string variable called **newText**
- Use **newText.Split(“.”c)** and store all sentences in an array called **newSentence**
- Use a **For Each** activity and iterate through each item in the array **newSentence**
- Use an **If** activity within the For Each activity to identify sentence that contains the string “UiPath in it. Use **item.Contains(“RPA”)** as condition
- Use a **Type Into** activity to store result in an MS Word file
- STOP

Step-by-Step Process

- Step 1:** Open a new MS Word file.
- Step 2:** Open Studio.
- Step 3:** Create a new process and name it as “String Manipulations – Practice 2”
- Step 4:** Drag a **Sequence** activity from the Activities panel and drop it in the Designer panel.
- Step 5:** Name the **Sequence** activity as “Sequence – ‘This code is to demonstrate the use of Split and Contains method.’”
- Step 6:** Right-click on the **Sequence** activity container and select *Annotations* from the context menu.
- Step 7:** Enter the annotation “This block of code demonstrates a workflow using Split and Contains methods that extract sentences containing “RPA” from a paragraph”.

Step 8: In the Variables panel, create variables as shown below:

Name	Variable type	Scope	Default
newText	String	Sequence - This code is to Demonstrate the use of Split and Contains.	
newSentence	String[]	Sequence - This code is to Demonstrate the use of Split and Contains.	

Step 9: Drag an **Assign** activity and Drop it into the “Sequence - This code is to Demonstrate the use of Split and Contains.”.

Step 10: Name the **Assign** activity as “Assign - Message”, add an annotation: “This message is stored in the variable: newText” and enter the values as shown below:

To	Value
newText	"Robotic process automation (RPA) is a software technology that makes it easy to build, deploy, and manage software robots that emulate human actions interacting with digital systems and software. RPA streamlines workflows, which makes organizations more profitable, flexible, and responsive. RPA is non-invasive and can be rapidly implemented to accelerate digital transformation. It also increases employee satisfaction, engagement, and productivity by removing mundane tasks from their workdays. "

Step 11: Drag and drop another **Assign** activity and place it after the **first Assign** activity.

Step 12: Name the **Assign** activity as “Assign - Split sentences and store it in an array.”, add an annotation: “String Manipulation -Split string” and enter the values as shown below:

To	Value
newSentence	newText.Split(“.”c)

- Step 13:** Drag and drop a **For Each** activity, add an annotation: “Loop iterates for each item in newSentence” and in the first box enter **item** and in the second box enter **newSentence**. Change the “**Type Argument**” property of For Each activity as “String”.
- Step 14:** In the Body section of the For Each activity, drag and drop an **If** activity. Name it as “If - item contains word "RPA"”, and add an annotation: “This activity judges whether the sentence contains word ‘RPA’.” and enter condition as **item.Contains("RPA")**
- Step 15:** Drag and drop an **Attach window** activity, place it in the **Then** section of the **If** activity and name it as “Attach Window - MS Word”. Add an annotation: “Attach MS Word window”.
- Step 16:** Click on the “Indicate element on screen” link and select the MS Word window.
- Step 17:** Drag and drop a **Type Into** activity in the Do container of the **Attach Window** activity and name it as “Type Into - MS Word”. Add an annotation: “Types each item in the word file.”
- Step 18:** Click on the “Indicate element on screen” link and select editor area of MS Word.
- Step 19:** In the text area of the **Type Into** activity enter expression: **item.ToString+ "[k(enter)]"**
- Step 20:** Save and Run the workflow.