

Replacing Few Characters from string, copy source file to destination, explore all string subactions

4.1 – Replacing the characters from the string

Problem Statement:

- 1) Take the string input from user .
 - A) Take the part of String to be replaced as input.
 - B) Take the string which has to added in place of replaced text.
 - C) Replace the string/characters and show the newly formed string.

Controls used:

1. Prompt: For Value

Prompt: For Value control opens dialogue box on the desktop and ask for input. Then we can store the input value into custom variable for future operations.

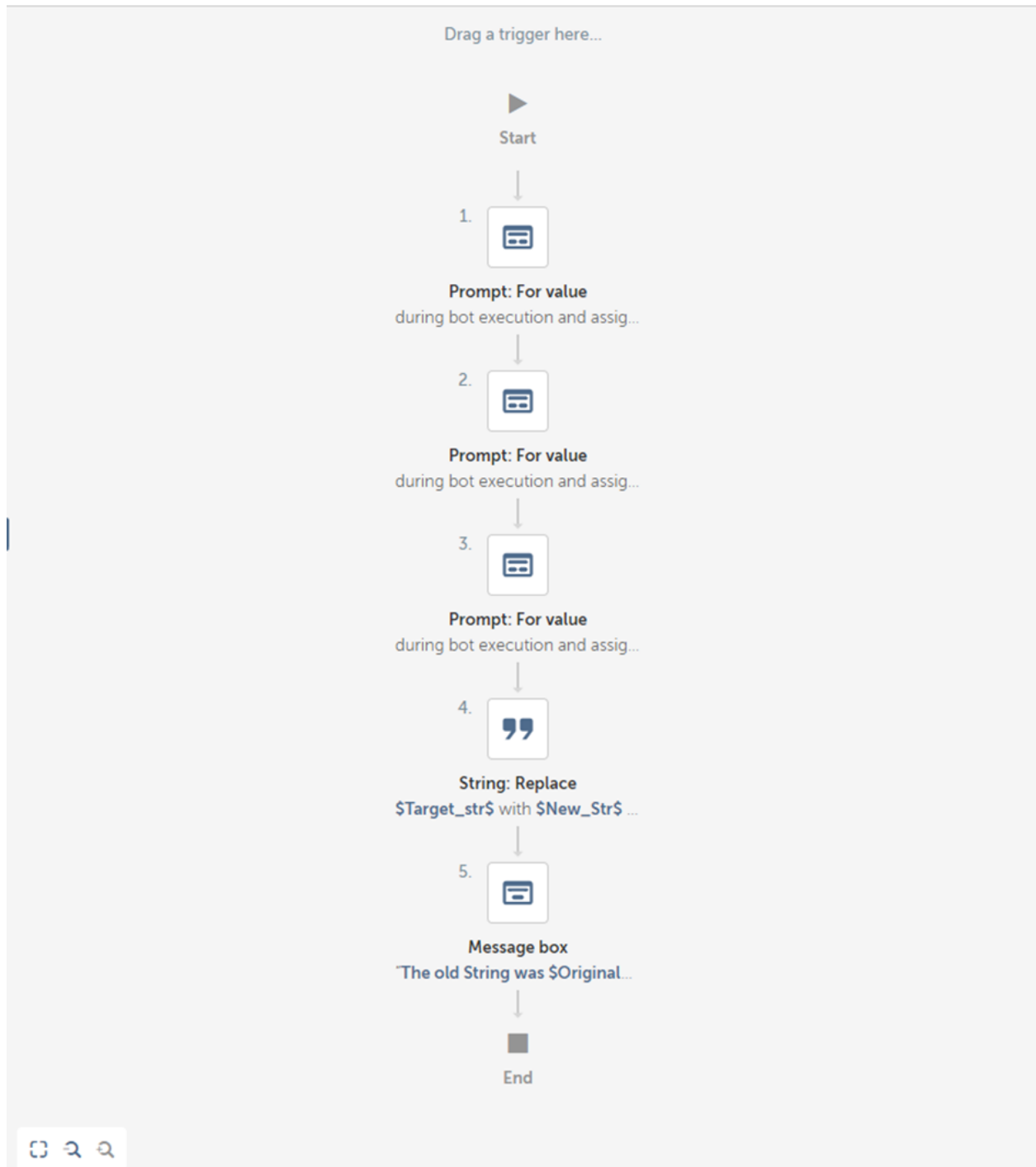
2. String: Replace

String: Replace replaces the string, we have to specify the string to be replaced and the string that has to be inserted in place of that. It stores that newly formed string into the variable as we provided.

3. Message Box

Message Box : Message box simply displays the messages or texts that we have setted to be displayed.

The Final Flowchart of Bot is look like -



Step 1: Add Prompt : For value and give the caption and prompt message and store the input string into variable (here “origin”)

✓ Saved

Assistant

▶ Run

⚙ Debug

⋮

Close

Save

Flow

List

Dual

Prompt: For value

Prompts you to enter a value

Required bot agent version: 20.11 or above

Prompt window caption

”” Lab 4.1

(x)

Prompt message

”” Enter the String

(x)

☐ Mask keystroke

Assign the value to a variable

”” Original

▼

(x)₄

Step 2: Select Prompt: For Value and ask for the value to be replaced from given string and store it into the variable (here “target_str”)

✓ Saved

Assistant

▶ Run

⚙ Debug

⋮

Close

Save

▼

Flow

List

Dual

Prompt: For value

📄

Prompts you to enter a value

Required bot agent version: 20.11 or above

Prompt window caption

” Lab 4.1 (x)

Prompt message

” Replaced String to be (x)

☐ Mask keystroke

Assign the value to a variable

” Target_str ▼ (x) +

Step 3: Select Prompt: For value and ask for string to be replaced in place of given string and store it in the variable (here it is “New_Str”)

✓ Saved

Assistant

▶ Run

⚙ Debug

⋮

Close

Save

▼

Flow

List

Dual

Prompt: For value

📄

Prompts you to enter a value

Required bot agent version: 20.11 or above

Prompt window caption

💬 Lab 4.1 (x)

Prompt message

💬 Enter New String (x)

☐ Mask keystroke

Assign the value to a variable

💬 New_Str ▼ (x) +

Step 4: Select String:Replace and enter original string in source section and target string in find section and store the new string into new variable(here Answer_str)

✓ Saved

🔍 Assistant

▶ Run

🐛 Debug

⋮

Close

Save

FlowListDual

String: Replace

Finds a piece of text from the source string and replaces it with another text.

Required bot agent version: 20.11 or above

Source string

” \$Original\$ (x)

Find string

” \$Target_str\$ (x)

When finding

☐ Match case

☒ Do not match case

The "find string" is

☐ A regular expression

☒ Not a regular expression

Start from (optional)

1 (x)

Count (optional)

-1 (x)

Replace with (optional)

” \$New_Str\$ (x)

Assign the output to variable

” Answer_str ▼ (x) +

Step 5: Select Message box and enter the variables of old string and new string along with the suitable variables.

✓ Saved | Assistant | ▶ Run | ⚙ Debug | ⋮ | Close | Save | ▼

Flow | List | Dual

Message box

Inserts a message box to show a message when the task runs
Required bot agent version: 20.11 or above

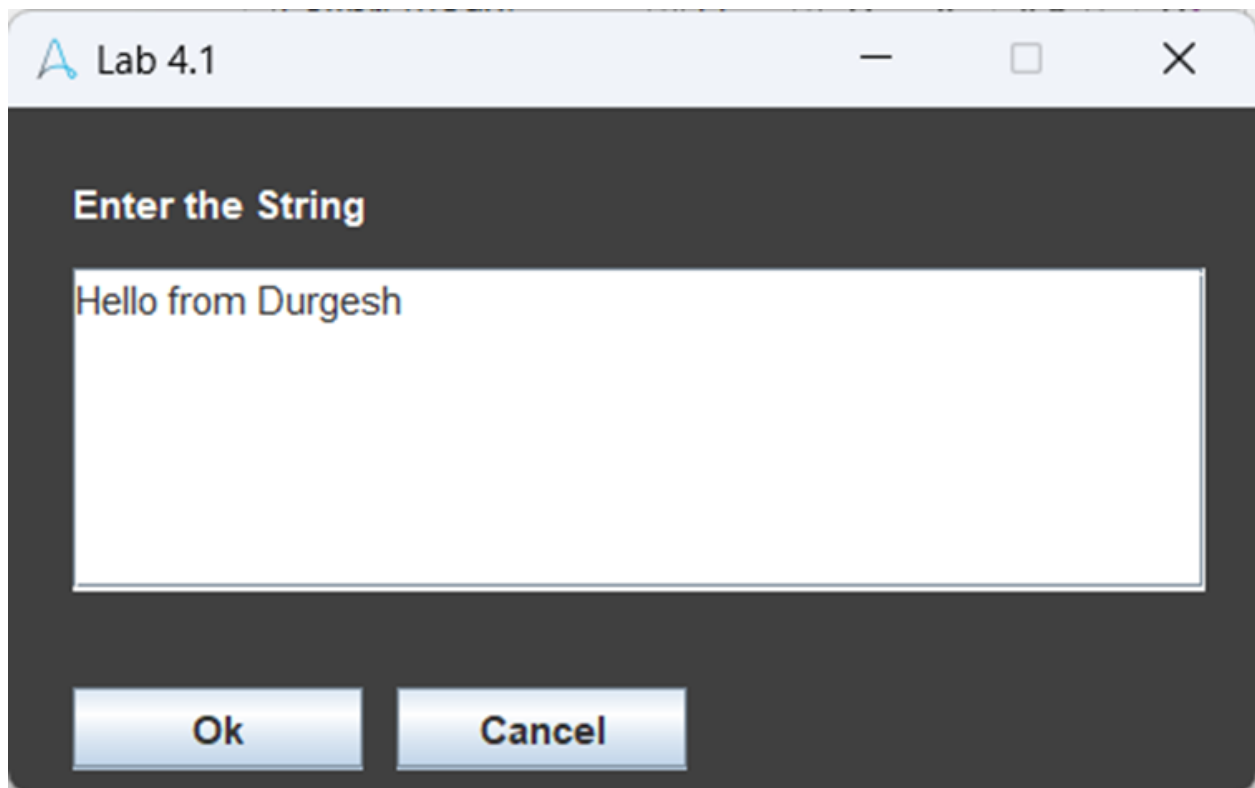
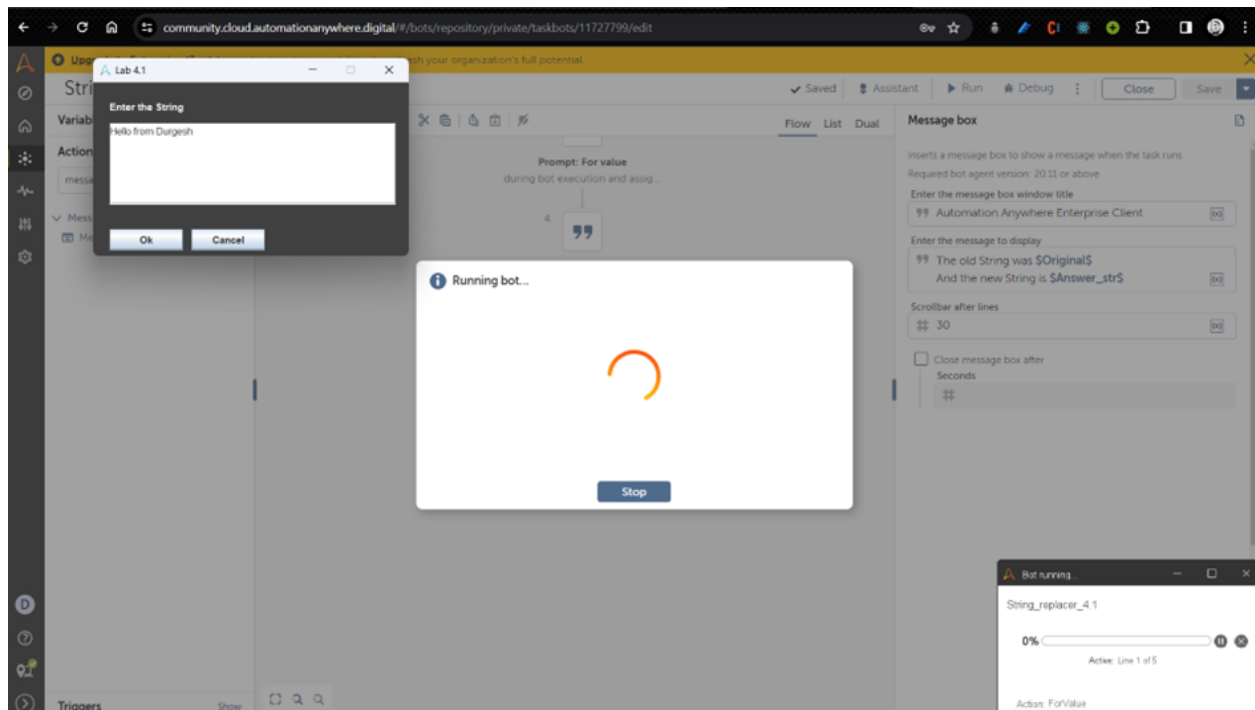
Enter the message box window title
Automation Anywhere Enterprise Client (x)

Enter the message to display
The old String was \$Original\$
And the new String is \$Answer_str\$ (x)

Scrollbar after lines
30 (x)

☐ Close message box after
Seconds
#

Step 6: Run the Bot and enter the string and click OK



Lab 4.1

Replaced String to be

Durgesh

Ok Cancel

Lab 4.1

Enter New String

Sandip

Ok Cancel

OutPut :

The image displays the Automation Anywhere Enterprise Client interface. A modal window titled "Automation Anywhere Enterprise Client" is open, showing a message box with the text:

Message from bot

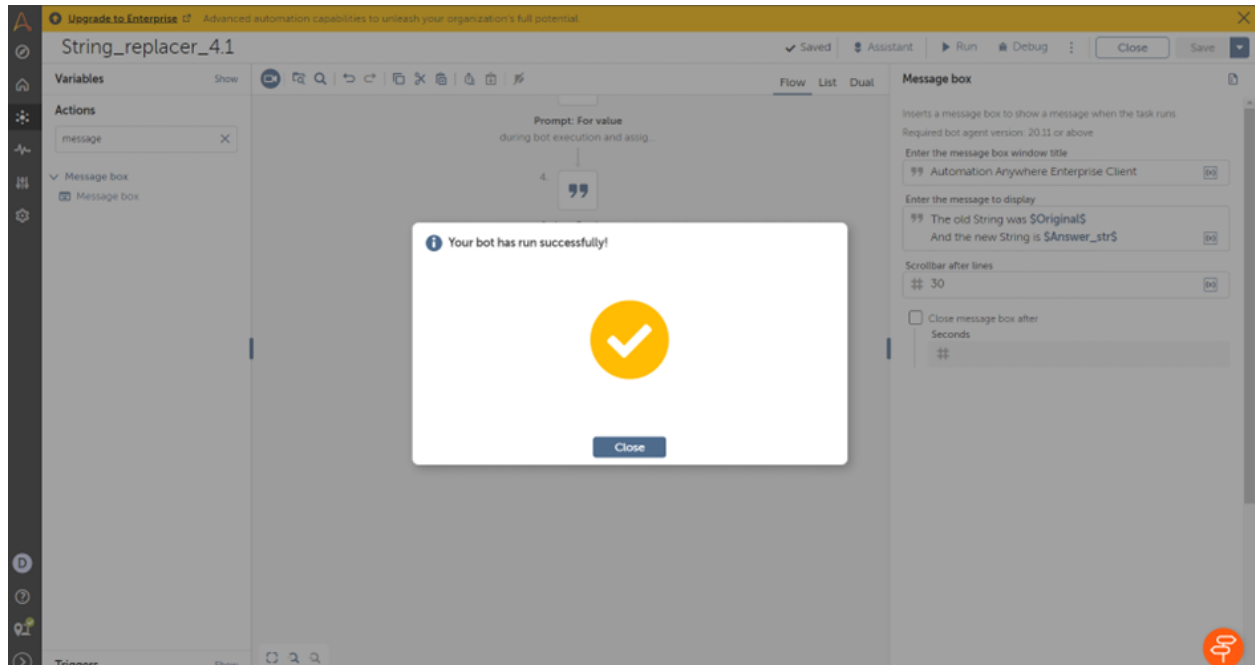
The old String was Hello from Durgesh
And the new String is Hello from Sandip

A "Close" button is visible in the bottom right corner of the message box.

The background shows the Automation Anywhere bot configuration interface for a bot named "String_replacer_4.1". The interface includes a "Variables" section, a "Message box" action, and a "Flow" tab. The "Message box" action is configured with the following settings:

- Enter the message box window title: Automation Anywhere Enterprise Client
- Enter the message to display: The old String was \$Original\$
And the new String is \$Answer_str\$
- Scrollbar after lines: 30
- Close message box after: Seconds

A "Stop" button is visible below the message box. In the bottom right corner, a "Bot running" status bar shows the bot "String_replacer_4.1" is running at 80% completion, with the action "messageBox" active.



4.1 completed

4.2 Copying folder from Source to Destination

Problem Statement:

1. Create the folder using automation and then create the file inside it via automation.
2. Then copy that entire folder from that location and paste it somewhere else location.

Controls Used:

1. Folder:Create

This action creates the folder in the path given by user. It takes the location as input.

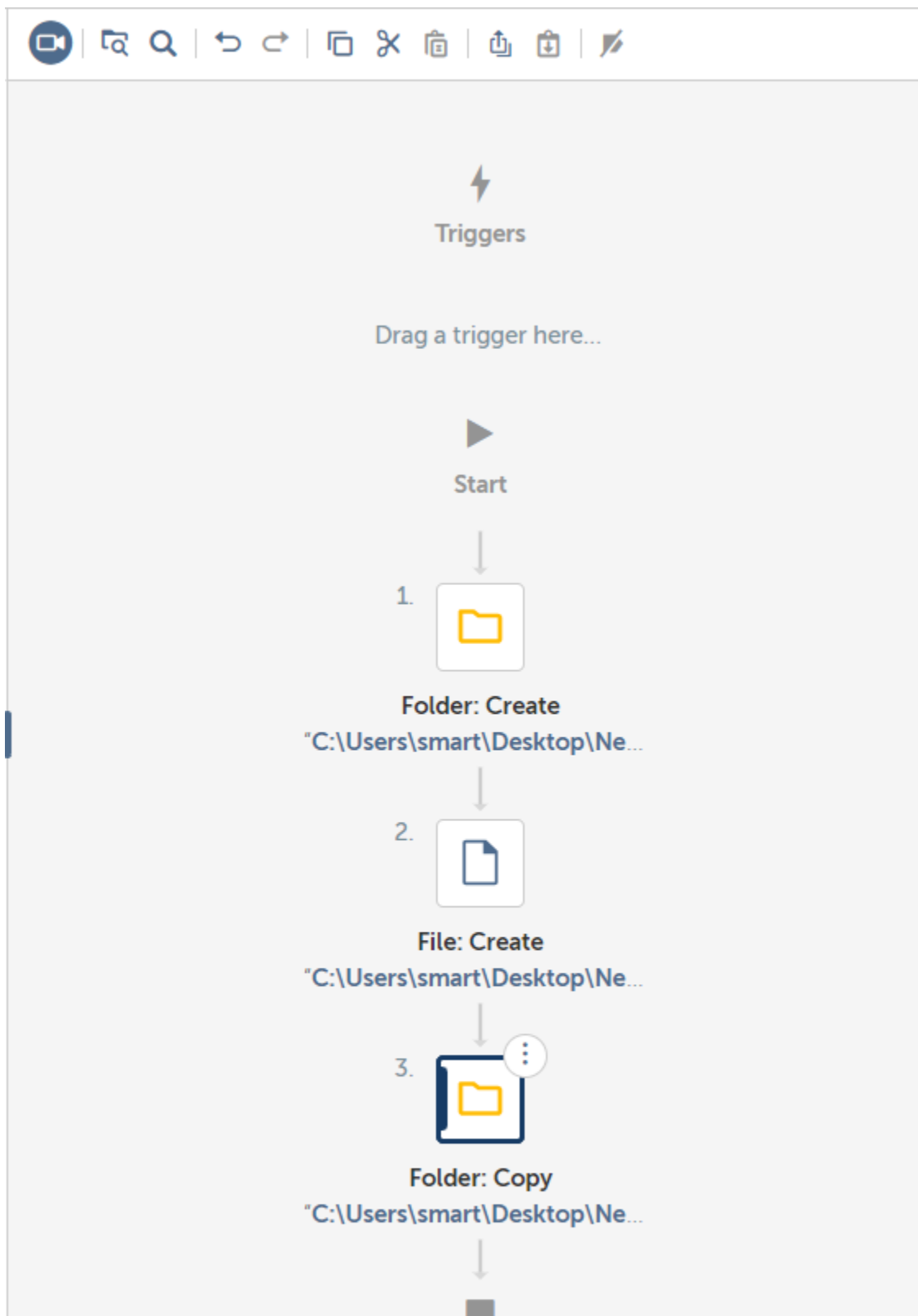
2. File:Create

File:Create action creates the file in the the specified folder . It takes the location as input.

3. Folder:Copy

This action makes copy of selected folder in the path given to it.

The final Flow chart looks like this :



Step 1: Select Folder:Create and give the path where the folder is to be created

it Dual

Folder: Create

Create a folder in a specified location
Required bot agent version: 20.11 or above

Folder

” C:\Users\smart\Desktop\NewLab4.2

(x)

e.g. C:\MyDoc\MyNewFolder

☒ Overwrite an existing folder

Step 2 : Select File>Create and enter the path where the file is to be created

d

Assistant

Run

Debug

Close

Save

ist

Dual

File: Create

Creates a new file.

Required bot agent version: 20.11 or above

File

C:\Users\smart\Desktop\NewL

Browse...

e.g. C:\MyDoc\MyFile.doc

☐ Overwrite an existing file

Step 3: Select Folder:Copy and give the source folder and destination folder name. It will create the copy of given folder into the destination location.

SavedAssistantRunDebugCloseSave

owListDual

Folder: Copy

Copies an existing folder to a specified location
Required bot agent version: 20.11 or above

Source folder

C:\Users\smart\Desktop\NewLab4.2(x)

e.g. C:\MyDoc

Destination folder

C:\Users\smart\Documents(x)

e.g. C:\Backup\

☐ Overwrite existing files/folders

☐ Size

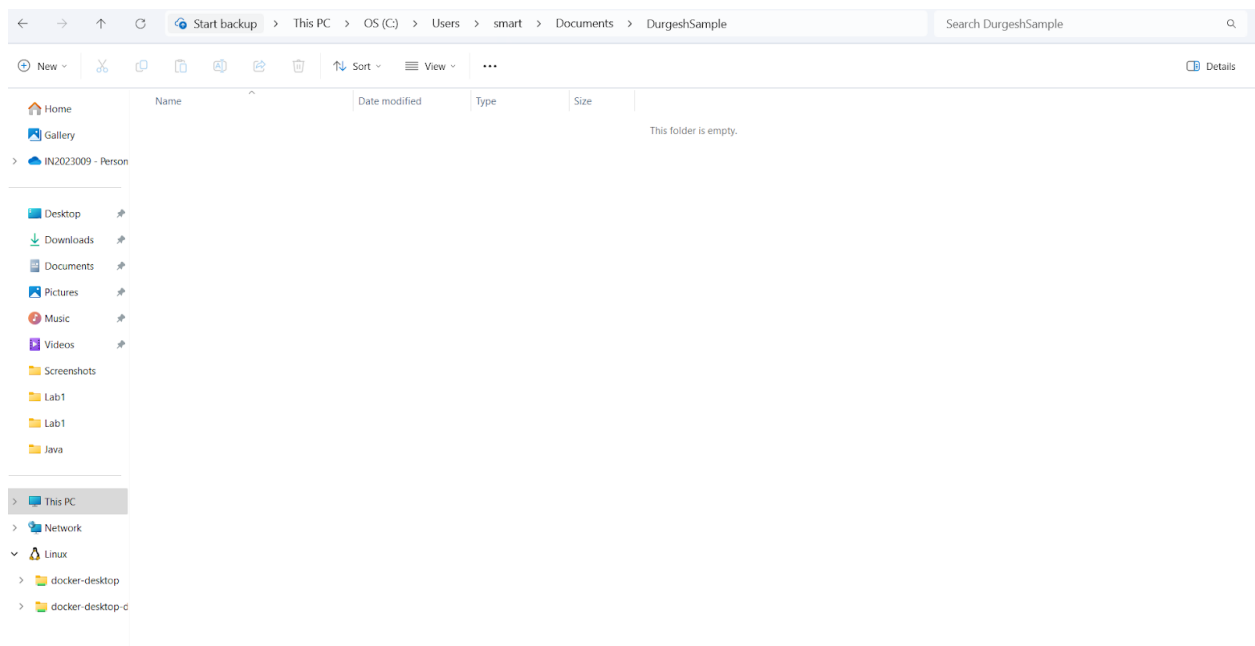
Size (KB)

#

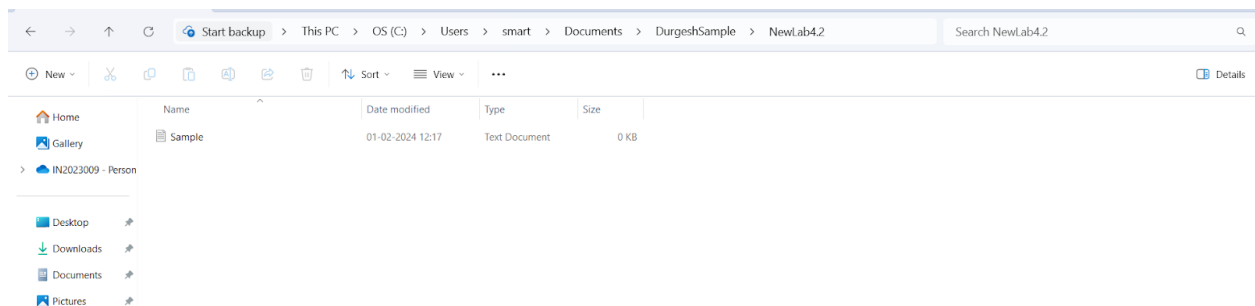
☐ Date

OutPut:

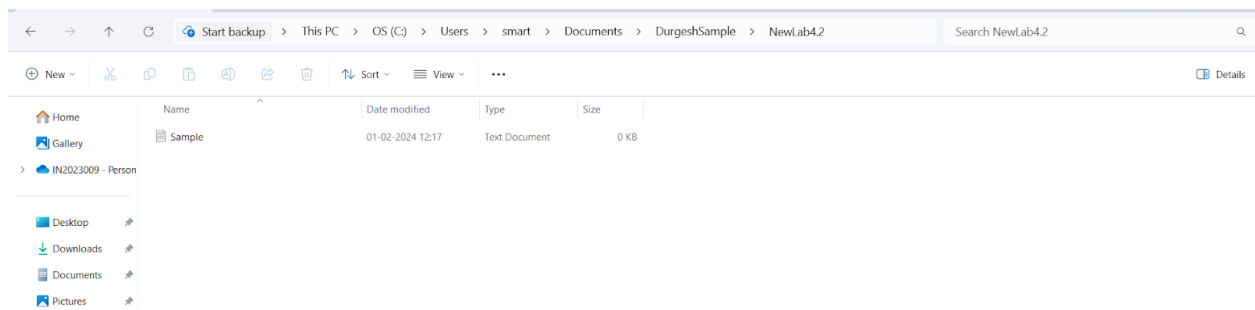
Before : Desktop folder donot have folder 4.2



After : Desktop folder do have folder 4.2



File inside that folder



Lab 4.2 is complete

4.3 Exploring all the strings actions

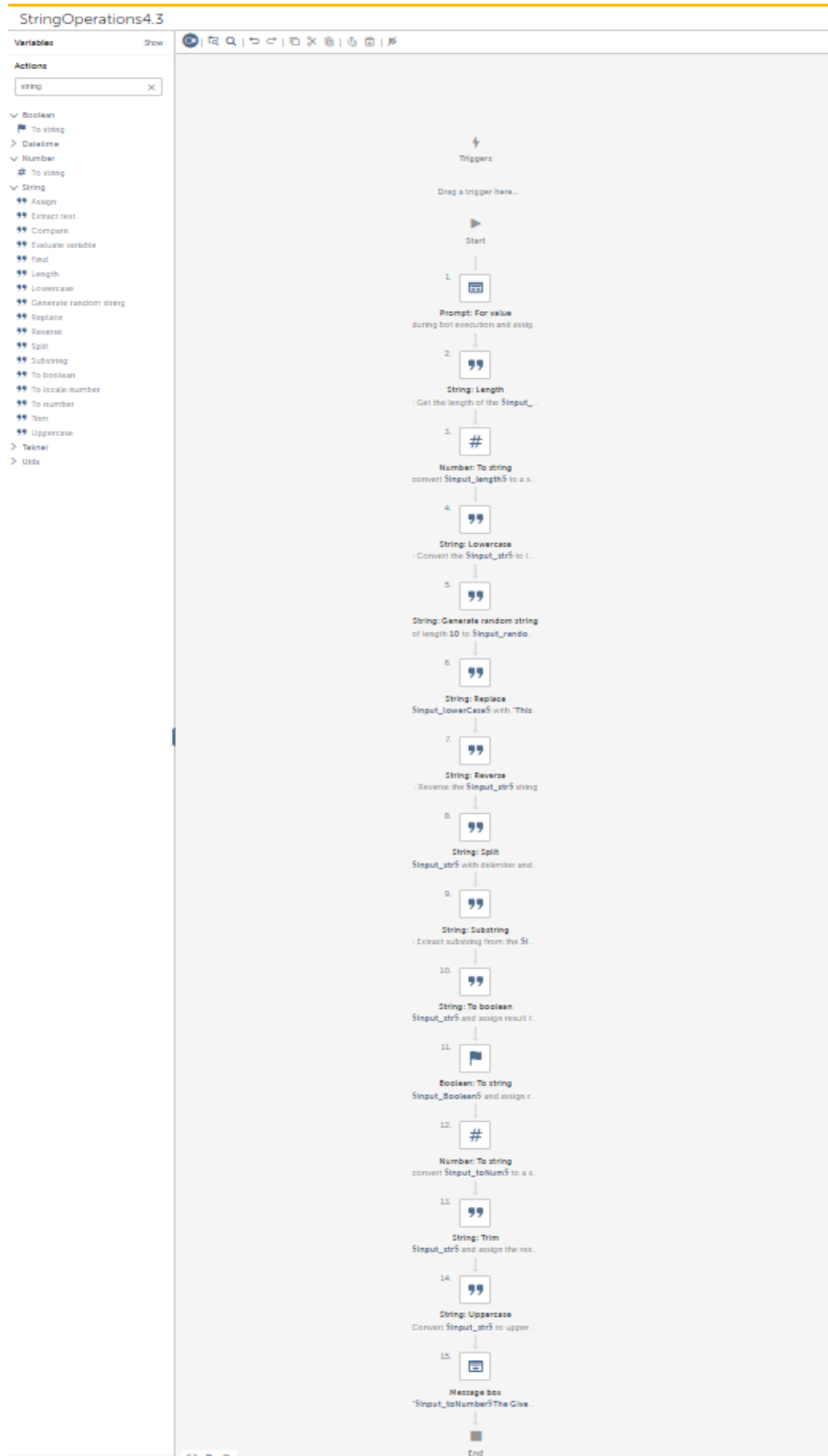
Problem Statement:

1. Take input from user.
2. Perform every string operation over that string.
3. Display the message regarding results of all the string operations.

Actions Used:

1. **Prompt: For Value** this action ask user to enter the string
2. **String:length** this action store the length of string in the variable chosen by user
3. **String:lowercase** this action makes string to lowercase characters and stores it into variable given by user.
4. **String:generate random string** this action generates random string based on the given string
5. **String:replace** this action replaces the source string to destination string
6. **String:reverse** this action reverses the string and stores it into variable
7. **String:substring** this action creates the substring out of given string
8. **String:split** this action create the many strings separated by given character or string
9. **String:boolean** this action generates boolean value from the string(true/false)
10. **Boolean:toString** this action creates string value from boolean
11. **Number:toString** this action generates string out of number(if present)
12. **String:trim** this action eliminates the white spaces from front and rear from string
13. **String:upperCase** this action transforms the given string into all uppercase character string.

The final FlowChart will look like



Step 1: Select Prompt: For Value and then ask for user to input the string on which string operations has to be performed and store input into variable(here Input_str).

The screenshot shows a software interface with a left sidebar and a main configuration panel. The sidebar has tabs for 'Flow', 'List', and 'Dual'. The 'Flow' tab is active, showing a flowchart with a 'Prompt: For value' step highlighted. The main panel is titled 'Prompt: For value' and contains the following configuration options:

- Prompts you to enter a value**
Required bot agent version: 20.11 or above
- Prompt window caption**
Text input: "Durgesh Lab 4.3" (with a clear button (x))
- Prompt message**
Text input: "Enter The String" (with a clear button (x))
- ☐ Mask keystroke
- Assign the value to a variable**
Dropdown menu: "Input_str" (with a clear button (x) and a plus sign (+))

Step 2: Select String: Length and give it the string to which length has to be calculated and store that value into some variable (here input_length).

The screenshot shows a flow builder interface with three tabs: 'Flow', 'List', and 'Dual'. The 'Flow' tab is active, showing a sequence of three steps: 2. 'String: Length', 3. 'Number: To string', and 4. 'String: Lowercase'. The 'String: Length' step is selected, and its configuration panel is open on the right. The panel has a title 'String: Length' and a description 'Retrieves the string length. Required bot agent version: 20.11 or above'. It contains two input fields: 'Source string' with the value '\$Input_str\$' and 'Assign the output to variable' with the value 'input_length'.

Flow List Dual

2. String: Length
Retrieves the string length.
Required bot agent version: 20.11 or above
Source string
" \$Input_str\$ (x)

3. Number: To string
Converts a user-specified number to a string
Required bot agent version: 20.18 or above
Enter a number
\$input_length\$ (x)

4. String: Lowercase
Convert the \$Input_str\$ to lowercase

Step 3: Select String: to Number action and give it the string as input and store the output into some variable (here input_len).

The screenshot shows the same flow builder interface as the previous one, but now the 'Number: To string' step is selected. The configuration panel on the right shows the title 'Number: To string', description 'Converts a user-specified number to a string. Required bot agent version: 20.18 or above', and three input fields: 'Enter a number' with the value '\$input_length\$', 'Specify number to convert to string e.g. 35' with the value '0', and 'Enter number of digits after decimal (number format)' with the value '0'. The 'Assign the output to variable' field is set to 'input_len'.

Flow List Dual

String: Length
Get the length of the \$Input_str\$

3. Number: To string
Converts a user-specified number to a string
Required bot agent version: 20.18 or above
Enter a number
\$input_length\$ (x)

Specify number to convert to string e.g. 35
Enter number of digits after decimal (number format)
0 (x)

e.g for number 35.265, enter the number of digits after decimal as 3

4. String: Lowercase
Convert the \$Input_str\$ to lowercase

Step 4: Select String: toLowercase action and then assign the string variable which has to be lowercased

The screenshot shows a workflow editor with a 'Flow' tab selected. The workflow consists of three steps: 'Number: To string', 'String: Lowercase', and 'String: Generate random string'. The 'String: Lowercase' step is highlighted with a blue border. The right-hand panel shows the configuration for this step. It includes a description: 'Converts the source string to lowercase. Required bot agent version: 20.11 or above'. The 'Source string' field is set to '\$Input_str\$'. The 'Assign the output to variable' field is set to 'input_lowerCase'.

String: Lowercase

Converts the source string to lowercase.
Required bot agent version: 20.11 or above

Source string
" \$Input_str\$ (x)

Assign the output to variable
" input_lowerCase (x)

Step 5: Select String:Generate random string action and give desired length of output random string and store the output into some variable(here input_randomString)

The screenshot shows the same workflow editor with the 'String: Generate random string' step highlighted. The right-hand panel shows the configuration for this step. It includes a description: 'Generates a string of uppercase and lowercase alphanumeric characters and assigns it to a string variable. Required bot agent version: 20.11 or above'. The 'String length' field is set to '10'. The 'Enter the destination variable to assign the random string' field is set to 'input_randomString'.

String: Generate random string

Generates a string of uppercase and lowercase alphanumeric characters and assigns it to a string variable.
Required bot agent version: 20.11 or above

String length
10 (x)

Enter the destination variable to assign the random string
" input_randomString (x)

Step 6: Select String: Replace action and give source string finding string and store the output into some variable(here input_replaced)

AssistantRunDebugCloseSave

FlowListDual

String: Generate random string of length 10 to \$input_random

6. String: Replace
\$input_lowercase\$ with "This is Replaced String" in \$input_str\$ and assign the result to \$input_replaced\$

8. String: Reverse
: Reverse the \$input_str\$ string

9. String: Split
\$input_str\$ with delimiter and

10. String: Substring
: Extract substring from the \$

String: Replace

Finds a piece of text from the source string and replaces it with another text.
Required bot agent version: 20.11 or above

Source string
" \$input_str\$ (x)

Find string
" \$input_lowercase\$ (x)

When finding
☐ Match case
☒ Do not match case

The "find string" is
☐ A regular expression
☒ Not a regular expression

Start from (optional)
1 (x)

Count (optional)
-1 (x)

Replace with (optional)
" This is Replaced String (x)

Assign the output to variable
" input_replaced (x)

Step 7: Select String:Reverse action and give input string and store the return value in some variable (here input_reversed)

AssistantRunDebugCloseSave

FlowListDual

7.

String: Reverse

Reverse the \$Input_str\$ string

8.

String: Split

Input_str\$ with delimiter and

9.

String: Substring

String: Reverse

Reverses the source string.
Required bot agent version: 20.11 or above

Source string

\$Input_str\$(x)

Assign the output to variable

input_reversed(x)₄

Step 8: Select String: Split action and give space as delimiter such that it will split string by delimiter and store result into some output variable

Assistant

Run

Debug

Close

Save

Flow

List

Dual

String: Reverse

Reverse the \$Input_str\$ string

8.

String: Split

Split \$Input_str\$ with delimiter and store result into list variable

9.

String: Substring

Extract substring from the \$Input_str\$

10.

String: To boolean

Convert \$Input_str\$ to boolean and assign result to \$Input_str\$

11.

String: Split

Splits the specified string into multiple strings and stores the output in a list variable.

Required bot agent version: 20.11 or above

Source string (optional)

"" \$Input_str\$

Delimiter

""

Delimiter is

☐ Case sensitive

☒ Not case sensitive

Split into substrings

☒ All possible

☐ Only

#

Assign the output to list variable

"" input_split

(x)

Step 9: Select String: Substring action and give it input string and store output in variable.

Assistant | Run | Debug | Close | Save

Flow List Dual

9. String: Split
put_str\$ with delimiter and

10. String: Substring
Extract substring from the \$

11. String: To boolean
put_str\$ and assign result to a \$input_Boolean\$

Boolean: To string
put_Boolean\$ and assign

String: Substring

Extracts a substring from a string.
Required bot agent version: 20.11 or above

Source string (optional)
" \$Input_str\$ (x)

Start from
1 (x)

Length (optional)
(x)


☐ Return blank if the range is not found

Assign the output to variable
" input_subString (x)


Step 10: Select String: toBoolean action it will give boolean expression of string

AssistantRunDebugCloseSave


FlowListDual

9. 


String: Substring
Extract substring from the \$I...

10. 

String: To boolean
Input_str\$ and assign result t...

11. 


Boolean: To string

String: To boolean

Converts a string to a Boolean.


Required bot agent version: 20.11 or above

Select string variable

 Input_str

(x)₊

Select the boolean variable to store the result


 input_Boolean

(x)₊


Step 11: Select String: toString action it will give string outcome equivalent to boolean value.

FlowListDual


String: To boolean
out_str\$ and assign result t...


11. 

Boolean: To string
ut_Boolean\$ and assign r...

12. 

Number: To string
vert \$input_toNum\$ to a s...


13. 

Boolean: To string

Converts a Boolean value to a string value

Required bot agent version: 20.11 or above


Select boolean variable

 input_Boolean

▼

(x)₊

Select the string variable to store the result

 input_bool

▼

(x)₊

Step 12: Select String:trim action it will trim the whitespaces from both sides of string

AssistantRunDebugCloseSave

FlowListDual

12. #
Number: To string
Convert \$input_toNum\$ to a s...

13. "String: Trim
Convert \$input_str\$ and assign the res...

14. "String: Uppercase
Convert \$input_str\$ to upper ...

15.

String: Trim

Trims blanks, whitespaces, tabs, and line breaks from a string.
Required bot agent version: 20.11 or above

Source string
" \$input_str\$ (x)

☒ Trim from the beginning
☒ Trim from the end

Assign the output to variable
" input_trim (x)

Step 13: Select String: toUpperCase action and give input string to be uppercased and store return value into variable (input_Uppercase)

AssistantRunDebugCloseSave

FlowListDual

13. String: Trim
Trim \$Input_str\$ and assign the res...

14. String: Uppercase
Convert \$Input_str\$ to upper ...

15. Message box
Display \$input_toNumber\$The Give...

String: Uppercase

Converts the source string to uppercase.
Required bot agent version: 20.11 or above

Source string
\$Input_str\$

Assign the output to variable
input_Uppercase

Step 14: Select message box action and enter the message you want display along with all the variable in which we ha stored the values of strings.

Assistant | Run | Debug | Close | Save

Flow List Dual

13. String: Trim
ut_str\$ and assign the res...

14. String: Uppercase
vert \$Input_str\$ to upper ...

15. Message box
out_toNumber\$The Give...

End

Message box

inserts a message box to show a message when the task runs
Required bot agent version: 20.11 or above

Enter the message box window title

Automation Anywhere Enterprise Client

Enter the message to display

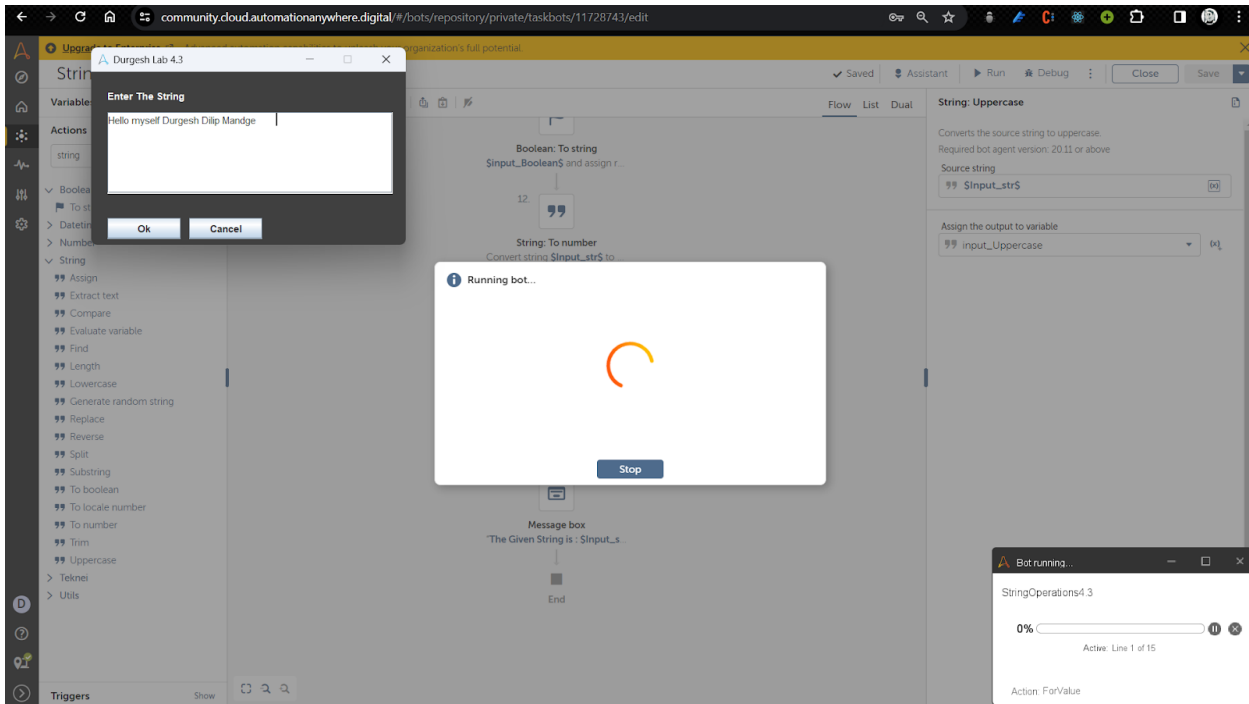
\$input_toNumber\$The Given String is : \$input_
Length of String : \$input_len\$
Lowercase format of String : \$input_lowerCase\$
Randomly generated string is : \$input_random\$
Replaced String : \$input_replaced\$
Reversed String is : \$input_reversed\$
Splitted String is : \$input_split[0]\$
Substring of String is : \$input_subString\$
Boolean Value of strin is : \$input_bool\$
String after trim is : \$input_trim\$
String to Uppercase : \$input_Uppercase\$

Scrollbar after lines

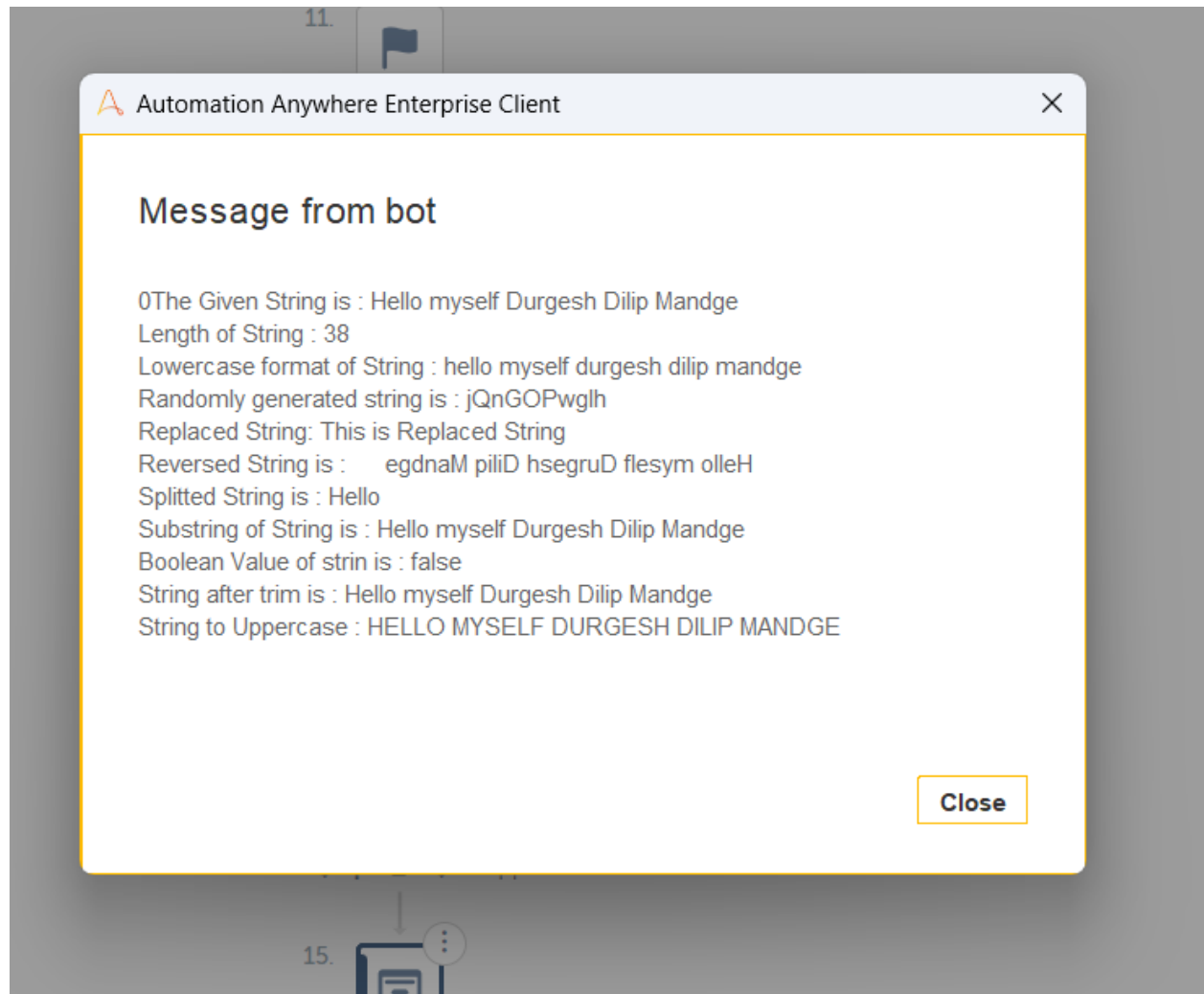
30

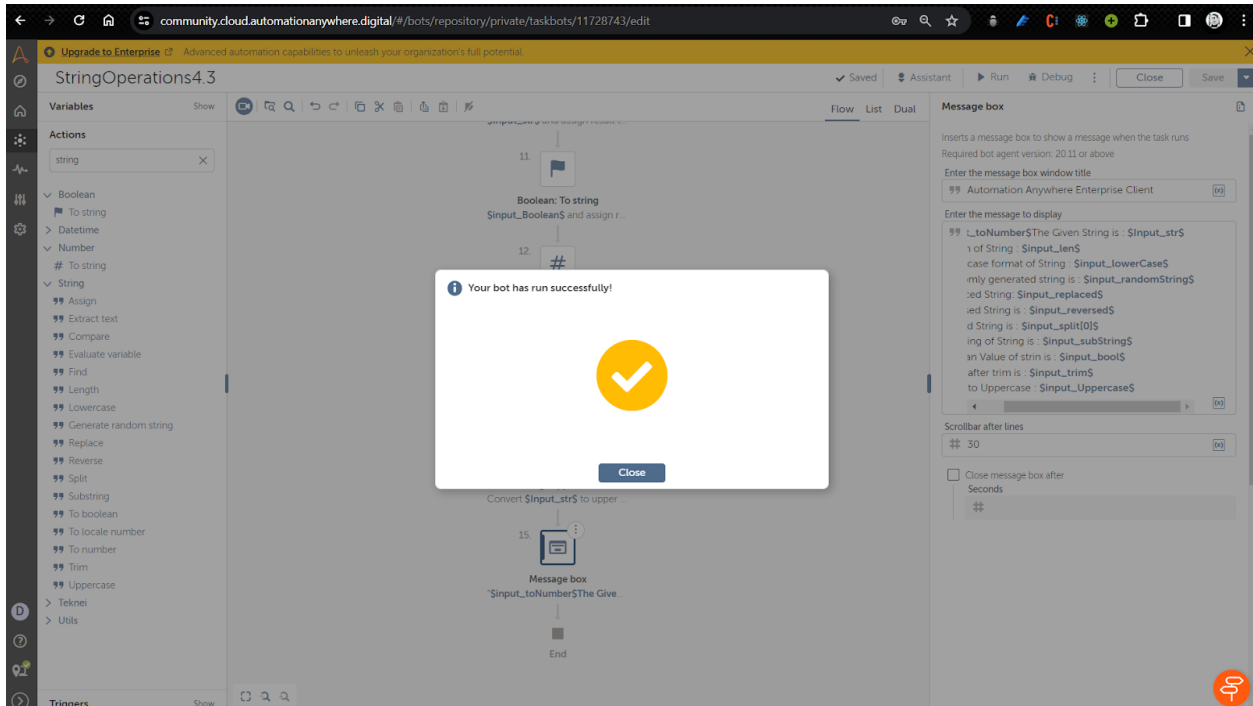
☐ Close message box after

Run the bot and enter the string:



Output:





Lab 4.3 Completed

