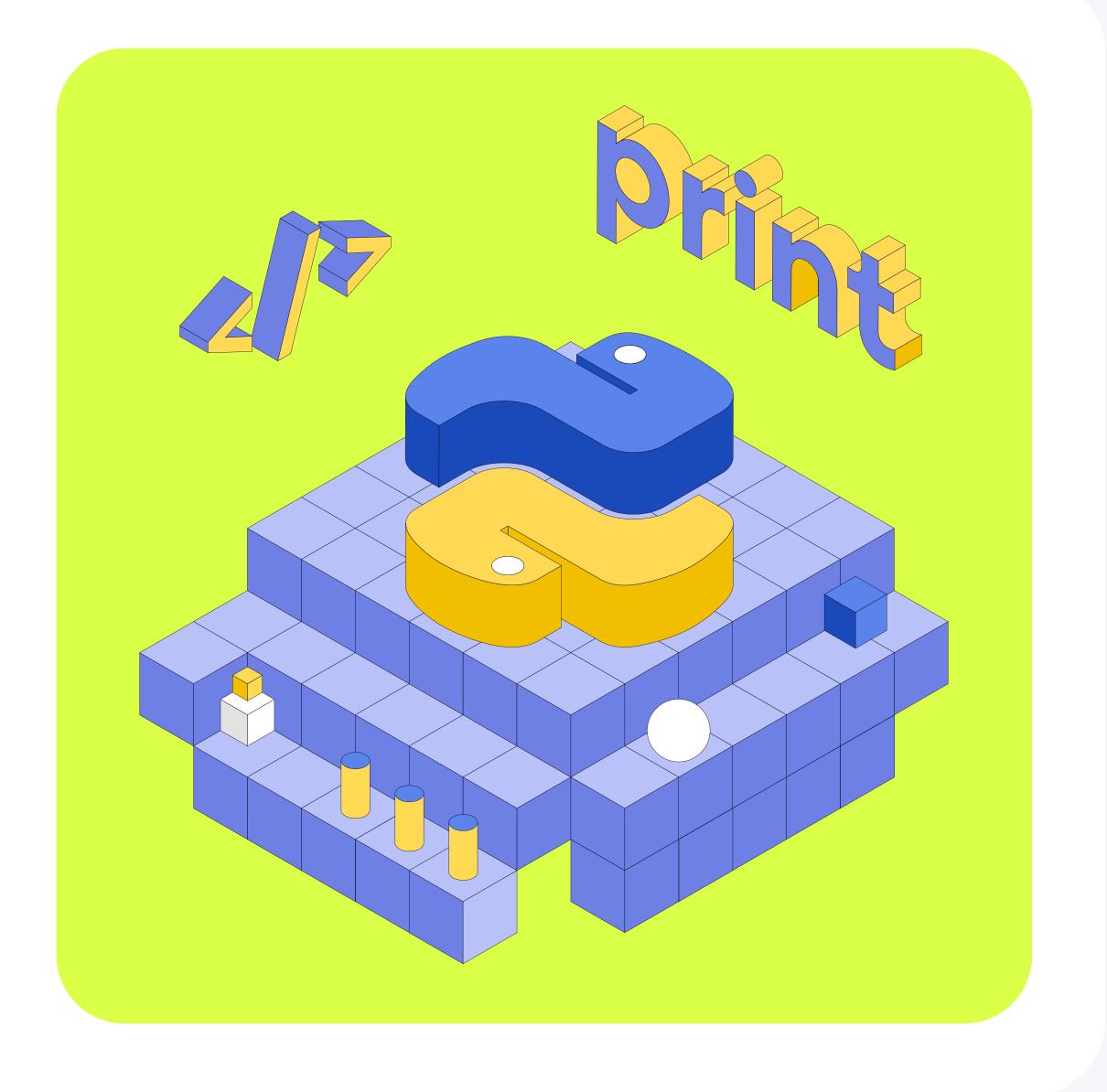


Creating computer programs in Python



Beginner level

Materials prepared by the department of methodological development department



Notepad. Part 2. Working with files

beginner level

To open a file, the construction with open() is used, to which you must pass the path to the file. If the file is located in the same folder as the program, then only the full name of the file is specified (along with the extension, for example, "file.txt")

After with open(), specify the name of the variable in which the file will be written. A colon is placed at the end, and on the next line, with an indent of 4 spaces, you can do something with the opened file. For example, print it out. But before that you need to read its contents with the read command:

with open ("file.txt") as file:

print(file.read()) # prints out the contents of the file

beginner level

If you want to write something to the file, add another parameter in the brackets of the open command: "w" (to completely overwrite the contents of the file) or "a" (to add new text to the existing one). The command write is used to write to the file:

with open ("file.txt", "w") as file:

print(file.write('New text')) # will replace the contents of the file with "New text"

with open ("file.txt", "a") as file:

print(file.write('New text')) # will add "New text" to the end of the file

If the file has encoding problems, another parameter of the open command → encoding → will help. It can be set to "utf-8" or "windows-1251".

beginner level

Opening a file for reading and writing it to the file variable.

Opening a file to overwrite.

Opening a file to add text at the end.

file.read()

Reading from a file.

beginner level

file.write('Some text')

Writing to a file.

file_menu.add_command(label='Open', image=open_file_icon, compound='left', command=open_file)

Adding a command (open_file function) to a menu item.

import tkinter.filedialog as tfd

Library for working with dialog boxes.

tfd.askopenfilename()

tfd.asksaveasfilename()

Creating a window for selecting a file

Creating a window for saving a file