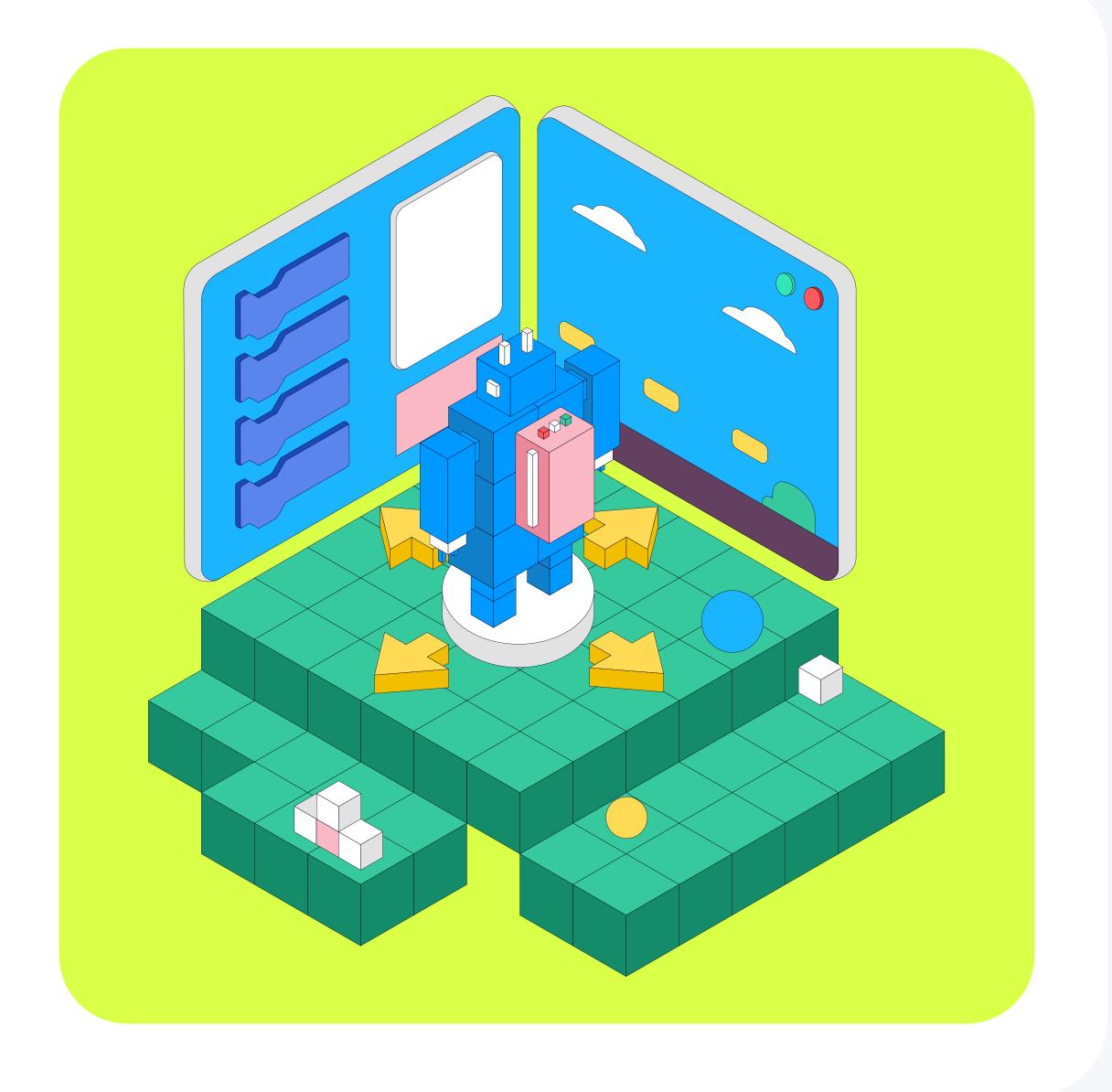


Creating computer programs in Python



Beginner level

Materials prepared by the department of methodological development department



Calculator. Part 1

beginner level

tkinter is a library for creating graphic programs, that is, programs consisting of windows and widgets placed on them.

A widget is a graphical element on a window designed to interact with the program or display information. For example, it can be a button, an input field or an inscription.

To create a widget, you need to call the corresponding function from the tkinter library. As a parameter of this function it is necessary to pass the window on which the widget will be placed. And also the widget can be configured with various parameters (background and text color, font, etc.).

In order for the widget to appear on the window, it must be placed using the place command.

beginner level

window = tkinter.Tk()

Creating the main program window

window.mainloop()

Function for updating the program window. It is written with the last line of the program.

window.title('My calculator')

Changing the window title

window.geometry('300x300')

Resizing the window

beginner level

button_add = tkinter.Button(window, text='+')

Check the occurrence of the left part in the right part.

Placing a widget in the box at the specified coordinates

Creating an input field

text.get()

Returns the text written by the user in the input field widget

beginner level

text.insert(where, what)

Inserts text into the input field at a specified position

text.delete(from, to)

Deletes text from the input field from and to the specified position. If "end" is passed to "to", the text is deleted with the last character.