

THE TISCALE

Variables & Data Types

Variables in Python

Variables in Python are like containers that hold data values. When you assign a value to a variable, you're essentially putting that value into the container. In Python, variables are used to store data values. They are created when you assign a value to them using the assignment operator (=)

THE TISCALE

Variables & Data Types

Variables in Python

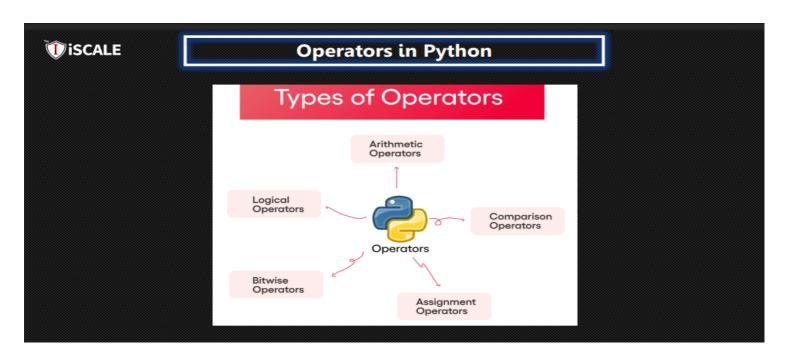
Rules for Python variables:

- · A variable name must start with a letter or the underscore character
- · A variable name cannot start with a number
- A variable name can only contain alpha-numeric characters and underscores (A-z, 0-9, and _)
- · Variable names are case-sensitive (age, Age and AGE are three
- different variables)
- · A variable name cannot be any of the Python keywords.



Operators in Python

Operators in Python are special symbols that perform specific actions on variables or values. They allow you to carry out tasks like addition, comparison, and logical operations in your code. Operators make it easier to write concise and readable code by providing shorthand notations for common tasks.





Operators in Python

Arithmetic Operators

Operator	Meaning	Example
+	Addition	4 + 7 → 11
-	Subtraction	12 - 5 - → 7
*	Multiplication	6 * 6 → 36
1	Division	30/5 -→6
%	Modulus	10 % 4 → 2
//	Quotient	18 ∥ 5 → 3
**	Exponent	3 ** 5 → 243



Operators in Python

Operators	Meaning	Example
>	Greater than	8>3=True, 4>9=False
<	Less than	8<3=False, 4<9=True
==	Equal to	(3==4)=False, (4==4)=True
!=	Not equal to	3!=4=True, (4!=4)=False
>=	Greater than or equal to	3>=2=True, 3>=3=True
<=	Less than or equal to	2<=3=True, 2<=2=True

THE **()** iSCALE

Practice Question 1

Which of the following is NOT a valid variable name in Python?

- A) _my_var
- B) 2nd_value
- C) myVar
- D) var_name

THE **()** iSCALE

Practice Question 2

Which operator is used for floor division in Python?

- A) /
- B) //
- C) %
- D) **

What will be the output of the following code?

x = 10

y = 20

x, y = y, x

print(x, y)

A) 10 20

B) 20 10

C) 10 10

D) 20 20