2024-01-09 - Apply concepts of Input / Output, control statements and object oriented programming in python for performing arithmetic operations.

09 January 2025   11:24

→ Operators :
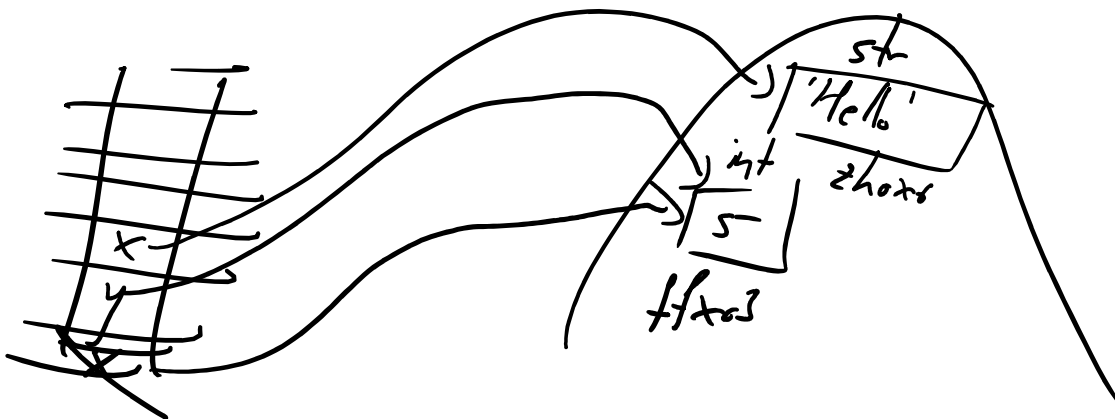
Arithmetic Operators :

  Numeric Value Calc.
  → Add, Sub, Mul, Div, Mod, Exp
  Floor Division.

→ Assignment Operators :

  = ~Assigning value to a variable.
  → Applying the arith op^r before assignment op^r

x = s¯

→ Comparison Operators :

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== Equal to   < Lesser than

!= Not equal to   >= G than E to

> Greater than   <= L than E to

→ Logical Operators:

&& — and — Mult

|| — or — Add

! — not

↳ 0 | 1
  1 | 0

→ Identity Operators: Membership Operators:

is   in

is not   not in

→ Bitwise Operators:

AND &   NOT   ~

OR | Left shift <<

OR | Left shift   <<

XOR   ^   right shift   >>

AND

→ 5   0 1 0 1   0   0   0

   9   ⌇ ⌇   0   1   0

   3   0 0 1 1   1   0   0

   1   [0 0 0 1]   1   1   1

→ 5   0 1 0 1   0   0 | 0

   1   ⌇ ⌇   0   1 | 1

   3   0 0 1 1   1   0 | 1

   7   [0 1 1 1]   1   1 | 1

→ XOR

        0   0 | 0   5   0 1 0 1   (0^1)

        0   1 | 1   ^

        1   0 | 1   3   0 0 1 1

        1   1 | 0   6   [0 1 1 0]

→ Control Statements:

If   {   if condition ;

```
If         'f    condition    ,
{                   statement
      elif  condition :
                    statements
      else  :
                statement
```