Date 31/01/2024 Expt. No. 3

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EXPERIMENT - 3

Aim:- Demonstration of control flow using workflows Activities in RPA.

Software Required:- Any RPA Tool (UiPath, Blue Prism, Automation Anywhere).

Relevance of the Experiment:- The experiment demonstrating control flow using workflow activity in Robotics Process Automation (RPA) holds immense relevance in the realm of automation development. This experiment serves as a pivotal learning experience for individuals seeking to harness the power of RPA tools efficiently. By showcasing how control flow is managed within an automation process, this experiment addresses critical aspects of RPA implementation.

Description /Steps:-

1. **Start the Workflow:-** Begin the workflow by initiating the execution.

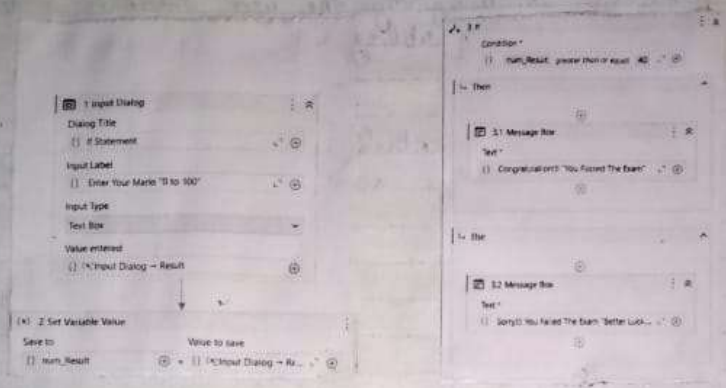
2. **Invoke Activity:-** Use the "Invoke Workflow" activity to call a separate workflow or a sequence, allowing modularization.

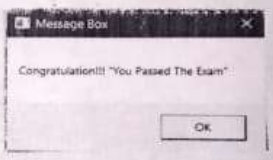
3. **Decision Activity (if-Else):-** Implement a decision activity, such as "if-Else", to create conditional branches based on specific conditions.

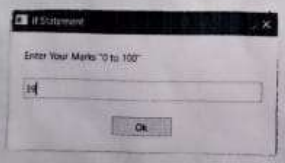
4. **Assign Activity:-** Utilize the "Assign" activity to assign values to variables or manipulate data.

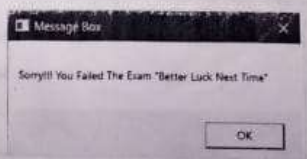
Teacher's Signature:

Aim:- Demonstration of control flow using workflow Activities in RPA.









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5. Invoke Method Activity:- Employ the "Invoke Method" activity to execute specific methods or functions within the workflow.

6. Switch Activity :- Integrate a "Switch" activity to provide multiple execution paths based on different values of a variable.

7. Flow Decision Activity:- Use the "Flow Decision" activity to make decisions within a sequence of activities.

8. Retry Scope Activity :- Implement a "Retry Scope" activity to retry a sequence of activities until a specific condition is met.

9. Invoke Powershell Activity:- Use the "Invoke PowerShell" to execute Powershell scripts within the workflow.

10. Terminate Workflow Activity :- Introduce the "Terminate Workflow" activity to stop the execution of the workflow based on certain conditions.

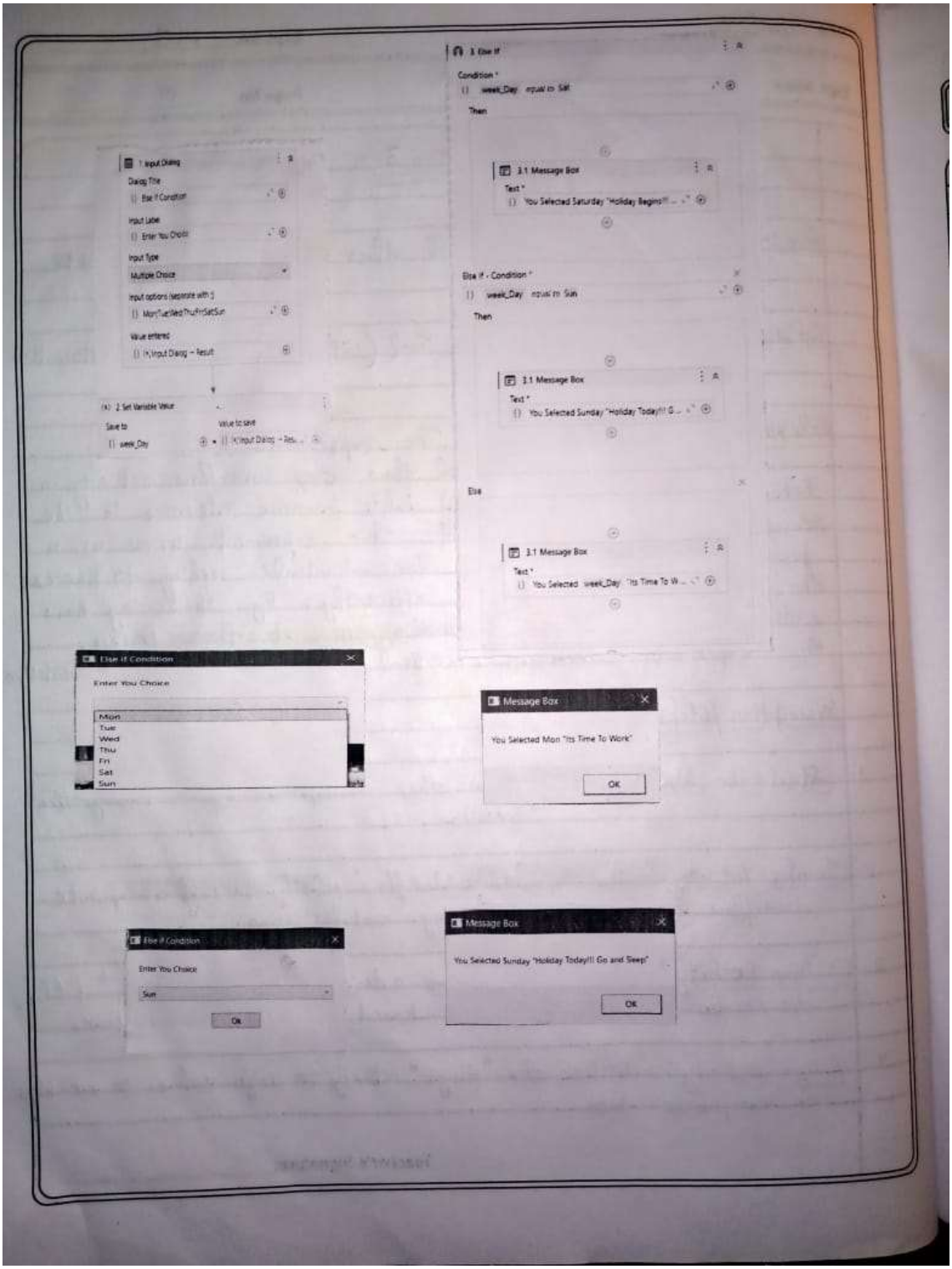
11. Invoke Code Activity:- Employ the "Invoke Code" activity to execute multiple custom code snippets written in languages like VB.Net or C#.

12. Parallel Activity :- Utilize the "Parallel" activity to execute multiple sequences of workflows concurrently.

13. Flow Switch Activity :- Implement the "Flow Switch" activity for a more advanced branching mechanism based on various cases.

14. End the Workflow :- Conclude the workflow execution.

Teacher's Signature: _____


1 Input Dialog
Dialog Title
Else If Condition
Input Label
Enter You Choice
Input Type
Multiple Choice
Input options (separate with ;)
Mon;Tue;Wed;Thu;Fri;Sat;Sun
Value entered
1\Input Dialog > Result
2 Set Variable Value
Save to
week_Day
Value to save
1\Input Dialog > Res...
3 Else If
Condition *
week_Day equal to Sat
Then
3.1 Message Box
Text *
You Selected Saturday "Holiday Begins!!! ...
Else if - Condition *
week_Day equal to Sun
Then
3.1 Message Box
Text *
You Selected Sunday "Holiday Today!!! G...
Else
3.1 Message Box
Text *
You Selected week_Day "Its Time To W...
Else If Condition
Enter You Choice
Mon
Tue
Wed
Thu
Fri
Sat
Sun
Message Box
You Selected Mon "Its Time To Work"
OK
Else If Condition
Enter You Choice
Sun
Ok
Message Box
You Selected Sunday "Holiday Today!!! Go and Sleep"
OK

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1. **If Statement** :- The if statement is a fundamental control flow structure. It evaluates a condition &, if the condition is true, executes a specific block of code. If the condition is false, the associated block is skipped.

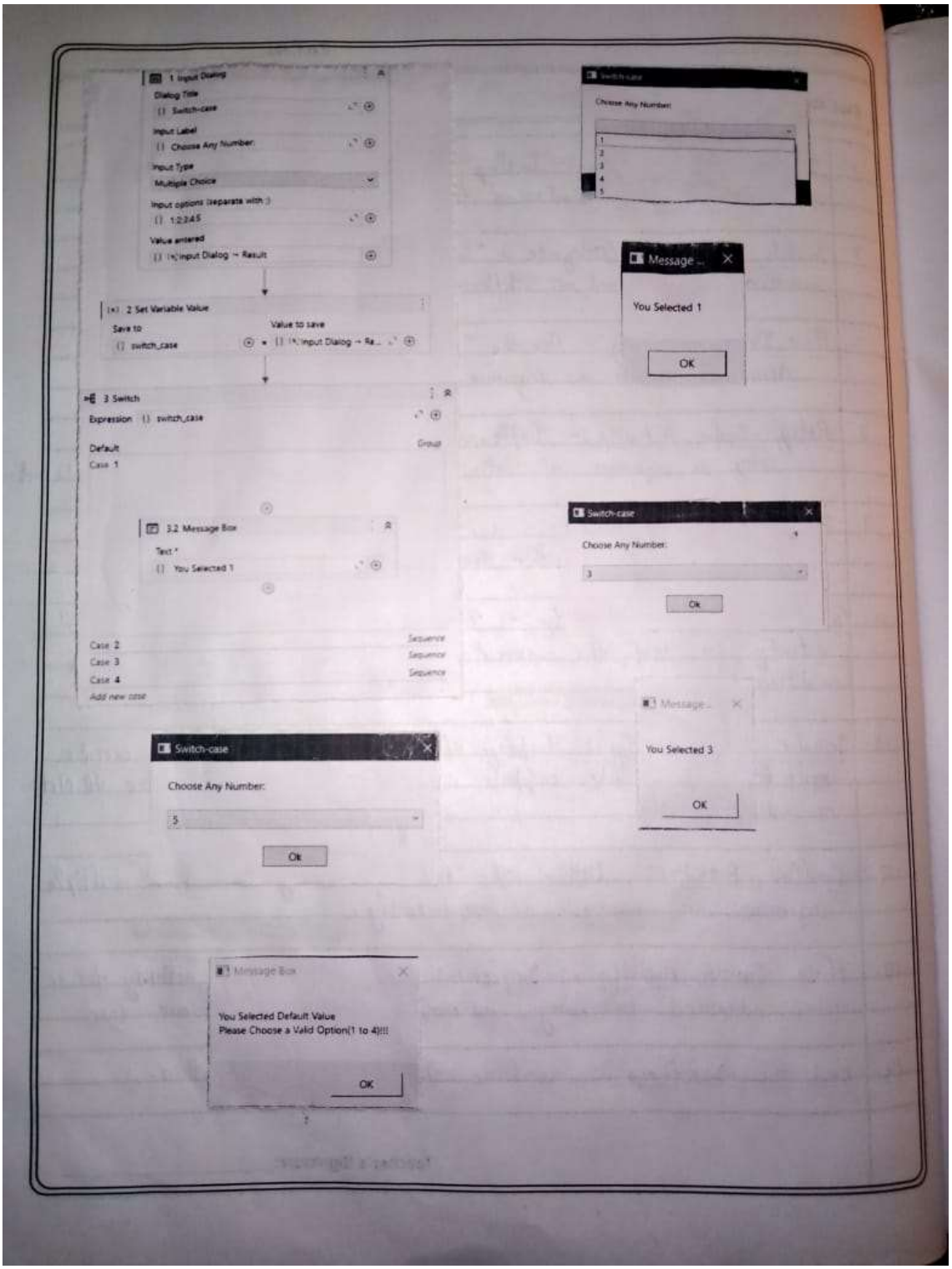
2. **else if Statement** :- It is used to evaluate additional conditions if the initial if condition is false. It allows for multiple conditions to be checked sequentially.

3. **Switch Statement** :- This is used when there are multiple possible values for a variable, and different blocks of code need to be executed based on the variable's value. It provides a cleaner alternative to long sequences of if and else if statements.

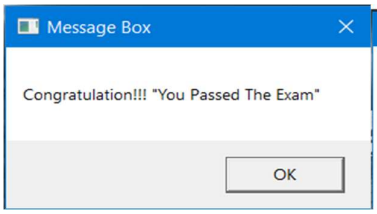
Learning Outcomes :-

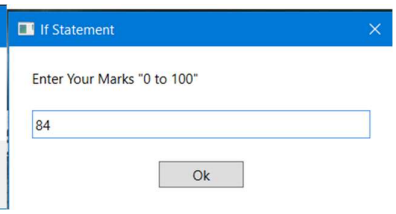
1. Understand the importance of organizing tasks in a logical sequence within an RPA work-flows.
2. Demonstrate the ability to structure an automation process to reflect a step-by-step execution flow.
3. Implement iterations within the workflow to demonstrate a practical understanding of looping mechanisms.

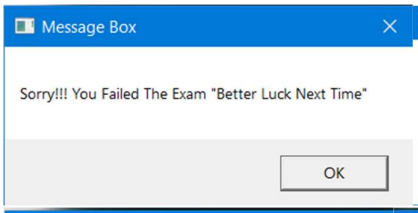
Teacher's Signature: _____

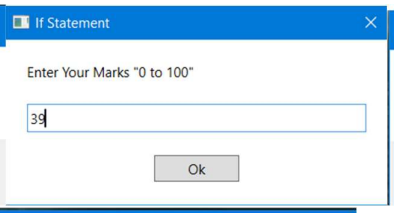

1 Input Dialog
Dialog Title
Switch-case
Input Label
Choose Any Number:
Input Type
Multiple Choice
Input options (separate with ;)
1;2;3;4;5
Value entered
Input Dialog → Result
2 Set Variable Value
Save to
switch_case
Value to save
Input Dialog → Ra...
3 Switch
Expression
switch_case
Default
Group
Case 1
3.2 Message Box
Text *
You Selected 1
Case 2
Case 3
Case 4
Sequence
Add new case
Switch-case
Choose Any Number:
5
Ok
Message Box
You Selected Default Value
Please Choose a Valid Option(1 to 4)!!!
OK
Switch-case
Choose Any Number:
1
2
3
4
5
Message ...
You Selected 1
OK
Switch-case
Choose Any Number:
3
Ok
Message ...
You Selected 3
OK

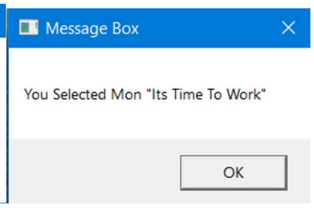
SCREENSHOTS:

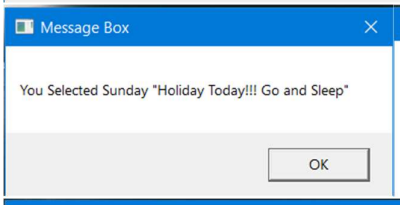


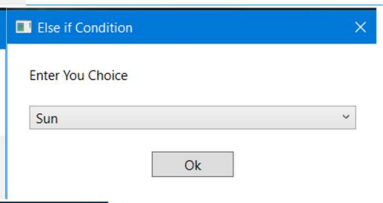


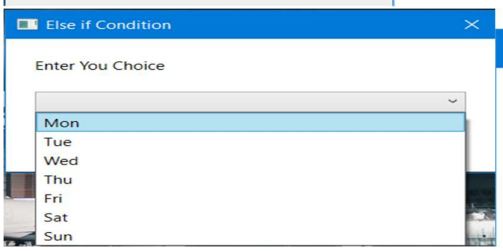


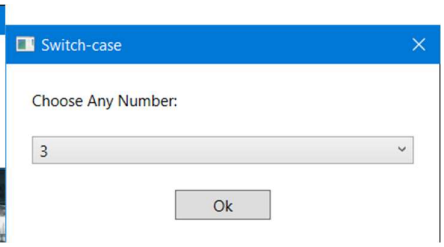


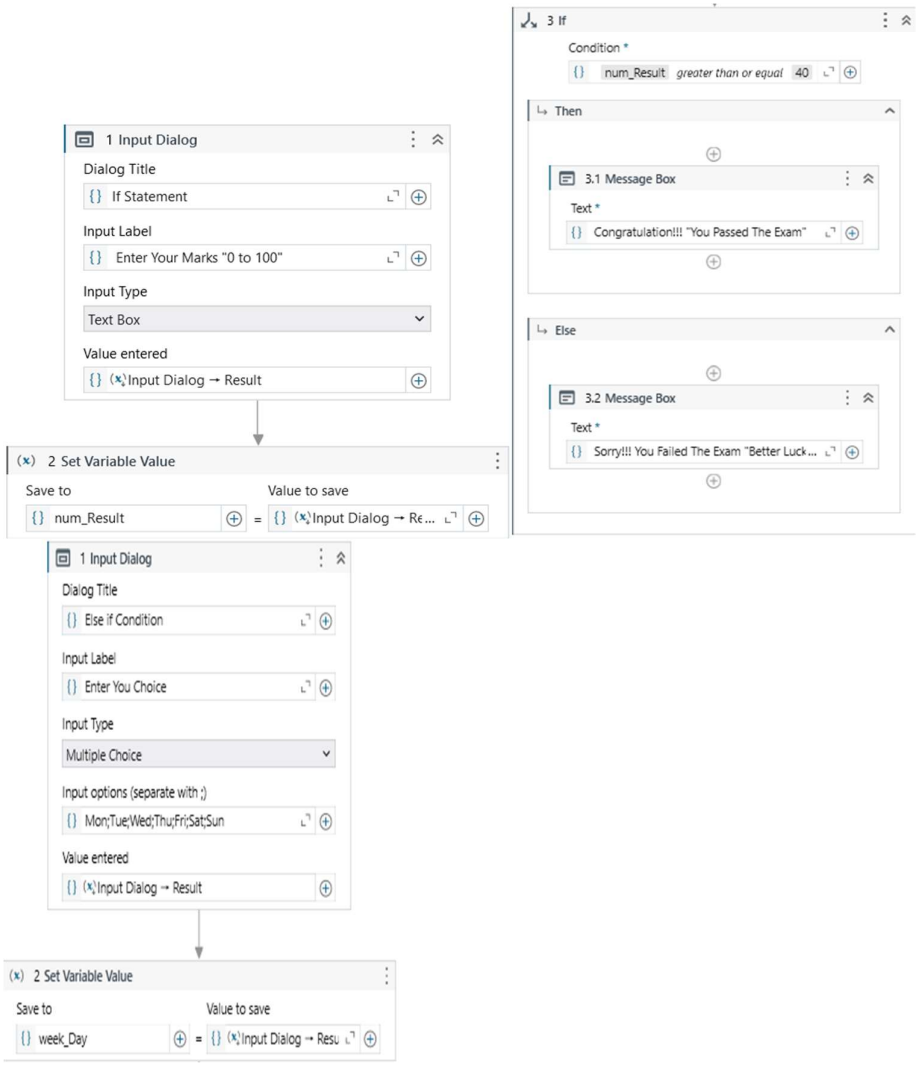








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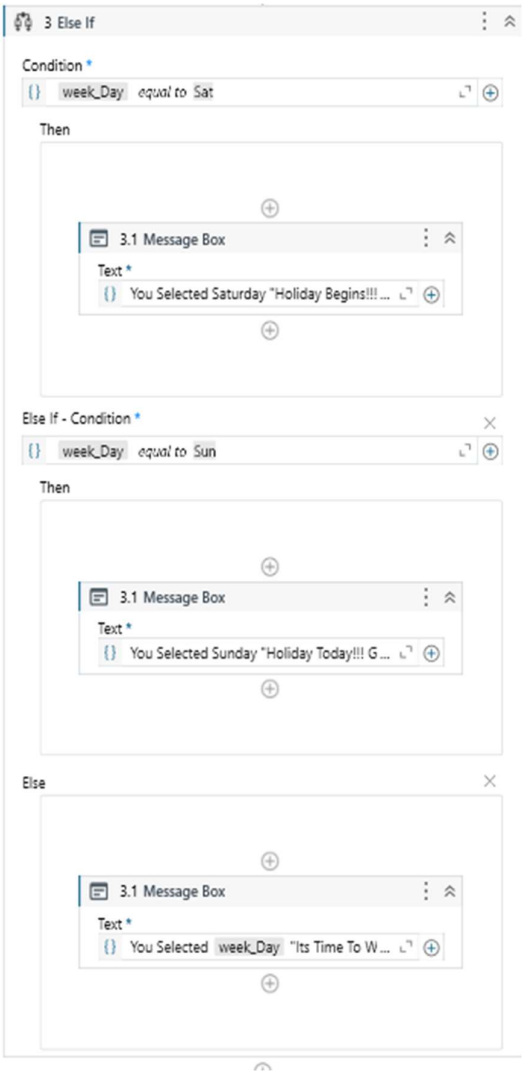
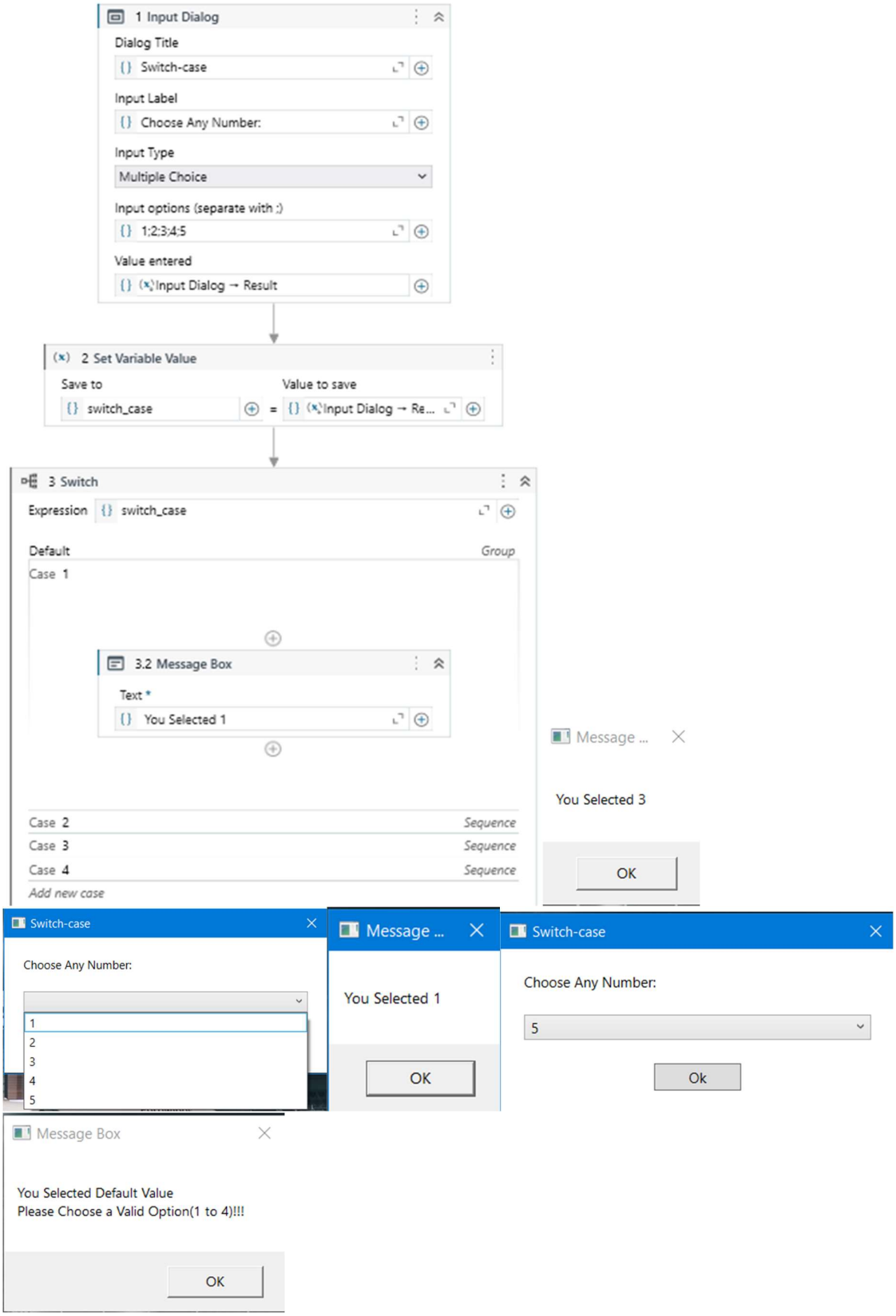
Dialog Title
If Statement
Input Label
Enter Your Marks "0 to 100"
Input Type
Text Box
Value entered
Input Dialog → Result
2 Set Variable Value
Save to
num_Result
Value to save
Input Dialog → Re...
3 If
Condition *
num_Result greater than or equal 40
Then
3.1 Message Box
Text *
Congratulation!!! "You Passed The Exam"
Else
3.2 Message Box
Text *
Sorry!!! You Failed The Exam "Better Luck...
1 Input Dialog
Dialog Title
Else if Condition
Input Label
Enter You Choice
Input Type
Multiple Choice
Input options (separate with ;)
Mon;Tue;Wed;Thu;Fri;Sat;Sun
Value entered
Input Dialog → Result
2 Set Variable Value
Save to
week_Day
Value to save
Input Dialog → Resu


3 Else If
Condition *
week_Day equal to Sat
Then
3.1 Message Box
Text *
You Selected Saturday "Holiday Begins!!! ...
Else If - Condition *
week_Day equal to Sun
Then
3.1 Message Box
Text *
You Selected Sunday "Holiday Today!!! G ...
Else
3.1 Message Box
Text *
You Selected week_Day "Its Time To W ...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Value to save
Input Dialog → Re...
3 Switch
Expression
switch_case
Default
Group
Case 1
3.2 Message Box
Text *
You Selected 1
Case 2
Sequence
Case 3
Sequence
Case 4
Sequence
Add new case
Message ...
You Selected 3
OK
Switch-case
Choose Any Number:
1
2
3
4
5
Message ...
You Selected 1
OK
Switch-case
Choose Any Number:
5
Ok
Message Box
You Selected Default Value
Please Choose a Valid Option(1 to 4)!!!
OK