

2nd laboratory exercises

1. assignment

Produce a VI which takes two input numerical values and produces a result depending on the choice of a mathematical operation. The choice should be provided via a slider, and the available values should display + - × or ÷. The choice should be limited to these four values. A case structure should be used in the solution.

2. assignment

Improve the previously built VI with an option to run the program until a termination button on the Front Panel is pressed. A button that regulates the display of the result should also be included – it should be changed only if the button has been pressed. Unavailable control blocks to take on values smaller than 1.

3. assignment

Produce a VI which calculate the factorial (n!) value of the input integer. The result should be displayed only after the „calculate“ button has been pressed. The program should run until the STOP button is pressed. Use of LabVIEW factorial function is not allowed.

4. assignment

Produce a VI which calculates the nth member of the Fibonacci sequence. The sequence is defined as: $F(0)=0$; $F(1)=1$; $F(n)=F(n-1)+F(n-2)$. The VI takes an input number which represents the ordinal number of the Fibonacci sequence member to be calculated. The result should be displayed only when the „calculate“ button has been pressed. The program should run until STOP is pressed.