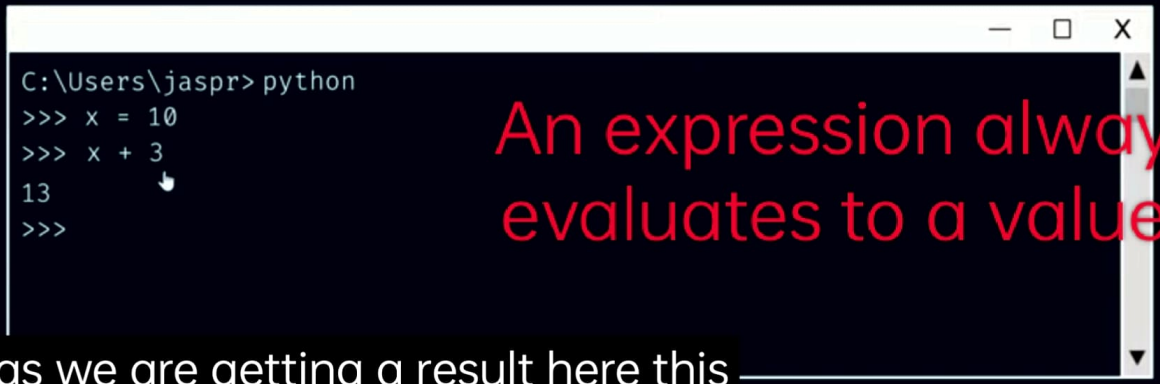
Topics

- [ ] Expressions in Python
- [ ] Constant Expressions
- [ ] Arithmetic Expressions
- [ ] Integral Expressions
- [ ] Floating-point Expressions

Expressions in Python

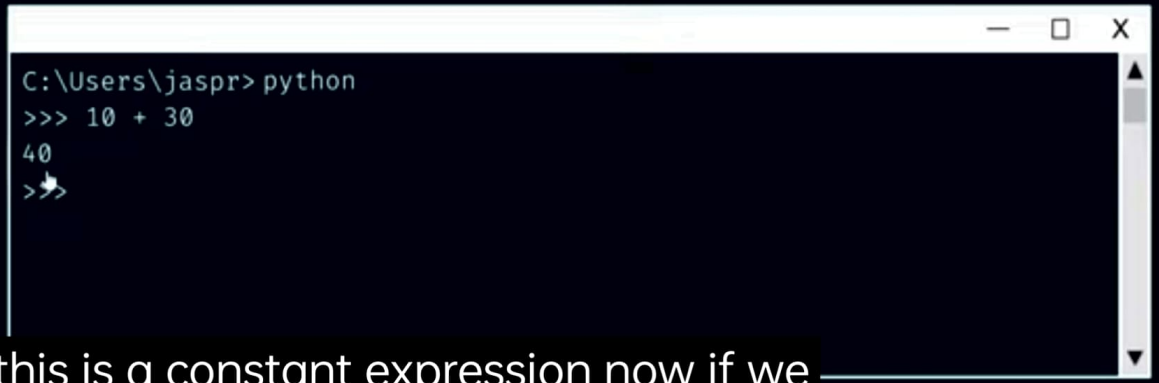
- Combination of operators and operands.



as we are getting a result here this means that X plus 3 is an expression

Constant Expressions

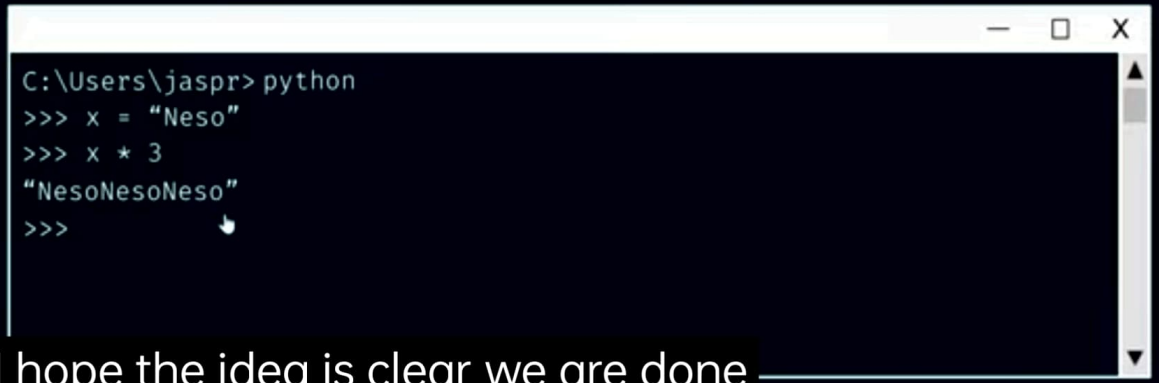
- A constant expression has only constants as operands.



this is a constant expression now if we hit enter we will get 40 as a result

Arithmetic Expressions

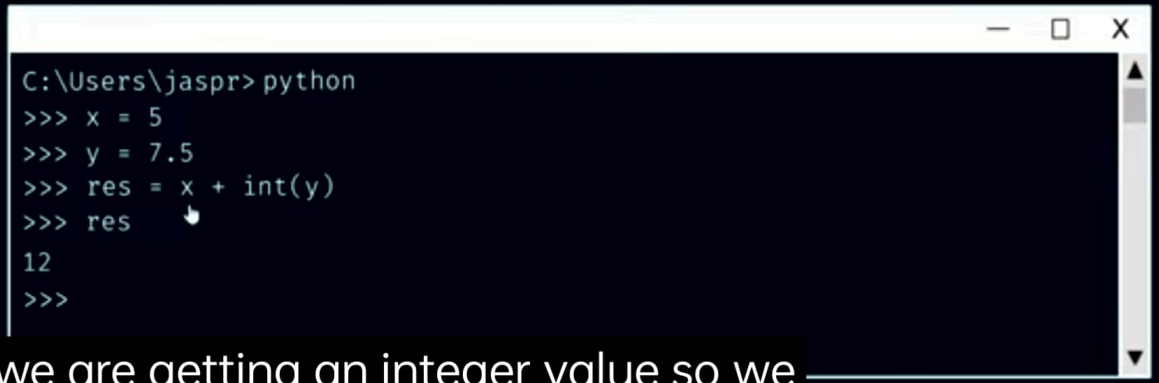
- Contains numeric values or strings as operands, arithmetic operators and sometimes parentheses.



I hope the idea is clear we are done with arithmetic Expressions as

Integral Expressions

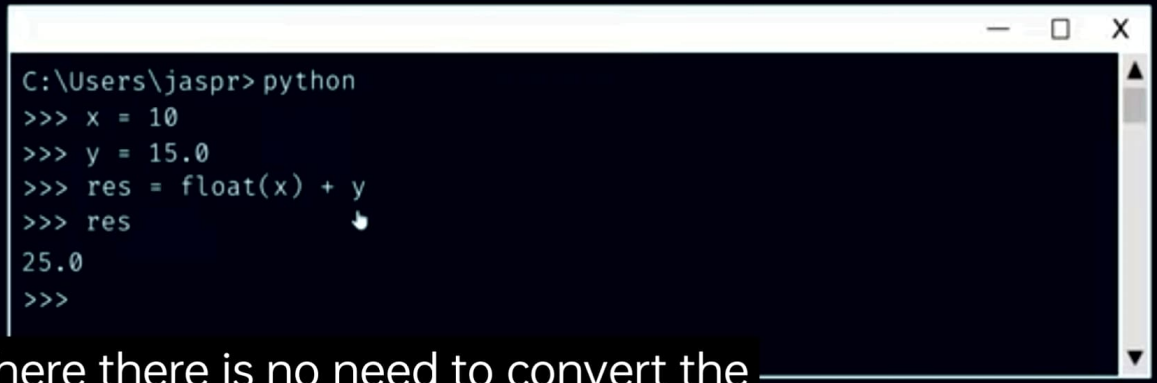
- Results an integer value after performing the necessary type conversions.



we are getting an integer value so we can say

Floating-point Expressions

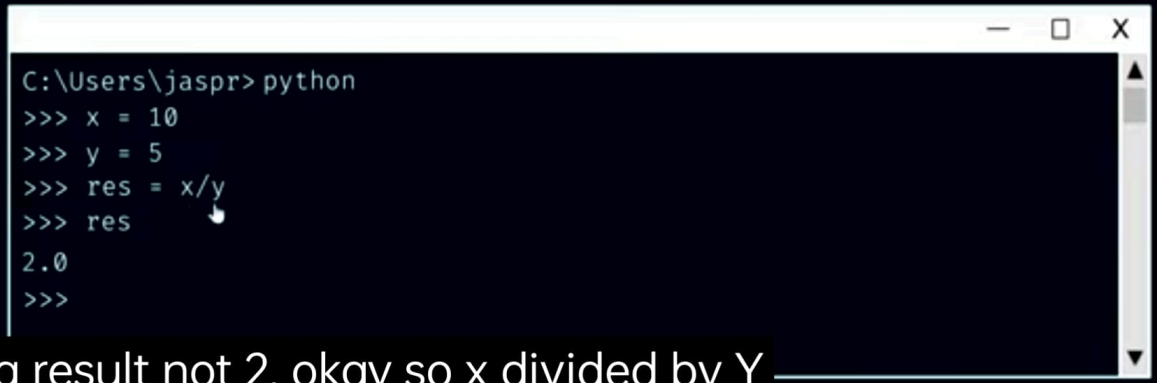
- Results a floating-point value after performing the necessary type conversions.



here there is no need to convert the type of X we can directly Type X Plus y because python does implicit type convertion for x

Floating-point Expressions

- Results a floating-point value after performing the necessary type conversions.



a result not 2. okay so x divided by Y is a floating Point expression as it is

Topics

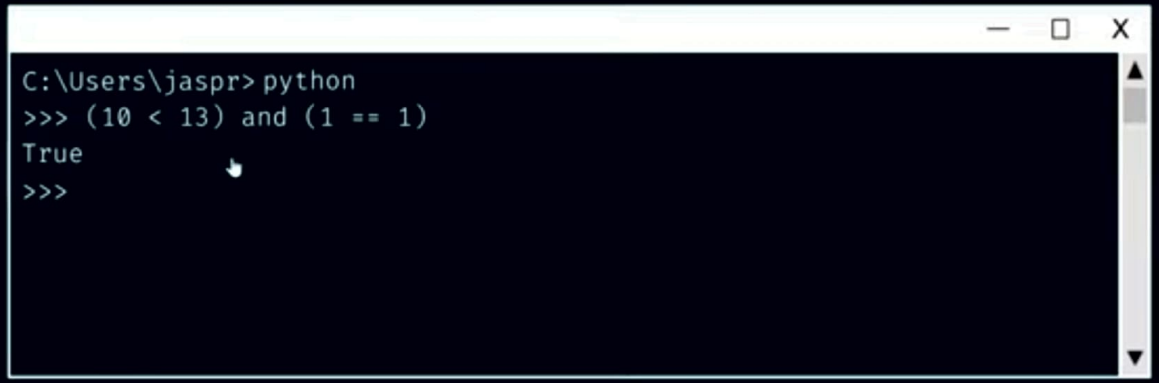
- [ ] Relational Expressions
- [ ] Logical Expressions
- [ ] Bitwise Expressions
- [ ] Combinational Expressions
- [ ] Precedence of Operators

Relational Expressions

- Also called Boolean expressions.
- Returns a Boolean value.

Logical Expressions

- Consists of relational expressions connected using logical operators.
- Returns a Boolean value.



Bitwise Expressions

- Contains Bitwise operators.
- Computations are performed at bit-level.

Precedence of Operators

Highest

Operators
(), [], {}
**
+a, -a
*, /, //, %
+, -
<< >>
&
^
|
>= <= > <
!=, ==
is, is not, in, not in
not
and
or
=, +=, -=, /=, *=

Lowest

Combinational Expressions

- Combination of different expressions.