

Python for Data Analytics

Learn everything about analytics

Basics of Python

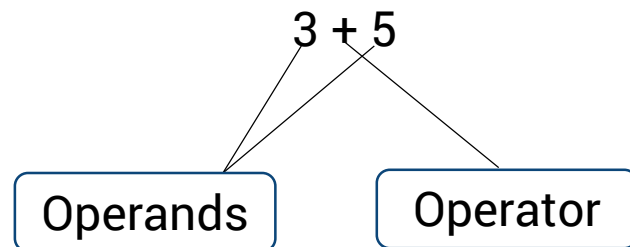
Topics to be covered

1. Operators
2. Variables and Variable naming conventions
3. Data types in Python
4. Conditional Statements
5. Looping Statements
6. Functions
7. Packages in Python
8. Getting familiar with the pandas library in Python

Operators

What are Operators?

Symbolic Representations of mathematical tasks.



Task	Symbol
Addition	+
Subtraction	-
Multiplication	*
Division	/

Different Types of Operators

Arithmetic Operator

Conditional Operator

Logical Operator

Different Types of Operators

Arithmetic Operator

- Addition +
- Subtraction –
- Multiplication *
- Division /

Addition -> $3 + 5$, $3 + 5 + 6$

Subtraction -> $3 - 5$, $6 - 4 - 2$

Multiplication -> $3 * 5$, $3 * 5 * 6$

Division -> $3 / 5$

Return type depends on the operands

Different Types of Operators

Comparison Operator

- Less than <
- Less than or Equal to <=
- Equal to ==
- Greater than >
- Greater than or equal to >=
- Not equal to !=

Less than -> $3 < 5$

Less than or equal to -> $3 \leq 5$

Equals to -> $3 == 5$

Greater than -> $3 > 5$

Greater than or equal to -> $3 \leq 5$

Not Equal to -> $3 \neq 5$

Returns only True or False

Different Types of Operators

and -> Returns the first false value; if not found returns last.

3 < 5 and 5 > 3 , 0 and 3, True and False

or -> Returns first true value; if not found returns last

3 < 5 or 5 > 3 , 0 or 3, True or False

not -> flips the Boolean value of the operand

not 0, not 3, not "neeraj"

Logical Operator

- and
- or
- not

and, or return one of the operands

not returns only True or False

