

Creating computer programs in Python



Beginner level

Materials prepared by the department
of methodological development department



Revision of the previously covered material.Loops

Loops are needed to repeat any line of code several times. The code we want to repeat is written after a colon (:) on the next line, with an indent of 4 spaces. We already know two loops: **for** and **while**.

for - repeats the code within itself a specified number of times, going through the elements of the sequence (characters in a string, elements in a list, numbers in the sequence obtained with the range command).

```
for element in the sequence:  
    code
```

while - repeats the code internally as long as the condition is true:

```
while condition:  
    code
```

while condition:

Conditional loop

while True:

Endless Loop

for var in sequence:

var is a variable that will only be used inside the loop. The elements from the sequence will be written to it in turn.

range (from , to , step)

Returns a sequence of numbers from a number, to a number. It is obligatory to specify only up to which number to return.

break

Stopping the loop. Quitting the loop

continue

Switching to the next iteration of the loop