# TW1 – 1 Variable Swapping

**Objective**

Build a workflow that swaps two numbers using a third variable.

* + - * Ask the user to input two numeric values and store them in two variables.
      * Swap values of both the variables using a third variable.
      * Display initial and swapped values of both the variables in the Output panel.

**Step by Step Process**

Step 1: Open UiPath Studio.

Step 2: Create a process and name it as “Variable Swapping”

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

Step 4: Name the Sequence activity as “Sequence – ‘This code is for swapping two numbers using a third variable’”

Step 5: Drag another Sequence activity from the Activities panel and insert it inside previous sequence activity.

Step 6: Name the Sequence activity as “Sequence – ‘For prompting the user to give the input'”.

Step 7: Insert an Input Dialog activity within the second Sequence activity and name it as “Input Dialog – ‘First Variable by User’”.

Step 8: In the Input Dialog activity, enter values as shown below:

|  |  |
| --- | --- |
| Title | Label |
| “First Value” | “Please enter the first numeric value: ” |

Step 9: In the Variables panel, create a variable for the above Input Dialog activity as shown below:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Variable type | | Scope | Default | |
| First\_Input\_Value | Double | Sequence – ‘This code is for swapping two numbers by using a third variable’ | | |  |

Step 10: Go to the Properties panel of the Input Dialog activity and insert

**First\_Input\_Value** in its Output property.

Step 11: Insert a second Input Dialog activity below the previous Input Dialog activity, and name it as “Input Dialog – ‘Second variable by User’”.

Step 12: In the second Input Dialog activity, enter values as shown below:

|  |  |
| --- | --- |
| Title | Label |
| “Second Value” | “Please enter the second numeric value: ” |

Step 13: In the Variables panel, create a variable for the second Input Dialog activity as shown below:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Variable type | Scope | Default |
| Second\_Input\_Value | Double | Sequence – ‘This code is for swapping two numbers by using a third  variable’ |  |

Step 14: Go to the Properties panel of the Input Dialog activity and insert the variable

**Second\_Input\_Value** in its Output property.

Step 15: Insert a Write Line activity from the Activities panel after the second Sequence activity, and name it as “Write Line – ‘Value entered before swapping’”.

Step 16: In the text box of the Write Line activity, enter the expression: **“First Value is: ” + First\_Input\_Value.ToString + Environment.NewLine + “Second Value is: ” + Second\_Input\_Value.ToString.**

Step 17: Insert another Sequence activity from the Activities panel below the Write Line activity, name it as “Sequence – ‘Swapping of numbers’” .

Step 18: In the Variables panel, create a new variable as shown below:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Variable type | Scope | Default |
| Swapping\_Support\_Variable | Double | Sequence – ‘This code is for swapping two numbers by using a third variable’ |  |

Step 19: Insert an Assign activity in the third Sequence activity, name it as “Assign – ‘Move the First\_Input\_Value to Swapping\_Support\_Variable’” .

Step 20: In the Assign activity, enter values as shown below:

|  |  |
| --- | --- |
| To | Value |
| Swapping\_Support\_Variable | First\_Input\_Value |

Step 21: Insert a second Assign activity below the previous Assign activity, name it as “Assign – ‘Move the Second\_Input\_Value to First\_Input\_Value’”

Step 22: In the second Assign activity, enter values as shown below:

|  |  |
| --- | --- |
| To | Value |
| First\_Input\_Value | Second\_Input\_Value |

Step 23: Insert a third Assign activity below the second Assign activity, name it as “Assign – ‘To swap Swapping\_Support\_Variable with Second\_Input\_Value’”

Step 24: In the third Assign activity, enter values as shown below:

|  |  |
| --- | --- |
| To | Value |
| Second\_Input\_Value | Swapping\_Support\_Variable |

Step 25: Insert a Write Line activity below the third Sequence activity, name it as “Write Line – ‘Swapped Result’”

Step 26: In the text box of the Write Line activity, enter the expression: **“First Value after swapping is: “ + First\_Input\_Value.ToString + Environment.NewLine + “Second Value after swapping is: “ + Second\_Input\_Value.ToString”**

Step 27: Save and run the workflow.