

LECTURE 04.

RELATED CONTROL FLOW

ACTIVITIES

Robotic Process Automation

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Contents

- **Related Control Flow Activities**
 - **Delay**
 - **Break**
 - **Continue**
 - **Assign**
 - **Parallel**
 - Demo 10
- **References**

Related Control Flow Activities

- in addition to **decision** and **iteration**-based control flow activities, there are other activities in UiPath that help in controlling the flow of the program:



Delay



Break



Assign



Continue

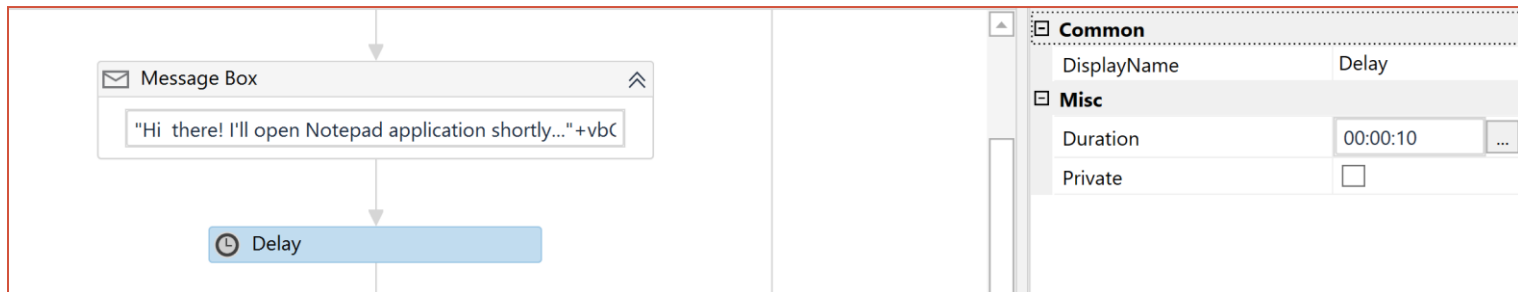


Parallel

see **Demo10 – RelatedControlFlow**

Delay Activity. Details

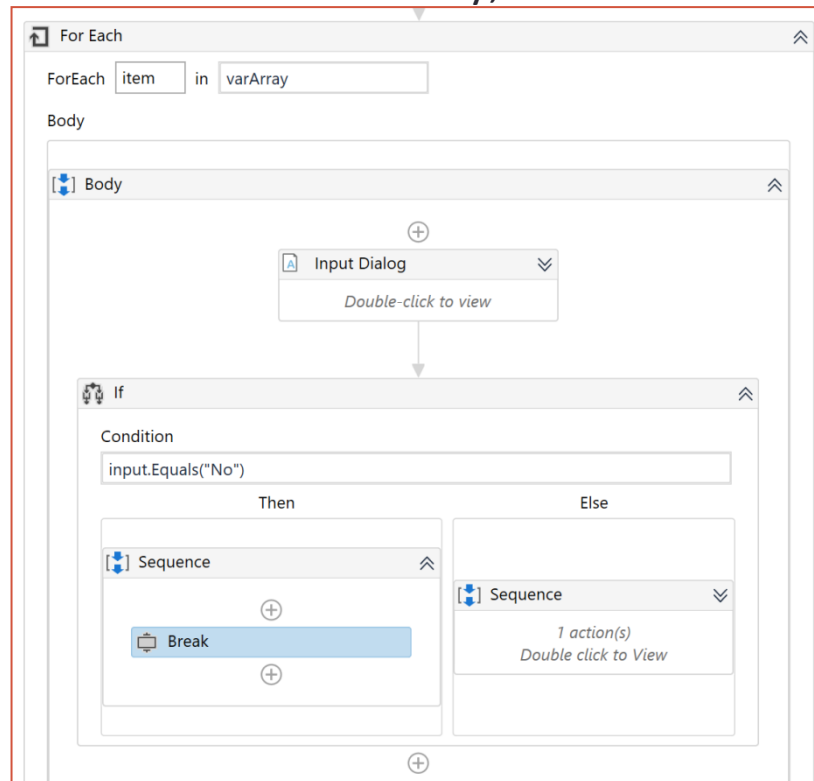
- **Delay** activity:
 - *pauses* the automation for a custom period;
- it is useful in projects that require **good timing**, such as:
 - waiting for a specific application to start *or*
 - waiting for some information to be processed so that it can be used in another activity.
- the duration can be set from the **Properties Panel**:
 - **Duration** property = **hh:mm:ss** format.



see **Demo10 – RelatedControlFlow**

Break Activity. Details

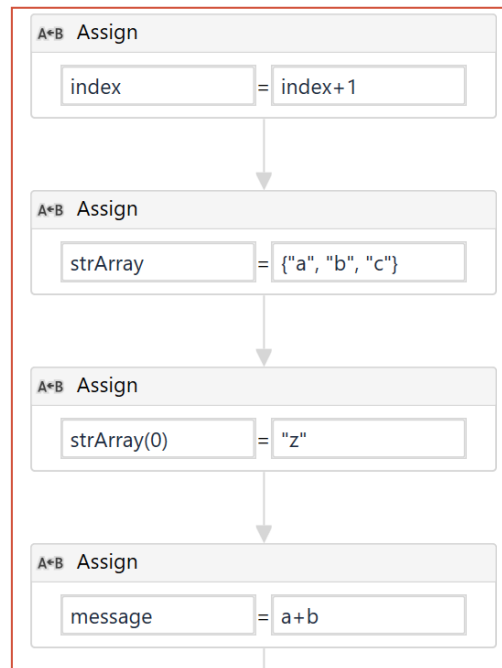
- **Break** activity:
 - stops the loop at a chosen point, and then continues with the next activity;
 - can be used with **For Each** activities only;



see **Demo10 – RelatedControlFlow**

Assign Activity. Details

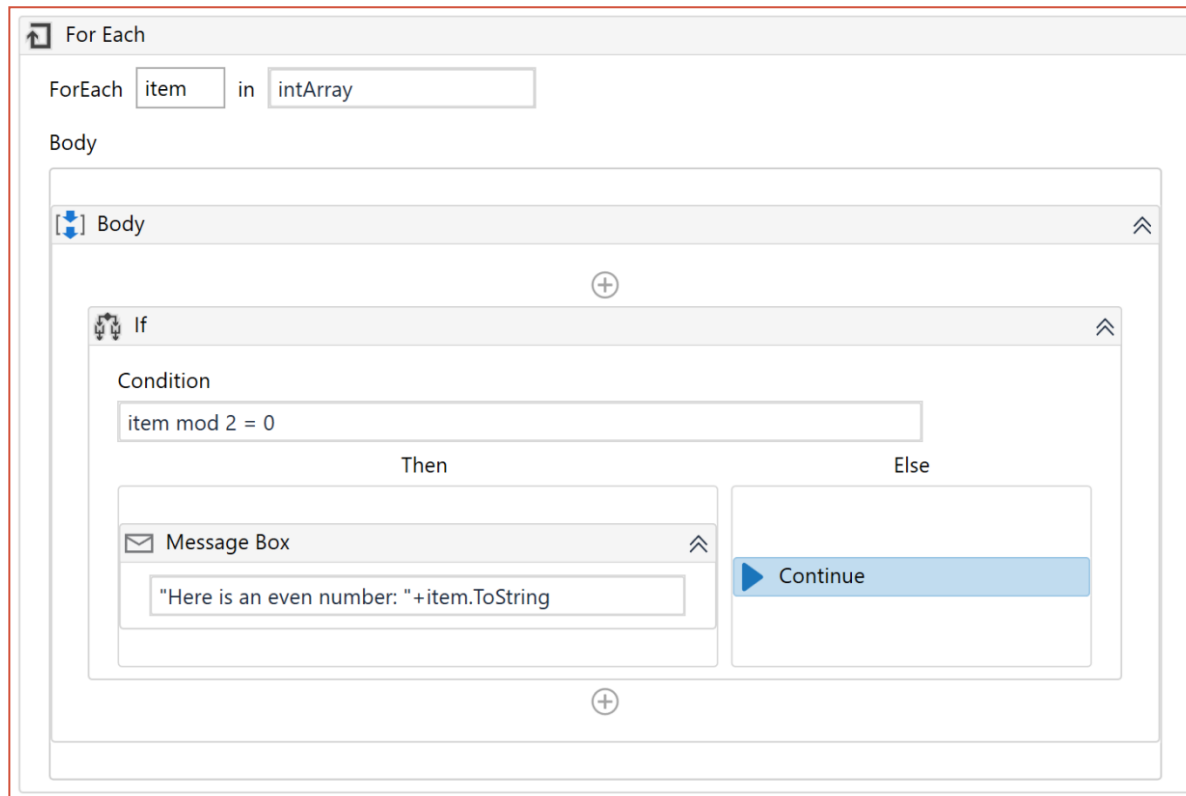
- **Assign** activity:
 - associate a **value** to a variable or argument;
- as a control flow activity, it can be used to:
 - increment the value of a variable in a loop;
 - sum up the value of two or more variables and assign the result to a different variable;
 - assign values to an array.



see **Demo10 – RelatedControlFlow**

Continue Activity. Details

- **Continue** activity:
 - skips the current **For Each** iteration and continues to the next element;
 - can be used with **For Each** activities only.



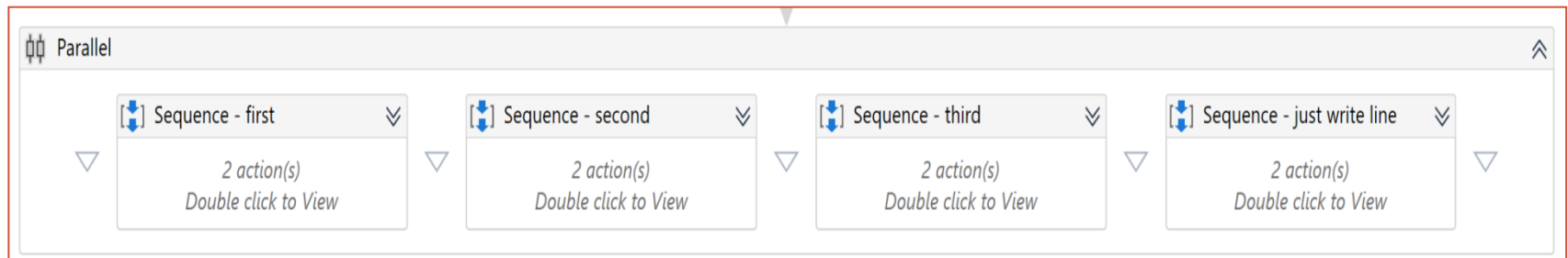
see **Demo10 – RelatedControlFlow**

Parallel Activity. Details (1)

- **Parallel** activity:
 - executes child activities in parallel (side by side);
 - it is helpful when there is the need to run several processes at the same time.
- it allows the user to schedule two or more child activity branches for processing simultaneously;
- Ways to run child activities:
 - **foreground** – a single process is allowed to be run at one moment;
 - **background** - more than one process at the same time;
- the user has to choose a single activity branch to run in the *foreground*, and remaining activity branches have to run in the *background*, by using **SendWindowMessages** and/or **SimulateType** property of the employed activities.

Parallel Activity. Details (2)

- **Parallel** activity:
 - run in foreground:
 - if **SendWindowMessages** or **SimulateType** is not used;
 - it begins to process *one activity* branch at a time; when it completes one activity branch, and then **randomly** picks another activity branch.



see **Demo10 – RelatedControlFlow**

References

- UiPath Docs
 - <https://docs.uipath.com/studio/docs/introduction>
- UiPath Forum
 - <https://forum.uipath.com/>
- UiPath Academy
 - <https://academy.uipath.com/>