

## Lesson 18

### The YAWL Data Perspective

- 5 minutes      **Lecture:** XML (slide set A, slides 1-3)
- 10 minutes    **Exercise** (slide 4)
- 5 minutes      **Lecture:** XML (slides 5-12)
- 5 minutes      **Exercise** (slide 13)
- 10 minutes    **Lecture:** Introduction to data handling in YAWL (slides 1-7)
- 10 minutes    Develop the sum of two numbers model and run  
                    Focus on  
                            net-level variables  
                                    Num1, Num2, Sum, all *integer* and *local*  
                            task-level variables  
                            parameter mapping

EnterTwoNumbers task:

The screenshot displays the YAWL Data Perspective interface for the 'EnterTwoNumbers' task. It is organized into four main sections: Input Parameters, Net Variables, Task Variables, and Output Parameters.

**Input Parameters:** A table with two columns: 'XQuery' and 'Task Variable'. It is currently empty. To the right of the table are three buttons: 'Create...', 'Update...', and 'Remove...'. Above the table are two arrow buttons for navigation.

**Net Variables:** A table with three columns: 'Name', 'Type', and 'Usage'. It contains three rows of data:

Name	Type	Usage
num2	integer	Local
sum12	integer	Local
num1	integer	Local

**Task Variables:** A table with three columns: 'Name', 'Type', and 'Usage'. It contains two rows of data:

Name	Type	Usage
num1	integer	Output Only
num2	integer	Output Only

**Output Parameters:** A table with two columns: 'XQuery' and 'Net Variable'. It contains two rows of data:

XQuery	Net Variable
{/Enter_two_numbers/num1/text()}	num1
{/Enter_two_numbers/num2/text()}	num2

Similar to the Input Parameters section, there are 'Create...', 'Update...', and 'Remove...' buttons to the right, and navigation arrows above the table.

At the bottom center of the interface is a 'Done' button.

AddNumbers task:

**Input Parameters**

XQuery	Task Variable
<code>{/New_Net_1/Num1/text()}</code>	Num1
<code>{/New_Net_1/Num2/text()}</code>	Num2
<code>{/New_Net_1/Num1/text() + /New_Net_1/Num2/text()}</code>	Sum

**Net Variables**

Name	Type	Usage
Sum	integer	Local
Num1	integer	Local
Num2	integer	Local

**Task Variables**

Name	Type	Usage
Num1	integer	Input Only
Num2	integer	Input Only
Sum	integer	Input & Output

**Output Parameters**

XQuery	Net Variable
<code>{/AddNumbers/Sum/text()}</code>	Sum

**Done**

Explain the concept of input and output task data in YAWL

5 minutes

**Lecture:** Data based routing in YAWL (slide 8)

10 minutes

Expand the sum of two numbers model and run  
Focus on the XQuery for the flow detail

**number(/New\_Net\_1/Sum/text()) > 3**

5 minutes

**Lecture: Remaining slides**