

Programmering I - Exercises

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Exercises

Preconditions

Carefully read the document *Install the necessary software*.

Install the required tools on your personal computer. That way you can develop your programs away from school.

The exercises can also be done on the school computers where the required tools are already installed. You can use the text editor TextPad (launch from the Start button) and save them on device H:.

The example programs used in the exercises are found in the folder *Example programs*.

Exercise 1

A) Create, compile and execute a Java program

Carefully follow the instructions in the document *Create, compile and execute a Java program*.

Create, compile and execute the program `Demo`, according to the instructions in this document.

Write a similar program yourself.

B) Data types, input and output

Fetch the program `Cost`, compile and execute it.

Then write a similar program yourself.

C) Details of input

Fetch the program `PersonalData`. Why can it not be compiled?

Include statement (1) in the program and compile it.

Execute the program — what happens?

Include statement (2) in the program, compile and execute it. What happens now?

Write a similar program yourself.

Exercise 2

The least element of a sequence + sort a sequence

Fetch the program `ManageNumbers`, compile it and execute it. What happens?

Carefully trace how the least element is found and how the elements are sorted. Use pen and paper — illustrate the corresponding steps. Mark in some way the numbers that are in focus in a certain step.

Work in pairs — explain the program to each other.

Create a similar program yourself.