notes.md 2024-09-30

Python Operators:

Arithmetic Operators

These are used for basic mathematical operations:

- + (Addition)
- - (Subtraction)
- * (Multiplication)
- / (Division)
- % (Modulus)
- ** (Exponentiation)
- // (Floor division)

Comparison (Relational) Operators

These compare two values:

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

Assignment Operators

These assign values to variables:

- = (Assign)
- += (Add and assign)
- -= (Subtract and assign)
- *= (Multiply and assign)
- /= (Divide and assign)
- %= (Modulus and assign)
- **= (Exponentiation and assign)
- //= (Floor division and assign)

Logical Operators

These are used to combine conditional statements:

- and (Returns True if both statements are true)
- or (Returns True if one of the statements is true)
- not (Reverses the result)

Bitwise Operators

notes.md 2024-09-30

These work on bits and perform bit-by-bit operations:

- & (AND)
- (OR)
- ^ (XOR)
- ~ (NOT)
- << (Left shift)
- >> (Right shift)

Membership Operators

These test if a sequence contains an object:

- in (True if the value is found in the sequence)
- not in (True if the value is not found in the sequence)

Identity Operators

These compare the memory location of two objects:

- is (True if both variables point to the same object)
- is not (True if both variables do not point to the same object)