

# Creating computer programs in Python



Beginner level

Materials prepared by the department  
of methodological development department



# Revision of the previously covered material. Lists

A list is a data structure in which several different elements (numbers, strings, variables, logical values) can be stored.

A list item can be anything, including other lists.

Elements in lists are numbered, the number of the list element is called an index. Importantly, list indexing starts at 0, not 1. That is, the first item has an index of 0, the second one has an index of 1, and so on.

Lists have built-in commands to work with them. To use them, write

```
list_name.name_of_the_command()
```

```
a = [ 1, 2, 3 ]
```

A list of three digits in the variable a

```
a = [ 1 ]
```

Returns the list item with index 1

```
a.append(25)
```

Adds 25 to the end of the list

```
a.remove(25)
```

Deletes an item with value 25 from the list

**a.pop(25)**

Deletes and returns the last item in the list

**a.index(25)**

Returns the index element with value 25

**len(a)**

Returns the length of the list