Conveyor tracking addes " Abandoned objects " use variable to records

Joe 2017.11.23 v1.0

Translated by Joe 2018.1.19 V1.0

Summary

- **Purpose**

1. Abandoned objects

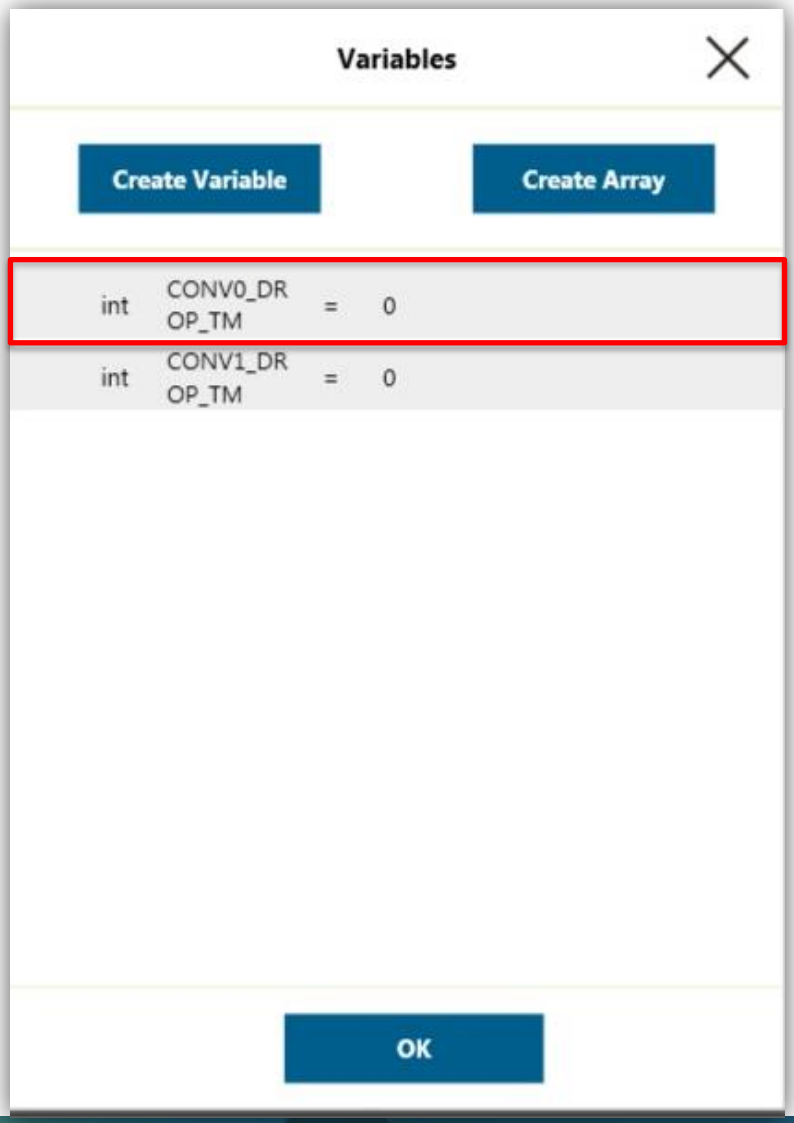
When the workpiece exceeds the action range of the robot and the robot will give up it.

New version of the HMI is added the variables of abandoned objects.

- **Equipment**

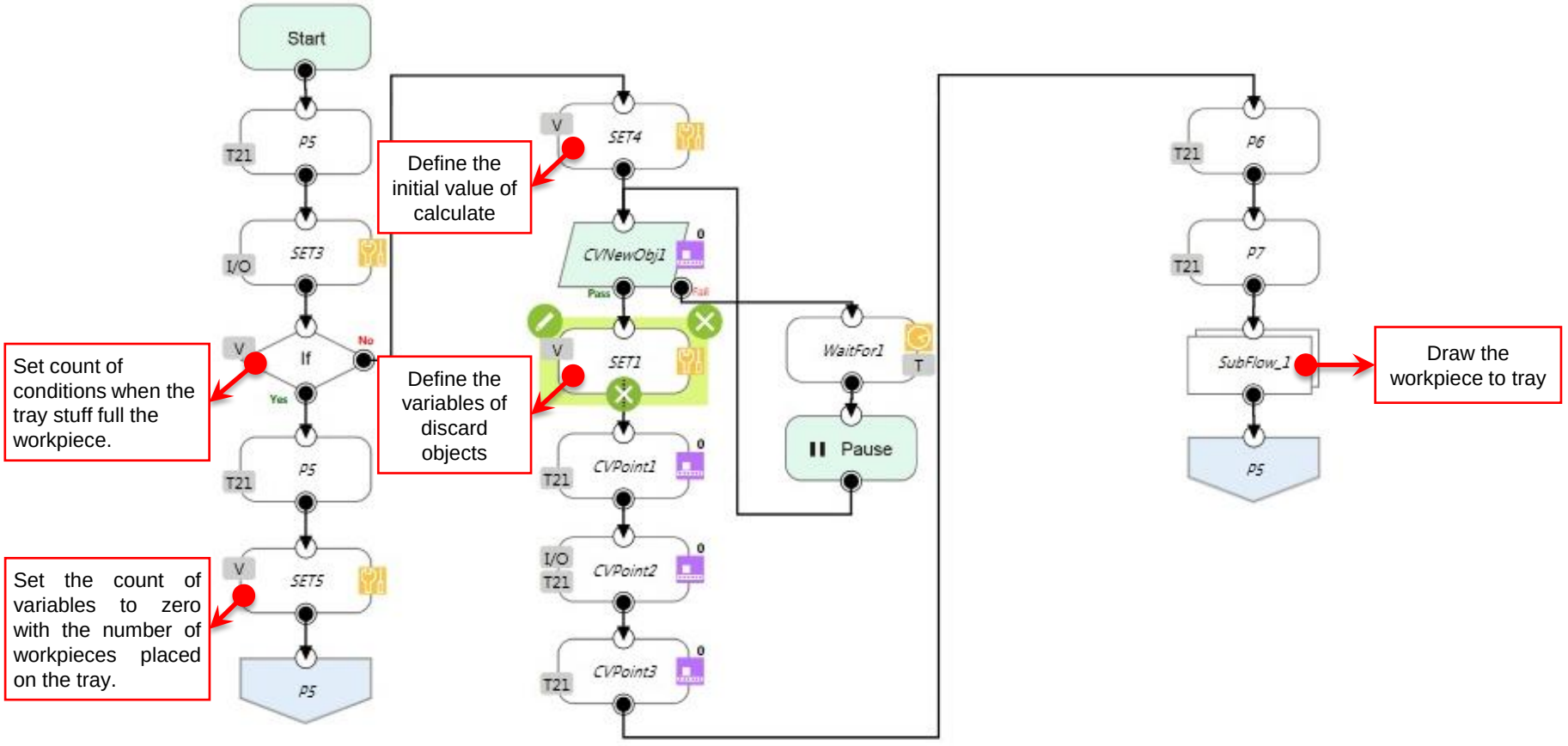
1. TM5
2. Conveyor System

- **Flow Example**
- **Application Explain**



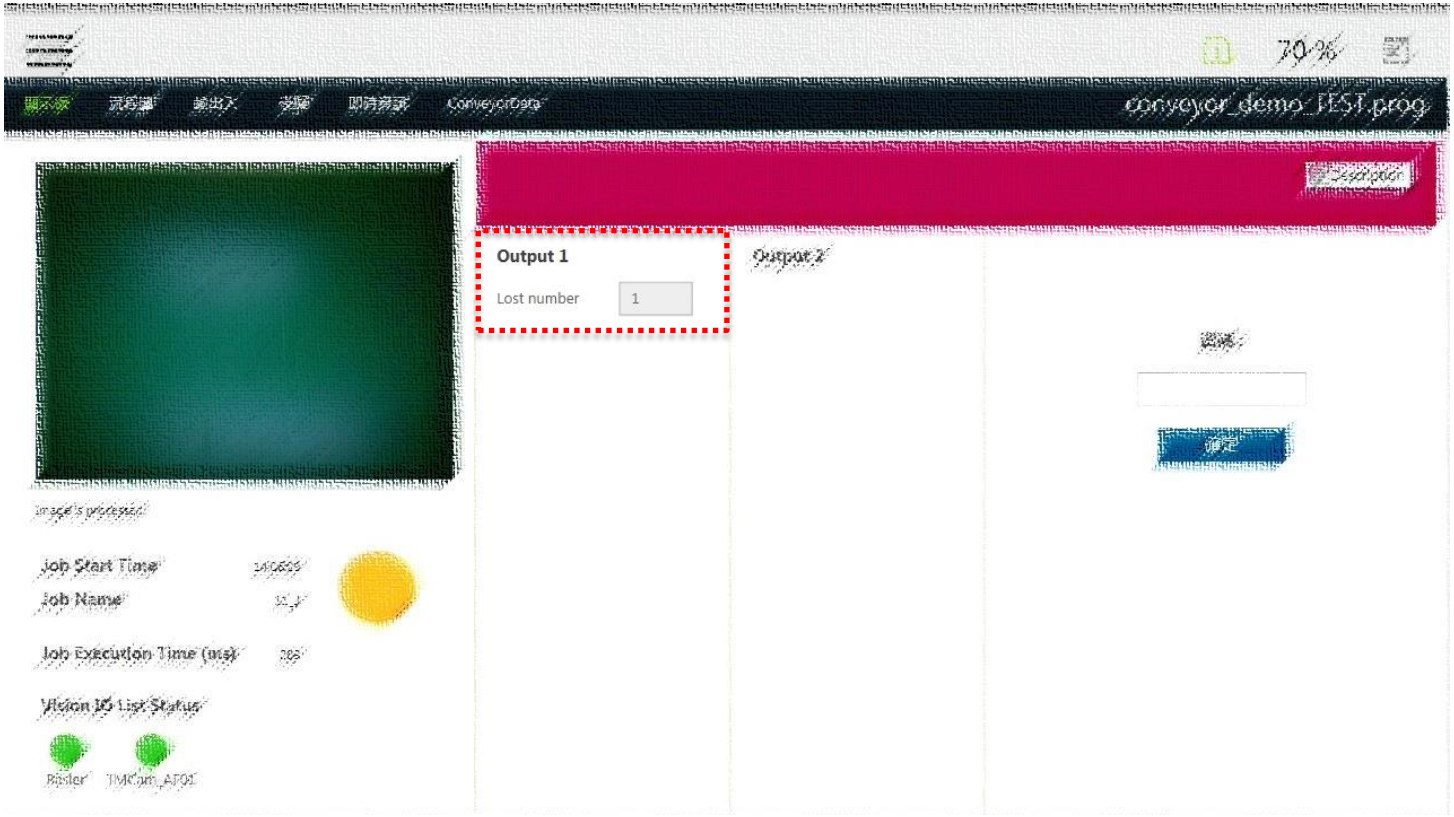
Flow Example

1. The main purpose of flow is draw the workpiece to tray on the flow of conveyor.
2. Use the variables of "Abandoned objects" to calculate the number of abandoned workpiece, and display in the execution screen.

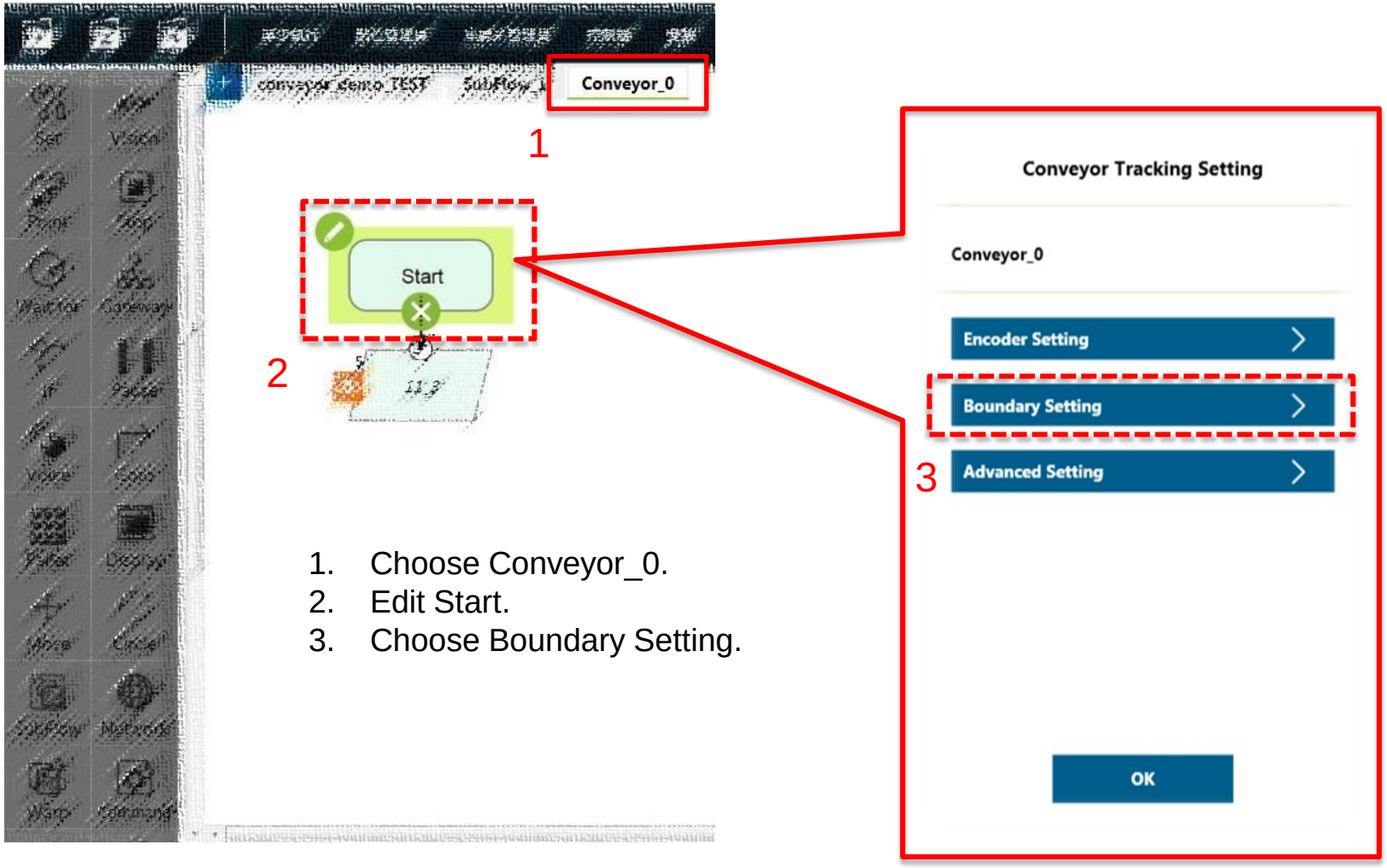


Application Explain

1. When doing conveyor pick and place program, workpiece which is overstep the limit of robot working range will be abandon.
2. These abandon workpieces will be calculated by variable function and show the value on screen.

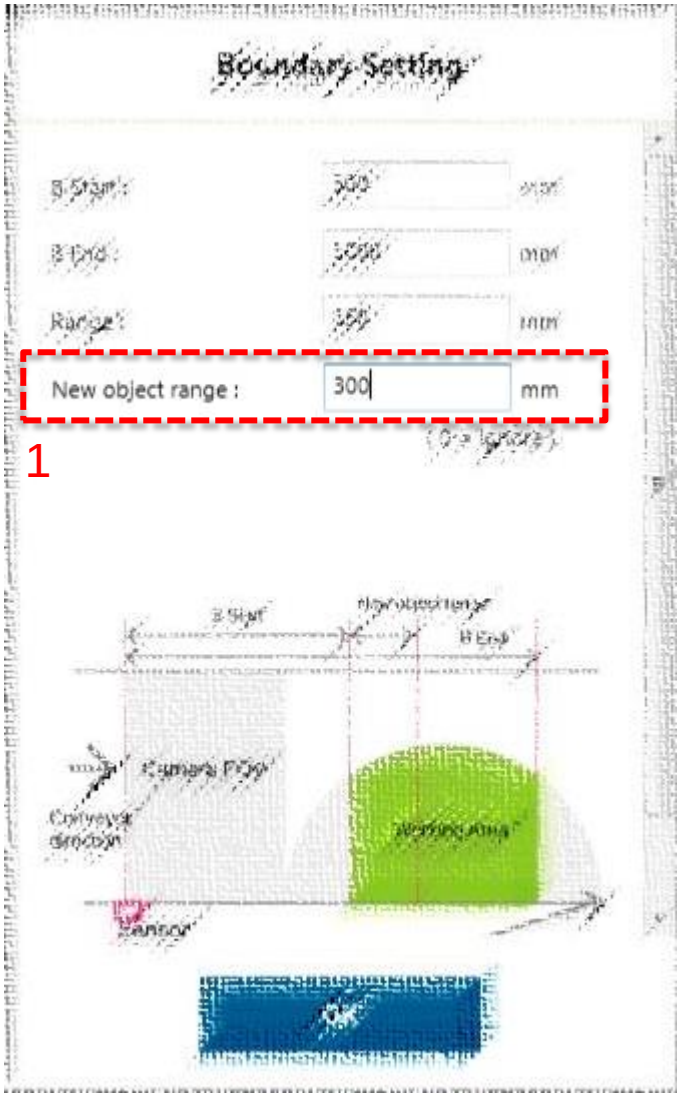


Application Explain



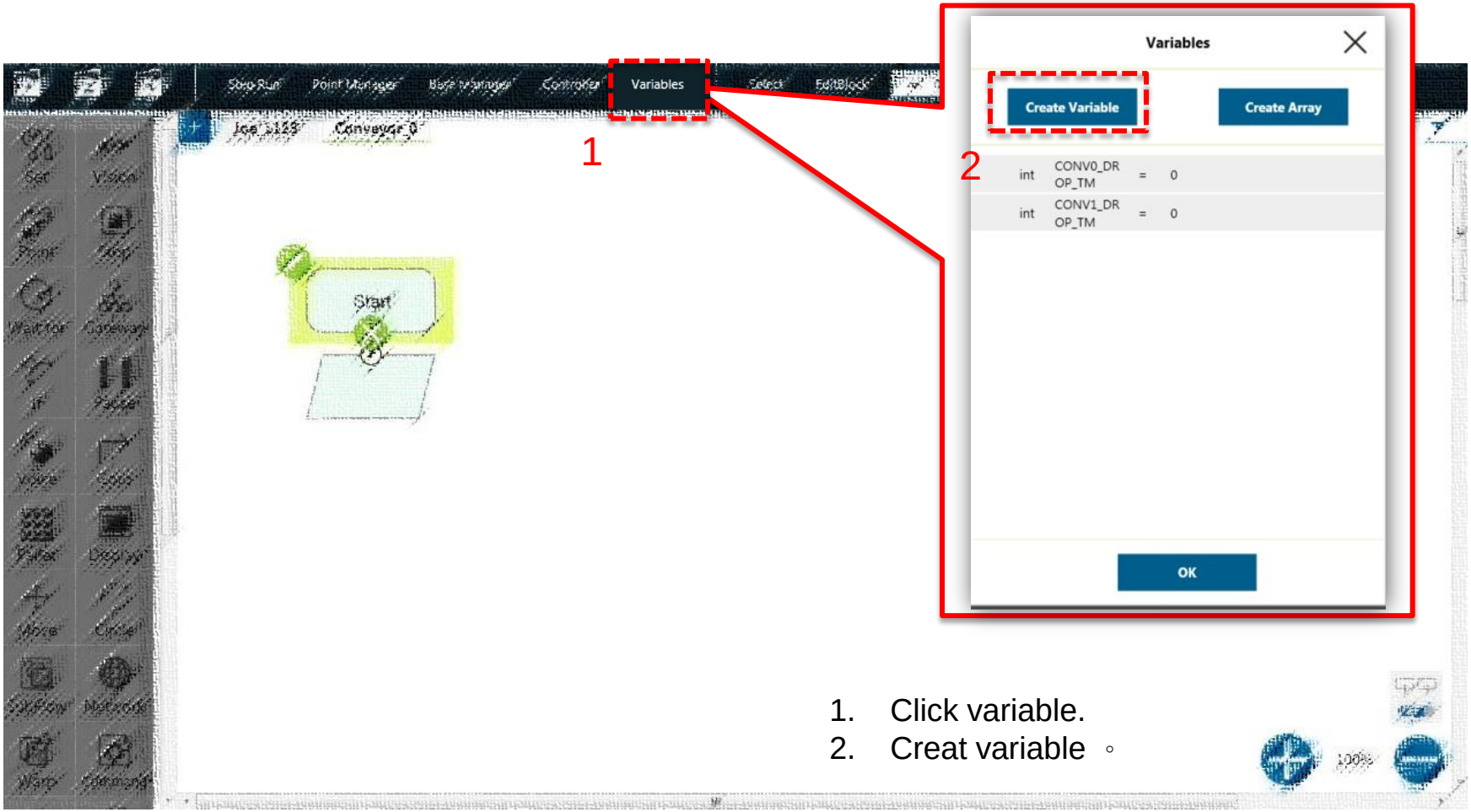
1. Choose Conveyor_0.
2. Edit Start.
3. Choose Boundary Setting.

Application Explain



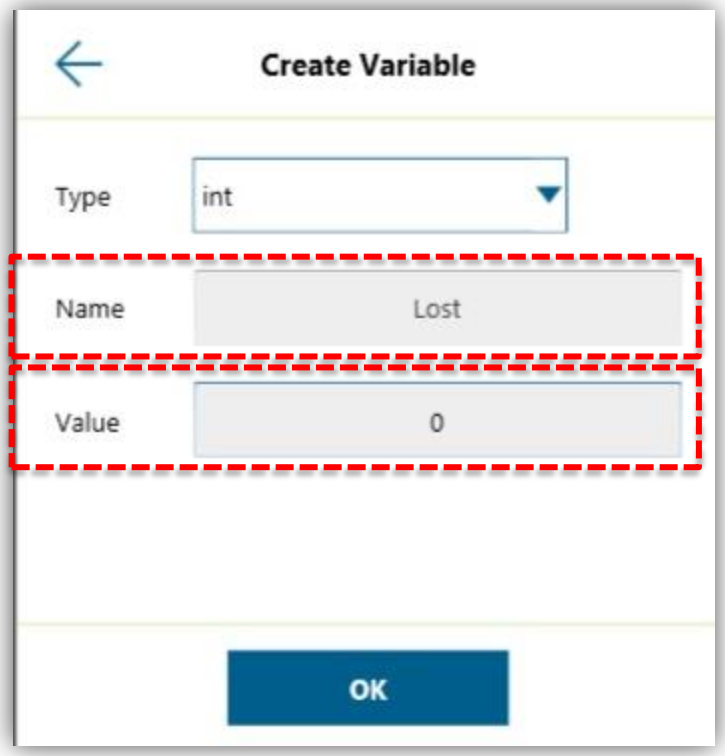
1. Set the new object range。

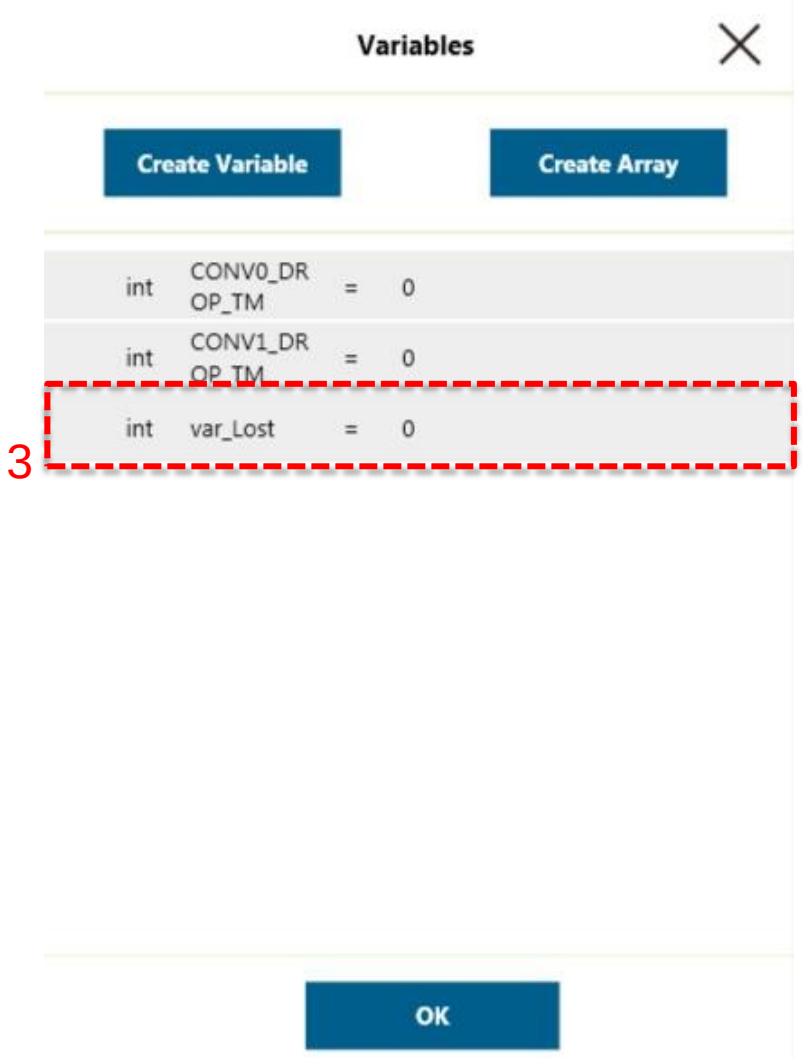
Application Explain



1. Click variable.
2. Creat variable。

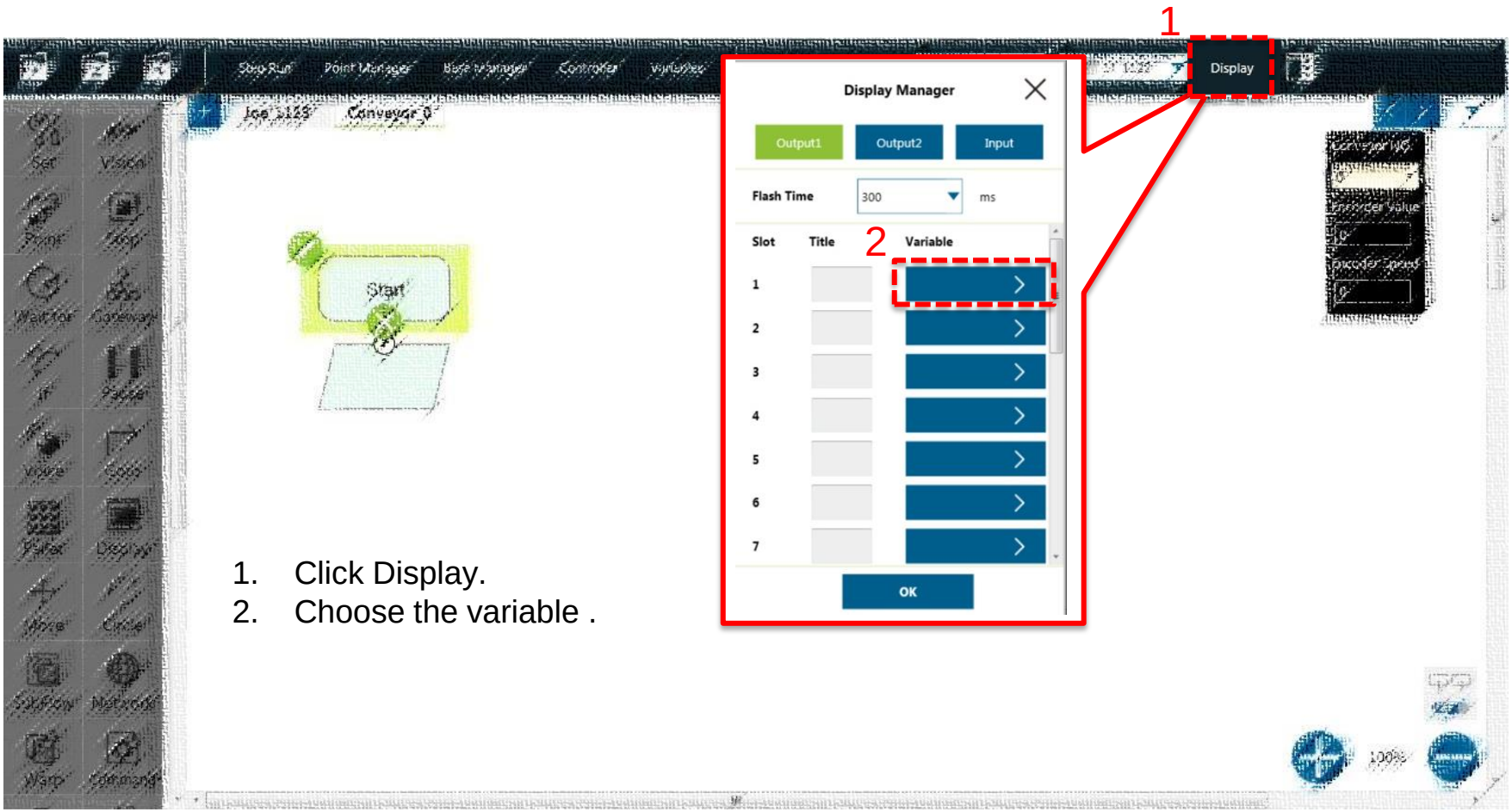
Application Explain





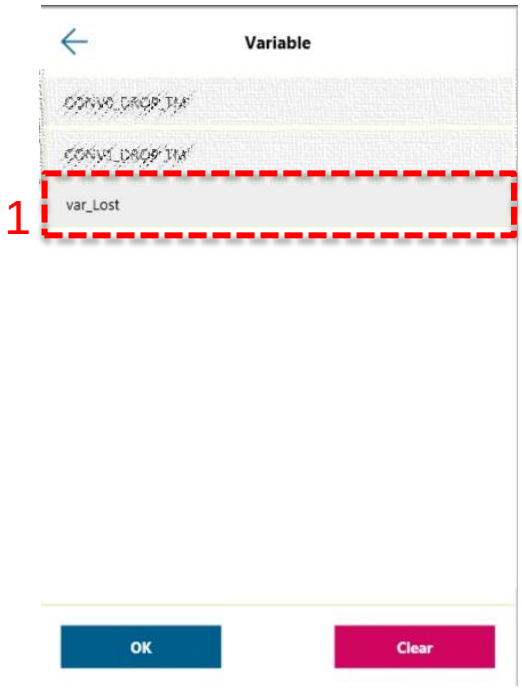
1. Key in the variable name.
2. Set the discard objects to 0 → Click OK.
3. The variables just created are shown in the variable options.

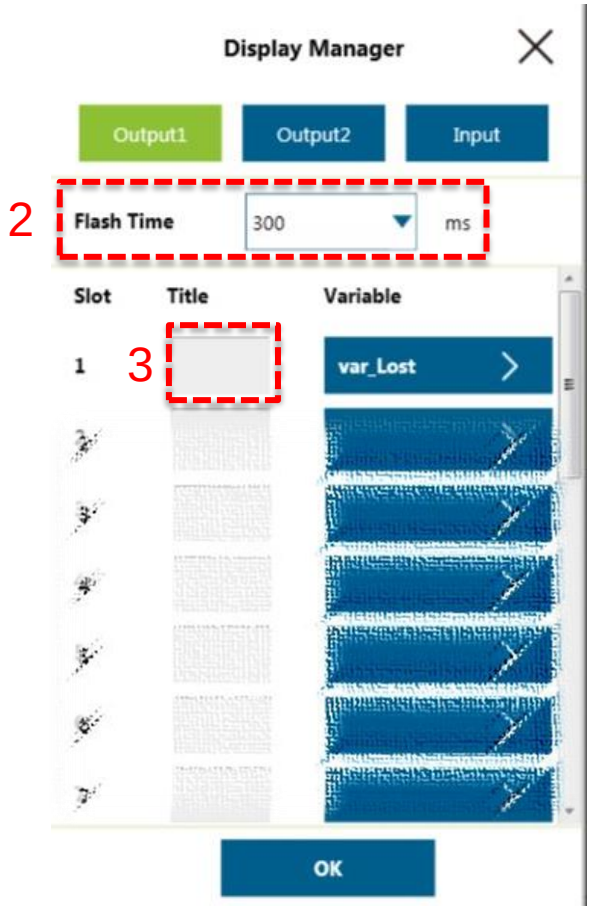
Application Explain



1. Click Display.
2. Choose the variable .

Application Explain

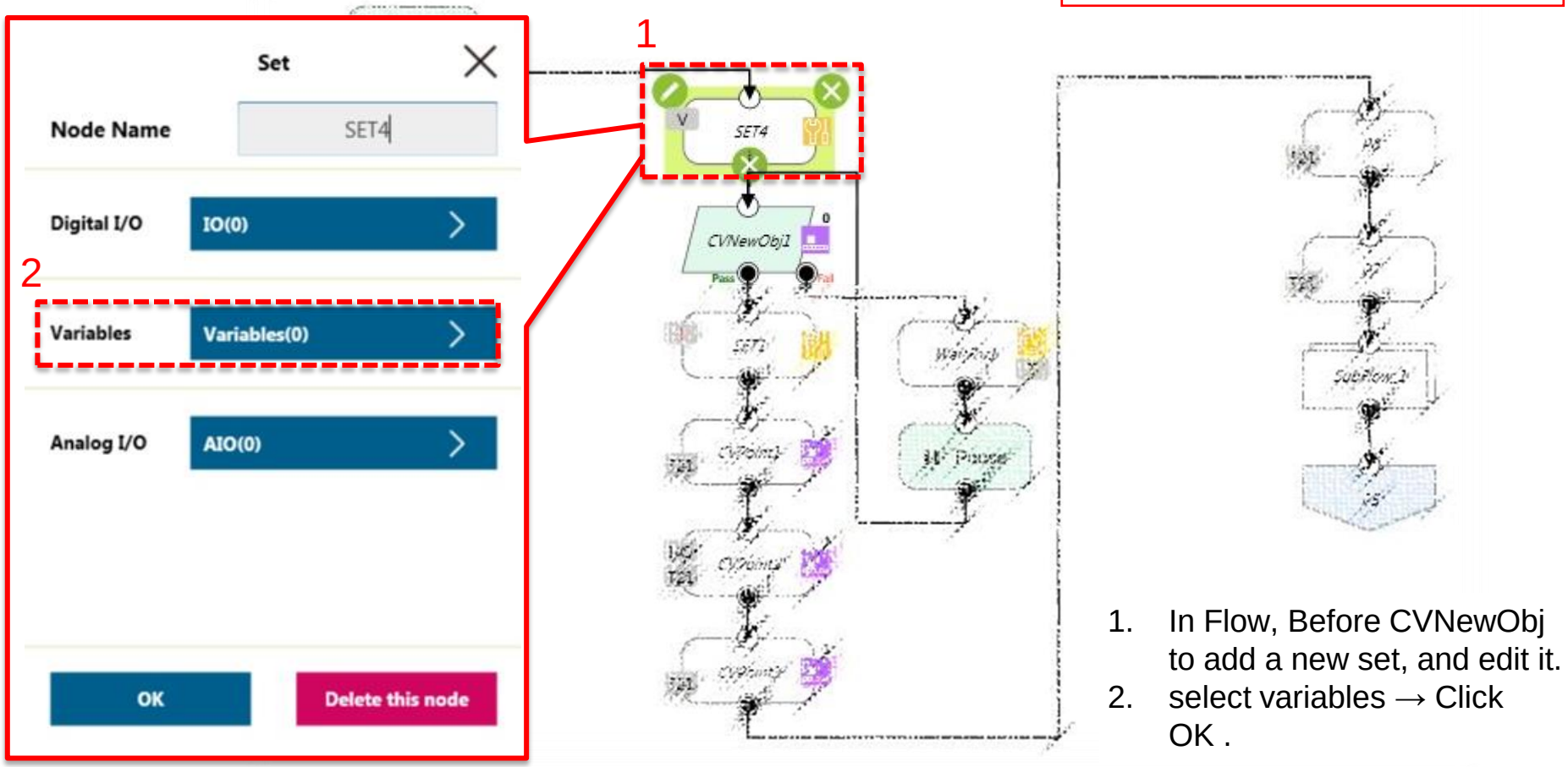




1. Choose the variable to create just a moment ago → OK.
2. Set Flash Time：300 ms → Click OK.
3. Set Title (ex : Lost number).

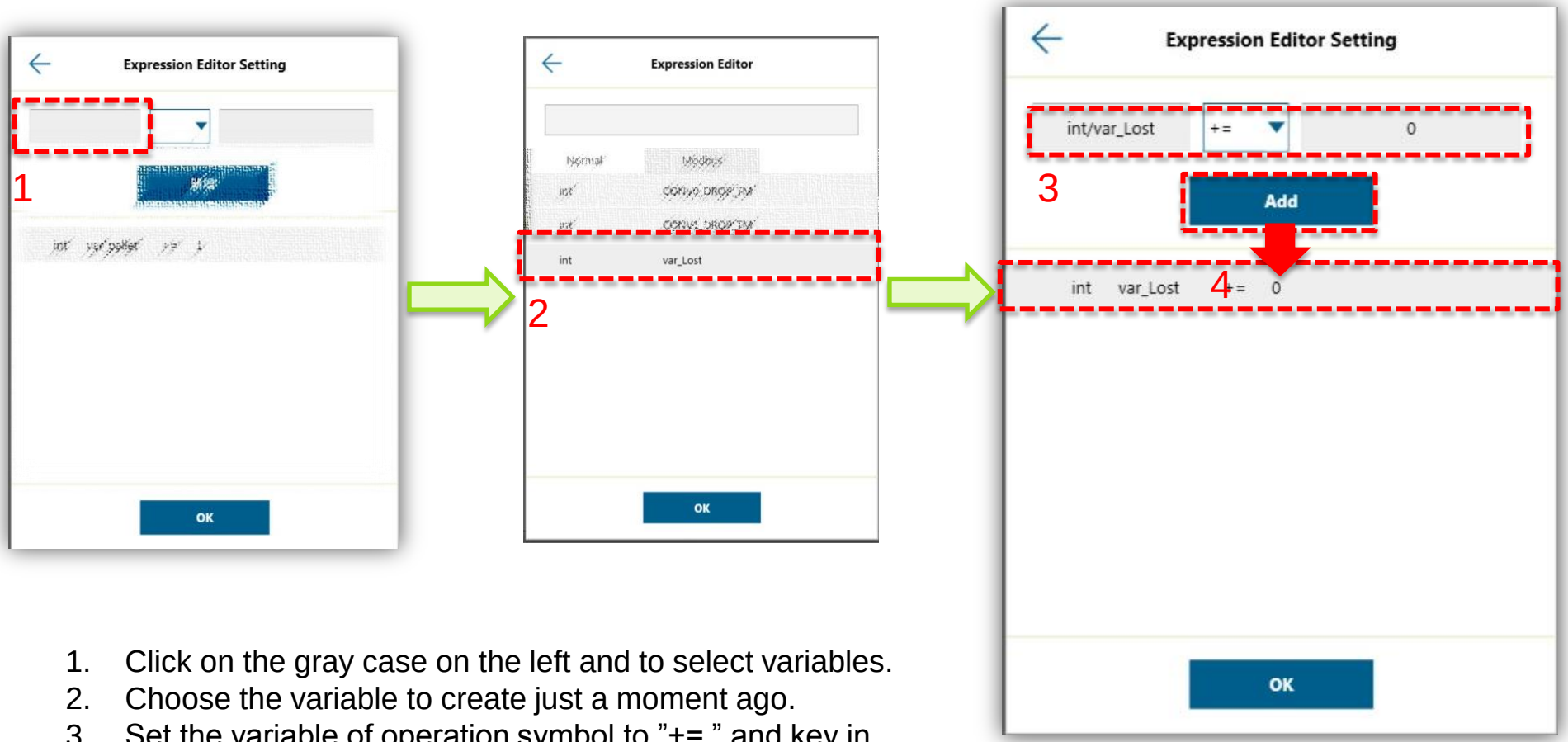
Application Explain

Define the initial value of calculate



1. In Flow, Before CVNewObj to add a new set, and edit it.
2. select variables → Click OK .

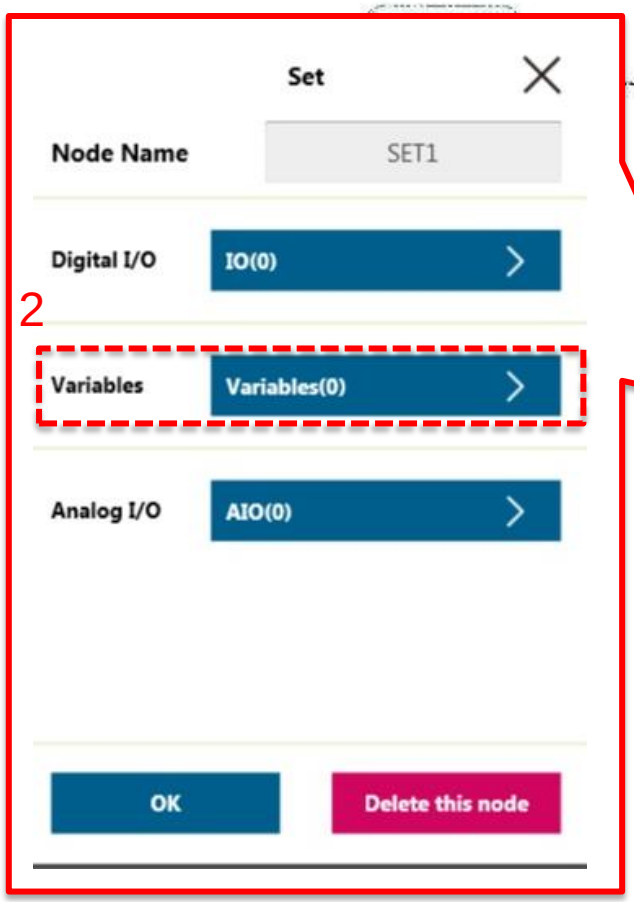
Application Explain

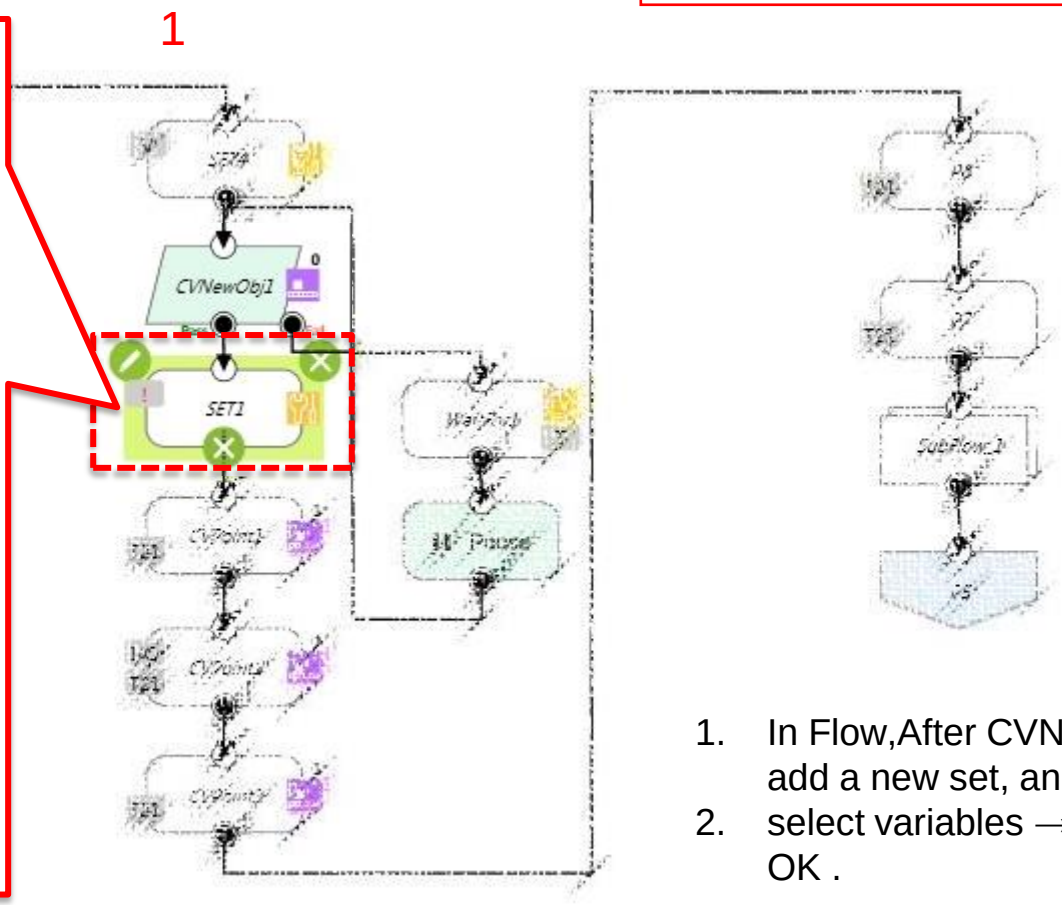


1. Click on the gray case on the left and to select variables.
2. Choose the variable to create just a moment ago.
3. Set the variable of operation symbol to ”+= ” and key in the value to “0”.
4. Click Add → Click OK.

Application Explain

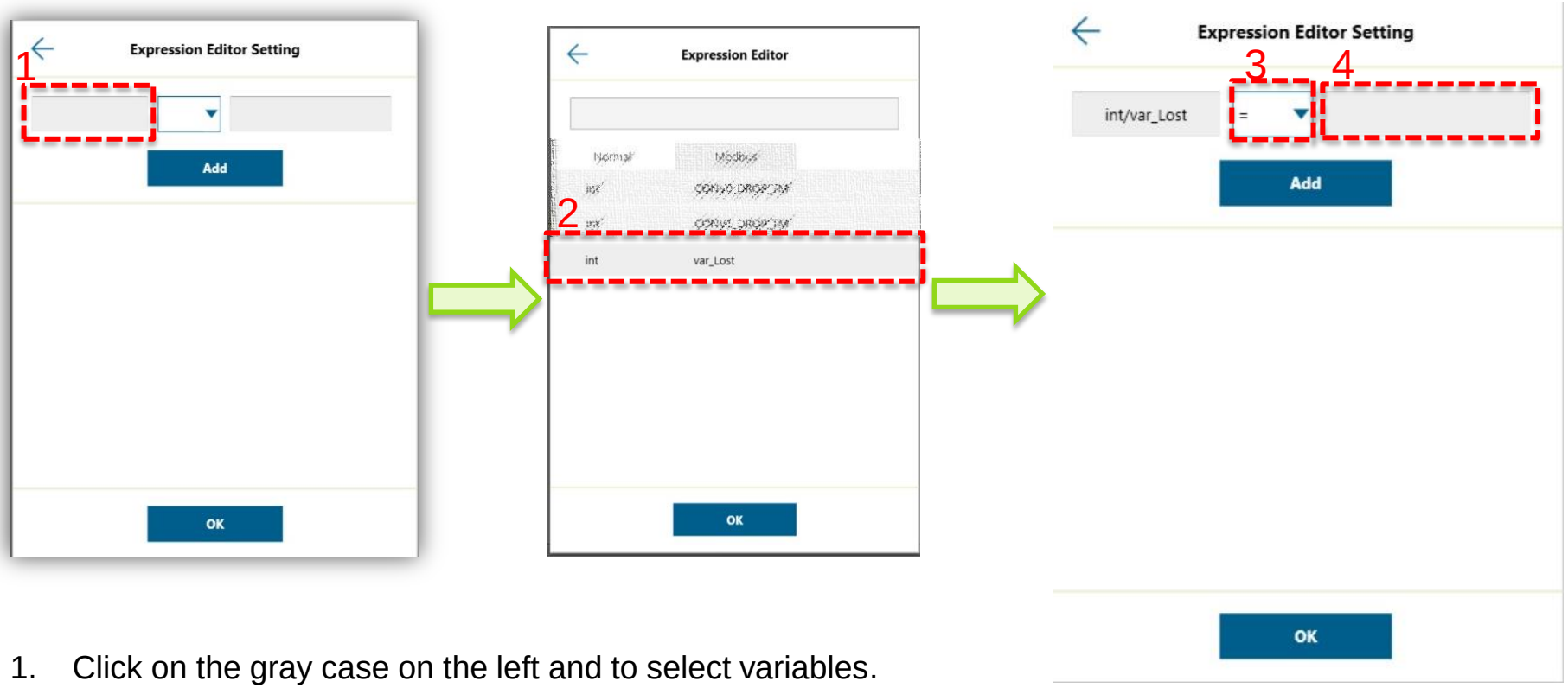
Define variables of discard objects





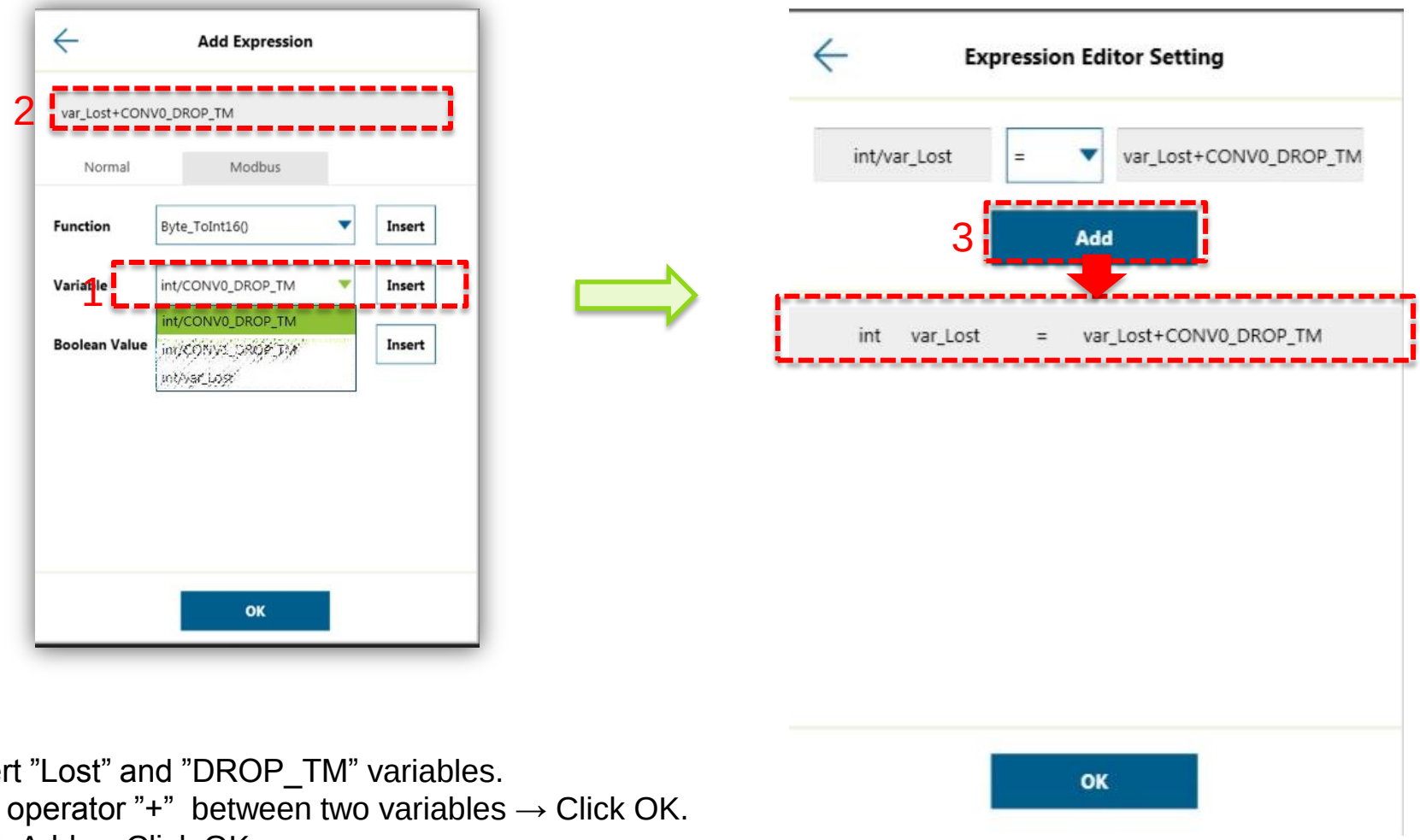
1. In Flow,After CVNewObj to add a new set, and edit it.
2. select variables → Click OK .

Application Explain



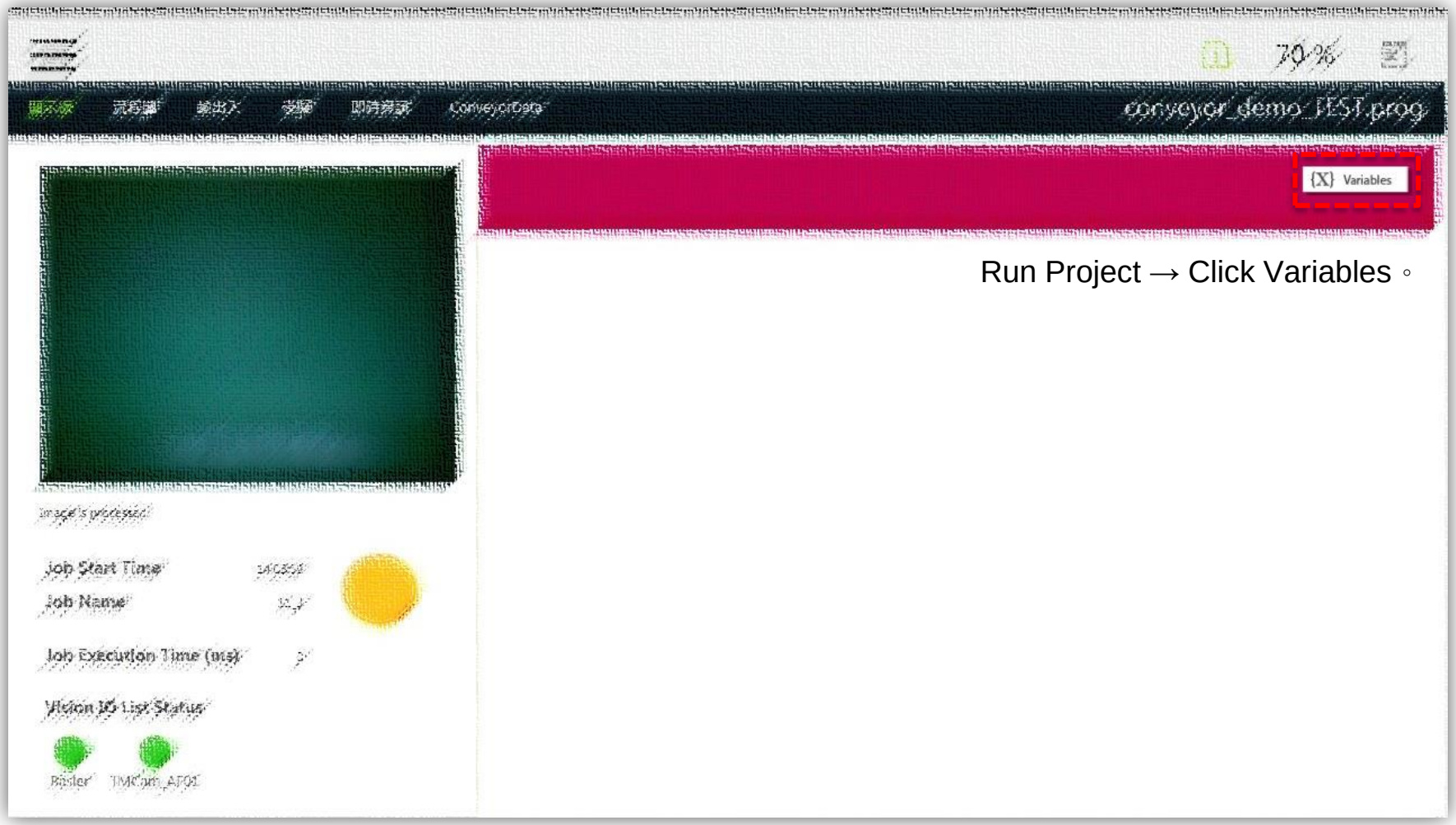
1. Click on the gray case on the left and to select variables.
2. Choose the variable to create just a moment ago.
3. Set the operation symbol to ”= ”.
4. Click on the gray case on the right and to select variables.

Application Explain



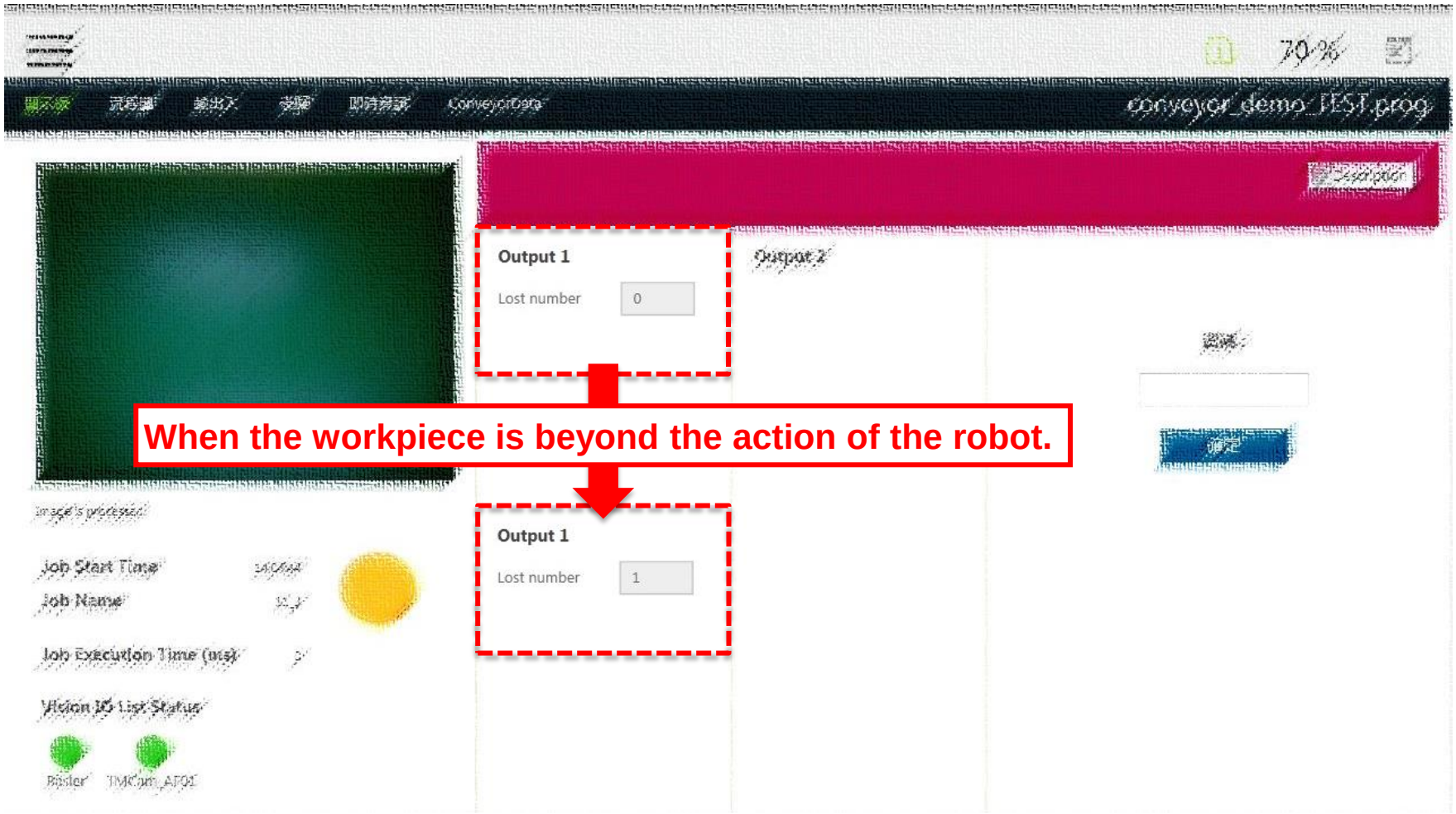
1. Insert ”Lost” and ”DROP_TM” variables.
2. Add operator ”+” between two variables → Click OK.
3. Click Add → Click OK.

Application Explain



Run Project → Click Variables。

Application Explain



END