**The laboratory work 14**

Exercise 1 Write a method that returns the largest of two numbers. The method input parameters are two integers. Test the method.

Exercise 2 Write a method that swaps the values ​​of two passed parameters. Pass parameters by reference. Test the method.

Exercise 3 Write a method for calculating the factorial of a number, transfer the result of calculations in the output parameter. If the method was successful, then return true; if an overflow occurs during the calculation, return false. Use the checked block to track value overflows.

Exercise 4 Write a recursive method for calculating the factorial of a number.

Exercise 5 Write a method that calculates the GCD of two natural numbers (Euclid's algorithm).