

RPA Specialization

Course 4: Control Flow in RPA

# Practice Exercise-Try Catch Activity

# Try Catch

Build a workflow using a Try Catch activity to do the following:

- Take Name, Gender, and Age as the user input
- Subtract the current year with the Age value to get the Year of Birth
- Handle an error that occurs due to a reckless user input of an incorrect age containing the 11-digit number
- Continue the process to display the Name, Gender, and Year of Birth of the user in a message box

## Process Overview

- START
- Use three Input Dialog activities within the Try Catch activity to ask for the Name, Gender, and Age of the user
- Use an Assign activity to subtract the age from the current year to get the year of birth of the user
- Use Exception Type: **System.Exception** in the Catches section of the Try Catch activity to handle reckless input from the user. Store error in a string variable
- Use a Message Box activity to display the Name, Gender, and Year of Birth of the user along with the Error, if any
- STOP

## Step-by-Step Process

Step 1: Open Studio.

Step 2: Create a new process and name it as “Try Catch activity”

Step 3: Drag a Sequence activity from the Activities panel and drop it in the Designer panel.

Step 4: Name the Sequence activity as “Sequence – 'A workflow using Try Catch activity to catch certain errors'”.

Step 5: Right-click on the Sequence activity container and select *Annotations* from the context menu.

Step 6: Enter the annotation shown below:

This block of code demonstrates a workflow using the Try Catch activity to do the following:

1. Take the Name, Gender, and Age as user input.

2. Subtract current year with Age value to get the Year of Birth.

3. Handle an error that occurs due to a reckless user input of incorrect age containing an 11-digit number.

4. Continue the process to display the Name, Gender, and Year of Birth of the user in a message box.

Step 7: Drag and drop a Try Catch activity and name it as “Try Catch - 'User Inputs'”. Add an annotation “Take input and catch error.” .

Step 8: In the Try Section, insert a Sequence activity and name it as “Sequence - ‘User Inputs’”. Add an annotation “Take inputs from user.”

Step 9: Insert an Input Dialog activity within the Sequence activity, name it as “Input Dialog - User Name”, add an annotation: “Name as User Input” and enter the values as shown below:

| Dialog Title | Input Label | Input Type |
|---|---|---|
| “Name” | “Enter your Name” | Text Box |

Step 10: Insert a second Input Dialog activity below the previous “Input Dialog - User Name” activity, and name it as “Input Dialog - User Gender”, add an annotation: “User Gender as User Input” and enter the values as shown below:

| Dialog Title | Input Label | Input Type |
|---|---|---|
| “Gender” | “Enter your Gender” | Text Box |

Step 11: Insert a third Input Dialog activity below the previous “Input Dialog - User Gender” activity, and name it as “Input Dialog - User Age”, add an annotation: “User Age as User input” and enter the values as shown below:

| Dialog Title | Input Label | Input Type |
|---|---|---|
| “Age” | “Enter your Age” | Text Box |

Step 12: In the Variables panel, define five new variables as shown below:

| Name | Variable type | Scope | Default |
|---|---|---|---|
| userName | String | Sequence - 'A workflow using Try Catch activity to catch certain errors' | |
| userGender | String | Sequence - 'A workflow using Try Catch activity to catch certain errors' | |
| intUserAge | Int32 | Sequence - 'A workflow using Try Catch activity to catch certain errors' | |
| intYearOfBirth | Int32 | Sequence - 'A workflow using Try Catch activity to catch certain errors' | |
| inputError | String | Sequence - 'A workflow using Try Catch activity to catch certain errors' | |

Step 13: In the Properties panel of "Input Dialog – User Name" activity, enter **userName** in the Output property.

Step 14: In the Properties panel of "Input Dialog – User Gender" activity, enter **userGender** in the Output property.

Step 15: In the Properties panel of "Input Dialog – User Age" activity, enter **intUserAge** in the Output property.

Step 16: Insert an Assign activity below the "Input Dialog – User Age" activity and name it as "Assign - Year of Birth." Add an annotation: "Present year - User's year of birth", and enter values as shown below:

| To | Value |
|---|---|
| intYearOfBirth | Date.Today.Year() - intUserAge |

Step 17: In the Catches section of the Try Catch Activity, select "System.Exception" from the dropdown.

Step 18: Insert an Assign activity in the Catches section and name it as "Assign – InputError". Add an annotation "Store error as a string in a variable." Enter values as shown below:

| To | Value |
|---|---|
| inputError | exception.Message |

Step 19: Insert a Message Box activity below the Try Catch activity and name it as “Message Box - User Details”. Add an annotation: “Print all the details” .

Step 20: In the text area of the Message Box activity, enter the expression: **"Name: " + userName + vbCr + "Gender: "+ userGender + vbCr + "Year of Birth: " + intYearOfBirth.ToString + vbCr + "Error: " + inputError**

Step 21: Save and Run the Project.