

operators

arithmetic operators
Relational operators
assignment operators
Membership operators
identity operators
logical operators
bitwise operators

$+$, $-$, $/$, \div , $//$, $*$, $**$

$=$, $!=$, $<$, $>$, $<=$, $>=$

$+=$, $-=$, $/=$, $\div-=$, $//=$, $*=$, $**=$

in, not in

is, is not

or, and, not

$|$, $\&$, \wedge , \gg , \ll , \sim

```
a = 10.0
```

```
b = 20
```

```
c = a + b
```

```
print(c, type(c))
```

```
30.0 <class 'float'>
```

implicit conversion

10.0 + 20

10.0 + 20.0 ✓

30.0

int → float

10.0 + 20

10 + 20

30 int

float → int

✗

`a = True` *boolean → int* | *(implicit type conversion)*

`b = 1` *→ int*

`c = a + b`

`print(c, type(c))`

`2 <class 'int'>`

$$a = 10$$

$$b = 3$$

$$c = a \div b$$

$$c = a // b$$

$$\begin{array}{r} 3 \overline{) 10} \\ \underline{9} \\ 1 \end{array} \begin{array}{l} (3 \rightarrow c \\ \rightarrow R \end{array}$$

