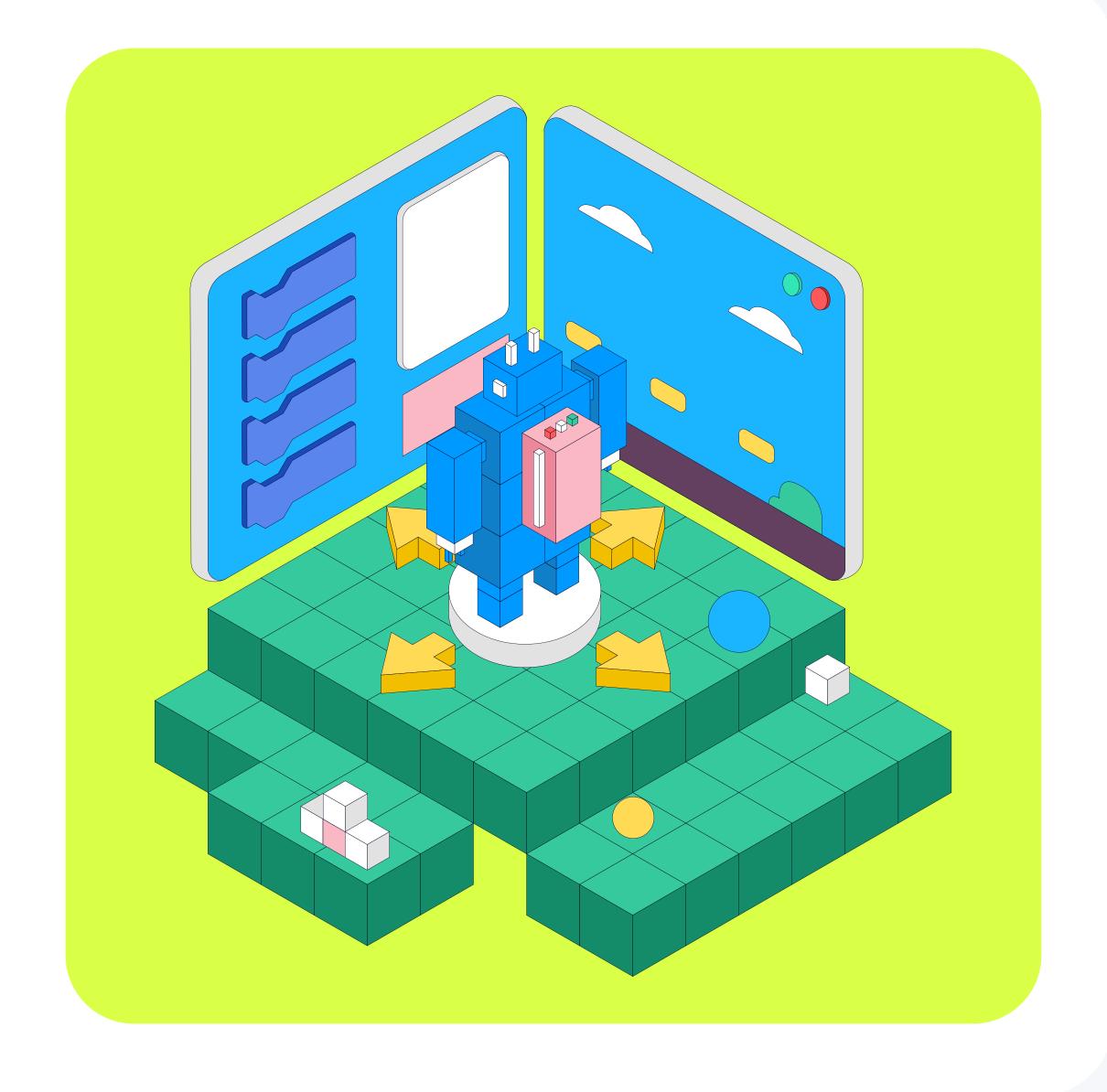


# Creating computer programs in Python



# Beginner level

Materials prepared by the department of methodological development department



beginner level

Python is a programming language consisting of commands.

If we want the computer to do something, we have to to write code made up of commands that the computer has to to execute the computer

A variable is a cell in computer memory that we can name, write something to, and then retrieve that data. Variables are used to store information in program.

We can give any name to variables, but it is desirable that from the name, it is clear what the variable stores. The name of a variable should not be the same as the name of the (for example, you can't name a variable print or if). The names of names of variables are written with a small letter and an underscore between them if the variable name consists of two or more words.

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The data type defines what exactly the data are data, how they are stored in memory, what operations with them can be performed on it.

Libraries are collections of ready-made commands.

Random is a library which contains commands for getting random values. They must be imported before they can be used.

# print (5)

notes

Printing the number

Printing the sum of numbers

## print ('hello world')

Printing the string

print (hello wolrd'+ 'from John')

String addition (Cancatenation)

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name = 'John'

Creating a variable

user name = input ('Enter your name')

Entering a value from the keyboard

if secret\_number > user\_number:
 print ('Secret number is greater than your')

Creating a condition, the command inside will only be executed if the first variable is greater than the second

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if secret\_number < user\_number:
 print ('Secret number is less than your')</pre>

Creating a condition, the command inside will only be executed if the first variable is less than the second

if secret\_number == user\_number:
 print ('You won')

Creating a condition, the command inside will only be executed if the variables will be equal to

import random

Connecting the library

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#### secret\_number = random.randint (1, 10)

Creating a random number from 1 to 10

### while attempts > 0:

Creating a loop with a condition

#### break

Exit loop operator

int(user\_number)

str(user\_number)

Conversion to a number

Convertion to string