

Creating computer programs in Python



Beginner level

Materials prepared by the department
of methodological development department



Tic-tac-toe. Console version

A list is a data structure in which several different elements can be stored.

A list item can be anything, including another list.

Elements in the list are numbered, the numbering of the list starts with 0! The number of the list item is called an index.

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

```
list_name.name_of_command()
```

To work with a list item, you need to get it first. We get an element from the list by index

```
list[element_number];
```

Other lists can be stored in the list. If the list has one level of nested lists, such a list is called a two-dimensional list.

Two-dimensional lists are very convenient because they can be represented as a table. Nested lists will be its rows, and indexes of elements in them correspond to columns of the table. To get an element of a nested list, you need to write two indexes (each in its own square brackets). For example, `list[2][0]` is the first element of the third nested list.

