**for**

*Setting of final cycle*

**Syntax:**

**for** (<cycle variable assignment operator>,<final value>{,<cycle variable step>}) <cycle operator>;

**Description:**

Execution of final cycle according to a specified variable. The operation is running until the cycle variable reaches the final value. At each step the variable value is changed by a value equal to the specified step. If the step is not specified, then it is equal to 1 or -1 depending on the final value that is either higher than the initial value or lower than that.

**Example 1:**

|  |  |
| --- | --- |
|  | **var** s=0;  **for** (i=1,10)  s = s + i^2; |

As a result of execution of the example value 11 will be assigned to the variable i, while value 385 will be assigned to variable s.

**Example 2:**

|  |  |
| --- | --- |
|  | **var** k=0, n=0;  **for (**i=0.1, 1, 0.2**)**  **begin**  k = k + i\*2;  n = n + i^2;  **end**; |

As a result of execution of the example value 1.1 will be assigned to the variable *i*, while value 5 will be assigned to variable *k* and value 1.65 – to variable *n*.