Week 1

Write and run your programs with IDLE editor.

L01-T1: The first Python program

L01-T2: Setting and printing the variable value

L01-T3: Calculation operations and printing

L01-T4: Querying and printing text

L01-T5: More calculation

L01-T1: The first Python program

Make a Python program that prints the text "Hello Finland! Here we go!" on the screen.

Example run of the program:

```
Hello Finland! Here we go!
```

L01-T2: Setting and printing the variable value

Make a Python program that

1. Contains two integer variables that get the values 50 and 150. Set the program to print the values of these variables on the screen on the same line, separated by a space.
2. Add another print statement to the program, which prints the variables of the previous section on the next line, and between them the text "This text comes between variables", separated by spaces.
3. Add a third print statement to the program, which prints the sentence "I am writing this code!" on its own line.

Example run of the program:

```
50 150
50 This text comes between variables 150
I am writing this code!
```

L01-T3: Calculation operations and printing

Make a Python program that

1. Asks the user for the prices of two products and converts the prices into whole numbers. In Python, conversion to an integer is done with the int statement.
2. Prints the message: "Product 1 costs <price1> e and product 2 costs <price2> e."
3. Set the program to print the sum of the prices given by the user: "The sum of the products is <amount> euros."

Try the program with different feeds. Do you notice any problem with the program and if you do, can you solve it? The answer to this part will not be returned.

Example run of the program:

```
Enter the price of product 1:
7
Enter the price of product 2:
8
Product 1 costs 7 e and product 2 costs 8 e.
The sum of the product prices is 15 euros.
```

L01-T4: Querying and printing text

Make a Python program that

1. Asks the user for his name.
2. Prints the message: "Welcome coder <name>"

Example run of the program:

```
Enter your name:
Matti
Welcome coder Matti
```

L01-T5: More calculation

Make a Python program that

1. Ask the user to input two positive integers

2. Computes all the operations below:

- Addition

- Subtraction

- Multiplication

- Division

- Integer division (floor division)

- Exponents

- Modulus (remainder)

You can these operations in the self-study material on Moodle.

3. Print the result

Example run of the program:

```
Give the first integer:
26
Give the second integer:
4
26 + 4 = 30
26 - 4 = 22
26 * 4 = 104
26 / 4 = 6.5
26 // 4 = 6
26 ** 4 = 456976
26 % 4 = 2
```