Operators, Flow Control Statements

C++ in QF I - a course by Paweł Sakowski

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Labs 02

Last time we learned:

- How to create a simple program in C++.
- What are variables and variable types.
- How to declare variables and assign values to them.
- That constant values can be assigned to variables.





Today we will learn:

- How the program is created? What is the compiler and the machine language.
- What are **comments** and why we should use them.
- More about operators.
- What are flow control statements.
- Usage of **selection statements**: if, if else, else if.
- Usage of iteration statements (loops): while, for.





Examples:

- Write a program, that decides if the number is positive or negative. Take 0 into consideration.
- Rewrite second example to ask the user for numbers until the user prints 0.
- Print the multiplication table on the screen. Format it nicely.
- Write a program to investigate how operators ++ and -exactly work.





Exercises

- Write a program that will calculate future value of a deposit. First ask the user about length of time horizon, interest rate and initial deposit amount.
- Write a program that will calculate number of months after which the initial deposit is trippled. Don't use loops.
- Write a program that will calculate number of months after which the initial deposit is trippled. Use loops.
- Write a program that will simulate throwing a dice or coin and calculate the average result. Ask the user whether he/she wants to throw a dice or coin and how many times does he/she want to throw. hint: rand() % m + 1 returns an integer between 1 and m.
- Write program that will print Christmas Tree using loops.

Wydział Nauk Ekonomicznych

Thank you!

