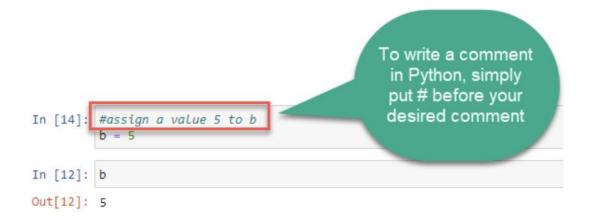
Comments

- When writing code in Python, it's important to make sure that your code can be easily understood by others, say by your friend who wants to see your code.
- Python ignores everything after the hash mark and up to the end of the line. You can insert them anywhere in your code!
- A shortcut for adding comments is by using CTRL + /



Operators

- Operators are used to perform simple operations such as additions, comparisons etc on variables and values.
- Python supports the following types of operators, we will be looking at some of the commonly used operators.

- Arithmetic Operators
- Comparison (Relational) Operators
- Assignment Operators
- Logical Operators
- Bitwise Operators
- Membership Operators
- Identity Operators

Arithmetic Operator

We can perform some basic arithmetic operations such as additions, subtraction, multiplication etc using python

Example: x = 2 y = 3 x + y # addition x * y # multiplication

```
In [2]: 4**2 #Exponentiation
Out[2]: 16
In [3]: 18%7 #Modulo
Out[3]: 4
```

Arithmetic Operators, Meanings & Examples

Operator	Meaning	Example
+	Add two operands or unary plus	x + y+ 2
-	Subtract right operand from the left or unary minus	x - y- 2
*	Multiply two operands	x * y
/	Divide left operand by the right one (always results into float)	x/y
%	Modulus - remainder of the division of left operand by the right	x % y (remainder of x/y)
//	Floor division - division that results into whole number adjusted to the left in the number line	×//y
**	Exponent - left operand raised to the power of right	x**y (x to the powery)

Comparison Operator

- These are used to compare two values
- Gives a boolean result (True/False)

Numeric Calculations:

```
In [1]: 2 < 3
Out[1]: True

In [2]: 2==3
Out[2]: False

In [3]: 2 <= 3
Out[3]: True</pre>
```

Other Comparisons:

```
In [4]: "rahul"< "rohan"
Out[4]: True</pre>
```

Comparison Operators, Meanings & Examples

Operator	Meaning	Example
>	Greater than - True if left operand is greater than the right	x > y
<	Less than - True if left operand is less than the right	x < y
==	Equal to - True if both operands are equal	x == y
!=	Not equal to - True if operands are not equal	x != y
>=	Greater than or equal to - True if left operand is greater than or equal to the right	x >= y
<=	Less than or equal to - True if left operand is less than or equal to the right	x <= y

Logical Operator

- Logical operators are used to combine conditional statements
- Gives a boolean result (True/False)

Operator	Description 1/3
and	Returns True if both statements are true
or	Returns True if one of the statements is true
not	Reverse the result, returns False if the result is true